

NIST
PUBLICATIONS

NIST United States Department of Commerce
National Institute of Standards and Technology



A11103 478498

NIST Special Publication 806

*Standards Activities of
Organizations in the
United States*

Robert B. Toth, Editor

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NIST Special Publication 806

Standards Activities of Organizations in the United States

Robert B. Toth, Editor

Office of Standards Code and Information
National Institute of Standards
and Technology
Gaithersburg, MD 20899

Supersedes NBS Special Publication 681

February 1991



U.S. Department of Commerce
Robert A. Mosbacher, Secretary

National Institute of Standards and Technology
John W. Lyons, Director

National Institute of Standards
and Technology
Special Publication 806
Natl. Inst. Stand. Technol.
Spec. Publ. 806
736 pages (Feb. 1991)
CODEN: NSPUE2

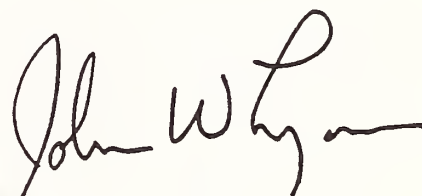
U.S. Government Printing Office
Washington: 1991

For sale by the Superintendent
of Documents
U.S. Government Printing Office
Washington, DC 20402

FOREWORD

The National Institute of Standards and Technology (NIST) assists the private sector and other government agencies through research and development of better methods of measurement, determination of physical constants and properties of materials, and design of practical test procedures. Standards are an important medium for disseminating the results of Institute research, and the work of the national standards bodies is of vital concern to NIST. This directory identifies and describes U.S. public and private sector organizations which develop, publish, and revise standards, participate in this process, identify standards, or make standards available through information centers or distribution channels. These organizations have grown steadily in number since the first volume in this series was issued in 1941.

I believe that this directory, which covers mandatory and voluntary U.S. standards activities, will be a useful reference for all who need and use standards. An updated companion volume was issued in May 1989 as NIST Special Publication 767, "Directory of International and Regional Organizations Conducting Standards-Related Activities." Both these and similar reference documents are maintained by the Institute's Office of Standards Services (OSS). OSS invites your comments and inquiries regarding its other publications.



John W. Lyons
Director

ACKNOWLEDGMENTS

Every entry in this directory was carefully prepared by representatives of the participating organizations. Obviously, this directory could not have been issued without the contributions and cooperation of hundreds of staff persons in the trade associations, professional societies, government agencies, and other organizations that constitute the "standardization community." They deserve the thanks of those who worked on this project and all who use the directory.

John Donaldson, Don Mackay, and Maureen Breitenberg ably coordinated and monitored this project for NIST's Office of Standards Services. Considerable data was provided by Steve Lowell of the Department of Defense and Bernice Durbin of Information Handling Services. Their authoritative statistics constitute a major portion of the data which help define our standards resources.

Special thanks are due the staff of R. B. Toth Associates, who compiled this directory under contract to NIST, in particular, Kellie Tassone and Megan Fogarty who managed all aspects of information gathering and processing.

ABSTRACT

This directory is a guide to mandatory and voluntary standards activities in the United States at the national level - both governmental and nongovernmental (trade associations, technical and other professional societies). It excludes proprietary (company standards) and state and local levels of government (i.e., county and municipal). It supersedes the 1984 edition (NBS SP 681), "Standards Activities of Organizations in the United States". It includes standards distributors, libraries, and information centers, and union lists of standards repositories by regional areas. It also lists organizations that no longer develop standards or have become defunct since the previous directory was issued.

Over 750 current descriptive commentaries are formatted, with subject headings to facilitate access to specific information. The main sections cover nongovernment; federal government; sources of standards documents and information; a subject index and related listings covering acronyms and initials, defunct bodies, and those organizations with name changes. Organizations have been included if they develop standards or contribute to the standardization process, whether voluntary or mandatory, or are sources of standards documents or information. An introductory section provides general information on federal (including military) standards activities, a list of 20 major nongovernment standards developers, some historical notes, and an overview of U.S. (national) standardization activities.

Keywords: codes; government standardization activities; nongovernment standardization activities; overview of U.S. standardization activities; recommended practices; sources of standards; specifications; standardization; standards; test methods;

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1. INTRODUCTION

Standardization activities in the United States are broad, complex, and decentralized. This directory is intended to provide perspective and to serve as a source of information about the standardization system; the inputs are based on material provided by the principals.

This Directory is the sixth in a series started in 1941. The first edition, NBS Miscellaneous Publication (MP) 169, "Standardization Activities of National Technical and Trade Organizations," was edited by Robert A. Martino and covered 450 organizations. The second edition, NBS MP 230, was edited by Sherman Booth and issued in 1960. The third edition, "Directory of United States Standardization Activities," NBS MP 288, was edited by Joan Hartman and issued in 1967, and the 1975 edition, NBS Special Publication 417 was edited by Sophie Chumas. This publication supersedes the 1984 edition, NBS Special Publication 681 which was also edited by Robert B. Toth.

1.1 SCOPE AND CRITERIA

This edition summarizes standardization activities of over 750 organizations which, in the aggregate, comprise the U.S. standardization system. In the broadest sense, "standards" includes specifications, codes, guidelines, recommended practices, grading rules, and similar documents. This directory also refers to regulatory standards developed by government agencies, but not to laws or regulations per se. However, many federal, state, and local regulations and codes are based on the voluntary standards of organizations listed in this directory.

The directory includes organizations that develop standards and also those that work with others to develop and use standards or that regularly comment on draft standards. It is considered to be inappropriate to include activities that only develop ethical/professional standards, or that set standards for judging animals, or are concerned exclusively with standards for services or training.

The directory lists sources of U.S. standards outside the United States and U.S. sources of foreign and international standards in response to increasing interest and application of standards throughout the world. Self-designated regional and international organizations are covered separately in NIST Special Publication 767, "Directory of International and Regional Organizations Conducting Standards-Related Activities," which has 338 entries, and NIST SP 795, "Directory of European Regional Standards-Related Organizations," which has 154 entries.

1.2 AN OVERVIEW

At the national level the U.S. standardization community currently maintains more than 94,000 standards in an active status. Figure 1 shows the various categories of standards developers and their output. The private sector has prepared about 45 percent of the total. In the private sector about 275 standards developers have ongoing standardization programs. Another 150 have prepared a few standards in the past, occasionally update them, but are not actively engaged in standardization work. Many other organizations, of course, review standards when their interests are affected, but they are not in the mainstream of standards development.

The standards of the 20 major private sector standards developers (Figure 2) constitute more than 75 percent of the nongovernment standards database.

Private sector organizations that are active in standards development can be categorized into three groups:

1. Scientific and Professional Societies. Some of these groups, in addition to their professional and educational roles, also develop standards. Some examples include the American Society of Mechanical Engineers, American Association of Cereal Chemists, and Society of Photographic Scientists and Engineers.
2. Trade Associations. These associations deal with the mutual business interests of their members drawn from a particular industry and promote the industry and its products. To address these objectives, many trade associations develop standards for the products manufactured by their members, although a few concentrate on developing standards for products used by the industry and its customers. The Aerospace Industries Association and the American Petroleum Institute are two trade associations that develop standards for items used by their members.
3. Standards-Developing Organizations. Organizations founded specifically to develop standards are often designated "standards-developing organizations" (SDOs). Some confusion occurs when the three types of organizations are collectively called SDOs. The oldest SDO in the United States is the U.S. Pharmacopoeial Convention. It published standards for 219 drugs in 1820. The American Society for Testing and Materials can be classified as an SDO, as can many of the organizations that serve as secretariats for ANSI accredited committees (e.g., Exchange Carriers Standards Association) or that operate as ANSI accredited organizations. In recent years, users of equipment and systems have gathered into loosely organized groups to define their functional requirements. Usually these requirements are specified in standards. Probably the most

prominent is the Manufacturing Automation Protocol & Technical and Office Protocol Users Group.

The number of published standards is not necessarily an absolute indicator of overall activity level or significance. Though counted as single standards, the American Bureau of Shipping's Rules for Building and Classing Steel Vessels, or any of the model building codes are not comparable to 95 percent of the standards published in the United States. The ASME Boiler and Pressure Vessel Code exceeds 11,000 pages. The Code, together with the other 750 ASME codes and standards, constitutes a collection of more than 48,000 pages. The 8,500 American Society for Testing and Materials standards total 46,000 pages.

The number of available standards may not be indicative of their value to industry and commerce. The real value of standards is realized only when they are used. Methods have yet to be developed to measure how often, or how widely, individual standards are implemented. Standards developers tell us that 80 percent of the orders for individual standards are for 15 or 20 percent of the total number published. Many standards are seldom used. We also know that, in spite of 5-year reviews, a good portion of our standards document obsolescent technology that, while appropriate for spares and maintenance of older equipment, is not appropriate for new designs. Some believe 25 to 30 percent of our national standards - both government and industry - fall into this category. Finally, some U.S. standards are redundant or overlapping. In a few areas, particularly building and construction, we often find five or six standards, that while not identical, define the functional requirements for the same type of product or material. More than 11,000 (12%) standards are applicable to building and construction. As shown in Figure 3, more than 200 government and private sector organizations develop standards in this sector.

Figure 1 indicates that the Department of Defense (DoD) is, by far, the largest developer of standards in the United States. The General Services Administration's (GSA) federal specifications and standards are widely used by federal and state agencies to procure many common products, and federal test methods are used in many industries. It is estimated that there are another 8,500 standards developed by such federal agencies as the Occupational Safety and Health Administration (OSHA), the Environmental Protection Agency (EPA), the Food and Drug Administration (FDA), Postal Service, and others. A significant portion of these are in a gray area where it is difficult to differentiate between standards and regulations.

The rate of standards development by DoD and GSA has slowed to the point where more standards are being cancelled than are created. In the period 1981 to 1990, DoD cancelled 7,600 of its specifications and standards, created 3,000 new ones, and adopted 2,000 industry standards. Currently, more than 4,900 industry standards have been adopted by DoD and efforts continue to increase that number. The decrease in the number of DoD's standards would be even more significant had it not prepared nearly 3,000 Commercial Item Descriptions which serve as procurement specifications for off-the-shelf products.

<u>Government</u>	Number of Standards	
Defense	38,000	40%
Federal (GSA)	6,000	6%
Other	<u>8,500</u>	<u>9%</u>
	52,000	55%
 <u>Private Sector</u>		
Scientific & Professional	13,000	14%
Trade Association	14,500	16%
Standards Developing Organizations	<u>14,000</u>	<u>15%</u>
	41,500	45%
Total	94,000	

Figure 1
Current number of U.S. standards and their developers

	Number of Standards
Aerospace Industries Association	3,000
American Association of Cereal Chemists	370
American Association of State Highway & Transportation Officials	1,100
American Conference of Governmental Industrial Hygienists	700
American National Standards Institute	1,400*
American Oil Chemists Society	365
American Petroleum Institute	880
American Railway Engineers Association	300
American Society of Mechanical Engineers	745
American Society for Testing and Materials	8,500
Association of American Railroads	1,350
Association of Official Analytical Chemists	1,900
Cosmetic, Toiletry & Fragrance Association	800
Electronic Industries Association	600
Institute of Electrical & Electronics Engineers	575
National Fire Protection Association	275
Society of Automotive Engineers	5,100
Technical Association of the Pulp and Paper Industry	270
Underwriters Laboratories	630
U.S. Pharmacopeia	4,450
* Published and copyrighted by ANSI	

Figure 2
20 major non-government standards developers

	Number of Standards
<u>Private Sector</u>	
200 Organizations	6,000
<u>Federal Government</u>	
GSA and DoD	2,000
Corps of Engineers	1,000
Navy Facilities Command	750
Postal Service	350
Others	750
Total	10,850

Figure 3
U.S. standards used in building and construction

1.3 CHANGES SINCE 1984

Thirty-five private sector organizations listed in the 1984 edition of the directory no longer participate in standardization activities or have ceased operations. The most notable are the Fragrance Materials Association which no longer maintains its 300 standards and Mill Mutual Fire Prevention Bureau which had developed standards for agri-processing plants since 1911. Major organizations indicating that they no longer participate in standardization activities include the Scientific Apparatus Makers Association and the Society of Manufacturing Engineers.

Forty additional organizations have been newly identified as standards developers. Many of these are in fields of new technology where market acceptance is often directly related to the availability of standards. Organizations in this category include:

- Automated Imaging Association
- Corporation for Open Systems International
- Home Automation Association
- Laser Institute of America
- MUMPS Development Committee
- National Computer Graphics Association
- Robotic Industries Association
- SPARC International

In 1983 when the fifth edition of this directory was compiled, it was estimated that the private sector published 32,000 standards as active documents. Seven years later that figure is estimated to be 41,500 which represents an average rate of increase of about 4 percent per year. Some of the increase can be attributed to better reporting. Another factor, as noted previously, is that standards developers seldom inactivate standards once they have been published.

1.4 COMPILATION OF INFORMATION

More than 1,200 nongovernment organizations were invited to provide entries for the current directory. These included all those cited in the previous edition; organizational members of ANSI; those represented in on-line databases of standards; and organizations listed in directories of trade associations and professional societies. More than 100 federal agencies were solicited for information on their standards-related activities. Follow-up mailings and telephone calls were made primarily to confirm information. However, corrections were sought only in the event of obviously erroneous entries.

The major sections on nongovernment, federal organizations and agencies are each preceded by a short description of mechanisms for policy development and coordination. Entries are organized in the various sections of the directory under subheadings to permit information to be found easily. Naturally, organizations with limited standards activities have fewer subheadings.

Each responding organization has determined for itself whether or not it is a "Standards Developer." A few organizations (less than thirty) self-identify as Standards Developer, although they neither develop nor publish standards, but in fact work within the structure of another organization. Similarly, a few organizations, many of which are the focus for standards activities in their field, insist that they not be cited as Standards Developers, but as working with other organizations to develop standards. A perusal of the information included in the Standardization Activities subheading will usually clarify the actual role.

Although extensive efforts were made to be comprehensive, some organizations that conduct standardization activities may be missing. Information for the entries was voluntarily provided by the submitting organizations, but it was sometimes necessary to reformat or edit for uniformity. Wherever possible, information on secretariats, designations, quantities, and the availability of standards was verified by consulting ISO, IEC, and ANSI publications, indexes, and distributors' catalogs.

Organizations that are not included in this directory are invited to send pertinent information to:

National Center for Standards and Certification
Information
Office of Standards Services
National Institute of Standards and Technology
Administration Bldg., Room A629
U.S. Department of Commerce
Gaithersburg, Maryland 20899

Listed organizations are encouraged to keep NIST informed of changes in organizational name or address.

All others interested in receiving updated information are also invited to add their names and addresses to our mailing list.

2. NONGOVERNMENT

2.1 NONGOVERNMENT ORGANIZATIONS

This section lists in alphabetical order 637 entries for trade associations, professional and technical societies, and other U.S. private sector organizations that develop standards or work with other organizations to develop standards. The information presented is intended to provide basic data, not only on the type of standards that are prepared, but some indications of the level of activity. Organizations were asked to provide information on the number of members involved in standardization, the number of staff personnel devoted to standardization programs, and secretariats that they sponsor. The individual named is directly responsible for the organization's standardization activities and should be contacted if additional information is required.

Organizations were asked whether or not they had any certification, qualification, or accreditation programs for products, laboratories, or services. In many cases it was considered just as important to indicate when there was no qualification program. Many standards developers provided information on the prefixes or other designations which identify their publications. Those which prepare ANSI standards usually indicate the basic prefix, i.e., S3.x designates ANSI bioacoustics standards, developed by the Acoustical Society of America, ranging from ANSI S3.1 through S3.39.

The keywords were provided by the listed organization, supplemented by the editor. These keywords provide the capability for simple on-line search at some time in the future, and for that reason are separated by semicolons - the convention that is utilized in most search software. Keywords synopsise the areas in which the organization's standardization activities are directed and, as such, assist the directory user to find more quickly pertinent, responsible organizations.

ABRASIVE ENGINEERING SOCIETY

Bill Rapp, Business Manager

Box 461
118 Main Street
Connoquenessing, Pennsylvania 16027
(412) 789-9141 FAX: (412) 789-7288

Founded: 1956

**Type of
Organization**

Technical Society
Standards Developer

Scope

Promotes and interprets the scope and potentialities of abrasives to business and the public; promotes industry-wide standards.

**Standardization
Activities**

Maintains a National Standards Committee which is responsible for the formulation and development of standards for abrasives. Cooperates with the American National Standards Institute (ANSI); serves on American National Standards Committee B74 on Abrasives.

Availability

Distributed through ANSI

Formerly

American Society for Abrasive Methods

Keywords

abrasives; manufacturing;

ABRASIVE GRAIN ASSOCIATION

Allen P. Wherry, Manager

3020 Detroit Road
Cleveland, Ohio 44145
(216) 899-0010 FAX: (216) 892-1404
Telex: 98-5550

Founded: 1933

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Standards developer since 1933
Ten standards published
Processed through ANSI

**Standards
Designation**

ANSI B74.x

Scope	Manufacturers of natural and manufactured abrasives, i.e., silicon carbide, aluminum oxide, corundum, emery, garnet, etc., used in grinding wheels, coated abrasives and other products.
Standardization Activities	Administered by Standards Committee and several subcommittees; participates in international standardization work, cooperating with the International Organization for Standardization (ISO), the Federation of European Producers of Abrasives (FEPA), and ANSI. Publishes ten standards including standards on density, capillarity, friability, and chemical analysis of abrasive grains. Promulgates its documents through the Grinding Wheel Institute Accredited Standards Committee B74. The Technical and Administrative Directors provide technical advice and answer queries related to the Committee's standards activities.
Availability	Distributed directly and through ANSI
Keywords	abrasives; manufacturing; materials;

ACCREDITING BUREAU OF HEALTH EDUCATION SCHOOLS

Ms. Martha J. Glanbler, Acting Administrator

Oak Manor Offices
29089 U.S. 20 West
Elkhart, Indiana 46514
(219) 293-0124

Founded: 1964

Standards Staff: 9

Type of Organization	Accrediting Agency Works through other organizations to develop standards
Certification	Accredited program graduates are eligible for professional registration with American Medical Technologists Registry as medical laboratory technician (MLT) and registered medical assistants (RMA).
Scope	Recognized by U.S. Department of Education to accredit medical laboratory technician education programs in the private and public sector through junior college level and medical assistant programs in the private sector and allied health institutions in the private sector. Recognized by Council on Postsecondary Accreditation to accredit medical laboratory technician and medical assistant education programs in the private sector and institutions of allied health in the private sector.

Standardization Activities	Establishes criteria and standards for the administration and operation of health education institutions and specialized programs for medical laboratory technician and medical assistant education; enhances the profession through the improvement of schools, programs, and quality of graduates; provides sound business and ethical standards in the fields of health education; maintains standards and procedures consistent with the philosophies and best-known practices of other educational accrediting agencies.
Availability	Distributed directly
Formerly	Accrediting Bureau of Medical Technology Schools (1964-78) Accrediting Bureau of Medical Laboratory Schools (1968-78)
Keywords	accreditation; medical laboratory; dental; medical; health education; public health;

ACOUSTICAL SOCIETY OF AMERICA

	Avril Brenig, Standards Manager 500 Sunnyside Blvd. Woodberry, New York 11797 (212) 661-9404 Founded: 1929 Standards Staff: 3
Type of Organization	Technical Society Standards Developer
Standards Development	Standards development since 1932 Organizer of 85 working groups and 700 participants active in standards development 65 active standards Processed through ANSI Draft standards available for review
Standards Designation	ANSI SX.x, ASA Catalog Numbers
Government Adoption	Some referenced by FDA
Secretariats	ANSI S1, Acoustics ANSI S2, Mechanical Shock and Vibration ANSI S3, Bioacoustics ANSI S12, Noise ISO/TC 108, Mechanical Vibration and Shock

Scope	A national society of physicists and engineers involved in the fields of electroacoustics, ultrasonics, architectural acoustics, psychological and physiological acoustics, music, noise and vibration control.
Standardization Activities	Maintains a standards program to publish standards, specifications, methods of measurement and test, and terminology in the fields of physical acoustics, including architectural acoustics, electroacoustics, sonics and ultrasonics, underwater sound, mechanical shock and vibration, psychological and physiological acoustics, including aspects of general acoustics, shock and vibration which pertain to biological safety, tolerance and comfort; and acoustical, environmental, and occupational noise. Cooperates with ANSI, ISO, and the U.S. National Committee of the International Electrotechnical Commission. Involves the government, industry, and the general public in voluntary standardization.
Availability	Sold directly and through ANSI
Keywords	noise control; mechanical shock; vibration; bioacoustics; environment; acoustics;

ADHESIVES MANUFACTURERS ASSOCIATION

J. Dollard Carey, Executive Director

111 East Wacker Drive
Chicago, Illinois 60601
(312) 644-6610

Founded: 1933

Type of Organization	Trade Association Works through other organizations to develop standards
Representation	ANSI
Scope	Twenty-five member companies representing the major packaging adhesive manufacturing firms in the United States and twenty associate members representing supplier companies. Provides a forum for members to meet and exchange ideas for the advancement of the industry and its members, including research and development of better adhesives and applications. Sales and marketing techniques, employee health and safety, statistical analyses, and regular updates on the economic climate are other important functions.

Standardization Activities The Adhesives Manufacturing Association is not a standards developing organization; it works within the voluntary standards system to coordinate adhesive standards activities and act as the industry voice. Also monitors proposed regulations and standards at the federal, state, and local levels.

Keywords adhesives; packaging; solvents; manufacturing;

ADVANCED TELEVISION SYSTEMS COMMITTEE

Robert Hopkins, Executive Director

1776 K Street, NW
Suite 300
Washington, DC 20007
(202) 828-3130

Founded: 1982

Type of Organization Professional Society
Standards Developer

Scope Created by the Joint Committee for Inter-Society Coordination (JCIC). Coordinates the development of voluntary national technical standards for advanced television. Makes recommendations to the United States Department of State for its use in developing U.S. positions on various standards issues that are considered by international standards organizations. Membership includes television equipment manufacturers, broadcasters, cable companies, and associated trade and professional societies.

Standardization Activities Develops voluntary national standards for advanced television systems in the United states including generation, distribution, reception, and display of improved NTSC television systems, enhanced television systems, and high definition television (HDTV) systems. The secretariat for the ATSC is the National Association of Broadcasters (NAB).

Formerly National Television System Committee (NTSC)

Keywords electronics; communications; HDTV; high definition television; television;

ADVISORY COMMISSION ON TEXTBOOK SPECIFICATIONS

Martin Blumberg, Technical Director

111 Prospect Street
Suite 405
Stamford, Connecticut 06901
(203) 324-9670

**Type of
Organization**

Advisory Commission
Standards Developer

**Government
Adoption**

ACTS standards are applied by most states for textbook purchases.

Scope

A federation of three organizations comprised of representation from the Association of American Publishers, Book Manufacturers Institute, and the National Association of State Textbook Administrators.

**Standardization
Activities**

Developed the Manufacturing Standards and Specifications for Textbooks which establish quality standards for paper, printing, binding, and related details. These standards are intended as a guide to aid manufacturers, publishers, textbook administrators, and the general public. The Technical-Administrative Director profiles technical advice and answers queries related to the Commission's standards activities.

Availability

Distributed directly

Keywords

publishing; textbooks; education;

AERONAUTICAL RADIO, INC.

B. Richard Climie, Sr. Director - Industry Activities

2551 Riva Road
Annapolis, Maryland 21401
(301) 266-4111

Founded: 1929

Standards Staff: 6

**Type of
Organization**

Not-for-profit service organization
Standards Developer

**Standards
Development**

180 Form, Fit, and Function (performance) standards describe airborne electronic equipment for transport aircraft
Draft standard and related reports available upon request
None processed through ANSI

Standards Designations	ARINC Equipment Characteristics (specific equipment) ARINC Standards (basic system elements) ARINC Reports (guidance material)
Certification	No certification, qualification, or accreditation programs
Secretariats	Airlines Electronic Engineering Committee (AEEC)
Scope	A wholly owned subsidiary of ARINC Incorporated which is an ordinary stock corporation owned by major air transport operators. Operates on behalf of the users on a "not-for-profit" basis. Provides telecommunications services without discrimination to all users of the airspace within the United States. The cost of each service is directly recovered from the users of that service without "cross subsidy" from other users. Provides planning and coordination of user telecommunications needs with participation by all elements of aviation.
Standardization Activities	ARINC's voluntary standardization activities are conducted by the AEEC chaired by D.A. Martinec, Director of ARINC Avionics Engineering DEpartment. AEEC comprises user specialists from U.S., European and Pacific basin airlines, general aviation, U.S. Air Force and airline associations. The voluntary standards generally are drafted by a subcommittee comprised of users, equipment and airframe manufacturers, regulatory agencies and other interested parties. AEEC supervises the subcommittee work and adopts completed documents when appropriate.
Availability	Paper copies are available directly; microfilm from IHS
Keywords	avionics; navigation; surveillance; air-traffic-control; aviation; transportation; electronics; communication;

AEROSPACE INDUSTRIES ASSOCIATION OF AMERICA

Barbara Boykin, Director Standardization Programs

1250 Eye Street, NW
Washington, DC 20005
(202) 371-8460

FAX: (202) 371-8470

Founded: 1919

Standards Staff: 4

Type of Organization Trade Association
Standards Developer

Standards Development	Standards developer since 1938 130 members participating in standards activities 2020 active standards, including 140 metric None processed through ANSI Draft standards available for review
Standards Designation	NAS, National Aerospace Standard NA, Metric NAS
Government Adoption	The Department of Defense has adopted nearly 700 National Aerospace Standards (NAS's).
Certification	No certification, qualification, or accreditation programs
Secretariats	ISO/TC 20 Aircraft and Space Vehicles International Coordinating Council of Aerospace Industries Associations, industry interface with the International Civil Aviation Organization American National Metric Council, Aerospace Sector Committee
Scope	A national trade association representing U.S. companies engaged in research, development, and manufacture of such aerospace systems as aircraft, missiles, spacecraft, and space launch vehicles; propulsion, guidance, and control systems for flight vehicles; and a variety of airborne and ground-based equipment essential to the operation of flight vehicles. Functions on national and international levels, representing its membership in a wide range of technological and other relationships with government agencies and the public.
Standardization Activities	Standardization activities are directed toward fulfilling user-defined requirements of the industry and its customers. A close working alliance exists with the Department of Defense, National Aeronautics and Space Administration, and other agencies and industry organizations. This liaison involves direct participation of government representatives in meetings and activities of the association's primary standards developing body, the National Aerospace Standards Committee. Technical input is solicited from all affected interests. Committees also review and make recommendations on government standards documents and participate in standards programs of ANSI, SAE, ASME, DoD, DoC, and FAA. NAS's are used worldwide in high stress environments. They are applied on all types of aerospace and other high-technology systems, as well as critical non-aerospace applications such as rapid transit rail cars,

amusement park rides, high speed diesel engines, and racing cars. The NAS series is best known for its high strength, precision fasteners, which include bolts, screws, nuts, and rivets of all types in inch (NAS) and metric (NA) series. Other NAS's define high pressure hose, electrical connectors, splices and terminations, rod end bearings, and many other types of hardware and components.

Nearly 100 of NAS's specify requirements for manufacturing equipment used by aerospace and other industries, including numerically controlled (NC) and computer aided manufacturing (CAM) machine tools, NC welding and fabrication equipment. One of the first standards for an industrial robot was released as an NAS in 1982. NAS's have also been developed for airport planning, airworthiness requirements of cargo containers, flight testing, propellants, packaging, and other needs of the aerospace community.

Availability Distributed through IHS, NSA, ATP, Global

Formerly Aeronautical Chamber of Commerce
Aircraft Industries Association (1945)
Aerospace Industries Association (1959)

Keywords aerospace; transportation; defense; testing; high-technology; engineering; manufacturing; fasteners; metric;

AIR AND WASTE MANAGEMENT ASSOCIATION

Martin E. Rivers, Executive Vice President

P.O. Box 2861
Pittsburgh, Pennsylvania 15230
(412) 232-3444

Founded: 1907

Type of Organization Technical Society
Works through other organizations to develop standards

Representation ANSI Committee Z-21, Subcommittee on Standards for Domestic Gas-Fired Incinerators; ANSI Z-105, Air Cleaning Equipment Committee; ANSI Z-91, Committee of Installation Standards for Oil Burners and Oil Burning Equipment; ANSI Z-228, Incinerator Committee; International Organization for Standardization; Technical Committee ISO/TC 146; and Air Purity Intersociety Committee (Manual of Methods of Ambient Air Sampling Analysis).

Scope	A voluntary, cooperative, nonprofit, technical organization devoted to air pollution control and waste management. Membership of 9500 is composed of engineers, scientists, enforcement officials, industrial organizations, manufacturers of control equipment and instrumentation, scientific and educational institutions, and consultants.
Standardization Activities	Contributes to standards development through representation on various committees of standards-setting organizations.
Keywords	air pollution; environment; waste management;

AIR CONDITIONING AND REFRIGERATION INSTITUTE

	Herbert Phillips, Vice President of Engineering 1501 Wilson Blvd, 6th Floor Arlington, Virginia 22209 (703) 524-8800 Telex: 89-2351 Founded: 1953 Standards Staff: 10
Type of Organization	Trade Association Standards Developer
Standards Development	Standards developer since its formation in 1953 150 members participate in standards activities Over 50 active standards processed through ANSI Draft standards available for review; interested parties are invited to participate in standards development
Standards Designation	ARI prefix
Government Adoption	Certain government agencies recommend purchase of products tested according to specific ARI Standards and/or ARI certified products.
Certification	Seventeen certification programs. Product performance certified by manufacturer, verified by ARI through an independent laboratory.
Secretariats	Chairmanship U.S. TAG ISO/TC 86, Refrigeration; Chairman, IEC/TC 61D
Scope	Trade association of manufacturers of air conditioning, heating, commercial and industrial refrigeration, excluding room air conditioners, household refrigerators and freezers, portable humidifiers and dehumidifiers.

**Standardization
Activities**

Activities of ARI include: Equipment standards pertaining to physical and operating characteristics of items and equipment; Testing standards procedures for testing equipment in order to determine performance and operating characteristics; Rating standards containing provisions for converting data into general statements of capacity and performance which can be applied to a series of production items; Application standards specifying acceptable installation criteria, including initial selection of equipment.

Standards issued cover: unitary air-conditioning equipment and heat pumps, air-cooling and air-heating coils, forced circulation, free-delivery air-coolers for refrigeration, central station air-handling units, room air-induction units, centrifugal liquid-chilling packages, reciprocation chilling packages, liquid line driers, self-contained mechanically-refrigerated drinking water coolers, transport refrigeration units, and sound rating and application standards. ARI also has an International Standards Engineer to handle international standards activities.

Availability

Distributed directly and through IHS and Global

Formerly

Refrigeration Equipment Manufacturers Association (REMA)
Air-Conditioning and Refrigeration Machinery Association (ACRMA)

Keywords

air-conditioning; refrigeration; heat pumps; water coolers; sound; cooling coils; heating coils; air handling; building;

AIR CONDITIONING CONTRACTORS OF AMERICA

James P. Norris, Executive Vice President

1513 16th Street, NW
Washington, DC 20036
(202) 483-9370

Founded: 1969

Standards Staff: 2

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Standards developer since 1960
50 members involved in standards development
Five standards published
None processed through ANSI

Government Adoption	HUD, FHA
Scope	An organization of heating, air conditioning, and refrigeration contractors, representing such contractors throughout the United States and in a limited number of foreign countries. Provides management training, industry relations and government relations services for its members.
Standardization Activities	Develops procedures and standards for residential and commercial heating and air conditioning system design, load calculation, and equipment selection. Standards specifically prepared for use by non-engineering design personnel, although used by others. Participates in ANSI Committee Z21 and various ASHRAE committees.
Availability	Sold directly
Formerly	Air Conditioning and Refrigeration Contractors of America National Warm Air Heating and Air Conditioning Association (Merged in 1969) National Environmental Systems Contractors Association (formed by Merger, 1969) Current name adopted 1978
Keywords	air-conditioning; heating; refrigeration; air handling; building;

AIR DISTRIBUTION INSTITUTE

Patricia H. Keating, General Manager

4415 West Harrison Street
Suite 242-C
Hillside, Illinois 60162
(708) 449-2933

FAX: (708) 449-0837

Founded: 1947

Type of Organization	Trade Association Standards Developer
Standards Development	Participated in the development and updating of Simplified Practice Recommendation R207 since 1947.
Scope	A national trade association representing U.S. companies engaged in research, development, and manufacture of air distribution equipment, as pipe, duct, and fittings for warm air heating and air conditioning, for use in residential single and multi-family dwellings.

Standardization Activities	Develops production distribution and use standards for pipe, duct, and fitting for warm-air heating and air conditioning. Produces a numerical data system for identification of products as manufactured by its members, in concert with North American Heating and Air Conditioning Wholesalers. Currently updating simplified practices and recommendations.
Availability	Distributed directly
Keywords	air handling;

AIR MOVEMENT AND CONTROL ASSOCIATION

Peter N. Hanly, Executive Vice President

30 West University Drive
Arlington Heights, Illinois 60004
(212) 394-0150 Telex: 27-0650 AMCA ARHT

Founded: 1917

Standards Staff: 3

Type of Organization

Trade Association
Standards Developer

Standards Development

Standards developer since 1960
195 members participating in standards activities
27 active standards, including 7 metric
2 processed through ANSI
Draft standards available for review

Standards Designation

AMCA prefix

Certification

Products which have been performance rated in accordance with AMCA standards are eligible to be licensed under the Certified Rating Program and are identified by the display of the AMCA Certified Ratings Seal.

Secretariats

ISO/TC 117 Industrial Fans SC2 (Sound Ratings);
ANSI/TAG for ISO/TC 117 since 1988

Scope

An international trade association of manufacturers of fans, louver, and dampers used in industrial, commercial, residential, and institutional air handling systems. Includes more than 100 manufacturers in the USA and Canada and some 20 countries overseas. Promotes and furthers the interests of the public and

manufacturers of air moving and control devices throughout the world. Promotes the use of voluntary standards and technical documents to help purchasers, specifiers, and users with selection, application, and safe and efficient use of those products.

**Standardization
Activities**

Aims at the development of accurate and reliable testing procedures which are adopted as standards and used as a basis for rating the industry's products. Adopts standards to measure the performance of all air moving devices and the sound power of this equipment, in addition to air curtains and industrial ceiling fans. These include relating pressure drop and/or water penetration to the air flow rate of louvers, dampers, and shutters; leakage rate of dampers at a given pressure difference. Other technical standards cover a wide variety of subjects including nomenclature, drive arrangements, sizes, classification for spark resistant construction, operating limits for centrifugal fans, and inlet box positions for centrifugal fans.

Works closely with ASHRAE. Developed "Laboratory Methods of Testing Fans for Rating," a joint standard with ASHRAE. Works with ISO/TC 117 to develop an international standard for air performance testing. Reviews and makes recommendations on standards and documents of ASHRAE, ASME, ISO, NFPA, and UL.

Availability

Sold directly. Joint ASHRAE standards also available through ASHRAE.

Formerly

National Association of Fan Manufacturers (1955)
The Power Fan Manufacturers Association (1955)
Industrial Unit Heater Association (1955)
Home Ventilation Institute (Merged 1984)

Keywords

air curtain; blower; damper; fan; louver; shutters;
noise control; air handling; building; residential
fans;

AIR TRANSPORT ASSOCIATION OF AMERICA

Ed Thomas, Vice President, Engineering and Maintenance

1709 New York Avenue, NW
Washington, DC 20005
(202) 626-4035

Telex: 89655 ATA WSH

Founded: 1936

**Type of
Organization**

Trade Association
Standards Developer

Standards Development	32 members participate in standards development
Standards Designation	ATA prefix MSG-3 Airline Manufacturers Maintenance Program Planning Document WATOG World Airline Technical Operations Glossary ATA/IATA Interline Communications Manual S2000 Specification
Secretariats	ATA provides the secretariat for all of the above standards except the ATA/IATA Interline Communications Manual which is provided by the IATA.
Scope	A national trade association for 30 U.S. scheduled air carriers and two Canadian scheduled air carriers which are associate members. Provides services in operations, technical, traffic, government affairs, and finance fields. Functions on national and international levels, representing its membership before government bodies, the public, and associated industries.
Standardization Activities	Develops and maintains specifications and guidelines for use by airlines and suppliers in maintenance, supply, communications, and other programs. Primarily directed toward meeting the needs of airlines and those organizations, both public and commercial, which interface with the scheduled air carriers. Standards development requires national and international coordination between user airlines and suppliers through the ATA committee structure.
Availability	Distributed directly
Keywords	transportation; communications; maintenance; aviation;

AIRCRAFT LOCKNUT MANUFACTURERS ASSOCIATION

John Shiffert, Manager

2017 Walnut Street
Philadelphia, Pennsylvania 19103
(215) 569-3650 FAX: (215) 569-1410

Founded: 1940 Standards Staff: 1

Type of Organization	Trade Association Works through other organizations to develop standards
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Representation All member firms are active in consultant and liaison roles with Aerospace Industries Association, SAE (E21-E25), and other industry and military groups. Individual companies are active in ISO and other standardization groups.

Scope An association of manufacturers, responding to standards formulated by various customer organizations.

Standardization Activities Standardization activities of ALMA are directed to the conformation and performance criteria for aerospace locknuts.

Keywords locknuts; aerospace; aviation; fasteners; transportation;

AIRCRAFT OWNERS AND PILOTS ASSOCIATION

John L. Baker, President

Government and Technical Affairs Division
421 Aviation Way
Frederick, Maryland 21701
(301) 695-2000 Telex: 893445
(202) 479-4050 FAX: (301) 695-2010

Founded: 1939

Type of Organization Trade Association
Works through other organizations to develop standards

Scope More than 300,000 pilots and aircraft owners interested in making flying safer, more economical, and enjoyable.

Standardization Activities Participates in activities of the Radio Technical Commission for Aeronautics which develops Minimum Operational Performance Standards (MOPS) for airborne electronic devices and systems. MOPS are used by the Federal Aviation Administration (FAA) and others to standardize the function of devices and systems used in the National Airspace System. Participates with other organizations whose activities affect pilots.

Keywords aviation; avionics; airborne electronics; transportation;

ALLIANCE OF AMERICAN INSURERS

Franklin W. Nutter, President

1501 Woodfield Road
Suite 400 West
Schaumburg, Illinois 60194-4980
(312) 490-8500

Founded: 1922

Standards Staff: 1

Type of Organization	Trade Association Works through other organizations to develop standards
Representation	80 Representatives serving on 100 standards committees of ANSI, NFPA, ASTM, and ASME.
Scope	A membership organization of 160 property/casualty insurers addressing the spectrum of insurance related issues.
Standardization Activities	Financially supports, through ANSI and NFPA, the consensus development of safety and health standards, as well as provides technical representatives to assist in formulating standards. To maximize the usefulness of the standards alliance, representatives urge performance standards where practicable. Standards are used in training seminars and in evaluating hazards and risks.
Formerly	American Mutual Insurance Alliance National Association of Mutual Casualty Companies
Keywords	insurance; loss control; fire protection; safety; industrial hygiene;

ALUMINUM ASSOCIATION

Peter Pollak, Manager - Product Standards and Electrical Services

900 19th Street, NW
Washington, DC 20006
(202) 862-5138

Telex: 710-822-1129

Founded: 1933

Standards Staff: 2

Type of Organization	Trade Association Standards Developer
Standards Development	7 active standards Processed through ANSI

Certification	No certification, qualification, or accreditation programs
Secretariats	ANSI Standards Committee H35 on Aluminum and Aluminum Alloys
Scope	<p>Serves the public as a source of noncommercial, industry-wide information on aluminum and the aluminum industry. Membership embraces producers of primary ingot, sheet, and plate; and leading extruders, foundries, secondary smelters, forging firms, and producers of aluminum electrical conductors. Represents virtually all U.S. primary aluminum production and 85 percent of semi-fabricated aluminum product shipments.</p> <p>Functions include developing, publishing, and distributing technical data, collecting and publishing industry statistics, and conducting school programs and industry seminars.</p>
Standardization Activities	<p>Activities of the association are the basis for the majority of government, American Society for Testing and Materials, company, and other specifications for aluminum and aluminum alloy products. Specific publications include: Aluminum Standards and Data (published biennially), Drafting Standards - Aluminum Extruded and Tubular Products, Designation System for Aluminum Finishes, Specifications for aluminum Structures, and Standards for Aluminum Standard Permanent Mold Castings. The association also publishes, in cooperation with the American Society for Metals, the European Aluminum Association, the Japan Light Metals Association, and the Aluminum Development Council (Australia), a monthly abstract journal of the world's technical literature on aluminum.</p>
Availability	Directly through ANSI
Keywords	aluminum; alloys; metallurgy; materials;

AMERICAN ACADEMY OF PEDIATRICS

James E. Strain, M.D., Executive Director

141 Northwest Point Boulevard
Elk Grove Village, Illinois 60009
(312) 228-5005

Founded: 1930

Type of Organization	Professional Society Health Care Guidelines Development
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Scope	The Academy unites 37,000 member pediatricians throughout the Americas to ensure for all young people the attainment of their full potential for physical, emotional, and social health. To this end, the AAP dedicates its resources to professional education, advocacy for children, representation of pediatricians, public education, access to health care and service to children.
Standardization Activities	The AAP publishes statements and manuals to help health professionals in their treatment of children. These recommendations have been used by regulatory agencies to establish guidelines for pediatric care. These pertain to perinatal care, pediatric nutrition, out-of-home day care, and treatment of infectious diseases, guidelines for health supervision, accident and poison prevention, school health, sports medicine, drug therapies and toxicities, and environmental hazards.
Availability	On request (order) from Publications Department
Keywords	children; guidelines; perinatal care; general health care;

AMERICAN ALLIANCE FOR HEALTH, PHYSICAL EDUCATION, RECREATION AND DANCE

Charlie Hartman, Executive Vice President

1900 Association Drive
Reston, Virginia 22091
(703) 476-3400

Founded: 1885

Type of Organization	Professional Society Standards developer
Certification	Certification programs are implemented at the state level through activities of AAHPERD members. Professional preparation programs in colleges are developed using AAHPERD standards.
Scope	A voluntary professional organization for education in the field of recreation and dance. Promotes the improvement of education through such professional services as consultation, periodicals and special publications, leadership development, determination of standards, public information, and research.
Standardization Activities	Standards are national in scope and are promoted through the education of teachers and professionals in allied fields. Publishes over 30 books and pamphlets

containing guidelines and standards. With funding from the Department of Health, Education and Welfare, prepared Guideline for Professional Preparation for Personnel Involved in Physical Education and Recreation for the Handicapped. Cooperates with other organizations such as the Association for the Advancement of Health Education, National Association for Sport and Physical Education, and the American Association for Leisure and Recreation.

Keywords physical education; health care; recreation; dance; physically handicapped;

AMERICAN ARCHITECTURAL MANUFACTURERS ASSOCIATION

John Gurniak, Technical Director

2700 River Road
Suite 118
Des Plaines, Illinois 60018
(708) 699-7310 FAX: (708) 299-7744

Founded: 1936

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Standards developer since 1936
Processed through ANSI

**Standards
Designations**

ANSI/AAMA prefix

**Government
Adoption**

Standards are referenced by HUD in the M.P.S., and are accepted by the Department of Defense.

Certification

Sponsors certification program for aluminum and vinyl windows and doors; also sponsors a program for manufactured housing to comply with FMH CSS/HUD requirements.

Scope

A trade association of approximately 260 firms engaged in the manufacture and sale of architectural building components and related products.

Standardization

ANSI/AAMA Voluntary Standards currently exist for aluminum prime windows and doors, and sliding glass doors covering characteristics, such as air infiltration, water resistance, windload, structural strength, component requirements, and other quality requirements.

Other Voluntary Standards cover energy balance calculating procedures, recommended test methods, and coatings and finishes for storm windows and doors, aluminum siding, hardware, and sealants.

Standards undergo constant review and are updated to reflect technical advances in the industry.

Keywords aluminum; windows; doors; siding; building;

AMERICAN ASSOCIATION FOR CLINICAL CHEMISTRY

Ronald E. Whorton, M.P.H., Executive Vice President

2029 K Street, NW
Washington, DC 20006
(202) 857-0717

Founded: 1948

Type of Organization Scientific/Professional Society
Works through other organizations to develop standards

Scope A nonprofit organization of professional chemists who specialize in clinical chemistry.

Standardization Activities The Standards Committee carries out background development of standard methodology and materials, and collaborates closely with the International Federation of Clinical Chemistry and the National Committee on Clinical Laboratory Standards, particularly in programs on nomenclature, proteins, and enzymes. Maintains close alliance with the clinical laboratory programs of the U.S. National Institute of Standards and Technology in developing specifications for new standard reference materials, and with the Center for Disease Control and the Food and Drug Administration in evaluating methods and performance in the field. Methods and recommendations are published in the journal, Clinical Chemistry, or in the book series, Standard Methods in Clinical Chemistry.

Formerly The American Association of Clinical Chemists (1975)

Keywords clinical chemistry; laboratory testing;

AMERICAN ASSOCIATION FOR LABORATORY ACCREDITATION

John W. Locke, President

656 Quince Orchard Road, Suite 704
Gaithersburg, Maryland 20878-1409
(301) 670-1377 FAX: (301) 869-1495

Founded: 1978

Type of Organization

Scientific Organization
Standards Developer

Standards Developments

260 active members
190 accreditation actions in 34 states, Guam and Canada
11 fields of testing

Certification

Accredits laboratories on a voluntary basis.
Accreditation is renewed on a two year interval with
annual review documentation.

Scope

Accreditation for testing laboratories and/or
inspection agencies on the basis of technical
competence. Membership available to individuals,
educational, scientific, engineering or technical
society, governmental, corporations or trade
associations. Fields of testing include acoustical,
biological, chemical, construction materials,
electrical, environmental, geotechnical, mechanical,
metrology, nondestructive, and thermal. Special
programs include asbestos, automotive, coal, metals,
metal fasteners, paint, radon, thermal (insulation
materials), thermal (wood heaters), and windows and
doors.

Standardization Activities

Employs ISO Guide 25 for general criteria. Specific
criteria for each field of testing are developed with
the use of national standards. Participates in U.S.
delegation to the International Laboratory
Accreditation Conferences.

Keywords

testing; accreditation; laboratory;

AMERICAN ASSOCIATION FOR RESPIRATORY CARE

Sam P. Giordano, Executive Director

11030 Ables Lane
Dallas, Texas 75229
(214) 243-2272

Founded: 1947

Type of Organization	Professional Society Standards Developer
Standards Development	Develops standards concerning administrative, clinical, and technical aspects of respiratory care. Standards available for review.
Standards Designation	AARC prefix
Scope	The sole developer of clinical standards for respiratory care practices. Cooperates to develop administrative standards with such organizations as the Joint Commission of Accreditation of Hospitals. Develops technical standards in cooperation with the American National Standards Institute (ANSI), the Association for the Advancement of Medical Instrumentation (AAMI), and the National Fire Protection Association (NFPA). Also develops clinical standards in cooperation with appropriate regulatory agencies and sponsoring organizations.
Standardization Activities	Maintains a Standards Committee which responds to requests for standard development from various groups. The Standards Committee also reviews existing data and develops documents without outside requests for such activity. Standards developed in cooperation with other organizations and approved by AARC directors are officially endorsed and published. All standards developed are reviewed every five years. Amends documents prior to mandatory review period if significant changes have occurred to warrant such amendments.
Availability	Distributed directly
Formerly	American Association for Respiratory Therapy
Keywords	respiratory care; respiratory therapy; clinical practice; health care;

AMERICAN ASSOCIATION OF ADVERTISING AGENCIES

John E. O'Toole, President

666 Third Avenue
New York, NY 10017
(212) 682-2500

Founded: 1948

Type of Organization	Trade Association Standards Developer
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Standards Development	Standards developer since 1948 5 active standards
Scope	Fosters, strengthens and improves the advertising agency business; advances the cause of advertising; and aids member agencies to operate more efficiently and profitably.
Standardization Activities	Cooperates with other industry organizations to develop standards for the graphic arts industry dealing with magazine publication. They are Recommended Standard Specifications for Advertising Reproduction Material in Magazine Letterpress Wet Printing; Standard Color Control Bars, approved by the American Photoengravers Association; and AAAA/MPA Standard 4-Color Process Proofing Inks, issued by the National Association of Printing Ink Makers; Production Operating Communication Standards for Magazine Paper Mills, Printers and Publishers; and Recommended Standards Specifications for advertising Production Material for Magazine Web Offset Printing issued by AAAA/MPA/American Business Press (ABP). These standard have the common purpose of improving the reproduction of advertisements in magazines.
Availability	Distributed directly
Keywords	magazines; publishing; advertising; communications; printing;

AMERICAN ASSOCIATION OF BIOANALYSTS

	David Birenbaum, Administrator 818 Olive, Suite 918 St. Louis, Missouri 63101 (314) 241-1445 Founded: 1954
Type of Organization	Professional Society Standards Developer
Certification	Active in certification of bioanalyst laboratory directors, managers, and supervisors as a sponsoring organization of the American Board of Bioanalysis.
Scope	Professional organization of scientists and bioanalyst laboratory directors which devotes its efforts to clinical laboratory procedure and testing.

Standardization Activities	Maintains a national program of external quality control known as The Proficiency Testing Service, a program in which independent laboratories, hospitals, and physician office laboratories must participate as a condition for Medicare and CLIA approval. In the Proficiency Testing Service, AAB is involved in developing, handling, and shipping various materials, and is required to examine such materials for stability. Included also are control and standards for use in clinical laboratory disciplines. AAB's program is under the guidance of the Board of Scientific Advisers.
Formerly	Merger of National Association of Clinical Laboratories and American Bioanalysts Association.
Keywords	bioanalysis; clinical laboratory; testing; public health;

AMERICAN ASSOCIATION OF BLOOD BANKS

Johann Hoffman, Executive Director

1117 North 19th Street, Suite 600
Arlington, Virginia 22209
(703) 528-8200 FAX: (703) 527-8036

Founded: 1947

Type of Organization	Professional Society Standards Developer
Standards Development	Standards developer since 1958 600 members participating in standards activities 279 active standards None processed through ANSI
Standards Designation	AABB prefix
Government Adoption	Department of Health and Human Services, Food and Drug Administration has adopted AABB Standards in the CFR Title 21. The Department of Defense has adopted AABB Standards and stocks them in their hospital and blood collecting facilities. Several state health departments have adopted AABB Standards as basis for regulation.
Certification	Inspection and Accreditation Program which, through inspecting and accrediting facilities, strives to improve the quality and safety of transfusions, and assists the medical director of a blood bank or transfusion service in determining whether methods,

procedures, and personnel meet established AABB standards. Several states accept AABB inspections as equivalent to their state inspections for licensing requirements.

Scope	A professional, nonprofit scientific and administrative association for those individuals and institutions engaged in the many facets of blood banking. Membership includes physicians, scientists, medical technologists, administrators, and blood bankers. Serves as the focus for the advancement of the professional practice of blood procurement, transfusion therapy, and related fields.
Standardization Activities	Maintains Committee on Standards which develops and publishes standards of minimal acceptance practice applicable to relevant aspects of blood banking; maintains liaison with other organizations including CAP; Health Care Finance Administration (HCFA), and the Food and Drug Administration (FDA); reviews and approves methods which deviate from standards, and reviews the applications of those institutions requesting such approval; and reviews histocompatibility studies for inclusion in standards.
Availability	Distributed directly and through the DoD Military Blood Catalogue
Keywords	blood banks; transfusion; public health;

AMERICAN ASSOCIATION OF CEREAL CHEMISTS

Raymond J. Tarleton, Executive Vice President

3340 Pilot Knob Road
St. Paul, Minnesota 55121
(612) 454-7250

Founded: 1915

Type of Organization	Scientific Society Standards Developer
Standards Development	Standards developer since 1924 250 members active in standards development 32 technical committees assist in standards work 350 standard methods and procedures
Standards Designations	AACC Approved Methods 00-00
Government Adoption	Largely used by the Federal Grain Inspection Service of the USDA and FDA in the area of cereals.

Certification	Provides certification program for "Sanitation Analyst." Specialized area for quantitative and qualitative analysis of food products for possible contamination by insects, rodents, or other foreign matter of animal origin.
Scope	An international society which develops and standardizes analytical methods used in the milling and baking industries. Expanded in latter years to cover entire cereal processing industry and to advance and encourage research on all cereal grains and related materials. Methodology is related to all needs of the cereal scientist, from sampling, inorganic and organic ingredients, and microbiology, to chemical residues, additives, and sanitation.
Standardization Activities	Develops methodology rather than standards per se. Cooperates with the Association of Official Analytical Chemists, American Oil Chemists Society and ASTM. Subjects include analytical methods and apparatus for flours and dough, flour specifications, and sanitation methods.
Availability	Sold directly or through bookstores
Keywords	cereals; cereal chemistry; grain; grain storage; nutrition; food; agriculture; sanitation;

AMERICAN ASSOCIATION OF MOTOR VEHICLE ADMINISTRATORS

John Strandquist, CAE, Executive Director

4200 Wilson Boulevard
Suite 600
Arlington, VA 22203
(703) 522-4200

Founded: 1933

Program Staff: 5

Type of Organization	Voluntary Nonprofit Association of State and Provincial Officials Works through other organizations to develop standards
Representation	Members and staff representatives active in standards setting committees of SAE, ANSI, ASTM, Canadian Standards Association, National Highway Traffic Safety Administration (NHTSA), CPSC, Economic Commission for Europe (ECE), and Federal Highway Administration (FHWA).

Scope	An organization responsible for the administration and enforcement of motor vehicle and traffic laws in the United States and Canada. Provides the principal forum where state and provincial officials exchange information on developments in the industry and maintain liaison between industry and federal government.
Standardization Activities	<p>Activities are directed toward promoting uniform laws and regulations for motor vehicle administration, traffic law enforcement, highway safety, and the standardization and uniform enforcement of these laws. Principal functions are in the areas of: model program development in disciplines relating to motor vehicle administration, police traffic services, and highway safety; an information clearinghouse; and the industry spokesman.</p> <p>Services include advice and counsel in various facets of driver services, vehicle services, safety equipment services, commercial motor carrier activities, including interstate and provincial reciprocity, and program planning and systems development.</p> <p>With the dissolution of the Vehicle Equipment Safety Commission, AAMVA serves as the repository for the series of standard performance requirements and test procedures for motor vehicles and equipment developed by the commission.</p>
Keywords	motor vehicle; automobile; safety; traffic laws; transportation; government officials;

AMERICAN ASSOCIATION OF NEUROLOGICAL SURGEONS

see JOINT COMMITTEE ON DEVICES AND DRUGS

AMERICAN ASSOCIATION OF NURSERYMEN

Lawrence E. Scovotto, Executive Vice President

1250 Eye Street, NW
Washington, DC 20005
(202) 789-2900

Founded: 1876

Type of Organization	Trade Association Standards Developer
Standards Designation	American Standards for Nursery Stock ANSI-Z60.1 - 1989

Scope	Enables nurserymen to work on those projects and activities which foster the general welfare of the industry and their customers.
Standardization Activities	Develops grades and standards for the use of nurserymen, landscape architects, landscape contractors, governmental agencies, and others preparing lists and specifications for trading in trees, shrubs, roses, vines, fruit trees, small fruit, bulbs, tubers, and forest tree seedlings through its Horticulture Standards Committee. Standards contain height, caliper, root size, root ball, container size and various other standardized means of describing nursery plants.
Availability	Distributed directly and through ANSI
Keywords	horticulture; nursery plants; agriculture;

AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS

Fred A. Dix, Jr., Executive Director

1444 South Boulder
Tulsa, Oklahoma 74119
(918) 584-2555

Founded: 1917

Type of Organization	Professional Society Standards Developer
Government Adoption	Code of Stratigraphic Nomenclature has been adopted by the American Commission of Stratigraphic Nomenclature.
Scope	A professional society of geologists engaged in the exploration for hydrocarbons research and teaching.
Standardization Activities	Maintains two committees active in standardization activities. The Stratigraphic Correlations Committee publishes a Code of Stratigraphic Nomenclature. The Committee on Statistics of Drilling works with the American Petroleum Institute and various government agencies to develop a standardized form for recording data on oil and gas drilling. Cooperates with other organizations to develop standard definitions for the petroleum industry.
Availability	Distributed directly
Formerly	Southwest Association of Petroleum Geologists (1917)

Keywords petroleum; geology; energy; data processing;

AMERICAN ASSOCIATION OF POISON CONTROL CENTERS

Dr William O. Robertson, President

Seattle Poison Center
Children's Hospital and Medical Center
4800 Sand Point Way, NE
Seattle, Washington 98105
(206) 526-2121

Founded: 1957

Type of Organization Trade Association
Standards Developer

Scope Promotes and encourages the development of improved methods for the prevention and treatment of acute poisoning, and furthers the exchange of information about such activities among its members.

Standardization Activities Maintains a Committee on Public Educational Activities which develops material that will be of value to poison control and information centers in educating the lay public about the hazards of, and the prevention of, acute poisoning in and about the home.

A Committee on Personnel Proficiency develops aids for the training of professional personnel in the prevention of acute poisoning. The Committee is responsible for preparing and administering a certification examination for poison information specialists.

A committee on Regional Poison Control Center Certification prepares standard recommended practices for poison control and poison information centers. These have been accepted as standard recommended practices for the establishment and operation of properly qualified centers.

Availability Distributed directly

Keywords poison control; education; medical certification;

AMERICAN ASSOCIATION OF PSYCHIATRIC SERVICES FOR CHILDREN

Sydney Koret, Ph.D., Executive Director

1200-C Scottsville Road, Suite 225
Rochester, New York 14624
(716) 235-6910

Founded: 1948

**Type of
Organization**

Professional Society
Standards Developer

Certification

AAPSC provides accreditation to organizations providing children's mental health service.

Scope

Membership consists of 160 child psychiatric services that foster prevention of mental and emotional disorders and further the development and application of clinical knowledge dealing with child mental health as well as individual practitioners (child psychiatrists, psychologists, social workers, nurses, etc.)

**Standardization
Activities**

Provides leadership in defining and maintaining standards of clinical practice, organization of treatment, and specialized training. To be eligible for accreditation, a child psychiatric facility must provide proof of its continuity of service, together with background of its key staff members. The AAPSC Division of Accreditation reviews treatment approaches, staff competence and quality, quality care and physical plant in a site visit, conducted by trained visitors. The Division, consisting of mental health disciplines, reviews and determines eligibility for accreditation.

Keywords

mental health; psychiatric services; children; health care;

AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS

Francis B. Francois, Executive Director

444 North Capitol Street, NW
Suite 225
Washington, DC 20001
(202) 624-5800

Founded: 1914

**Type of
Organization**

State Government Association
Standards Developer

Standards Designations	Materials Specifications: M-XXX Test Methods: T-XXX Recommended Practices: R-XXX
Government Adoption	The Federal Highway Administration has adopted AASHTO standards by reference in the Code of Federal Regulations.
Certification	Operates an accreditation program for state highway and transportation officials. The AASHTO Materials Reference Laboratory (AMRL), established at the National Institute of Standards and Technology, promotes uniformity in the testing of construction materials by public or private sector laboratories serving the construction field.
Scope	Fosters development, operation, and maintenance of a nation-wide integrated transportation system and cooperates with other appropriate agencies in considering matters of mutual interest in serving the public need.
Standardization Activities	<p>Publishes The Standard Specifications for Transportation Materials and Methods of Sampling and Testing, containing 176 specifications and 9 recommended practices. Maintains a Subcommittee on Material which has members representing each of the 50 States, the Commonwealths of Puerto Rico and the Northern Mariana Islands, the District of Columbia, the United States Department of Transportation, the New Jersey Turnpike Authority, 6 Canadian Provinces and 2 territories.</p> <p>Publishes Interim Specifications which have the same status as standards of the American Association of State Highway and Transportation Officials, but are tentative revisions to be approved by the Subcommittee prior to issuance as standards of the Association.</p> <p>Also publishes: Standard Specifications for Highway Bridges; A Policy on Geometric Design of Rural Highways; and A Policy on Design of Urban Highways and Arterial Streets.</p>
Availability	Sold directly and through IHS
Formerly	American Association of State Highway Officials (1973)
Keywords	transportation; highways; construction materials; government officials;

AMERICAN ASSOCIATION OF TEXTILE CHEMISTS AND COLORISTS

William R. Martin, Executive Director

P.O. Box 12215
Research Triangle Park, North Carolina 27709
(919) 549-8141

Founded: 1921

Standards Staff: 2

Type of Organization

Technical Society
Standards Developer

Standards Development

Standards Developer since 1921
1100 members participating in standards activities
138 active standards
Most AATCC Test Methods become American National
Standards through ANSI
Drafts of proposed or revised test methods available
for review

Standards Designation

AATCC prefix

Government Adoption

Various government agencies have either adopted or
adapted a number of AATCC test methods.

Certification

No certification, qualification, or accreditation
programs

Secretariats

ISO/TC 38/SC1, Colour fastness and Colour measurement
ISO/TC 38/SC2, Laundering, Drycleaning and Finishing
USA TAG for ISO/TC 38-Textiles

Scope

Promotes increased knowledge of the application of dyes
and chemicals in the textile industry; encourages, in a
practical way, research on chemical processes and
materials of importance to the textile industry; and
promotes the exchange of professional knowledge.

Membership includes many leading textile chemists and
colorists in nearly every state and 50 countries. Some
300 companies support the association as corporate
members.

Standardization Activities

Internationally recognized for its standard methods of
testing dyed and chemically treated fibers and fabrics
to measure such performance characteristics as
colorfastness to light and washing, crease resistance,
shrinkage, wash-and-wear, water resistance,
flammability, and other conditions to which textiles
may be subjected. Assures textile quality and
performance by controlled AATCC test methods.

Maintains cooperative relationships with other associations and agencies of the federal government. Participates in the International Organization for Standardization (ISO) in an effort to bring about worldwide uniformity in testing procedures.

Publishes Textile Chemist and Colorist, issued monthly, and an annual Technical Manual containing the association's test methods. Collaborates with the British Society of Dyers and Colourists on numerous projects.

Availability Distributed directly and through IHS and Global

Keywords textiles; chemistry; dyes; finished; colorfastness; flammability; laboratory testing;

AMERICAN AUTOMOBILE ASSOCIATION

J.B. Creal, President
100 AAA Drive
Heathrow, Florida 32746-5064
(407) 444-8000 Telex: 89-9485

Founded: 1902

Type of Organization Trade Association
Works through other organizations to develop standards

Scope Federation of 154 motor clubs serving more than 30.5 million members throughout the United States and Canada. A nonprofit, tax paying organization, which provides auto and travel related services to its members, and works on behalf of the best interests of the motoring and traveling public to promote safer and more enjoyable travel.

Standardization Activities Participates in the development of proposed standards of various types relating to increasing the safety and convenience of pedestrians in traffic. Develops detailed methods and various proposed standards for training new drivers. Represented on committees of the Transportation Research Board, National Safety Council, and National Committee on Uniform Traffic Laws and Ordinances whose major purpose is to develop standards which pertain to highway and traffic safety.

Cooperates with other organizations to develop standards for the operation of school safety patrols and adult crossing guards, and in standards activities in the fields of traffic law enforcement, traffic training procedures, and automotive engineering.

Keywords motor vehicle; transportation; traffic laws; highway safety;

AMERICAN BANKERS ASSOCIATION

Cynthia L. Fuller, Administrator, Standards Department

1120 Connecticut Avenue, NW
Washington, DC 20036
(202) 663-5284

Founded: 1875

Type of Organization

Trade Association
Standards Developer

Standards Development

23 active standards
All processed through ANSI

Standards Designation

ANSI X9.x

Secretariats

Accredited Standards Committee, X9, Financial Services Administrator, U.S. Technical Advisory Group ISO/TC 68, Banking and Related Services

Scope

A national trade and professional association for 13,000 commercial banks. Enhances the ability of America's banks and bankers to serve the needs and desires of the American public.

Standardization Activities

X9 develops standards in the area of financial services operations, including electronic retail financial transactions, checks and paper documents, credit, securities, and data security and bank-to-bank EDI. Also acts as the USA, Technical Advisory Group to TC68 in international standards development for the financial services industry. Published standards include: Magnetic Stripe Data Content for Track 3 - X9.1; Interchange Message Specifications for Debit and Credit Card Message Exchange Among Financial Institutions - X9.2; Specifications for Check Endorsements - X9.3; Financial Institution Numbering System (FINS) - X9.5; Securities Identification System (CUSIP) - X9.6; Bank Check Standard Background and Numerical Convenience amount Field X9.7; Personal Identification Number (PIN) Management and Security - X9.8; Financial Institution Message Authentication (Wholesale)- X9.9; Specifications for Fully Registered Municipal Bonds - X9.12; Specifications for Placement and Location of MICR Printing - X9.13; Specifications for Securities Transaction Interchange Forms - X9.14; Securities -- Standard Format for Message Types -

X9.16; Paper Specifications for Checks - X9.18; Financial Institution Key Management (Wholesale) - X9.17; Financial Institution Retail Message Authentication - X9.19; Securities -- International Delivery System - X9.20; Vocabulary and Data Elements for Wholesale Fund Transfers and Related Services - X9.21; Specifications for Standard Telex Formats for Wholesale Financial Services Messages - X9.22; Encryption of Wholesale Financial Messages - X9.23; Tender Option (PUT) Letter of Transmittal - X9.25; Print Specifications for Magnetic Ink Character Recognition - X9.27; Guideline for the Identification of Dividend and Interest Payments - X9/TG-1.

Availability Distributed directly and through ANSI

Keywords banking; financial services; finance;

AMERICAN BOAT AND YACHT COUNCIL

Lysle B. Gray, Executive Director

405 Headquarters Drive, Suite 3
P.O. Box 747
Millersville, Maryland 21108
(301) 923-3932

Founded: 1954

Standards Staff: 5

Type of Organization Technical Society
Standards Developer

Standards Development 70 standards currently active
20 project technical committees
220 committee members are active in standards development

Standards Designation ABYC prefix

Government Adoption U.S. Coast Guard References ABYC standards

Scope An independent, nonprofit, membership organization representative of recreational boating including members from industry, insurance, government, and the boating public. Membership consists of 1800 individuals, corporations and associations.

Standardization Activities Develops safety standards and recommended practices for the design, construction, equipage, and maintenance of boats and their related accessories. Standards are generated by project technical committees and reviewed

by the ABYC Technical Board and Board of Directors prior to publication. Standards provide a basis for certification programs of other organizations and are used as source material by the U.S. Coast Guard in their development of safety regulations under the Boating Safety Act of 1971.

Individual members work voluntarily through committees and boards to implement the boating safety standards program. In addition, liaison is maintained with other organizations by means of memberships on NFPA 302, Subcommittee on Motor Craft; SAE Marine Technical Committee; UL Marine Engineering Council; National Safe Boating Council; National Boating Safety Advisory Council; Rules of the Road Advisory Council; ASTM F-15.10, Gasoline Containers for Consumer Use; and ISO/TC 188 Small Craft.

Availability Distributed directly

Keywords boats; boating safety; transportation; recreation;

AMERICAN BOILER MANUFACTURERS ASSOCIATION

Russell N. Mosher, Executive Director

950 North Glebe Road, Suite 160
Arlington, Virginia 22209
(703) 522-7350 FAX: (703) 522-2665

Founded: 1888

Type of Organization Trade Association

Scope Manufacturer of boilers and allied equipment; compiles statistics and conducts training programs.

Standardization Activities Maintains a Technical Committee. Publishes a lexicon industry terminology, coal analysis, water quality, steam quality and accessory product definitions.

Availability Distributed directly

Formerly American Boiler Manufacturers Association and Affiliated Industries (1960)

Keywords boilers; heating; industrial equipment; steam generators;

AMERICAN BOWLING CONGRESS/WOMEN'S INTERNATIONAL BOWLING CONGRESS

Dan Speranza, Manager

Equipment Specification Department
5301 South 76th Street
Greendale, Wisconsin 53129
(414) 421-6400

Founded: 1895

Standards Staff: 7

**Type of
Organization**

Trade Association
Standards Developer

Certification

All bowling lanes under the jurisdiction of the ABC/WIBC are certified annually by representative of local bowling associations chartered by ABC/WIBC. Lanes are measured and checked to assure that physical properties and dimensions correspond to ABC/WIBC specifications. When found to meet all specifications, and ABC/WIBC decal is issued for posting in the establishment.

Scope

A nonprofit, noncommercial, membership service organization for male bowlers (ABC) and female bowlers (WIBC). Sponsors competitions; provides standard rules and tests. Approves material and equipment.

**Standardization
Activities**

Instrumental in developing specifications for playing equipment worldwide. Maintains an equipment testing and research department that works with new products brought to it for consideration, and also maintains a constant check on products already in use. Publishes equipment specifications annually in ABC constitution, Rules and Specifications. Standards developed for lanes, bowling balls, pins, pinsetting machines, automatic scorers, and foul detectors; Equipment specifications are printed annually in the ABC Constitution, Rules and Specifications book.

Availability

Distributed directly

Formerly

Absorbed the United states Seniors Bowling Association (1964)

Keywords

bowling; recreation;

AMERICAN BRUSH MANUFACTURERS ASSOCIATION

Taylor Fernley, Managing Director

1900 Arch Street
Philadelphia, Pennsylvania 19103
(215) 564-3484

Founded: 1918

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Designation**

ANSI B165.1 and B165.2

Scope

The national trade association representing manufacturers of brushes, brooms, and mops, together with suppliers of parts, materials, machinery, and services. ABMA maintains several divisions organized by type of product including paint applicator, personal, household maintenance, broom and mop, and industrial.

**Standardization
Activities**

All current standard activities are conducted by the Safety and Standards Committee of the Industrial Division which works closely with ANSI. The main thrust of two standards developed to date is concern with safe operation of power driven rotary wheel-type brushes. ANSI B165.1 (1979) defines safety requirements for the design, care and use of power driven brushing tools; and ANSI B165.2 (1982) covers safety requirements with wood, plastic, or composition hubs and cores.

Availability

Directly from ANSI

Keywords

brushes; industrial equipment; safety;

AMERICAN BUREAU OF SHIPPING

Richard T. Soper, Chairman and President

45 Eisenhower Drive
P.O. Box 910
Paramus, New Jersey 07653-0910
(201) 368-9100
Telex: ITT 421966/428285
FAX: (201) 368-0255

Founded: 1862

**Type of
Organization**

Technical Society
Standards Developer

**Standards
Development**

Established and administers standards called "Rules" for the design, construction, and periodic survey of merchant ships and other marine structures; publishes 15 volumes of Rules and 23 guides; and publishes the Record, a registry of merchant vessels.

**Standards
Designation**

ABS prefix

**Government
Adoption**

Over 100 governments recognize ABS to act on their behalf by conducting surveys and issuing certificates relating to various international maritime conventions. ABS is authorized by USCG to act on their behalf in reviewing plans and inspecting U.S. flag vessels which are certified by the USCG. USCG also recognizes ABS to perform admeasurement of vessels and issue tonnage certificates on their behalf. Under the Merchant Marine Act of 1920, ABS is recognized as a U.S. government agency for classification of merchant vessels it may own.

Certification

ABS has separate volumes of Rules and Requirement for the Certification of Cargo Containers and for Cargo Gear. Also classification involves various certifications to provide assurance that the ABS Rules are met such as those of design plans, machinery components, welders, etc. ABS also provides certification services according to other recognized standards or client-specified standards.

Scope

An international ship classification society and nonprofit corporation. Objectives include: preparation of standards, known as "rules" and "guides", for the construction of hulls and machinery of ships and other marine structures, including material specifications and regulations for periodic surveys. Standards published annually and modified to keep pace with developments in shipbuilding and marine engineering; analysis of plans of vessels projected to be built, reconversions of existing vessels, to verify that they meet the standards set by the rules; verification of the building to approved plans of the new hull and its main machinery, boilers and vital auxiliaries, and the construction for hull and machinery as required by the rules; carrying out periodic and damage surveys as called for by the rules; annual publication of the Record of the American Bureau of Shipping which contains essential details of hull and machinery and survey status of bureau-classed vessels; issuance of certificates of character for bureau-classed vessels, i.e., classification certificates, seaworthy certificates, confirmation of class certificates, etc.

Standardization Activities	Promulgates and annually updates its Rules through committees composed of individuals internationally eminent in their marine field.
Availability	Standards distributed directly through all offices of ABS.
Formerly	American Shipmaster's Association (1862-1898)
Keywords	merchant ships; vessels; marine engineering; transportation; containers; safety;

AMERICAN BUS ASSOCIATION

George T. Snyder, Jr., Executive Vice President and CEO
 1015 15th Street NW #250
 Washington, DC 20005
 (202) 842-1645

Founded: 1926

Type of Organization	Trade Association Works through other organizations to develop standards
Representation	ANSI, Department of Transportation, Interstate Commerce Commission
Scope	A national trade association for the intercity motor bus industry with membership of more than 500 bus operating companies, plus state and regional bus associations, bus manufacturers, suppliers, and travel and tourism entities interested in bus transportation and tourism.
Standardization Activities	<p>Concerned with the development of standards and requirements in matters affecting motor carrier and motor vehicle safety and occupational safety and health. Included are operation, maintenance, and inspection of vehicles, safety-related parts and accessories such as brakes, tires, lights, windows, seats, etc.; control of noise and pollutant emissions; and accident reporting. Cooperates with the U.S. Department of Transportation, and participates in the work of voluntary groups, such as those sponsored by the American National Standards Institute. Works with federal and state legislative groups in connection with standardization of vehicle sizes and weights.</p> <p>Also works with the Interstate Commerce Commission and other interested government agencies, and industry groups in connection with standards and requirements relative to such matters as accounting, reporting of</p>

financial and operating data, certification of operating authorities, and vehicle registration.

Association committees and staff representatives are primarily responsible for its standardization activities. Included are committees on Safety, Maintenance, Ethics, and Inspection.

Formerly Motor Bus Division of American Automobile Association
National Motor Bus Division of American Automobile Association
National Association of Motor Bus Operators (1960)

Keywords bus transportation; transportation; vehicles;
motorcoach tours; charters;

AMERICAN CHAIN ASSOCIATION

Raymond J. Lloyd, Executive Secretary

932 Hungerford Drive, Suite 36
Rockville, Maryland 20850
(301) 738-2448

Founded: 1981

Type of Organization Trade Association
Works through other organizations to develop standards

Representation 7 members active in ACA standardization serving on ASME, ANSI, and ISO standards committees

Scope Manufacturers of sprocket-driven chain and sprockets for power transmission and the conveyance of materials.

Standardization Activities Active in standardization of dimensions, of roller, silent, engineering steel and malleable iron chains, sprockets and wheels for the purpose of securing interchangeability, and also in standard recommendations for power capacity and speed for these chains. Does not publish standards, preferring to sponsor standards for adoption through the procedures of the American National Standards Institute (ANSI). Cooperates with the American Society of Mechanical Engineers, Society of Automotive Engineers, American Petroleum Institute, Conveyor Equipment Manufacturers Association, and the American Gear Manufacturers Association in standardization matters of mutual interest. ANSI standards covering chain include B29.1 through B29.25M. Participates in the work of Technical Committee 100 of the International Organization for Standardization.

Formerly Association of Roller and silent Chain Manufacturers
and Malleable Chain Manufacturers Institute
American Chain Sprocket Chain Manufacturers Association

Keywords chain; sprockets; power transmission; machinery;

AMERICAN CHEMICAL SOCIETY

COMMITTEE ON ANALYTICAL REAGENTS
Clarence Lowery, Chairman

c/o Books Department
American Chemical Society
1155 Sixteenth Street NW
Washington, DC 20036
(202) 872-4600

Founded: 1876

**Type of
Organization**

Scientific Society
Standards Developer

**Standards
Development**

63 existing standards for reagents; 15-30 under
development or revision
None processed through ANSI

**Standards
Designation**

ACS prefix

Scope

Sets standards by which manufacturers can classify
their reagent for sale as ACS Grade. Those reagents
labelled as such are known to purchasers to be of a
certain purity and to meet certain maximum and minimum
requirements.

**Standardization
Activities**

Develops and publishes standards for reagent chemicals
that have utility in analytical chemistry work.
Revises existing standards with new and improved
methods. Considers new standards for additional useful
reagents. Standards and revisions are available for
review by nonmembers. Publishes specifications in a
volume titled "Reagent Chemicals" at approximately
five-year intervals.

Availability

Distributed directly

Formerly

Committee on the Purity of Chemical Reagents (1903-27)

Keywords

chemicals; reagents; analysis; testing; materials;

AMERICAN COLLEGE OF SURGEONS

Paul A. Ebert, MD, Director

55 East Erie Street
Chicago, Illinois 60611

Founded: 1913

**Type of
Organization**

Professional Society
Standards Developer

**Standards
Development**

The national organization responsible for the standardization and approval of hospital cancer programs in the United States.

Scope

An association of 50,000 surgeons organized for the primary purpose of improving the quality of care for the surgical patient by elevating the standards of surgical education and practice.

**Standardization
Activities**

Cooperates with other recognized national medical organizations in the accreditation of hospitals and in the approval of graduate training programs in general surgery and the surgical specialties. Active in the establishment of medical instrumentation standards, and its representative serve on committees of ANSI, ASTM, and AAMI.

Availability

Distributed directly

Keywords

medical care; surgery; medical training; cancer;
medical treatments;

AMERICAN CONCRETE INSTITUTE

Samuel J. Henry, Director of Engineering

22400 West Seven Mile Road
Detroit, Michigan 48219
(313) 532-2600

Telex: 810 2211454
FAX: (313) 538-0655
Standards Staff: 4

Founded: 1905

**Type of
Organization**

Technical Society
Standards Developer

**Standards
Development**

Standards Developer since 1906; 30 active standards, including 3 metric plus 130 committee reports; 2300 members participate in standards activities; most standards processed through ANSI; draft standards available for review.

Standards Designation	ACI prefix
Government Adoption	The Department of Defense has adopted a number of ACI standards.
Certification	<p>ACI administers the following certification programs: Concrete Field Testing Technician, Grade I; Concrete Laboratory Testing Technician, Grades I and II; Concrete Construction Inspector-in-Training; Concrete Construction Inspector, Level II.</p> <p>ACI accredits equivalent certification programs administered by other organizations.</p>
Scope	Devotes its effort to the solution of technical problems related to the design, construction, and maintenance of concrete and reinforced concrete structures and to the dissemination of information in this field.
Standardization Activities	<p>One hundred nine technical committees study specialized problems through the evaluation of published information, research reports, and majority opinion based on field practices leading to the development of committee reports. Many committee reports evolve into standards after technical review and discussion by the membership and letter ballot of the members.</p> <p>Standards are confined to codes, specifications, and standards practices related to structures as a whole. Basic materials and "over-the-counter" components are deliberately excluded from the scope of its standardization procedures.</p>
Availability	Distributed directly and through Global and IHS
Formerly	National Association of Cement Users (1913)
Keywords	concrete; reinforced concrete; prestressed concrete; structural design; construction;

AMERICAN CONCRETE PAVEMENT ASSOCIATION

M.J. Knutson, P.E., President

3800 North Wilke Road
Suite 490
Arlington Heights, Illinois 60004
(312) 394-5577

Founded. 1964

Type of Organization	Trade Association Standards Developer
Scope	Represents 400 construction firms, material suppliers and equipment manufacturers on matters affecting the industry's relations with the public and public agencies. Seeks to improve the quality of concrete pavement and create new markets for members.
Standardization Activities	Prepares guide specifications on concrete pavement construction, fast track concrete paving, rehabilitation, resurfacing, and restoration. Cooperates with state, federal and local agencies in reviewing their specifications. Provides upon request recommendations regarding concrete pavement design and construction.
Keywords	concrete; pavement; construction; materials;

AMERICAN CONCRETE PIPE ASSOCIATION

Richard E. Barnes, President

8300 Boone Boulevard
Vienna, Virginia 22182
(703) 821-1990

Founded: 1907

Standards Staff: 2

Type of Organization	Trade Association Works through other organizations to develop standards
Representation	ASTM, AASHTO, AREA
Scope	An international trade association representing the precast concrete pipe industry. Activities include research, technical services, promotion, advertising, education, safety, and the publication of technical and industry information. Members produce concrete pipe, box sections, and related products for storm sewers, sanitary sewers, and culverts; drain tile; irrigation systems; and low-head pressure systems.
Standardization Activities	Not a standards developing organization, but works within the voluntary standards system to coordinate concrete pipe industry standards activities, and acts as the industry voice. Industry related products are covered by national consensus standards developed by ASTM, AASHTO, and AREA. Manufacturing standards cover precast concrete products, such as non-reinforced pipe for sewers, culverts, drain tile, and irrigation; reinforced

circular, arch and elliptical pipe, box sections, and manholes for sewers and culverts; reinforced circular pipe for low-head pressure systems; and perforated pipe. Other manufacturing standards cover joints, jointing materials, and resilient connectors for pipe to structure connections. Proof of design and quality assurance are covered by plant test methods standards. Acceptance of installed products is covered in standards practices for various field tests. Design standards for pipe and box sections cover determination of loads, stresses, and required structural strength.

Keywords sewer; culvert; irrigation; drain tile; construction;

AMERICAN CONCRETE PRESSURE PIPE ASSOCIATION

Richard E. Barnes, President

8320 Old Courthouse Road
Vienna, Virginia 22180
(703) 821-1990

Founded: 1949

Standards Staff: 2

Type of Organization Trade Association
Works through other organizations to develop standards

Representation Primarily ASTM and AWWA

Scope An international trade association representing the concrete pressure pipe industry. Activities include research, technical services promotion, public relations, advertising, education, and liaison with technical societies and government agencies. Its members produce precast concrete pressure pipe for transmission lines in irrigation, industrial and domestic water-supply systems, as well as distribution feeder mains, pressure siphons, sewer force mains, and sewer outfall lines.

Standardization Activities Not a standards developing organization, but works within the voluntary standards system to coordinate concrete pressure pipe industry standards activities, and acts as the industry voice.

Products of the industry are covered by national consensus standards developed by the American Society for Testing and Material (ASTM) and the American Water Works Association (AWWA). Manufacturing standards cover reinforced concrete pressure pipe, reinforced concrete cylinder pipe, pretensioned concrete cylinder pipe, and prestressed concrete cylinder pipe.

Keywords water-supply; sewage; construction;

AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS

William D. Kelley, Executive Secretary

6500 Glenway Avenue
Building D-7
Cincinnati, Ohio 45211
(513) 661-7881

Founded: 1938

Standards Staff: 2

**Type of
Organization**

Professional Society
Standards Developer

**Standards
Development**

Standards developer since 1940s

**Government
Adoption**

Various federal agencies, including OSHA, Department
of Labor

Secretariats

Threshold Limit Values for Chemical Substances
Committee
Threshold Limit Values for Physical Agents Committee

Scope

A national professional association of practicing
industrial hygiene and occupational safety and health
personnel in federal, state, and local agencies and
educational institutions. Assembles guides, recommends
practices, and technical background for the evaluation
and control of the occupational environment.

**Standardization
Activities**

Developed and annually revises the Threshold Limit
Values which are recommended on airborne contaminants
and physical agents in the workplace. Used by
professionals with direct responsibilities for worker
health protection. Publishes the Industrial
Ventilation Manual of Recommended Practices.

Availability

Sold directly

Keywords

industrial hygiene; airborne contaminants; occupational
safety; Threshold Limit Values; industrial ventilation;
public health; government officials;

AMERICAN CONGRESS ON SURVEYING AND MAPPING

John Lisack, Executive Director

5410 Grosvenor Lane
Bethesda, Maryland 20814
(301) 492-0200 FAX: (301) 492-8245

Founded: 1941

Type of Organization	Professional Society Works through other organizations to develop standards
Certification	Hydrographic Surveyor Certification Program since 1984
Scope	A national professional association representing 11,000 members in the fields of surveying and mapping; composed of three member organizations: National Society of Professional Surveyors (NSPS), American Association for Geodetic Surveying (AAGS), and American Cartographic Association (ACA).
Standardization Activities	Cooperates with ASCE, ANMC, International Cartographic Association (ICA), and International Federation of Surveyors (FIG) to promote standards in the fields of land and geodetic surveying and cartography. Developed 1989 Digital Cartographic Data Standards. Works voluntarily through committees.
Keywords	surveying; mapping; cartography; data processing;

AMERICAN COUNCIL OF INDEPENDENT LABORATORIES

Joseph F. O'Neil, Executive Secretary

1725 K Street NW
Washington, DC 20006
(202) 887-5872

Founded: 1937

Type of Organization	Trade Association Works through other organizations to develop standards
Standards	Participates with others developing standard test procedures and laboratory methods.
Secretariat	ANSI Z34 Committee

Scope	A trade association of independent scientific and engineering laboratories whose membership includes many of the leading testing and inspection firms in the United States, Mexico, Central America, Japan, and Canada.
Standardization Activities	<p>Publishes a Manual of Practice entitled Recommended Requirements for Independent Laboratory Qualification, which encompasses a quality control system for personnel and equipment evaluation as well as calibration and standardization in the system.</p> <p>Promotes standards of ethics employed by independent laboratories in special fields of interest and activity including sampling, inspection, physical or nondestructive testing, and chemical analysis of raw, intermediate, and finished materials and products; research and development; the improvement of products or processes; the quality control of composition and performance; and professional consultation in various fields of scientific technology.</p> <p>Does not write standards for products or materials but participates in writing test procedures and methodology in other standards-writing organizations. Cooperates with the National Institute of Standards and Technology, Department of Defense and particularly the Army Corps of Engineers; General Services Administration; Department of Transportation; Department of Labor, Occupational Safety and Health Administration; Department of Health, Education and Welfare; Food and Drug Administration; and the Department of Agriculture.</p>
Availability	Distributed directly
Formerly	American Council of Commercial Laboratories
Keywords	laboratories; laboratory testing;

AMERICAN CRYSTALLOGRAPHIC ASSOCIATION

Marcia J. Vair, Administrative Secretary

P.O. Box 96
 Ellicott Station
 Buffalo, New York 14205-0096
 (716) 856-9600 ext. 321 FAX: (716) 852-4846

Founded: 1949

Type of Organization	Scientific Society Standards Developer
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Scope	Promotes the study of the arrangement of atoms in matter, its causes, its nature, its consequences, and the tools and methods used in such studies.
Standardization Activities	<p>The Apparatus and Standards Committee has promulgated standards for camera tracks and bases and has adopted dimensional specifications for goniometer heads.</p> <p>An ACA appointed representative serves as a liaison to the National Institute of Standards and Technology for the issuance of Crystal Data. This publication provides a complete list of crystalline substances as identifies from unit cell dimensions.</p>
Availability	Distributed directly
Formerly	Merger of the Crystallographic Society of America and the American Society for X-Ray and Electron Diffraction
Keywords	crystals; crystallography; instruments; testing;

AMERICAN DAIRY PRODUCTS INSTITUTE

	Dr. Warren S. Clark, Jr., Executive Director
	130 North Franklin Street Chicago, Illinois 60606 (312) 782-4888 FAX: (312) 782-5299
	Founded: 1923 Standards staff: 2
Type of Organization	Trade Association Standards Developer
Standards Development	Standards developer since 1923 for evaporated milk products, testing, and sanitation, since 1925 for dry milk products, and since 1971 for whey products.
Government Adoption	The U.S. Department of Agriculture has adopted industry-recommended standards for grades of nonfat dry milk, instant nonfat dry milk, dry whole milk and dry buttermilk. Developed common and usual names for whey and whey products that have been accepted by the FDA and were published as a Regulation in the Federal Register of September 4, 1981 (Vol. 46, No. 172, pp. 44434-42).
Certification	No certification, qualification, or accreditation programs.

Scope	A national trade association for the processed dairy products industry. Scope of activity includes evaporated and dry milk products as well as whey and modified whey products, including lactose (milk sugar). Serves and promotes the interests of its members; enhances the acceptance and utilization of processed dairy products, maintains liaison and represents the industry in dealings with governmental agencies and legislative bodies; supports technical and marketing research; and assembles and disseminates statistics and other information.
Standardization Activities	Activities coordinated through Standards/Research Committee. Develops standards in the areas of product definitions/nomenclature; specifications and grade classifications; and sanitation for processed dairy products including evaporated milk, evaporated lowfat milk, evaporated skim milk, and evaporated filled milk; nonfat dry milk, instant nonfat dry milk, dry whole milk and dry buttermilk; whey, reduced lactose whey, reduced minerals whey, whey protein concentrate, and lactose. Accepted by the industry nationally and internationally. Cooperates with the Food and Drug Administration and the U.S. Department of Agriculture. Participates in the Codex Alimentarius program.
Formerly	ADPI is the result of a 1986 merger of the American Dry Milk Institute (1925) and the Whey Products Institute (1971). In 1987, the Evaporated Milk Association (1923) merged with ADPI.
Keywords	milk; milk products; whey; whey products; lactose; food;

AMERICAN DEFENSE PREPAREDNESS ASSOCIATION

	Lawrence F. Skibbie, President
	Two Colonial Place 2101 Wilson Boulevard Arlington, Virginia 22201-3061 (703) 522-1820
	Founded: 1919
Type of Organization	Technical Society Works through other organizations to develop standards
Representation	Primarily DoD and defense-related industry
Scope	Concerned citizens, military personnel, and engineers interested in industrial preparedness for the national defense of the United States.

Standardization Activities	Coordinates standards through programs, papers, symposia proceedings, panels. Works closely with government officials to develop standards, particularly in areas of engineering documentation and quality assurance.
Formerly	Army Ordnance Association (1947) American Ordnance Association (1973)
Keywords	national security; defense;

AMERICAN DENTAL ASSOCIATION

	Sharon Stanford, Standards Coordinator Council on Dental Materials, Instruments and Equipment 211 East Chicago Avenue Chicago, Illinois 60611 (312) 440-2500 Founded: 1859
Type of Organization	Professional Society Standards Developer
Standards Development	Specifications and certification program since 1928 49 active standards - all American National Standards Working projects underway for 85 specifications Draft standards available for comment
Standards Designation	ANSI/ADA prefix
Government Adoption	The Department of Defense has adopted 3 standards.
Certification	Certification program based upon physical standards; acceptance program based upon proof of biological and clinical safety and effectiveness.
Secretariats	U.S. TAG for ISO/TC106 Dentistry Working Group 2, Prosthodontic Materials of ISO/TC106 Accredited Standards Committee MD156 (ASC MD156)
Scope (ASC MD156)	Nomenclature, standards and specifications for dental materials, except those recognized as drugs. Nomenclature, standards and specifications for dental instruments, equipment and accessories used in dental practice, dental technology and oral hygiene which are

offered to the public or profession. Orthodontic, prosthetic, and restorative appliances designed or developed by the dentist for an individual patient are excluded.

Standardization Activities	Council on Dental Materials, Instruments and Equipment acts as administrative secretariat and sponsor Activities of ASC MD 156. The ADA also sponsors participation in ANSI activities of the International Organization for Standardization Technical Committee 106 on Dentistry. The ADA works both nationally and internationally in the formulation of standards for dental materials, instruments and equipment.
Availability	Distributed through ANSI
Formerly	National Dental Association (1897-1922) Absorbed: Southern Dental Association (1897)
Keywords	dentistry; dental materials, instruments and equipment; medical devices; health care;

AMERICAN DESIGN DRAFTING ASSOCIATION

Rachel Howard, Executive Director

5522 Norbeck Road
Suite 391
Rockville, Maryland 20853
(301) 460-6875

Founded: 1948

Type of Organization	Professional Association Works through other organizations to develop standards
Scope	Conducts educational programs relating to management, administration, performance, and instruction of design/drafting; sponsors councils; conducts an annual convention/exposition. Over 2000 members engaged in the manual and/or automated design and drafting fields.
Standardization Activities	Maintains a Standards Committee which reviews ANSI proposed standards relating to the design/drafting fields. Submits comments to ANSI relating to proposed and existing standards. Informs the membership of the release, cost, and availability of new standards.
Keywords	design; drafting; interactive graphics; documentation; configuration management; change control; metric; data processing;

AMERICAN ELECTROENCEPHALOGRAPHIC SOCIETY

Jacquelyn T. Coleman, Executive Director

One Regency Drive
P.O. Box 30
Bloomfield, Connecticut 06002
(203) 243-3977

Type of Organization	Professional Society Standards Developer
Scope	Furtheres the knowledge of electroencephalography and related sciences, and promotes the exchange of scientific and professional information and opinions throughout the world.
Standardization	Works to establish uniform standards, techniques, and procedures; assists in setting up standards for training, examination, and qualification of clinical electroencephalographers and technicians; draws up minimum specifications for apparatus and equipment to maintain high clinical standards.
Availability	Distributed directly
Keywords	medical instruments; electroencephalography; neurology; health care;

AMERICAN ELECTROPLATERS AND SURFACE FINISHERS SOCIETY

J. H. Schumaker, Jr., Executive Director

12644 Research Parkway
Orlando, Florida 32826
(407) 281-6441

Founded: 1909

Type of Organization	Scientific Society Works through other organizations to develop standards
Representation	ASTM, ANSI, ISO
Scope	Promotes all aspects of electroplating and surface finishing.
Standardization Activities	Participates in standards development pertaining to electroplated coatings. Relies on work of American Society for Testing and Materials (ASTM), Committee B-8 on Electrodeposited Metallic Coatings, and endorses the standards prepared by Committee B-8 whose members are members of the American Electroplaters society.

Maintains formal representation on ASTM Committees A-5 on Corrosion of Iron and Steel, D-19 on Industrial Water, and B-7 on the Anodic Oxidation of Aluminum and Magnesium Alloys, as well as American National Standards Institute Committee Z9 on Safety Codes for Exhaust Systems.

Formerly

National Electro-Platers Association of the United States and Canada (1913)
American Electroplaters Society

Keywords

electroplating; metallic coating; materials; surface finishing;

AMERICAN FEED INDUSTRY ASSOCIATION

Oakley M. Ray, President

1701 North Fort Myer Drive
Arlington, Virginia 22209
(703) 524-0810 FAX: (703) 524-1921

Founded: 1909

**Type of
Organization**

Trade Association
Works through other organizations to develop standards

Scope

The national trade association of the animal feed manufacturing industry. Carries out substantial activities in the fields of transportation, animal nutrition, feed production, state and federal legislation and regulations, liquid feed, computers, public relations, state and federal feed control, marketing, purchasing, environmental controls, occupational safety and health, and market research.

**Standardization
Activities**

Cooperates closely with the Association of American Feed Control Officials in developing a model state feed law and model state feed regulations. The objective is to bring as much uniformity as possible into the state feed laws and regulations. Every state but one has legislation which regulates the production and distribution of commercial feed. Also cooperates with the U.S. Food and Drug Administration in its enforcement of the Federal Food, Drug and Cosmetic Act, with OSHA, EPA, USDA and other government agencies.

Keywords

animal feed; feed; agriculture;

AMERICAN FIBER MANUFACTURERS ASSOCIATION, INC.

Paul T. O'Day, President

1150 17th Street NW
Washington, DC 20036
(202) 296-6508

FAX: (202) 296-3052

Founded: 1933

Standards Staff: 1

**Type of
Organization**

Trade Association
Works through other organizations to develop standards

Representation

Fifteen member companies of MMFPA are represented by the Association's Technical Committee on committees and task groups of ASTM, ANSI, ANMC, and NFPA.

Scope

Membership represents 90 percent of the U.S. producers of manmade fibers and yarns. Functions on a national scale to present the industry's position before voluntary standards groups and those government agencies that develop or reference standards applicable to the overall textile industry.

**Standardization
Activities**

Not a standards developing organization. The association represents the industry before standards groups such as ASTM, ANSI, and NFPA concerned with flammability standards for textile products including apparel and home furnishing items, such as carpets, draperies, and upholstered furniture. Cooperates with NIST, including the NIST Research Associate program, to develop meaningful and relevant flammability test procedures, such as the Carpet Flooring Radiant Panel Test Method. Represents the industry before those groups which develop or reference methods and standards for other fiber/textile properties, performance and metrication. Monitors and develops appropriate actions of those government agencies which develop or reference standards impacting the man-made fiber/textile industry.

Keywords

fiber; yarn; textiles; clothing; carpet; draperies;
bedding; fire protection;

AMERICAN FISHING TACKLE MANUFACTURERS ASSOCIATION

Thomas P. Conley, President

1250 Grove Avenue
Suite 300
Barrington, Illinois 60010
(312) 381-9490

Founded: 1933

Standards Staff: 1

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Standards developer since 1933
Draft standards available for review

Scope

Manufacturers and importers of fishing tackle and allied products organized to educate, guide, and assist its members in matters of common interest so that they maintain a high standard of conduct, efficiency, and usefulness to industry, government, and the public.

**Standardization
Activities**

Administers fly line standards which are universally accepted and were prepared in cooperation with the American Casting Association and the International Casting Federation. Supplies each manufacturer with these standards for packaging with their fly lines. Developed standards for rod seats and reel feet for the purpose of improving compatibility between rods and reels.

Availability

Distributed directly

Keywords

fishing tackle; fly line; fishing reels; fishing rods; recreation;

AMERICAN FOUNDRYMEN'S SOCIETY

Thomas D. Jennings, Technical Director

505 State Drive
Des Plaines, Illinois 60016
(708) 824-0181

Founded: 1896

**Type of
Organization**

Technical Society
Standards Developer

**Standards
Development**

Standards developer since 1936
Three active standards developed under ANSI

Certification

No certification, qualification, or accreditation programs

Secretariats

ANSI Z241.x

Scope

An international technical society for the metal casting industry in North America. Develops and disseminates technical information regarding metallurgy, melting, coremaking, molding, sand

practice, and control of both the internal and external environment. Sponsors research concerning all facets of the metal casting process and environment. Through its Cast Metals Institute (CMI), prepares and presents short courses and seminars on various subjects of interest.

Standardization Activities Participates on a number of standards writing committees of both ANSI and ASTM.

Availability Available directly or through ANSI

Formerly American Foundrymen's Association

Keywords casting; foundry; metallurgy; materials;

AMERICAN FURNITURE MANUFACTURERS ASSOCIATION

Joseph Ziolkowski, Technical Director

Post Office Box HP-7
223 Wrenn Street
High Point, North Carolina 27261
(919) 884-5000

Founded: 1984

Type of Organization Trade Association
Works through other organizations to develop standards

Representation ASTM, ANSI, NFPA, UFAC

Scope A voluntary organization of furniture manufacturers dedicated to fostering the growth and development of the furniture industry and improving the effectiveness and efficiency of the furniture manufacturers.

Standardization Activities Develops voluntary guidelines for woven and knit upholstery fabrics through the Joint Industry Upholstered Fabric Committee.

Works with the Upholstered Furniture Action Council (UFAC) to conduct research into more cigarette resistant furniture.

Established a Joint Industry Foam Standards Committee to develop guidelines and standards for the performance and use of urethane foam.

Developed voluntary guidelines for bunk beds through the Joint Industry Bunk Bed Committee which has now been turned over to Committee F-15 in ASTM.

Formerly National Association of Furniture Manufacturers;
Southern Furniture Manufactures Association

Keywords upholstery; textiles; furniture; consumer products;

AMERICAN GALVANIZERS ASSOCIATION

Jerry Gambrell, Technical Director

1101 Connecticut Avenue, NW
Suite 700
Washington, DC. 20036
(800) 468-7732
(202) 857-1119

Founded: 1935

Type of Organization Trade Association
Works through other organizations to develop standards

Representation Active on more than 15 standards committees of ASTM and NACE

Scope Members supply over 60 percent of the galvanizing after fabrication done in North America. Aims to improve the efficiency of the industry, to encourage the application of the latest advances in technology, and to promote the wider use of hot dip galvanized products. Activities include advertising and promotion, technical services and development management advisory services, and marketing.

Standardization Activities Works within the voluntary standards system to coordinate industry standards activities and acts as the industry voice. Areas of involvement include coating standards for hot dip galvanized (zinc-coated) steel products such as: fasteners, castings, forgings, structural shapes, tanks, fencing, piping, grating, reinforcing bars, and structural plate. Represented on American Society for Testing and Materials subcommittees concerned with development and review of specifications for galvanizing and corrosion protection.

Keywords galvanizing; metallic coating; corrosion protection; materials;

AMERICAN GAS ASSOCIATION

Forrest G. Hammaker, Manager, Standards Department
AGA Laboratories
Cleveland, Ohio 44131
(216) 524-4990 Telex: 263574 AGA

1515 Wilson Boulevard
Arlington, Virginia 22209
(703) 841-8400 Telex: (710) 955-9848

Founded: 1918 Standards Staff: 10

Type of Organization

Trade Association
Standards Developer since 1910

Standards Development

325 individuals active in standards development
65 active standards
Processed through ANSI
Draft standards available for review

Standards Designation

ANSI Z21.x
ANSI Z83.x
ANSI Z223.x
ANSI B109.x

Certification

The American Gas Association Laboratories, a Division of A.G.A., maintain testing facilities for gas appliances and accessories in Ohio and California. They function as a nationally recognized third party certification agency. Gas equipment designs submitted voluntarily by manufacturers are tested for compliance with applicable national standard, principally the Z21 and Z83 gas equipment standards. The production of certified equipment is monitored by regular follow up factory inspections. Appliances and accessories which are design certified by the Laboratories carry the certification seal or the listing symbol of the American Gas Association and are included in the A.G.A. Laboratories directory of Certified Appliances and accessories.

Secretariats

Accredited Standards Committee Z21, Performance and Installation of Gas-Burning Appliances and Related Accessories and its 19 technical subcommittees.

Accredited Standards Committee Z83, Industrial Gas Equipment and Utilization and its 5 technical subcommittees

Accredited Standards Committee Z223, National Fuel Gas Code and its 3 advisory panels

Accredited Standards Committee B109, Gas Displacement Metering and its 2 subcommittees

Scope

A national trade association for 250 gas transmission and distribution companies which together account for 85% of gas delivered in the United States to 172 million consumers.

Coordinates gas industry activities concerning standardization, and information related to transmission, distribution, and utilization of gas. Serves as a clearinghouse for gas energy information for the public; as catalyst in technical and energy policy matters for the gas industry; and as spokesman on national issues for member companies. Promotes the gas industry to the best interests of public safety and a continuing supply of economical energy.

Standardization Activities

Works within the voluntary standards system to coordinate Association activities relative to national standards of interest to the gas industry. While not a standards developing organization, the Association actively participates in national standards development, including appointment of Association representation, in the areas of gas utilization equipment and its installation, and gas operating equipment and supplies.

Functions as the Administrative Secretariat to four Committees whose operating procedures are accredited by the American National Standards Institute (ANSI) as demonstrating the principles of due process and consensus. These four committees have 30 technical subgroups; supervise 47 standards covering residential gas appliances and accessories; 13 standards covering commercial and industrial gas equipment; 3 standards on gas displacement meters; and a standard covering the installation of gas piping and appliances, including their venting.

70 members and 24 staff active in standardization activities of 62 standards developing committees of other organizations, including ASTM, ASME, NFPA, and a number of American National Standards Committees.

Availability

Distributed directly and through ANSI, IHS, and Global

Formerly

Formed by merger of Gas Institute and National Commercial Gas Association

Keywords

fuel gas; natural gas; energy; building; consumer products; industrial equipment;

AMERICAN GEAR MANUFACTURERS ASSOCIATION

Richard B. Norment, Executive Director

1500 King Street
Suite 201
Alexandria, Virginia 22314
(703) 684-0211

Founded: 1916

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

31 committees, and 315 members participate in standards development
60 active standards; 6 processed through ANSI
Draft standards and revisions available for review by interested parties

**Standards
Designation**

AGMA prefix

Secretariats

U.S. Technical Advisory Group to ISO/TC 60

Scope

Membership includes a majority of the principal manufacturers of gears, speed reducers and increasers in the United States and Canada. Develops standards to promote a common language for the industry. Scope has increased to developing a wide variety of public and economic programs which assist member companies to compete more effectively. Through the Administrative Division supports 6 Councils concerning itself with marketing programs, public and government affairs as well as statistical information services.

**Standardization
Activities**

Standards cover such areas as: gear industry nomenclature; gear specification drawings; hobs and shaper-cutters; application classification of gear motors and other types of speed reducers; standards on tooth form geometry; strength and durability formulas; inspection methods and practices; gear blank materials; lubrication of open or enclosed gearing; design and rating of speed reducers; spur, helical, herringbone, worm, bevel, fine pitch, aerospace gears. Standards committees are listed in the Annual AGMA Directory.

Maintains liaison with the American National Standards Institute, American Society of Mechanical Engineers, Society of Automotive Engineers, Metal Cutting Tool Institute, Cooling Tower Institute, Machinery and Allied Products institute, National Machine Tool Builders Association, American Petroleum Institute, and other technical organizations. Participates in the

International Organization for Standardization (ISO), through the facilities of ANSI. Also cooperates with the federal government in standardization activities.

Availability sold directly and through IHS and Global

Keywords gears; gearing; speed reducers; gearmotors; lubrication; gear design; machinery;

AMERICAN HARDBOARD ASSOCIATION

C. Curtis Peterson, Executive Vice President

520 North Hicks Road
Palatine, Illinois 60067
(312) 934-8800

Founded: 1976

Standards Staff: 4

Type of Organization Trade Organization
Standards Developer

Standards Development Standards developed through ANSI

Standards Designation ANSI/AHA prefix

Government Adoption Government references ANSI/AHA standards in government standards and guide specifications

Certification Quality Conformance Programs for Hardboard Siding based upon ANSI 135.6

Scope Represents manufacturers of hardboard products used for exterior siding, interior wall paneling, household and commercial furniture, and industrial and commercial products. Serves as the central clearing house on industry and technical information for architects, builders, contractors, distributors, dealers, government agencies, and the general public. Coordinates industry effort for statistical reports, standard/specification programs, research activities, building codes, environmental affairs, educational publications, manufacturing and safety activities, and governmental relations.

Standardization Activities Develops standards for hardboard, hardboard prefinished paneling, hardboard siding, and fiberboard products. Works with building code organization for effective utilization of these products. Administers a quality conformance program for hardboard siding.

Availability Sold directly and through ANSI

Keywords hardboard; fiberboard; building; materials;

AMERICAN HEART ASSOCIATION

Dudley Hafner, Executive Vice President

7320 Greenville Avenue
Dallas, TX 75231
(214) 373-6300 FAX: (214) 691-2704

Type of Organization Professional Society
Works through other organizations to develop standards

Scope Supports research and professional and public education programs in an effort to reduce heart disease. Has 56 affiliates that cover all 50 states, 6 major metropolitan areas and Puerto Rico. Also has approximately 1,900 divisions and 2.7 million volunteers nationwide.

Standardization Activities Representatives of 14 Scientific Councils participate in the development of statements on a variety of topics relating to the prevention, detection and treatment of cardiovascular diseases.

Keywords endocarditis; heart disease; medical; medical devices;

AMERICAN HELICOPTER SOCIETY

John F. Zugschwert, Executive Director

217 North Washington Street
Alexandria, Virginia 22314
(703) 684-6777

Founded: 1943 Standards Staff: 1

Type of Organization Technical Society
Works through other organizations to develop standards

Representation DoD, FAA, SAE, International Civil Aviation Organization (ICAO), and other organizations

Scope A technical organization dedicated to the advancement of all types of vertical flight. Membership includes all the major helicopter manufacturers worldwide. Provides the principal forum for the exchange of technical information pertaining to the realm of vertical flight. Representation includes military and

civil, governmental and educational institutions and activities. Maintains a specialized technical reference library.

Standardization Activities Maintains eleven technical committees with interests in acoustics, aerodynamics, aircraft design, avionics and systems, commercial operators, dynamics, handling qualities, manufacturing and product assurance, propulsion, structures and materials, test and evaluation, crew stations and human factors, flight simulation, military operations, and product support.

Keywords helicopter; rotorcraft; vertical flight; aerodynamics; propulsion; avionics; acoustics; defense; aerospace; transportation;

AMERICAN HOME ECONOMICS ASSOCIATION

Stephen P. Shearer, Administrator
Business and Finance

1555 King Street
Alexandria, Virginia 22314
(703) 706-4600 FAX: (703) 706-4663

Founded: 1909

Type of Organization Professional Society
Works through other organizations to develop standards

Secretariats ANSI Z61.1 - 1970 - Dimensions, Tolerances, and Terminology for Home Cooking and Baking Utensils

Scope An educational and scientific organization of 25,000 men and women. Improves the quality and standards of individual and family life through education, research, cooperative programs, and public information.

Standardization Activities Expresses an interest in standards through representation on the American National Metric Council and the American National Standards Institute's Consumer Council, Miscellaneous Technical Advisory Board, Textile Technical Advisory Board, and committees dealing with household refrigerators, electric ranges, textile test methods, and heat producing portable household appliances. Also represented on ISO/TC 133, Clothing Sizes; and ISO/TC 38, Textiles.

Works closely with the National Institute of Standards and Technology (NIST) and assisted in developing the Voluntary Product Standards PS 54-72, Body Measurements for the Sizing of Girls' Apparel, which has subsequently been withdrawn.

Keywords home economics; consumer products; clothing;

AMERICAN HOSPITAL ASSOCIATION

Douglas S. Erickson, Director Design and Construction
Division of Facilities Management

840 North Lake Shore Drive
Chicago, Illinois 60611
(312) 280-6101

Founded: 1898

Type of Organization	Trade/Professional Association Works through other organizations to develop standards
Representation	National Institute of Science and Technology, agencies within the Department of Health and Human Services and the Department of Labor, ANSI, NFPA, ASTM, EPA, OSHA and others.
Scope	Provides education, research, and representation services for 6,500 institutional and over 20,000 personal members.
Standardization Activities	<p>The Division of Facilities Management has the primary responsibility for codes and standards advocacy activities related to hospital planning, design, construction, engineering, equipment, supplies and facilities management. Maintains liaison with national organizations and government agencies concerned with the development of standards. Major goal is the development of standards which are based on knowledge, cost/benefit analysis and a statistical profile establishing need.</p> <p>Liaison activities include recommendation, review, revision and testimony on standards. Actively participates in the development of standards for: fire and life safety; hospital engineering; equipment and facilities; infection control; hospital supplies; and environmental issues.</p>
Keywords	hospital; life safety; material management; hospital equipment; health care; facilities management;

AMERICAN HOTEL AND MOTEL ASSOCIATION

Kenneth F. Hine, Executive Vice President and Chief Executive Officer

1201 New York Avenue, N.W.
Washington, DC. 20005-3917
(202) 289-3100

Founded: 1910

Type of Organization	Trade Association Works through other organizations to develop standards
Representation	ANSI, ASTM, UL
Scope	An international trade association representing the hotel and motel industry with primary efforts directed to the United States.
Standardization Activities	<p>Cooperates with other organizations in standards development. Adoption of any standards by an individual hotel/motel property is solely on a voluntary basis. Maintains liaison with the National Fire Protection Association, the National Institute of Standards and Technology, the National Institute of Building Sciences and the U.S. Fire Administration. Also works with the Council of Insurance Legislators and the Foundation for Fire Safety to seek solutions to the problems of toxicity and smoke generation. Works with the National Legislative Conference on Arson to support arson control.</p> <p>Involved in code activities of Building Officials and Code Administrators International, International Conference of Building Officials, National Conference of States on Building Codes and Standards, Southern Building Code Congress International, and Western Fire Chiefs Association.</p> <p>Active in ANSI's development of USA Standards Safety Code for Elevators, Dumbwaiters, and Escalators; and USA Recommended Practice for the Inspection of Elevators. Represented on various committees of ANSI, ASTM, and UL.</p>
Formerly	American Hotel Protective Association (1917) American Hotel Association (1962)
Keywords	hotels; motels; safety; fire protection;

AMERICAN INDUSTRIAL HYGIENE ASSOCIATION

O. Gordon Banks, Executive Director

345 White Pond Drive
P.O. Box 8390
Akron, Ohio 44320

Founded: 1939

**Type of
Organization**

Professional Society
Standards Developer

Secretariats

ANSI Z9 committee

Scope

Objectives are to increase the knowledge of industrial hygiene through interchange and dissemination of information; promote the study and control of environmental factors affecting the health and well-being of workers in the workplace; correlate such activities as are conducted by individuals and agencies throughout industrial, educational, and governmental groups; and bring together persons interested in all aspects of the profession. Acts as clearinghouse for information on occupational health and safety. Brings together members of the profession through the formation of technical committees, local chapters and the conducting of continuing education course work and an annual meeting.

**Standardization
Activities**

This association operates as a standards developer acting as secretariat for ANSI's Z9 committee and through comment by the association's 44 technical committees on public policy.

Keywords

industrial hygiene; environmental; occupational safety; public health;

AMERICAN INSTITUTE OF AERONAUTICS AND ASTRONAUTICS

Harry J. Sheetz, Standards Administrator

370 L'Enfant Promenade, SW
Washington, DC 20024-2518
(202) 646-7532

Founded: 1930

**Type of
Organization**

Professional Society
Standards Developer

Standards Development	Standards developer since 1980 Processed through ANSI Draft standards available for review
Standards Designations	AIAA, S, G, R, SP prefixes
Certification	No certification, qualification, or accreditation programs
Scope	Advances the arts, sciences, and technology of aeronautics and astronautics, and nurtures and promotes the professionalism of those engaged in these pursuits. Serves the needs and professional interests of members, and improves public understanding of the profession and its contributions.
Standardization Activities	Directs activities toward achieving technical understanding in advance of new aerospace hardware and software designs and development. Works closely with the Department of Defense and National Aeronautics and Space Administration, encouraging direct participation of industry, academia and government representatives in meetings and activities of the standards committees.
Availability	Distributed directly
Formerly	American Rocket Society (1930) Institute for Aeronautical Sciences (1932) Institute for Aerospace Science (1960)
Keywords	aerospace; aeronautics; astronautics; spacecraft; launch vehicles;

AMERICAN INSTITUTE OF ARCHITECTS

James P. Cramer, Hon. AIA, Executive Vice President/CEO

1735 New York Avenue, NW
Washington, DC 20006
(202) 626-7300

Founded: 1857

Type of Organization	Professional Society Works through other organizations to develop standards
Scope	Serves the needs and improves the capability of architects; conducts public relations and educational programs. Encourages the utilization of national consensus codes and standards.

Standardization Activities	<p>Maintains liaison with model building code organizations and standards writing groups within the industry. Several hundred AIA members work within the framework of the AIA Codes and Standards Committee.</p> <p>Issues a variety of contract forms and formulates recommendations concerning size and character of building product literature directed to the architect. Active in development of a uniform system for correlation of a specifications outline, a filing system for product data, and project cost accounting guide.</p>
Availability	Directly and through IHS
Keywords	architecture; building;

AMERICAN INSTITUTE OF CHEMICAL ENGINEERS

	<p>Richard E. Emmert, Executive Director</p> <p>345 East 47th Street New York, New York 10017 (212) 705-7338</p> <p>Founded: 1908</p>
Type of Organization	Professional Society Standards Developer
Standards Development	31 ANSI Standards; 17 active
Standards Designation	ANSI prefix
Secretariats	ANSI N-46 Sub-Committee: Nuclear Reactor Fuel Cycle
Scope	Advances Chemical Engineering in theory and in practice. Maintains a high professional standard among its members; serves society, particularly where chemical engineering can contribute to the public interest.
Standardization Activities	Recommends and supports ANSI or other standardization committees in areas of specified interest; provides competent and responsible representatives to such committees to ensure that any standards or codes developed are acceptable to the chemical engineering profession; develops an Institute position on major questions arising on standards proposals; and promotes the chemical engineer's participation in international standards work.

Availability Sold directly and through ANSI, IHS, and Global
Keywords chemicals; materials;

AMERICAN INSTITUTE OF PHYSICS

Kenneth W. Ford, Executive Director

335 East 45th Street
New York, New York 10017
(212) 661-9404

Founded: 1931

Type of Organization Scientific Society
Standards Developer

Scope A nonprofit membership corporation which promotes the advancement of physics and its application to human welfare.

Standardization Activities Standards, including Secretariats are provided by the Acoustical Society of America and the Optical Society of America. Both are Member Societies of AIP. AIP publishes and distributes standards for the Acoustical Society of America.

Availability Distributed directly

Keywords optics; acoustics;

AMERICAN INSTITUTE OF STEEL CONSTRUCTION

Neil W. Zundel, President

400 North Michigan Avenue
Chicago, Illinois 60611
(312) 670-2400

Founded: 1921

Type of Organization Trade Association
Standards Developer

Government Adoption Specifications for Structural Steel for Buildings has been widely adopted by building code bodies and government agencies.

Scope A nonprofit trade association representing and serving the fabricated structural steel industry in the United States. Improves and advances the use of fabricated

structural steel through marketing and technical research aimed at developing the most efficient, safe, and economical design and fabrication of steel framed structures.

Provides a variety of services to the construction industry, design profession, and steel fabricating companies including specifications, technical publications, design aids, research and development programs, plus informational and educational services conducted nationally.

**Standardization
Activities**

Published the AISC Specification for the Design, Fabrication and Erection of Structural Steel for Buildings, and the Manual of Steel Construction. Also publishes the AISC Code of Standard Practice, and a number of specifications for materials, products, and assemblies which may be used in steel framed structures. The specifications and the manual are accepted and used universally by architects, engineers, building code bodies and government agencies.

Availability

Distributed directly and through IHS and Global

Keywords

steel; structural; construction; building;

AMERICAN INSTITUTE OF TIMBER CONSTRUCTION

R.F. Mullau, Executive Vice President

11818 Southeast Mill Plain
Vancouver, Washington 98684
(206) 254-9132

Founded: 1952

Standards Staff: 3

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Standards developer since 1952
200 members have opportunity to participate in standards activities
15 active standards
One processed through ANSI

**Standards
Designation**

AITC prefix

**Government
Adoption**

Adopted by local, regional, and state building codes and federal government agencies.

Certification	License qualified timber lamination plants to mark and certify products as being in conformance with ANSI A190.1.
Secretariats	ANSI A190.1
Scope	The American Institute of Timber Construction is the national technical trade association of the structural glued laminated timber (glulam) industry.
Standardization Activities	AITC's standardization activities are administered by the Institute's staff with the advice and assistance of the AITC Technical Advisory Committee. In addition to industry standards related to structural glued laminated timber and heavy timber construction, AITC has used the ANSI canvass procedure to develop ANSI/AITC A190.1, "Structural Glued Laminated Timber", which is the basis for the Institute's quality control certification program. ANSI and industry standards are adopted by building code agencies to govern the use of structural glued laminated timber. Standards specify design and manufacturing requirements.
Availability	Sold directly
Keywords	wood; glulam; structural; laminated timber; construction; building;

AMERICAN INSURANCE SERVICES GROUP, INC.

John L. Jablonsky, Vice President
Engineering and Safety Service

85 John Street
New York, New York 10038
(212) 669-0473

Founded: 1984

Standards Staff: 12

Type of Organization	Trade Association Works through other organizations to develop standards
Representation	ANSI, ASTM, NFPA, UL, etc.
Scope	This subsidiary of the American Insurance Association represents 260 companies providing property and liability insurance. Endeavors to reduce and control life and property losses as well as injuries, and damage to health and the environment thereby enhancing the general public's safety, health, and welfare.

Publishes information bulletins and reports on industrial safety rules, fire protection, construction, crime prevention, special hazards, workers compensation, motor vehicle safety, and environmental science.

**Standardization
Activities**

Engineering and Safety Service administers standardization activities. Participates in nearly 100 standards-writing committees of the American National Standards Institute, National Fire Protection Association, American Society for Testing Materials, Underwriters Laboratories Incorporated, and others, that deal with the areas of fire protection, nuclear, chemical and environmental concerns, construction and construction safety, commercial motor vehicles, safety of personnel in the workplace, crime, and concerns regarding products, boilers, and machinery.

Formerly

Created by the merger of National Board of Fire Underwriters, Association of Casualty and Surety Companies, and American Insurance Association (1964); became a subsidiary in 1984.

Keywords

occupational safety; crime prevention; motor vehicle safety; fire protection; industrial hygiene; product safety; insurance; environmental science; safety; construction;

AMERICAN IRON AND STEEL INSTITUTE

Milton Deaner, President

1133 15th Street, NW
Washington, DC. 20005
(202) 452-7100

Founded: 1855

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Three design specifications

**Standards
Designation**

As a result of early standardization efforts of the Automobile Manufacturers Association at the beginning of this century and present work by the Society of Automotive Engineers and AISI, numerical designations of steels which only refer to chemical composition ranges and limits are often identified as AISI/SAE "Standard Steels."

Government Adoption	The design specifications are referred to in building codes and state and federal specifications for construction.
Secretariats	U.S. Technical Advisory Group for ISO Technical Committee 167 on Steel and Aluminum Structures.
Scope	Activities include research, technology, and engineering, collection and dissemination of statistics, public distribution of information about the industry and its products, public affairs, and discussion of industrial relations including health, safety, and hygiene.
Standardization Activities	Developed and published design specifications for cold-formed steel structural members and for light-gage cold-formed stainless steel structural members. Actively supports standardization activities through participation in the work of standards boards and committees of American National Standards Institute, American Society of Civil Engineers, American Society for Testing and Materials, National Fire Protection Association, and others.
Availability	Distributed directly and through IHS and Global
Formerly	American Iron and Steel Association (1912)
Keywords	steel; stainless steel; structural members; construction; materials;

AMERICAN LADDER INSTITUTE

James E. Elsener, Executive Director

c/o Smith, Bucklin and Associates

111 East Wacker Drive

Suite 600

Chicago, Illinois 60601

(312) 644-6610

FAX: (312) 565-4658

Founded: 1935

Type of Organization

Trade Association
Standards Developer

Standards Development

Standards Developer since late 1930s
5 active standards
All processed through ANSI

Standards Designations

ANSI A14.x

Secretariats	ANSI A14 Ladder Safety Committee
Scope	A national trade association representing U.S. companies engaged in the research, development, manufacture, and safety of ladders. Represents its membership in industry matters.
Standardization Activities	Promotes uniform design and manufacturer specifications and ladder safety. Works with government bodies, particularly OSHA and CPSC, in addressing design questions. Participates in activities related to production equipment used in making ladders. Current standards include: A14.1 Portable Wood Ladder; A14.2 Portable Metal Ladder; A14.3 Fixed Ladder; A14.5 Portable Reinforced Plastic; A14.7 Rolling Ladders; A14.8 Ladder Accessories.
Availability	Sold directly through ANSI
Keywords	ladders; wood; metal; fiberglass; reinforced plastic; rolling ladder stands; industrial equipment; consumer products; safety; portable; fixed; accessories; step;

AMERICAN LAMINATORS ASSOCIATION

Arthur S. Langlie, Executive Director

419 Norton Building
Seattle, Washington 98104-1584
(206) 622-0666

Founded: 1984

Standards Staff: 1

Type of Organization	Trade Association Standards Developer
Standards Development	1 active standard
Standards Designations	ALA
Certification	Self-certification by each manufacturing member.
Scope	A national trade association of the thermoset panel industry with members throughout the United States and Canada.
Standardization Activities	American Laminators Association promotes thermoset decorative panels meeting the performance standard ALA 1988 under its registered trademark PERMALAM. Those panels are produced by ALA manufacturing members

throughout the United States and Canada, and the panels are for decorative uses primarily in cabinetry, fixtures, furniture, and other interior uses.

Availability Sold directly

Keywords laminated panels; building; materials;

AMERICAN LEATHER CHEMISTS ASSOCIATION

Velma Becker, Executive Director

c/o University of Cincinnati
ML #14
Cincinnati, Ohio 45221
(513) 556-1197

Type of Organization Technical Society
Standards Developer

Standards Development 150 standard test methods

Scope Chemists, leather technologists, and educators concerned with the tanning and leather industry. Objectives are to devise and perfect methods for the analysis and testing of leathers and materials used in leather manufacture; to promote advancement of chemistry and other sciences in their application to leather related problems.

Standardization Activities Maintains technical committees which develop methods of analyses and testing. Final methods published as the official methods of the association. Works with the American Society for Testing of Materials to coordinate physical test methods. Member of the International Union of Leather Chemists Society and participates in the development of methods for international use.

ALCA methods are incorporated in industry specifications. Members include representatives from government concerned with leather or leather products. Closely affiliated with the Leather Industries of America (formerly known as the Tanners Council of America).

Keywords leather; tanning; laboratory testing; materials;

AMERICAN LIBRARY ASSOCIATION

Linda Crismond, Executive Director

50 East Huron Street
Chicago, Illinois 60611
(312) 944-6780

Founded: 1876

**Type of
Organization**

Professional Association
Standards Developer

Scope

Promotes libraries and librarianship to assure the delivery of user-oriented information service to all. Establishes standards of service, support, education, and welfare for libraries and library personnel; safeguards the professional status of librarians; promotes popular understanding and public acceptance of the value of the library service.

**Standardization
Activities**

Develops standards and guidelines both quantitative and qualitative for library service and librarianship. Standards and guidelines adopted by ALA or its units include College Library Standards; Standards for Faculty Status for College and University Libraries; Standards for University Libraries; Statement of Quantitative Standards for Two-Year Learning Resources Programs; Library Standards for Adult Correctional Institutions; Library Standards for Jails and Detention Facilities; Library Standards for Juvenile Correctional Institutions; Standards for Accreditation; Standards for Libraries at Institutions for the Mentally Retarded; Standards of Service for the Library of Congress National Library Service Network of Libraries Serving the Blind and Physically Handicapped.

Also works through committees and assists in the development of uniform codes for analyzing and cataloging information.

Availability

Sold directly

Keywords

library; librarianship; physically handicapped; education;

AMERICAN LIGHTING ASSOCIATION

James S. Nicol, Managing Director

435 North Michigan Avenue

Suite 1717

Chicago, Illinois 60611-4067

(312) 644-0828

Telex: 701633

FAX: (312) 644-8577

Founded: 1943

Standards Staff: 1

**Type of
Organization**

Trade Association

Works through other organizations to develop standards

Representation

UL

Scope

Represents manufacturers of lighting fixtures, portable lamps, lamps (bulbs) and lighting accessories. Also represents lighting showrooms and manufacturers representatives. Monitors and reacts to issues that affect UL listing of products and to regulatory changes that affect the industry. Conducts educational programs.

**Standardization
Activities**

Actively involved with Underwriters Laboratories with matters affecting the UL standards for all lighting fixtures and portable lamps.

Formerly

American Home Lighting Institute

Keywords

lighting; fixtures; track lighting; electrical;
building; consumer products; recessed;

AMERICAN LUMBER STANDARDS COMMITTEE

Thomas D. Searles, Executive Vice President

P.O. Box 210

Germantown, Maryland 20874

(301) 972-1700

FAX: (301) 540-8004

Founded: 1922

**Type of
Organization**

NIST Product Standards Committee
Standards Developer

**Standards
Development**

Sets the standards under which virtually all of the lumber in the United States and Canada is produced.

**Government
Adoption**

Widely used by federal and local government agencies

Scope	The licensing agent for all nine grading agencies and six rules writing agencies in the United States. Consists of 23 representatives and 23 alternate groups of lumber manufacturers, lumber inspection agencies, engineers, architects, contractors, home builders, wholesalers, retailers, millwork manufacturers, and other consumers, as well as five ex officio nonvoting government agency representatives appointed by the Secretary of Commerce.
Standardization Activities	Acts as the standing committee for the purpose of considering revisions or amendments to the National Institute of Standards and Technology Voluntary Product Standard 20-70. This standard provides classification of American standard lumber, grading standards and grademarking, size standards, nomenclature, definitions, and abbreviations. Elects a Board of Review and adopts policies used by the Board in carrying out its functions. Principal functions of the Board are to review and approve rules submitted by agencies to assure they conform to the American Lumber Standards requirements; review and approve grading agencies; and to continuously review adequacy, competency and reliability of approved agencies.
Formerly	Central Committee on Lumber Standards (1941)
Keywords	lumber; construction; building; wood; grading; inspection;

AMERICAN MEDICAL ASSOCIATION

	James H. Sammons, M.D., Executive Vice President 515 North State Street Chicago, Illinois 60610 (312) 464-5000 Founded: 1846
Type of Organization	Professional Society Standards Developer
Standards Development	Develops advisory standards None processed through ANSI
Scope	A national organization of physicians whose objective are to foster the advancement of medical science, medical practice, and the public health.

Standardization	<p>Develops advisory standards dealing with drug evaluation, diagnostic and therapeutic technology assessment, guides to the evaluation of physical impairment, physical fitness standards for industry, undergraduate medical education, hospital residency training programs, and continuing medical education. Maintains close liaison with the federal government in matters of drug nomenclature (through the United States Adopted Names Council), medical and device evaluation at the post-marketing level of surveillance, and other issues of a scientific nature that arise in the practice of medicine.</p> <p>Issues reports relating to guidelines for the determination of permanent impairment, the frequency of medical examinations, and many other issues relative to the medical diagnosis and management of patient problems. Reports are adopted by the AMA House of Delegates if they are to be made AMA policy.</p>
Availability	Distributed directly
Keywords	medicine; medical; drugs; health care;

AMERICAN NATIONAL METRIC COUNCIL

James M. Meredith, President

1620 I Street, NW
Suite 220
Washington, DC 20006
(202) 857-0474 FAX: (202) 659-5427

Founded: 1973 Standards Staff: 1

Type of Organization	<p>Trade Association</p> <p>Works through other organizations to develop standards</p>
Scope	<p>A private, nonprofit organization dedicated to planning, coordinating, and facilitating voluntary metric transition activities in various sectors of the U.S. economy. A focal point for private sector metric transition planning activity and information.</p> <p>Distributes information about metric activities in the United States, Canada, and around the world. Publishes a newsletter and special issue papers. Conducts conferences, seminars, and educational workshops.</p>
Standardization Activities	<p>Assists standards making bodies by identifying needs for standards in SI units, evaluating priorities, and making recommendations for standards development. Maintains several committees that affect</p>

standardization activities. The Standards Task Group has identified the scope and criticality of standards issues and prepared a model chapter and checklist summarizing specific tasks that industry sector committees can incorporate in their metric plans.

Keywords

metric; measurement; international trade; manufacturing; business; general; defense;

AMERICAN NATIONAL STANDARDS INSTITUTE

Manuel Peralta, President

1430 Broadway
New York, New York 10018
(212) 354-3300

FAX: (212) 398-0023
Telex: 42 42 96 ANSI UI

Founded: 1918

Standards Staff: 110

**Type of
Organization**

Standards coordinating and approval organization. The Institute does not develop standards. They are developed by qualified technical and professional societies, trade associations, and other groups which voluntarily submit them to ANSI for approval. U.S. member of nongovernmental international standards bodies.

**Standards
Designations**

9,500 standards approved by ANSI are designated American National Standards.

**Government
Adoption**

American National Standards are widely adopted and referenced by government at the federal, state, and local levels.

Certification

ANSI accredits certification programs sponsored and operated by competent organizations in the United States and represents U.S. interests in international non-treaty certification activities. It does not certify products and services.

Scope

250 professional and technical societies and trade associations that develop standards in the United states are members of ANSI; 1,100 companies are members.

ANSI performs the following major functions:

- coordinates the development of voluntary national standards in the United States;
- approves standards as American National Standards; manages and coordinates U.S. participation in nongovernmental international standards developing

organizations, such as the International Organization for Standardization (ISO) and the International Electrotechnical Commission (IEC);

- serves as the U.S. source and information center for all American National Standards and those issued by ISO, IEC, and the national standards organizations of 69 other countries;
- maintains interface with government at all levels on standards-related matters.

Standardization Activities

National Coordination -

Coordinates and harmonizes private sector standards activity in the United States. It assists participants in the voluntary standards system reach agreement on the needs for standards, encourages qualified organizations to develop them, and follows up on progress. It provides standards developers with procedures and services to use their resources effectively, avoid duplication of effort, and resolve conflicts.

Approval of American National Standards -

Standards are approved by ANSI as American National Standards when it finds that its criteria for due process have been met and that a consensus for approval exists among those directly and materially affected.

International Management and Coordination -
ANSI is the U.S. member of the International Organization for Standardization (ISO) and the International Electrotechnical Commission (IEC). The Institute manages, coordinates, and provides financial and administrative support for U.S. participation in these two major nongovernmental standards developing bodies. With the support of its members and other cooperating bodies, the Institute participates in some 2,000 ISO technical committees and subgroups. It administers the secretariats of 13 ISO technical committees, 65 subcommittees, and 179 working groups.

It helps govern ISO through membership on its Council and Executive and Planning Committees. The U.S. National Committee of IEC, which is part of ANSI, participates in 90% of the International Electrotechnical Commission's technical program and is represented on IEC's policy making council and committees. It holds the secretariat of 11 IEC technical committees and 21 subcommittees.

Clearinghouse and Information Center -

Serving as the clearinghouse and information center for

Founded: 1954

Standards Staff: 3

**Type of
Organization**

Scientific Society
Standards Developer

**Standards
Development**

135 active projects
104 approved standards
All processed through ANSI
Draft standards available for review

**Standards
Designation**

ANS prefix

**Government
Adoption**

A number of NRC Regulatory Guides reference ANS standards; several standards are referenced in the Code of Federal Regulations

Secretariats

N16, Nuclear Criticality Safety
N17, Research Reactors, Reactor Physics, and Radiation Shielding
N48, Radioactive Waste Management
American Nuclear Society Nuclear Power Plant Standards Committee (NUPPSCO)

Scope

A nonprofit, international, scientific, engineering and education organization. Aims to advance science and engineering related to the atomic nucleus and allied sciences and arts and to integrate the disciplines constituting nuclear science and technology.

**Standardization
Activities**

Maintains a Standards Committee which ascertains the need for standards in the nuclear field, develops such standards, and cooperates with other organizations to develop standards. Maintains 20 subcommittees in the areas of reactor operations and design, performance criteria, radiation protection, and fuel and waste management.

Availability

Sold directly and through ANSI and Global

Keywords

reactor; radioactive waste; nuclear; nuclear power plant; radiation shielding; energy; safety;

AMERICAN OCCUPATIONAL MEDICAL ASSOCIATION

Donald L. Hoops, Ph.D., Executive Director

55 West Seegers Road
Arlington Heights, Illinois 60070
(708) 228-6850

Founded: 1916

Type of Organization	Professional Society Standards Developer
Certification	Provides recognition of achievement and studies in Occupational Medical Practice via the Association's Basic Curriculum Program in Occupational Medicine.
Scope	Represents the profession in matters pertaining to Occupational Medical Practice.
Standardization	Actively participates in various standards developing committees. Sets forth acceptable medical practices in the form of recommended guidelines. Comments on and suggests modifications to all related federal legislation.
Availability	Distributed directly
Keywords	occupational medicine; public health; health care;

AMERICAN OIL CHEMISTS SOCIETY

J. Lyon, Executive Director

P.O. Box 3489

Champaign, Illinois 61826-3489

(217) 359-2344

Telex: 4938651 AOCS UI

FAX: (217) 351-8091

Founded: 1909

Standards Staff: 2

Type of Organization	Scientific Society Standards Developer
Standards Development	Standards Developer since 1909 4000 members participate in standards activities 365 active standards None processed through ANSI
Certification	The Society certifies Approved Chemists and Certified Laboratories through its Examination Board.
Scope	A scientific organization concerned with basic research on animal, marine, and vegetable oils and fats, including their extraction, refining, use in consumer and industrial products, safety, packaging, and quality control.
Standardization Activities	Publishes the Official Methods and Recommended Practices of the American Oil Chemists Society, a result of the work of various technical committees.

Offers accurately tested and graded natural bleaching earth, activated bleaching earth, refining cups and other materials, all designed for use with specific methodology.

Sponsors joint committees with the American Society for Testing and Materials, Association of Official Agricultural Chemists, and American Association of Cereal Chemists. Representation maintained on committees of the American Association for the Advancement of Science, National Fire Protection Association, National Research Council, U.S. Technical Advisory Group for ISO/TC 34, and the Codex Alimentarius Committee on Fats and Oils.

Availability	Sold directly
Formerly	Society of Cotton Products Analysts (1922)
Keywords	fats; vegetable oil; fish oil; analysis; oil extraction; oil refining; food; laboratory testing;

AMERICAN OPTOMETRIC ASSOCIATION

Earle L. Hunter, O.D., Executive Director

243 North Lindbergh Boulevard
St. Louis, Missouri 63141
(314) 991-4100

Founded: 1898

Standards Staff: 2

Type of Organization	Professional Society Works through other organizations to develop standards
Representation	ANSI, ASTM, ISO, IEC
Certification	Council On Optometric Education accredits and certifies schools and colleges of optometry in United States and Canada. Council On Clinical Optometric Care accredits optometric clinical facilities.
Scope	A nonprofit corporation representing doctors of optometry and students of optometry. A federation of associations representing each of the fifty state, the District of Columbia, and doctors of optometry in the armed forces. Objectives are to improve the vision care and health of the public and to promote the art and science of the profession of optometry.
Standardization Activities	The Commission On Ophthalmic Standards serves as the coordinating body for AOA's activities with private and governmental groups in the development of standards and

policies related to the quality of ophthalmic materials, instrumentation and procedures.

The Council On Optometric Education is the accrediting body for schools and colleges of optometry, as recognized by the U. S. Department of Education and the Council on Postsecondary Accreditation.

The Council On Clinical Optometric Care evaluates and accredits the quality of vision care for optometric clinical facilities.

Formerly

American Association of Opticians (1919)

Keywords

education; optometry; ophthalmic products; vision; public health;

AMERICAN PAPER INSTITUTE

Ronald J. Slinn, Vice President
Standards and Metrics Department

260 Madison Avenue
New York, New York 10016
(212) 340-0680 FAX: (212) 689-2628

Founded: 1966

Type of

Organization

Trade Association
Works through other organizations to develop standards

Representation

ISO, TAPPI, ASTM, GSA

Secretariats

U.S. TAG to ISO/TC 6, Paper, Board and Pulps

Scope

The national trade association of 170 companies that manufacture pulp, paper, and paperboard in the United States.

**Standardization
Activities**

Standards for testing certain physical characteristics such as bursting strength, tear, brightness, opacity, etc., have been developed for many grades of paper. These domestic specifications are officially published by the Technical Association of the Pulp and Paper Industry. Standard gauge lists for combination paperboard were revised effective January 1969 and adopted by members of the Combination Paperboard Division of the API Paperboard Group.

The Dictionary of Paper, fourth edition 1980, contains nearly 500 pages of concise descriptions of pulp and other raw papermaking materials, papers, paperboards, paper properties and papermaking terms. The contents

afford considerable guidance in the appraisal of paper grades, specifications, or nomenclature standards.

An active member of the American National Standards committee, participates in international standardization activities through U.S. Technical Advisory Group to ISO/TC 6. Works closely with various federal and state agencies in the development of product specifications, particularly the General Services Administration and the Joint Committee on Printing of Congress. Participates with the American Society for Testing and Materials in the development of its specifications and standardization activities affecting pulp, paper or paperboard.

Formerly Several independent trade associations prior to 1965

Keywords pulp; paper; paperboard;

AMERICAN PAPER MACHINERY ASSOCIATION

Frank McManus, Executive Director

5313 38th Street, NW
Washington, DC 20015
(202) 362-6034

FAX: (202) 244-7752

Founded: 1933

Type of Organization Trade Association
Works through other organizations to develop standards

Scope Membership consists of the manufacturers of pulp and paper machinery.

Standardization Activities Participates in the ANSI standards process and programs of the American Paper Institute, TAPPI and others. Currently considering the establishment of a project to develop a voluntary standard.

Formerly Pulp and Paper Machinery Manufacturers Association

Keywords paper; machinery;

AMERICAN PETROLEUM INSTITUTE

C. Thomas Sawyer, Vice President, Industry Affairs

1220 L Street, NW
Washington, DC 20005
(202) 682-8000

Founded: 1919

Standards Staff: 30

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Standards developer since 1919
880 active standards
100 industry committees and 1,500 people active in
standards activities
15 percent of API standards processed through ANSI
5 percent published jointly with ASTM

**Standards
Designations**

API standards are called standards, recommended
practices, publications, bulletins, guidelines, and
specifications.

Representation

Members serve on committees of other organizations
including the American Society for Testing and
Materials, Society of Automotive Engineers, the
American Society of Mechanical Engineers, the Institute
of Electrical and Electronic Engineers, Instrument
Society of America, National Fire Protection
Association, Scientific Apparatus Manufacturers
Association, American National Standards Institute,
American Gear Manufacturers Association, National
Association of Corrosion Engineers, Society for Non-
Destructive Testing, American Welding Society,
Association of Drilling Constructors, American Gas
Association, American Iron and Steel Institute, and the
Association of Well-Head Equipment Manufacturers.

**Government
Adoption**

Department of Transportation, Department of Defense,
Occupational Safety and Health Administration, U.S.
Customs Service, the Environmental Protection Agency,
U.S. Geological Survey.

Certification

API issues a monogram to those production field
equipment manufacturers who produce equipment according
to API standards. API also licenses companies to use
API specifications on their motor oils if they meet API
specifications.

Secretariats

ISO/TC 67/SC 9, Wellhead Equipment and Pipeline Valves
ASTM D2, Petroleum Products and Lubricants
API/ASTM, Joint Committee on Static Petroleum
Measurement

Scope

A national association encompassing all branches of the
petroleum industry and composed of over 200 companies.

Standardization

Activities directed toward fulfilling user-defined
requirements of the industry and its customers. The
Industry Affairs group produces standards in the area
of transportation, marketing, production, refining,

measurement, marketing, production, refining, measurement, safety and fire protection. Maintains liaison with other standardization bodies. Standards are primarily performance oriented with some design and process specifications where appropriate. Standards used worldwide and offered for adoption to the International Organization of Legal Metrology and the International Organization for Standardization.

Availability

Distributed directly and through IHS and Global

Keywords

petroleum; petroleum equipment; petroleum measurement; petroleum transportation; materials;

AMERICAN PHARMACEUTICAL ASSOCIATION

John A. Gans, Pharm. D., Executive Vice President

2215 Constitution Avenue, NW
Washington, DC 20037
(202) 628-4410

Founded: 1852

**Type of
Organization**

Professional Society
Standards Developer

Scope

A national professional society with 37,000 individual pharmacists and pharmaceutical scientists in the United States. Concerns itself with matters affecting the professional, technical, legal, and scientific aspects of the practice of pharmacy.

**Standardization
Activities**

Primary standardization programs pertain to standards of practice for the profession of pharmacy. Responsible for the pharmacy profession's code of ethics. Through its Board of Pharmaceutical Specialties, establishes criteria for specialization and certification of specialists within pharmacy. Participates jointly with other organizations in sponsoring and conducting a program known as the United States Adopted Names Council (USAN), for the establishment of standardized nonproprietary nomenclature for drugs. Through USAN, APA is involved with the World Health Organization in developing international nomenclature for the naming of drugs. Also participates in programs of the Pan-American Health Organization and the Federation Internationale Pharmaceutique. Maintains contact with the Food and Drug Administration; the Treasury Department, Alcohol and Tobacco Division; the Social Security Administration, Medicare Division; and the Justice Department, Drug Enforcement Administration.

Availability Distributed directly

Keywords pharmaceutical; drugs; drug purity; nomenclature;
health care; pharmacist; pharmaco therapy; pharmacy
ethics; practice standards;

AMERICAN PIPE FITTINGS ASSOCIATION

Paul H. Engle, Jr., Executive Director

6203 Old Keene Mill Court
Springfield, Virginia 22152
(703) 644-0001

Founded: 1938

Type of Organization Trade Association
Works through other organizations to develop standards

Representation Represented on the standards committees of MSSVFI and ANSI B16

Scope An association of American pipe fittings manufacturers and producers of pipe hangers and suppliers.

Standardization Activities Although not a standards developing organization, encourages, contributes to, and cooperates in the development of standards for products within the scope of the association which will benefit the industry, its customers and the public.

Formerly Pipe Fittings Manufacturers Association (1964)

Keywords pipe hangers; pipe supports; building; construction;

AMERICAN PLYWOOD ASSOCIATION

William A. Baker, Manager, Market Support Services

P.O. Box 11700
Tacoma, Washington, 98411
(206) 565-6600 Telex: 32-7430
FAX: (206) 565-7265

Founded: 1933

Type of Organization Trade Association
Standards Developer

Standards Development	<p>Eleven active standards</p> <p>None processed through ANSI</p> <p>Draft standards available for review by members and others at discretion of APA</p>
Government Adoption	<p>PS 1 adopted by all government agencies. Other APA standards recognized by most federal, state and local jurisdictions.</p>
Secretariats	<p>Secretariat for NIST Industry Standards Committee organized to maintain Voluntary Product Standard PS 1.</p>
Scope	<p>A nonprofit industry trade association engaged in advertising, promotion, quality testing and inspection, product and applied research, and codes and standards activities. Membership consists of mills involved in the manufacture of plywood and other structural-use panels, and of structural composite lumber.</p>
Standardization Activities	<p>APA standardization activities are administered by the Technical Services Division and encompass engineering design, manufacture, and application of plywood and other structural -use panels produced by its members. Standards are submitted for reference and adoption in building codes and other construction standards. Leader in the development of performance criteria for qualification of structural panels in accordance with their end use, administered through performance standards and policies.</p> <p>Cooperates with the Department of Commerce, National Institute of Standards and Technology; the Department of Housing and Urban Development; Federal Housing Administration, Department of Transportation; Department of Defense; National Institute of Building Sciences; and the General Services Administration. Also participates on committees of the American Society for Testing and Materials.</p> <p>Active member of ISO/TC 139 - Plywood. Participates in the International Union of Testing and Research Laboratories for Materials and Structures, and in the International Council for Building Research Studies and Documentation, Working Commission CIB/W18 - Timber Structures.</p>
Availability	<p>Sold directly</p>
Formerly	<p>Douglas Fir Plywood Association; American Plywood Association (1964)</p>
Keywords	<p>plywood; structural panels; sheathing; siding; building; construction; wood products; structural composite lumber;</p>

AMERICAN PODIATRIC MEDICAL ASSOCIATION

Dr. Jay Levrio, Director

Council on Podiatric Medical Education
9312 Old Georgetown Road
Bethesda, Maryland 20814-1621
(301) 572-9200

Founded: 1912

**Type of
Organization**

Professional Society
Standards Developer

Certification

The American Podiatric Medical Association's Council on Podiatric Medical Education is the accrediting body for podiatric medical education recognized as such by the U.S. Department of Education and the Council on Postsecondary Accreditation.

Scope

A voluntary, nonprofit corporation which promotes the art and science of podiatric medicine and the betterment of public health.

**Standardization
Activities**

Maintains standards and accrediting procedures for educational programs by publishing documents for each activity of accrediting or approval. Accredits colleges of podiatric medicine and podiatric assistants training programs. Approves podiatric medical residency programs and continuing medical educational programs. Recognizes specialty boards in specific fields of podiatric medicine.

The Council's standards are subject to the approval of the House of Delegates of the American Podiatric Medical Association.

Availability

Distributed directly

Formerly

National Association of Chiropodists (1958), American Podiatry Association (1984).

Keywords

Podiatric medicine; health care; education; accreditation; certifying boards;

AMERICAN PSYCHIATRIC ASSOCIATION

Melvin Sabshin, Medical Director

1400 K Street, NW
Washington, DC 20005
(202) 682-6000

Founded 1844

Type of Organization

Professional Society
Standards Developer

Scope

A medical specialty organization which furthers the study of the nature, treatment, and prevention of mental disorders; develops standards for psychiatric facilities; disseminates information and promotes psychiatric education.

Standardization Activities

Actively participates in development of standard classification for mental illness and the Diagnostic and Statistical Manual for Mental Disorders, published by the APA, and used throughout the world. Serves as consultant to the World Health Organization on the publication, International Classification of Diseases.

Joins with the AMA Council on Medical Education and the Residency Review Committee for Psychiatry in establishing standards for approval of residency training programs in psychiatry and is a member organization of the American Board of Psychiatry and Neurology which gives examinations to certify physicians as qualified in psychiatry. Is represented on the Professional and Technical Advisory Committees for Psychiatric Facilities, the Hospital Accreditation Program, Long Term Care Program and Ambulatory Services Care Program of the Joint Commission on Accreditation of Healthcare Organizations.

Activities are conducted through the APA Council on Medical Education; the Council on Economic Affairs and its Committees on Hospital Based/Relates Psychiatric Services; and the Council on Research and Development and its Task Force on Diagnostic and Statistical Manual IV.

Availability

Distributed directly

Formerly

Association of Medical Superintendents of American Institutions for the Insane (1892)
American Medico-Psychological Association (1921)

Keywords

psychiatry; health care; education;

AMERICAN PSYCHOANALYTIC ASSOCIATION

Helen Fischer, Administrative Director

309 East 49th Street
New York, New York 10017
(212) 752-0450

Founded: 1911

Standards Staff: 4

**Type of
Organization**

Professional Society
Standards Developer

**Standards
Development**

Standards developer since 1911
150 members actively involved in standards activities

Certification

Certification in Adult and Child and Adolescent
Psychoanalysis.
Accreditation program for training institutions.

Scope

A national membership organization of medical
psychoanalysts. Studies and advances psychoanalysis;
advocates and maintains standards for the training of
psychoanalysts and for the practice of psychoanalysis;
fosters the integration of psychoanalysis with other
branches of medicine and encourages research in all
fields having to do with the scientific knowledge and
welfare of man.

**Standardization
Activities**

Maintains Board of Professional Standards with eight
standards setting committees. Conducts site visits in
conjunction with accreditation activities of new
training facilities. Certifies graduates of accredited
Institutes.

Availability

Distributed directly

Keywords

psychoanalysis; psychology; psychiatry; education;

AMERICAN PUBLIC HEALTH ASSOCIATION

William H. McBeath, M.D., M.P.H., Executive Director

1015 15th Street NW
Washington, DC 20005

Founded: 1872

**Type of
Organization**

Professional Society
Standards Developer

Scope	Professional organization of public health officials and practitioners which seeks to protect and promote personal and environmental health. Promulgates standards, establishes uniform practices and procedures, develops etiology of communication and performs research in public health related topics.
Standardization Activities	<p>Develops standards of procedures, personnel qualifications, and practice. Publishes and updates Standard Methods for the Examination of Dairy Products; Standard Methods for the Examination of Water and Wastewater; and Standards for Healthful Housing. Publishes other works where standards are included, for example, Suggested Ordinance and Recommendations Covering Public Swimming Pools. Also publishes standard methods for the Microbiological Examination of Ambient Air. APHA is presently developing guidelines for medical experimentation on captive populations.</p> <p>Represented on various boards of the American National Standards Institute (ANSI) and cosponsors Sectional Committee A40 on Minimum Requirements for Plumbing. APHA's Committee on Professional Education has developed a series of education qualifications for public health workers, as well as standards of accreditation for schools of public health. AOSH committees also develop publications on such subjects as TB control, radiological health and chronic disease which serve as guides for practitioners, scientists, technologists, administrators, and others concerned with public health problems.</p>
Availability	Distributed directly
Formerly	Absorbed Conference on Community Health Planning
Keywords	public health; sanitation; education;

AMERICAN PUBLIC WORKS ASSOCIATION

Richard H. Sullivan, Executive Director
Rita E. Knorr, Director of Research

1313 East 60th Street
Chicago, Illinois 60637
(312) 667-2200

FAX: (312) 667-2304

Founded: 1894

Type of Organization	Professional Association Standards Developer
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Standards Development	Eleven standards None processed through ANSI
Standards Development	Developed standards are a result of a specific project and are designated by the name of the project.
Government Adoption	Local governmental agencies and manufacturers have accepted the standards on a voluntary basis.
Scope	Membership consists of all persons interested in the theory and practice of design, construction, maintenance, administration and operation of public works facilities and services. Conducts historical and current research Standards are developed through research funded by members and other interested parties. Standards are reviewed by sponsors of research studies and others impacted by the work.
Standardization Activities	Developed a standard motor equipment classification system and standards for implementation of Geo-Basic Information Systems for local governments and utilities. Participated with the U.S. Army Corps of Engineers in the adaptation of a standard Pavement Condition Index for use on streets and a standardized visual inspection for built-up roofs. The APWA Research foundation established a nonprofit organization called Instrumentation Testing Service, Inc., to develop test procedures for instrumentation used in water and waste water treatment and the conduct of laboratory evaluations of the equipment.
Availability	Sold directly
Keywords	public works; computer assisted mapping; water treatment; waste water; construction; maintenance; public buildings; inspection; management and operations; transportation; solid wastes; water resources; municipal engineering;

AMERICAN RAILWAY ENGINEERING ASSOCIATION

Louis T. Cerny, Executive Director

50 F Street, NW
Washington, DC 20001
(202) 639-2190

Founded: 1899

Standards Staff: 6

Type of Organization	Professional Society Standards Developer since 1905
Standards Development	400 recommended practices developed None processed through ANSI 24 Committees active in developing recommended practices
Standards Designation	AREA prefix; some rail sections carry only RE prefix
Government Adoption	Recommended practices are used as specifications in government contracts.
Scope	An international (the United States, Canada, and Mexico) professional association whose purpose is the advancement of knowledge pertaining to the scientific and economic location, construction, operation, and maintenance of railways.
Standardization Activities	Directed toward the principles, specifications, plans, and economics pertaining to the fixed-plant engineering, design, and construction of railways (except signals and communications), and allied services and facilities. Recommended practices are published in the AREA Bulletin for comment. Once approved for publication by the Association's Board of Directors, they appear in the Manual for Railway Engineering. Works closely with the Department of Transportation's Federal Railroad Administration and Transportation Systems Center.
Availability	Distributed directly and through IHS.
Formerly	American Railway Engineering and Maintenance of Way Association
Keywords	transportation; construction; railroads; track; railway; rails;

AMERICAN ROAD AND TRANSPORTATION BUILDERS ASSOCIATION

T. Peter Ruane, President and CEO

Eighth Floor
501 School Street, SW
Washington, DC 20024
(202) 488-2722

FAX: (202) 488-3631

Founded: 1902

Type of Organization	Trade Association Standards Developer
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Scope	<p>Fosters and encourages the full utilization of scientific and educational measures toward the accomplishment of an integrated national highway, airport, and urban public transportation system adequate to accommodate the growth and advancement of transportation necessary for the civil economy and the national defense.</p> <p>Membership includes federal, state, county and city highway engineers and administrators, as well as consulting engineers, highway contractors, producers of highway materials, manufacturers and distributors of highway machinery, and educators in civil engineering colleges and universities.</p>
Standardization Activities	<p>Committees study problems relating to highway legislation, finance, design, construction, maintenance, equipment, and operation. Efforts are directed toward development of improved standards to bring about utilization of new materials and eliminate waste and improper methods.</p> <p>Cooperates with other associations in joint activities. Publishes bulletins dealing with practical application of technical and semi-technical developments.</p>
Availability	Distributed directly
Formerly	American Road Makers (1910)
Keywords	highways; road construction; construction; transportation;

AMERICAN SOCIETY FOR ARTIFICIAL INTERNAL ORGANS

	<p>Karen Burke, Executive Director</p> <p>National Office P.O. Box C Boca Raton, Florida 33429 (407) 391-8589</p> <p>Founded: 1955</p>
Type of Organization	<p>Scientific Society</p> <p>Works through other organizations to develop standards</p>
Representation	<p>The ASAIIO Renal Disease and Detoxification Committee works in collaboration with its counterpart in AAMI. The society is also represented on the Medical Devices Standards Board of ANSI. Members are called upon to contribute to the FDA activities in medical device</p>

regulation, such as the Cardiovascular and Gastroenterology-Urology Medical Device Classification Panels. Internationally, members represent the United States on ISO/TC 150 SC2: Surgical Implants and Artificial Organs (Cardiac Valves, Pacemakers, Vascular Prostheses, Blood Gas Exchangers and Hemodialysis). Additionally, members contribute to the development of IEC document TC 62D: Hemodialysis Equipment.

Scope An organization which promotes the development and safe usage of artificial internal organs, with 1,400 members from both medical and engineering specialties. At the present time approximately two-thirds of the activities are in the fields of artificial kidneys and artificial hearts. The remainder are devoted to innovations in other areas, such as plasmapheresis and artificial organs for liver failure, diabetes mellitus and disorders of the genitourinary tract.

Standardization Members are active in the development of a voluntary medical device standards and guidelines for the user through a variety of mechanisms, including consensus symposia, investigation into the risks and hazards of medical devices, and contributions to the efforts of standards making organizations. Standards committees of the Society are appointed by the President. The Renal Diseases and Detoxification Committee meets annually; members of this committee are also members of the AAMI Committee in this field. Resulting standards are subjected to the review of processes of AAMI and ANSI.

Keywords artificial organs; health care; medical devices;

AMERICAN SOCIETY FOR ENOLOGY AND VITICULTURE

Dr. Steven Fike, Technical Projects Committee Director
P.O. Box 1855
Davis, California 95617
(916) 753-3142

Founded: 1950

Type of Organization Professional Society
Works through other organizations to develop standards

Scope A nonprofit corporation comprised of enologists, viticulturists and suppliers to the wine and grape industry, exclusively for scientific and literary purposes in enology and viticulture. Publishes the

American Journal of Enology and Viticulture which contains original research papers, short abstracts, and reviews. Sponsors scholarship awards and an annual meeting.

Standardization Activities The Technical Projects Committee develops standards specifically for NIST.

Formerly American Society of Enologists (1984)

Keywords enology; viticulture; wine; winemaking; beverages;

AMERICAN SOCIETY FOR MEDICAL TECHNOLOGY

Lynn Podell, Esq., Executive Director

2021 L Street, NW #400
Washington, DC 20036
(202) 785-3311

FAX: (202) 466-2254

Founded: 1932

Type of Organization Professional Society
Standards Developer

Scope A national professional organization composed of 20,000 members committed to providing efficient health care, quality service and accurate information/test results cost effectively to the public. Also committed to providing proper educational training to future clinicians as well as continuing education to clinical laboratory professionals/educators.

Standardization Activities Standards for day to day practice are covered in ASMT's competence assurance documents, which undergo regular review for continued relevancy; ASMT's position papers; and National Committee for Clinical Laboratory Standards (NCCLS) specifications for biology and chemistry reagents or reference materials, controls for equipment, etc.

Works with the Food and Drug Administration in conducting a pilot project for surveillance of products used in clinical laboratories.

A member of the Medical Device Technical Advisory Board of the American National Standards Institute.

Cooperates with NCCLS and the International Association of Medical Laboratory Technologists in the development of international standards.

Availability Distributed directly

Formerly American Society of Medical Technologists (prior to 1972)
American Society of Chemical Laboratory Technicians (1936)

Keywords medical; medical technology; testing; laboratory equipment;

AMERICAN SOCIETY FOR NONDESTRUCTIVE TESTING

Ronald H. Selner, Manager, Technical Services

4153 Arlingate Plaza
Caller #28518
Columbus, Ohio 43228
(614) 274-6003

Founded: 1941

Type of Organization Technical Society
Develops Recommended Practices

Certification Level III Examinations are offered in radiography, ultrasonics, eddy current, leak testing, neutron radiography, magnetic particle, liquid penetrant, and acoustic emission examinations. Personnel certification requirements are detailed in publication SNT-TC-1A.

Scope A nonprofit organization devoted exclusively to nondestructive testing.

Standardization Activities Helps develop and review codes and standards for the inspection of conventional and nuclear power plants, marine, transportation and aviation industry products. Through its volunteer members, liaison is maintained with many governmental bodies and standards organizations such as ASME, ASTM, ASM, ABS, NRC, ANSI, and ISO.

Availability Sold directly and through IHS.

Keywords nondestructive testing; radiography; ultrasonics; leak testing; magnetic particle; eddy current; liquid penetrant; acoustic emission; laboratory testing; quality assurance; neutron radiography;

AMERICAN SOCIETY FOR PHOTOGRAMMETRY AND REMOTE SENSING

William D. French, CAE, Executive Director

5410 Grosvenor Lane
Suite 210
Bethesda, Maryland 20814
(310) 493-0290 FAX: (301) 493-0208

Founded: 1934

Type of Organization

Technical Society
Standards Developer since 1939

Standards Designation

ASPRS prefix

Government Adoption

Map accuracy standards adopted by the Office of Management and Budget for use by government agencies such as Geological Survey, National Ocean Survey, Defense Mapping Agency, Forest Service, Federal Highway Administration.

Certification

Active voluntary program awarding qualified individuals title of "Certified Photogrammetrist."

Scope

Primarily concerned with the art, science, and technology of measuring and interpreting photographic and remote-sensor images. Scope of interest includes the fields of aerial photography, photogrammetric surveys, photographic interpretation, remote sensing, and Geographic Information Systems (GIS). Publishes a monthly journal, devoted to new developments, equipment, techniques, and applications in these areas.

Standardization Activities

Developed nomenclature for photogrammetry and remote sensing standards. Developing standards for large scale photogrammetric mapping. Publishes manuals which are generally accepted as standards of reference including the Manual of Photogrammetry, the Manual of Photographic Interpretation, the Manual of Color Aerial Photography, and the Manual of Remote Sensing. Maintains Committees on specifications and standards and also nomenclature. Contributes to programs aimed at the standardization of definitions and terminology. Actively participates in the work of the International Society for Photogrammetry and Remote Sensing.

Availability

Sold directly

Formerly

American Society of Photogrammetry (1985)

Keywords	photogrammetry; remote sensing; aerial photography; mapping; surveying; geographic information systems; land information systems;
 <u>AMERICAN SOCIETY FOR QUALITY CONTROL</u>	
	Paul E. Borawski, Executive Director
	310 West Wisconsin Avenue Milwaukee, Wisconsin 53203 (414) 272-8575 FAX: (414) 272-1734
	Founded: 1946 Standards Staff: 1
Type of Organization	Technical Society/Professional Society Standards Developer
Standards Development	Standards developer since 1947 12 existing projects All processed through ANSI Draft standards available for review 19 active standards
Standards Designation	ANSI/ASQC prefix
Secretariats	ANSI Z-1 Committee on Quality Assurance U.S. TAG for ISO/TC 69 on Statistical Methods, TC 176 on Quality Management and Quality Assurance; and Subcommittee 1 of ISO/TC 69 on Statistical Methods
Scope	Advances the theory and practice of quality. Creates, promotes, and stimulates interest in the advancement and diffusion of knowledge of the science of quality and of its application to manufacturing and service industries.
Standardization Activities	Maintains a Standards Council which directs and coordinates national and international standards activities.
Availability	Distributed directly and through IHS, Global, and ANSI.
Keywords	quality control; quality assurance; sampling; inspection; quality systems; quality management;

AMERICAN SOCIETY FOR TESTING AND MATERIALS

Joseph O'Grady, President

1916 Race Street
Philadelphia, Pennsylvania 19103
(215) 299-5400 Telex: 710-670-1037/ASTM PHA
FAX: (215) 977-9679

Founded: 1898

Standards Staff: 200

Type of Organization

Technical Society
Standards Developer

Standards Development

8,500 active standards
Metric Equivalency Required
32,000 members, including 4,000 international
135 Technical Committees
Any interested party may participate

Standards Designation

ASTM

Government Adoption

The Department of Defense has adopted 2,000 standards. Local building codes reference 600. The following agencies also have adopted ASTM Standards: General Services Administration, Public Building Service; Department of Veterans Affairs; Environmental Protection Agency; Food and Drug Administration; Occupational Safety and Health Administration; National Institute of Occupational Health and Safety; Department of Energy; Department of Housing and Urban Development; Department of Agriculture; and Department of Transportation.

Certification

No certification, qualification, or accreditation programs

Scope

A nonprofit organization formed to develop standards on characteristics and performance of materials, products, systems, and services; and to promote related knowledge. Standards include classifications, guides, practices, specifications, terminology, and test methods.

Standardization Activities

Standards cover iron and steel products; nonferrous metal products; metal test methods and analytical procedures; construction; petroleum products; lubricants and fossil fuels; paints; related coatings, and aromatics; textiles; plastics; rubber; electrical insulation and electronics; water and environmental technology; nuclear, solar, and geothermal energy;

medical devices; general methods and instrumentation, general products, chemical specialties, and end use products.

Standard developed by the Society's committees are published in the 68 volume Annual Book of ASTM Standards. Hundreds of technical papers and reports presented at ASTM symposia and meetings are published in Special Technical Publications, the Society's monthly magazine "Standardization News," and in quarterly publications. All are distributed worldwide.

ASTM standards are developed by those having expertise in the specific areas who choose, voluntarily, to work with the ASTM system-producers, users, ultimate consumers, and representatives of government and academia. ASTM provides a forum within which these people can meet on a common ground to write standards that will best meet the needs of all the interested parties. The ASTM system adheres to the principles of due process, assuring equal access to and equal voice in the standards forum.

Draft standard undergo an exhaustive balloting process from the subcommittee, to main committee, and to the entire Society -- with careful attention paid to minority opinions at each balloting level -- before they are published as official ASTM standards.

Availability

Distributed directly and through IHS, Global, and NSA

Keywords

materials; products; systems; services; testing; concrete; building; textiles; machinery; office products; electrical equipment; safety; defense environment; public health; medical devices; laboratory equipment; consumer products; industrial equipment; general;

AMERICAN SOCIETY OF AGRICULTURAL ENGINEERS

Russell H. Hahn, Director of Standards
and Technical Services

2950 Niles Road
St. Joseph, Michigan 49085
(616) 429-0300

Founded: 1907

Standards Staff: 3

Type of Organization

Technical Society
Standards Developer

Standards Development	Standards developer since 1909 145 technical committees and subcommittees active or potentially active in standards development 189 standards, engineering practices, and data, most with dual SI-customary units Accredited by ANSI; 34 standards approved by ANSI
Standards Designation	S, Standard; EP, Engineering Practice; D, Data
Government Adoption	OSHA regulations for agricultural equipment are based on ASAE standards, but ASAE standards have not been formally adopted by the government.
Certification	No certification, qualification, or accreditation programs.
Scope	Professional and technical organization of members worldwide who are interested in engineering knowledge and technology for agriculture, associated industries and related resources. Develops engineering standards used in agriculture. Sponsors international technical meetings and continuing education programs.
Standardization Activities	<p>Develops voluntary standards for agricultural equipment systems, facilities, and processes. Standards cover technical areas within the six ASAE technical divisions/institutes: Emerging Technologies, Electrical and Electronic Systems, Food and Process Engineering, Power and Machinery, Soil and Water, and Structures and Environment. Standards considered national in scope and used for numerous international standardization proposals. ASAE's cooperative Standards Program encompasses the development, adoption, publication, distribution, and maintenance of needed voluntary standards for industry and the consumer in agriculture.</p> <p>Maintains liaison with other technical societies such as ASHS, AFGC, ASME, ASHRAE, ASTM, IEEE, SAE, and ANSI. ASAE participates in U.S. Technical Advisory Groups for ISO/TC 23, Agricultural Tractors and Machinery; ISO/TC 31 Tires, Rims, and Valves; and ISO/TC 131 Fluid Power Systems and Components.</p>
Availability	Available directly and through IHS and Global
Keywords	agriculture; irrigation; structures; drainage; livestock; grain; machinery; safety; food processing; electronic; environmental; electric; farmstead equipment;

AMERICAN SOCIETY OF ANESTHESIOLOGISTS

Glenn W. Johnson, Executive Director

515 Busse Highway
Park Ridge, Illinois 60068
(312) 825-5586

Founded: 1905

Type of Organization	Professional Society Works through other organizations to develop standards
Representation	Individual members participate in standardization activities of ANSI, ASTM, ISO, and NFPA.
Scope	A national medical society composed of over 26,000 members, most of whom are physicians specializing in the practice of the medical specialty of anesthesiology. Among its purposes is to "raise the standards of the specialty by fostering and encouraging education, research and scientific progress in anesthesiology" and to disseminate information concerning the specialty.
Standardization Activities	<p>The society works within the voluntary standards system to present the views of anesthesiologists on matters relating to the agents, devices, and facilities they use in their practices. Its Committee on Equipment and Standards deals with mechanical, electrical, and structural matters as they relate to anesthesiology. This committee is charged with the duties of representing the society in activities related to standards development and supervising and coordinating liaison activities to organizations such as ANSI, ASTM, ISO, NFPA, and other professional and technical bodies in the medical field.</p> <p>The committee on Equipment and Standards maintains liaison with the standardization work of other professional and technical bodies in the medical field. While previously active in ANSI Committee Z79, Standards for Anesthesia and Respiratory Equipment, ASA currently participates in ASTM Committee F29.</p>
Formerly	Long Island Society of Anesthetists (1911) New York Society of Anesthetists (1936) American Society of Anesthetists (1945)
Keywords	anesthesia; respiratory equipment; medical; medical devices;

AMERICAN SOCIETY OF BREWING CHEMISTS

Raymond J. Tarleton

3340 Pilot Knob Road
St. Paul, Minnesota 55121
(612) 454-7250

Founded: 1934

**Type of
Organization**

Professional Society
Standards Developer

**Standards
Development**

200 standard methods of analysis

**Standards
Designations**

ASBC Method

Certification

Check Sample services provide the opportunity for subscribing laboratories to check their analytical accuracy on a periodic basis. For each service, a statistical summary of the analytical data is provided for use as an internal check. Check Sample services include Malt Analysis, Cereal Adjunct, Beer Analysis, and Hop Analysis. Another service available is Malt for Standardizing Mills. Standards malt is used to insure reliable milling and grinding samples for industry-wide analysis. The Soluble Starch service provides a special starch product available only to ASBC members, and is lot-checked by ASBC.

Scope

750 members worldwide engaged in all aspects of brewing. Maintains high professional standards; conducts, promotes, and encourages scientific research in brewing and related industries; studies, develops, and adopts uniform methods for the analysis of raw materials, supplies, and products; holds meetings and disseminates technical knowledge.

**Standardization
Activities**

Publishes ASBC Methods of Analysis which contain 200 official ASBC methods relating to brewing chemistry. Also has available Tables for Extract in Malt and Cereals, and Tables related to Wort, Beer, Brewing Sugars and Syrups.

Availability

Sold directly

Keywords

beer; beverages; testing;

AMERICAN SOCIETY OF CINEMATOGRAPHERS

Dan Ross, Chief Executive Officer

1782 North Orange Drive
Hollywood, California 90028
(213) 876-5080

Founded: 1919

Standards Staff: 1

**Type of
Organization**

Professional Society
Standards Developer

Scope

Professional directors of motion picture and television photography and others affiliated with cinematography.

**Standardization
Activities**

Offers recommendations to the Engineering Committee of the Society of Motion Picture and Television Engineers. Processes standards through ANSI PH22. Publishes the American Cinematographer Manual which lists standards.

Availability

Distributed directly

Keywords

cinematography; photography;

AMERICAN SOCIETY OF CIVIL ENGINEERS

Edwin Jones, Director, Codes and Standards

345 East 47th Street
New York, New York 10017
(212) 705-7252

Founded: 1852

Standards Staff: 1

**Type of
Organization**

Technical Society
Standards Developer

**Standards
Development**

Standards developer form 1875-1895 and 1974-present
600 members and non-members participating in standards activities

**Standards
Designation**

ASCE prefix

Certification

No certification, qualification, or accreditation programs

Scope

A 105,000 member organization for civil engineers in the United States dedicated to the civil engineering profession, offering opportunities for individual

professional development and providing a forum for communication between individuals and groups involved in the practice of civil engineering.

**Standardization
Activities**

Maintains activities in the following areas: Composite Deck Slab Standards; Steel Deck and Concrete Diaphragm Standard; Pile Foundation Standard; Drilled Shafts Standard; Temporary Excavations, Construction Dewatering and Underpinning Standard; Soil Exploration Standard; Shallow Foundations Standard; Design and Analysis of Nuclear Safety Related Earth Structures Standard; Seismic Analysis of Safety Related Nuclear Structures Standard; Oxygen Transfer Standard; Structural Applications of Steel Cables for Buildings Standard; Structural Condition Assessment of Existing Buildings Standard; Transmission Structure Foundation Design Standard; Minimum Design Loads for Buildings and Other Structures Standard (formerly ANSI A58.1); Masonry Structures Standards (joint with American Concrete Institute) Urban Subsurface Drainage Standards; Design of Steel Transmission Towers Standard; Inspection of Small Dams Standard; Permanent Railing Systems Standards; Stainless Steel Cold-Formed Sections Standards; Design of Air Supported Structures Standard; Design Loads on Structures During Construction Standard; Design of Engineered Wood Construction Standard; Design of Structures for Fire Protection Standard; Guidelines for Artificial Ground Water Recharge Standard. Technical and Task Committees seek to advance knowledge in specific engineering areas, focusing on relevant problems and concerns, by publishing standards, manuals, guides, reports, proceedings, and by conducting conferences and workshops.

**Availability
Keywords**

Distributed directly and through ANSI, Global, and IHS civil engineering; decks; slabs; structures; oxygen transfer; foundations; nuclear safety; building; construction;

AMERICAN SOCIETY OF ELECTROPLATED PLASTICS

David W. Barrack, Executive Director

1101 14th Street, NW
Suite 1100
Washington, DC 20005
(202) 371-1323

Founded: 1966

**Type of
Organization**

Trade Association
Standards Developer

Standards Development	Standards Developer since 1967 ASTM approved
Standards Designations	ASEP prefix
Scope	A nonprofit organization devoted to improving the efficiency of its industry and to promoting the use of electroplated plastics, with a domestic and foreign membership of 80 companies.
Standardization Activities	Cooperates with ASTM in developing specifications which include parts design; mold design; substrate fabrication requisites; plastic product qualification; test procedures and standards (including standard test panel, adhesion, corrosion, thermal cycling, and appearance); performance capabilities (including substrate, plate construction, and proven applications); handling of molded parts for plating; and industry terms. Publishes Standards and Guidelines which include these standards.
Availability	Distributed directly
Keywords	plastics; electroplated plastics; manufacturing; materials;

AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS

	Jim L. Heldenbrand, Manager of Standards
	1791 Tullie Circle NE Atlanta, Georgia 30329 (404) 636-8400
	Founded: 1894
	Standards Staff: 6
Type of Organization	Technical Society Standards Developer
Standards Development	Standards developer since 1959 Over 400 members and non-members participating in standards activities Most standard processed through ANSI Draft standards available for review 69 active standards
Standards Designation	ASHRAE prefix

Government Adoption	ASHRAE Standard 90, Energy Conservation in New Building Design, serves as the basis for building code provisions in 47 states.
Certification	No certification, qualification, or accreditation programs
Secretariats	U.S. Technical Advisory Group for ISO/TC 8.6, Refrigeration ISO/TC 86, Subcommittees 1, Safety; 6, Factory Assembled Units; and 8, Refrigerants and Lubricants ISO/TC 117, Subcommittee 2, Industrial Fans ISO/TC 144, Subcommittee 1, Air Distribution and Diffusion
Scope	An international membership organization operated for the exclusive purpose of advancing the arts and sciences of heating, refrigeration, air conditioning and ventilation, the allied arts and sciences, and related human factors for the benefit of the public.
Standardization Activities	Assists industry and the public by offering a uniform method of testing for rating purposes, and by suggesting safe practices in designating and installing equipment, by providing proper definitions of this equipment and by providing other information which may serve to guide the industry. Creation of standards is determined by need, and conformance to them is completely voluntary. Maintains 60 active standards committees, supported by a staff organization administered by the Manager of Standards. Continuously promulgates new standards and reviews current standards to reflect technical advances in the field. A series of standards pertaining to energy conservation in existing building is in preparation. Other standards specify methods of testing for rating equipment, ventilation levels for indoor air quality, and conditions for indoor comfort.
Availability	Sold directly and through ANSI, IHS, and Global
Formerly	Merger of American Society of Heating and Air-Conditioning Engineers and the American Society of Refrigerating Engineers (1959)
Keywords	heating; refrigeration; air conditioning; ventilation; energy conservation; environmental quality; construction; building;

AMERICAN SOCIETY OF MECHANICAL ENGINEERS

Melvin R. Green, Associate Executive Director,
Codes and Standards

345 East 47th Street
New York, New York 10017
(212) 705-7822 Telex: 710-581-5267

Founded: 1880 Standards Staff: 74

Type of Organization

Technical Society
Standards Developer

Standards Development

600 active standards
Nearly all processed through ANSI
More than 120 standards committees and 6,000
individuals develop and maintain these standards.

Government Adoption

120 standards have been adopted by the Department of
Defense (DoD). Many others have been adopted by the
Coast Guard and one by the Nuclear Regulatory
Commission. The Boiler and Pressure Vessel Code has
been widely adopted by responsible state and provincial
agencies in the U.S. and Canada.

Certification

ASME operates accreditation programs in connection with
its activity for boilers and boiler code pressure
vessels, for nuclear plant components, and safety and
pollution prevention equipment used in offshore oil and
gas operations. The society authorizes manufacturers
to apply ASME Code Symbol Stamps to their product,
indicating compliance with the respective code or
standard. The society also administers Certification
Programs relating to Elevator Inspections and Resource
Recovery Facility Operators.

Scope

An educational and scientific society organized to
promote the art and science of mechanical engineering
and the allied arts and sciences; encourage original
research; foster engineering; promote the exchange of
information of engineers among themselves and with
allied technologists; broaden the usefulness of the
engineering profession in cooperation with other
engineering and technical societies; and promote a high
level of ethical practice.

Standardization Activities

Standards development is an important part of the
society's activity to promote the art and science of
mechanical engineering. The ASME Council on Codes and
Standards supervises the standardization activities of
the society under the authority delegated to it by the
ASME Board of Governors. Standards are developed under
ANSI Accredited Organization Procedures. Documents

presented to the Society under the ANSI Canvass Method, Where ASME has a Standards Committee whose scope covers that of the proposed standard, are reviewed by the appropriate committee.

Participates actively in international standardization through its sponsorship of ASME Committees, which serve as the USA Technical Advisory Groups for the International Organization for Standardization (ISO) and the International Electrotechnical Commission (IEC).

The Boiler and Pressure Vessel Code is ASME's most widely recognized standards publication. It is a definitive compilation of safety and performance requirements for power and heating boilers, nuclear reactors and power plants, as well as pressure vessels. The Performance Test Codes define accepted methods of determining performance and efficiency for a wide range of equipment and systems, from safety valves and gas turbines to fuels, incinerators, and centrifugal pumps. Many other fields have benefitted from ASME standards and codes. These include drafting practices and symbols, screw threads, bolts, nuts, rivets, and other fasteners in conventional and metric measure; machine tools, cutters and accessories; valves, pipe fittings, and plumbing fixtures; cranes, conveyors, and related equipment; and safety codes for elevators and escalators.

Availability Distributed directly and through ANSI, IHS, Global, and NSA

Keywords abbreviations; accreditation; boiler code; cranes; drafting practices; elevators; fasteners; freight containers; hand tools; industrial trucks; machine tools; machinery; nuclear; mechanical; plumbing; pollution prevention; pressure piping; pressure vessels; qualification; quality assurance; safety; solar energy; industrial equipment; valves;

AMERICAN SOCIETY OF PLUMBING ENGINEERS

John S. Shaw, CAE, Executive Director

3617 Thousand Oaks Boulevard
#210
Westlake, California 91362
(805) 495-7120

Founded: 1964

Type of Organization Technical Society
Works through other organizations to develop standards

Representation	National Standards Plumbing Code Committee of the National Association of Plumbing-Heating-Cooling Contractors, the American National Standards Institute (ANSI), the American National Standards Committee A40, International Association of Plumbing and Mechanical Officials (IAPMO), Southern Building Code Congress, International (SBCCI), and the American Society of Sanitary Engineers (ASSE), and on local code and administrative authorities.
Scope	A nonprofit professional technical society organized to elevate the field of plumbing to professional status. The only international organization devoted exclusively to the interests and concerns of plumbing engineering.
Standardization Activities	<p>Although ASPE does not publish standards, it is engaged in the important work of advising builders, architects, and property owners in the value, to them and to their projects, of well conceived, carefully prepared plumbing drawings and clear, concise specifications.</p> <p>ASPE's code committee examines all regulatory codes pertaining to the plumbing industry; submits proposed revisions or clarifications of codes to code writing authorities in an effort to simplify, standardize, and modernize all codes; and offers advisory services to other organizations or to governmental agencies involved in writing or enacting codes.</p>
Keywords	plumbing; codes; sanitation; building;

AMERICAN SOCIETY OF SAFETY ENGINEERS

Thomas F. Bresnahan, Director, Technical Services

1800 East Oakton Street
Des Plaines, Illinois 60018-2187

(312) 692-4121

Founded: 1911

Type of Organization	Professional Society Standards Developer and works through other organizations to develop standards
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Secretariats	ANSI Z87, Eye Protection; Z117, Confined Spaces; Z359, Fall Protection Equipment; A12/64, Workplace, Railings and Stairways
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Scope	Composed of 23,000 career safety specialists organized to enhance the status and promote the advancement of all safety disciplines; foster the technical, scientific and managerial knowledge and skills of all safety and health professionals; and support the technical, social, and economic well-being of all safety practitioners.
Standardization Activities	The ASSE currently serves as secretariat to four ASSE accredited national standards committees for Eye Protection (Z87), Confined Spaces (Z117), Workplace, railings and stairways (A12/64), and Fall Protection Equipment (Z359). In addition, the Society appoints its safety professionals to various ANSI, NFPA, and other national standards writing organizations. It also participates on other standards making committees of other organizations where representation of the profession is appropriate. Recommendations of society members are offered to various governmental agencies when establishing advisory standards committees.
Formerly	Absorbed the United Association of Casualty Inspectors (1914)
Keywords	safety; safety engineering;

AMERICAN SOCIETY OF SANITARY ENGINEERING

	Gael H. Dunn, Executive Secretary
	P.O. Box 40362 Bay Village, Ohio 44140 (216) 835-3040
	Founded: 1906
Type of Organization	Technical Society Standards Developer
Standards Development	34 active standards Standards submitted for ANSI approval
Standards Designation	ASSE prefix
Government Adoption	Standards are referenced by a large number of government agencies.
Certification	ASSE Seal Program
Scope	Plumbers, contractors, apprentices, journeymen, inspectors, engineers, health officials, and

manufacturers interested in promoting public health and sanitation. Conducts research on plumbing and sanitation.

Standardization Activities Develops performance standards for plumbing system components. Standards provide a tool for measuring quality and effectiveness of a product. Products meeting these standards are identified by the ASSE Seal. Components of plumbing systems include backflow prevention devices, pressure regulators, water hammer arresters, water mixing and shower control valves, anti-siphon hydrants, and other devices which directly affect public health and safety.

Availability Distributed directly and through IHS

Formerly American Society of Inspectors of Plumbing and Sanitary Engineering

Keywords plumbing; construction; sanitation; public health;

AMERICAN SOD PRODUCERS ASSOCIATION

Douglas H. Fender, CAE, Executive Director

1855-A Hicks Road
Rolling Meadows, Illinois 60008
(708) 705-9898 FAX: (708) 705-8347

Founded: 1967

Type of Organization Trade Association
Standards Developer

Scope Objectives are to promote efficient and economical production of sod; to develop standards in the industry; to promote the production of better quality sod and its proper use; and to increase public awareness of the industry.

Standardization Activities Developed national guideline specifications for sodding. Through use of sod specification, assistance has been provided to various state and federal agencies, architects, landscape architects, contractors, and a wide variety of professional turf grass managers.

Availability Distributed directly

Keywords sod; seed; turf; grass; agriculture;

AMERICAN SOYBEAN ASSOCIATION

Kenneth L. Bader, Chief Executive Officer

P.O. Box 27300
St. Louis, Missouri 63141
(314) 432-1600 Telex: (23) 7407716

Founded: 1920

Type of Organization	Trade Association Works through other organizations to develop standards
Representation	Grain Standards Division, Foreign Agricultural Service, and Federal Grain Inspection Service of USDA
Scope	A nonprofit, soybean producer-owned trade association organized to expand markets for soybeans and soybean products overseas.
Standardization Activities	Works with NOPA, AFMA, AAFCO, and AOCS in monitoring standards, specifications and trading rules for soybeans, soybean meal, and soybean oil, both for domestic sale and sale into the export markets.
Keywords	soybean; agriculture;

AMERICAN SPEECH-LANGUAGE AND HEARING ASSOCIATION

Stan Dublinski, Ed.D., Director
Professional Practices Department

10801 Rockville Pike
Rockville, Maryland 20852
(301) 897-5700

Founded: 1925

Standards Staff: 6

Type of Organization	Professional Society Standards Developer
Certification	ASHA is the accrediting agency for college and university programs offering master's degrees in speech-language pathology and audiology and for programs offering clinical services in speech-language pathology and audiology to the public.
Scope	A national professional and scientific association representing over 60,000 speech-language pathologists and audiologists engaged in research, teaching, and clinical activities concerned with communication behavior and disorders. Maintains high standards of clinical competence for professionals providing

services to the public; encourages the development of comprehensive clinical service programs; promotes investigation of human communication and its disorders; and stimulates exchange of information about human communication.

**Standardization
Activities**

Directed toward assuring quality of the speech-language pathology and audiology services provided to communicatively impaired persons. Develops standards for appropriate education and training of speech-language pathologists and audiologists. Accredits professional clinical service programs in speech-language pathology and audiology which meet criteria on organizational structure, quality service with functional, measurable outcomes, personnel, records, physical plant and equipment, community relations, and program evaluation. Incorporates ANSI standards on electroacoustic measurements of hearing aids; on permissible ambient noise during audiometric testing; and on calibration of audiometric equipment into Professional Services Board (PSB) clinical accreditation standards.

Maintains council on Professional standards which establishes and monitors all standards programs related to certification, continuing education, education and training, and professional services. Reviews and comments on standards proposed by ANSI that pertain to electro- and bioacoustic characteristics of audiometric equipment, hearing aids, and environments for hearing testing.

Standards are recognized by the Council of Postsecondary Accreditation, U.S. Department of Education, Joint Commission on Accreditation of Health Organizations, National Easter Seal Society, Council of State Administrators of Vocational rehabilitation and Commission on Accreditation of Rehabilitation Facilities.

Availability

Distributed directly

Formerly

American Speech & Hearing Association (1978)

Keywords

speech, language; audiology; hearing; acoustics; communication disorders; hearing aids; health; education; research;

AMERICAN SPICE TRADE ASSOCIATION

Thomas F. Burns, Executive Vice President

580 Sylvan Avenue
P.O. Box 1267
Englewood Cliffs, New Jersey 07632
(201) 568-2163

Founded: 1907

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Designation**

Official methods

Scope

Importers, grinders, and distributors of spices, oleo resins, and dehydrated vegetable seasonings.

**Standardization
Activities**

Maintains a Standards Committee whose function is to adopt standards of quality for whole spices, seeds, and herbs imported at American ports of entry. Also, through the ASTA's Research Committee, in cooperation with RESEARCH 900, developed the values of the base nutrient composition of spices including ash, fat, fiber, moisture, protein, calories, and vitamin content. Cooperated with the Wisconsin Alumni Research Foundation to develop the content of twenty-one mineral elements in spices.

Developed a publication, Official Analytical Methods, for Analyzing spices. Also developed a publication, Official Microbiological Methods, which aims to designate official methods for the detection and enumeration of microorganisms occurring on spices, seeds, and herbs and to provide helpful information and guidelines to those responsible for the assessment of microbiological quality of spices and seasonings.

Keywords

spice; herb; food;

AMERICAN STATISTICAL ASSOCIATION

Barbara A. Bailar, Executive Director

1429 Duke Street
Alexandria, Virginia 22314
(703) 684-1221

Founded: 1839

Type of Organization	Scientific/Professional Society Works through other organizations to develop standards
Representation	ASTM, ANSI, ISO
Scope	Composed of persons interested in applied or theoretical statistics. Through the Association, members mutually help each other with the exchange of professional knowledge and the reporting of new developments, insuring that statistical techniques discovered in one field are made known to workers in others. Includes users of statistics in business and industry, finance, agriculture, biology, medicine and public health; in virtually all specialized fields of science, education, engineering, economics, sociology, and demography; and in clinical statistics, military science, pharmacology, nutrition, public opinion polling, market analysis, psychometrics, biometrics, mathematical statistics, quality control, operations research, and many other fields.
Standardization Activities	While ASA does not set or promulgate official standards it does work to improve standards in statistical presentation. This is accomplished by participating in the development of American National Standards and ASTM standards for analyzing test data, assessment of normality and related subjects. Reviews and comments on ISO draft standards dealing with statistics.
Keywords	statistics; biometrics; biopharmaceutical; business; economics; testing; quality assurance; data processing;

AMERICAN TEXTILE MACHINERY ASSOCIATION

Harry W. Buzzerd, Executive Vice President

7297 Lee Highway
Suite N
Falls Church, Virginia 22042
(703) 533-9251

Founded: 1933

Type of Organization	Trade Association Standards Developer
Scope	A nonprofit, trade association devoted to the advancement of U.S. based manufacturers of textile machinery, ancillary equipment and parts. Major activities include government affairs, market development, technical services, and educational programs.

Standardization Activities	Develops criteria to help overcome industry problems; issued criteria for dust and noise measurement. Provides guidelines for innovative machinery technology. Worked with ANSI to develop the Safety and Health Standards for the Textile Industry.
Availability	Distributed directly
Keywords	textile machinery; safety;

AMERICAN THORACIC SOCIETY

Marilyn T. Hansen, Executive Director

1740 Broadway, 16th Floor
 New York, New York 10019-4394
 (212) 315-8778 FAX: (212) 765-7876

Founded: 1905

Type of Organization	Professional Society Standards Developer
Standards Development	Standards developed in areas of pulmonary medicine, environmental health, infectious disease control, respiratory therapy, and medical devices. Standards not processed through ANSI. Draft standards available for review to members.
Government Adoption	Standards related to the treatment and control of tuberculosis are developed jointly with the Centers for Disease Control of the U.S. Public Health Service.
Certification	No certification or accreditation programs.
Scope	A professional society dedicated to the prevention and control of lung disease, and works to provide optimal health care services for individuals with lung disease. Emphasizes research and professional education. Serves as the medical section of the American Lung Association. Provides a forum for review of issues related to all aspects of lung health and the development of programs for the control of lung disease. Functions on a national level through cooperation with federal agencies and national voluntary health organizations.
Standardization Activities	Develops standards and classifications for tuberculosis and other respiratory diseases. Provides standards for spirometers which are adhered to by all product manufacturers. Standards developed by the Society are incorporated into accreditation programs for health care institutions. Maintains close liaison with

various government agencies primarily the Department of Health and Human Services. Acts as an advisor to federal agencies in their development of regulations and standards.

Availability Distributed directly and through state and local affiliates of the American Lung Association.

Formerly National Tuberculosis Association/American Trudeau Society (1960)

Keywords pulmonary; tuberculosis; medical devices; spirometry; lung disease; public health; health care;

AMERICAN VACUUM SOCIETY

Marion Churchill, Meetings and Office Manager

335 East 45th Street
New York, New York 10017
(212) 661-9404

Founded: 1953

Type of Organization Scientific Society
Standards Developer

Standards Development 26 tentative standards
None processed through ANSI
Future standards to be offered for outside review

Standards Designation AVS prefix

Scope Scientists, engineers, and others interested in vacuum technology. Promotes education and research.

Standardization Activities Establishes standards for nomenclature, measuring techniques and such items as flanges and fittings on vacuum equipment. Standards drafted and reviewed under the auspices of the AVS Standards Committee.

Availability Distributed directly

Keywords vacuum technology; industrial equipment; flanges; leak detection;

AMERICAN WALNUT ASSOCIATION

Larry R. Frye, Executive Director

5603 West Raymond
Suite O
Indianapolis, Indiana 46241
(317) 244-3311

Founded: 1914

Type of Organization	Trade Association Works through other organizations to develop standards
Standardization Activities	Cooperates in the development of grade rules for walnut lumber which are published by the National Hardwood Lumber Association. These grade rules are in general use both in the United States and foreign countries.
Formerly	Fine Hardwoods Association (1971)
Keywords	wood; hardwood; timber;

AMERICAN WATCHMAKERS INSTITUTE

Michael P. Danner, Administrative Director

P.O. Box 11011
Cincinnati, Ohio 45211
(513) 661-3838

Founded: 1960

Type of Organization	Technical Society Standards Developer
Certification	Program includes examinations for certified watchmakers and master certified watchmakers. Also participates in state licensing.
Scope	A nonprofit corporation dedicated to the advancement of horology. Six thousand watchmakers and others who sell, service, or collect horological items. Activities include technical bulletins, a certification program, professional seminars, a monthly magazine, technical library, lending library and museum.
Standardization Activities	Involved in standards of craftsmanship through the dissemination of technical bulletins, and certification examinations. Aims to standardize the technical teaching techniques in the United States through its Education committee which operates through the schools.

Participated in the American National Standards Institute's program on the Standardization of Corundum Bearings in Horology, reviewed standards on chronometers for the U.S. Army, and reviewed railroad time standards for the National Institute of Standards and Technology. Worked with the British Horological Society to determine the proper placement of jewels in a 17 jewel watch.

Availability Distributed directly

Formerly Merger of Horological Institute of America and the United Horological Association of America.

Keywords horology; watchmaking; instruments;

AMERICAN WATER WORKS ASSOCIATION

Robert R. Lamson, Director, Standards

6666 West Quincy Avenue
Denver, Colorado 80235
(303) 794-7711

Telex: 450895 AWWA DVR
FAX: (303) 794-7310

Founded: 1881

Standards Staff: 7

Type of Organization Scientific Society
Standards Developer

Standards Development Standards developer since 1890
102 active voluntary consensus standards
All processed through ANSI
22 standards under development
1,100 members active in standards activities

Standards Designations AWWA or ANSI prefixes

Government Adoption The Department of Defense (DoD) has adopted 16 AWWA standards.

Secretariats U.S. TAG for ISO/TC 5/SC2, Cast Iron and Ductile Iron Pipe

Scope Represents its 48,000 members in all areas concerning water supply. 2,000 volunteers participate in the development of technical documents. Holds three annual conferences as well as other special conferences each year. Publishes a monthly technical journal, news magazine, and publication for water system operating personnel.

Standardization Activities	<p>Develops standards for a variety of pipe, fittings, valves, wells, pumps, water treatment chemicals, water storage tanks, water meters, and procedures for installation and use of these products. Solicits both membership and public approval in formulating standards. Use of standards is voluntary.</p> <p>Standard Methods for the Examination of Water and Wastewater, a compilation of 190 laboratory tests, is published jointly by AWWA, The American Public Health Association and the Water Pollution Control Federation. Developed ANSI standards A21.52 (Standard for Ductile Iron Pipe) and A21.14 (Fittings) - these were published by the American Gas Association (AGA).</p> <p>Participates in ISO/TC 5/SC2, Cast Iron and Ductile Iron Pipe, and ISO/TC 30/SC7, Water Meters.</p>
Availability	Distributed directly and through NSA, IHS, Global, and DIALORDER on DIALOG Information Services (File 245)
Keywords	water; pipe; valves; fittings; wells; pumps; tanks; water treatment chemicals; sanitation; reservoirs; construction; public health; meters;

AMERICAN WELDING SOCIETY

Dr. H. Glenn Ziegenfuss, Technical Director

550 NW LeJeune Road
P.O. Box 351040
Miami, Florida 33135
(305) 443-9353

Telex: AMWELD SOC. No.51-9245
FAX: (305) 443-7559

Founded: 1919

Standards Staff: 16

Type of Organization

Technical Society
Standards Developer

Standards Development

Developing welding standards since 1928
1,200 members participating in standards activities, including representation on 37 standards committees of ANSI, NFPA, AWWA, API, ASME, ASTM, and others
120 active standards

Standards Designations

AWS, ANSI/AWS, AWS/SAE, AWS/AWWA, or AWS/AASHTO prefixes

Government Adoption

The Department of Defense has adopted 24 AWS filler metal specifications and four other standards.

Secretariats	<p>American Council of the International Institute of Welding (IIW)</p> <p>ANSI Z49, Safety in Welding and Cutting</p> <p>Sponsor US TAG for ISO/TC 44, Welding and Allied Processes</p> <p>Sponsor US TAG for ISO/TC 26, Electric Welding</p>
Scope	<p>Founded to advance the science and technology of welding. Prepares standards such as codes, specifications, recommended practices, and technical reports. Holds symposiums and technical meetings. Cooperates with other organizations in the preparation and review of welding standards. Active in the International Institute of Welding and the ISO Committee on Welding. Participates through ANSI in establishing the USA position on draft international standards. Acts as a technical advisor to representatives on the IEC Committee on Welding.</p>
Standardization Activities	<p>AWS technical committees prepare standards covering four broad categories:</p> <p>Welding fundamentals, including metric practice, symbols, testing, definitions, filler metals, safety and health, and computerization</p> <p>Welding processes, including resistance welding, thermal spraying, brazing, soldering, oxyfuel, ARC, friction, and high energy</p> <p>Inspection of welds, including methods, mechanical testing, and qualification of welders and procedures</p> <p>Industrial applications of welding, including structural, marine construction, water tanks, automotive, sheet metal, piping and tubing, iron castings, machinery and equipment, railroad, and robotics</p>
Availability	<p>Sold directly and through ANSI, IHS, and Global domestically, and through several foreign agencies</p>
Keywords	<p>brazing; soldering; filler metals; welder qualification; welding; thermal cutting; safety; manufacturing; structural welding; thermal spraying;</p>

AMERICAN WIRE PRODUCERS ASSOCIATION

Robert T. Chancler, Managing Director

1101 Connecticut Avenue, NW
Suite 700
Washington, DC 20036
(202) 857-1155

Founded: 1937

Type of Organization	Trade Association Standards Developer
Standards Development	Standards developer since 1944
Certification	No certification, qualification, or accreditation programs
Scope	A nonprofit trade association of companies which manufacture from steel rod, all forms of steel alloy wire for industrial uses. Products include spring wire, stapling wire, rope wire, and tire bead wire.
Standardization Activities	Maintains a Technical Committee which publishes two Standards Manuals for round wire and flat and shaped wires. These contain recommended standards for 160 steel wire commodities. Developed a technical program to provide manufacturers and purchasers with technical information relating to the production of specialty wire.
Availability	Distributed directly
Formerly	Independent Wire Producers Specialty Wire Association
Keywords	specialty wire; wire; materials;

AMERICAN WOOD-PRESERVERS ASSOCIATION

John D. Ferry, Secretary/Treasurer

P.O. Box 849
Stevensville, Maryland 21666
(301) 643-4163

Founded: 1904

Standards Staff: 2

Type of Organization	Technical Society Standards Developer
Standards Development	Standards developer since 1930 200 members actively participating in standards development 2,000 members given opportunity to vote on standards approval Several standards developed in cooperation with ANSI
Standards Designation	AWPA prefix

Government Adoption	AWPA Standards are used in federal specifications. Federal Specification TT-W-571 on Wood Preservation parallels AWPB standards.
Scope	An international technical society devoted to research and development of wood preservation chemicals and treating practices for use in the United States and other countries.
Standardization Activities	Develops standards and specifications for wood preservatives and their introduction into the materials to be preserved. Standards cover preservatives, treatment of commodities, analysis methods, and conversion tables.
Availability	Distributed directly
Keywords	wood; preservation; treated wood; construction; building;

AMERICAN WOOD PRESERVERS BUREAU

	Eric Yeadon, President
	P.O. Box 5283 Springfield, Virginia 22150 (703) 339-6660
	Founded: 1971
Type of Organization	Trade Association Standards Developer
Standards Development	Standards developer since 1971 Developed 23 standards None processed through ANSI
Standards Designation	LP, General Purpose MP, Marine Piling CP, Construction Poles MLP, Marine Structures
Government Adoption	The AWPB Quality Mark is accepted by the Federal Housing Administration, Farmers Home Administration, Department of Veterans Affairs, U.S. Navy, and DoD. It is recognized by the building codes, ICBO, BOCA, and SBCC, as well as local and other organizations.
Certification	Certifies treated wood inspection agencies to license pressure treating plants to apply the AWPB Quality Mark to properly treated wood.

Scope	A not-for-profit volunteer quality control and certifying organization with 300 members. Provides a nationally known Quality Mark certifying a definite preservative treatment. Operates a wood preservative laboratory to standardize methods and assure quality control. A three man Board of Review of retired scholars handles disputes.
Standardization Activities	All AWPB pressure treated lumber and plywood procedures are based on the American Wood Preservers Association standards.
Availability	Sold directly
Keywords	wood; preservation; treated wood; marine; construction; building;

ANIMAL HEALTH INTERNATIONAL

Harold A. Waters, President

7873 Heritage Drive
Suite 575

Annandale, Virginia 22003-5348

(703) 256-1719

Telex: 499 4994 Ans. AHII

Founded: 1980

Standards Staff:

1 - Veterinarian

6 - Contract Consultants

Type of Organization	Professional Society Standards Developer
Standards Development	Standards developer since 1980
Government Adoption	Used worldwide by Office of International Epizootics (OIE) and International Air Transport Association (IATA)
Certification	Provides health certification for livestock and poultry moved internationally.
Standardization Activities	Develops standards in cooperation with the chief animal health officials of various countries in the areas of humane standards for animal transport on aircraft or ocean vessels.
Availability	Distributed through IATA and OIE
Keywords	health; transportation; agriculture; animals;

ANTI-FRICTION BEARING MANUFACTURERS ASSOCIATION

Michael L. Payne, President

1101 Connecticut Avenue, NW
Suite 700
Washington, DC 20036
(202) 429-5155

Founded: 1933

Standards Staff: 4

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

27 active standards

**Standards
Designation**

ANSI/AFBMA prefix

Certification

No certification, qualification, or accreditation programs

Secretariats

Accredited Standards Committee B3 operating under ANSI procedures
U.S. TAG for ISO/TC 4 and Subcommittees SC3, SC6, SC9, SC10, SC11

Scope

Membership comprised of manufacturers of ball bearings, roller bearings, balls, rollers, and spherical plain bearings.

**Standardization
Activities**

Develops ANSI/AFBMA standards

Availability

Directly and through ANSI, NSA, IHS, and Global

Keywords

ball bearings; roller bearings; machinery;

ARCHERY MANUFACTURERS ORGANIZATION

Anthony L. Kucera, Executive Director

200 Castlewood Drive
North Palm Beach, Florida 33408
(407) 842-4100

Founded: 1946

**Type of
Organization**

Trade Association
Standards Developer

Standards	14 standards currently published
Development	None processed through ANSI Available to non-members
Certification	No certification, qualification, or accreditation programs
Scope	A private, nonprofit, nongovernmental organization whose primary purpose is to improve and promote the sport of archery; improve and promote the business of archery manufacturers; further the business interests of and promote friendly relationships with its members; study ways and means of improving business methods; establish trade standards, and compile and distribute to its members statistics and information regarding the archery manufacturing industry; and to fund the operation of the American Archery Council.
Standardization Activities	Introduced voluntary industry-wide standards to reduce confusion, promote interchangeability of accessories, and give the dealer and archer confidence in the purchase of equipment. Member manufacturers using these standards identify their products with the AMO symbol. The standards committee serves AMO in an advisory capacity and as an investigative unit. Standards have been developed for all aspects of archery and equipment including nomenclature, standard bow length and weight, strings, arrows, fetching sights, accessories, and accessory mounting holes.
Availability	Distributed directly
Formerly	Archery Manufacturers and Dealers Association (AMADA) Archery Manufacturers Association
Keywords	archery; bowhunting; recreation;

ARCHITECTURAL PRECAST ASSOCIATION

Robert W. Walton, Executive Director

825 East 64th Street
Indianapolis, Indiana 46220
(317) 251-1214

Founded: 1966

Type of Organization	Trade Association Standards Developer
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Standards Designation	CSI prefix
Scope	Manufacturers of precast concrete panels and their suppliers. Disseminates educational material, and promotes interest in the industry.
Standardization Activities	Encourages the adoption of the standards and specifications of the association. Prepared the guide specifying Precast Concrete Panels; CSI Specification Series 03410 in conjunction with the Construction Specifications Institute.
Availability	Distributed by the Construction Specifications Institute
Keywords	precast concrete; concrete; building;

ARCHITECTURAL WOODWORK INSTITUTE

H. Keith Judkins, Executive Vice President

2310 South Walter Reed Drive
Arlington, Virginia 22206
(703) 671-9100

Founded: 1954

Type of Organization	Trade Association Standards Developer
Scope	To promote the use of architectural woodwork to the architectural and design industry; to develop industry standards; research new and better materials and methods; maintain and offer correspondence course training and methods; maintain and offer correspondence course training for estimators, detailers, and billers; and publish technical data helpful in the design and use of architectural woodwork.
Standardization Activities	Carries on a sustained program of standardization in the fields of cost accounting, estimating, detailing and billing, and the fabrication of architectural woodwork, sometimes known as special millwork, detail millwork, or contract millwork. This is done through the following publications: AWI Cost Accounting Manual (1987); Quality Standards for Architectural Woodwork (1988); Guide Specification for Architectural Woodwork (1988).
Availability	Sold directly
Absorbed	Millwork Cost Bureau

Keywords wood products; millwork; lumber; building;

ART AND CRAFT MATERIALS INSTITUTE, INC.

Deborah Fanning, Executive Vice President

715 Boylston Street
Boston, Massachusetts 02116
(617) 266-6800

Founded: 1936

Type of Organization Trade Association
Standards Developer

Standards Development 5 active standards

Standards Designations Z356.1-.5

Certifications The Certified Products Bureau of the Institute, initiated in 1940, insures the safety and quality of the products of subscribers to the bureau. Certified products are identified by a CP, AP, or HL Health Label Seal, all registered Trademarks. The CP Seal insures both nontoxicity and specific quality requirements; the AP Seal insures nontoxicity only; the HL Health Label insures that the product is properly labeled. Nonmember manufacturers may subscribed and authorized to use the Seals of the bureau if they meet the requirements. The products covered by the seals are crayons, chalk, finger paints, modeling clay, liquid and powdered tempera, semi-moist water colors, block printing ink, school paste and related school art products, as well as ceramic products and numerous adult art materials.

Scope An association of manufacturers of art and craft materials which conducts a wide range of activities.

Standardization Activities Maintains a Certification Committee which is responsible for the standardization activities.

Works with the American National Standards Institute to develop and update quality standards for products within the scope of the institute. Current standards are Z356.1 for Crayons; Z356.2 for Chalk; Z356.3 for Adhesives; Z356.4 for Modeling Materials; and Z356.5 for Paints and Inks.

Availability Distributed directly

Formerly Crayon, Water Color and Craft Institute

Keywords crafts; water color; crayon; education; consumer products;

ASBESTOS INFORMATION ASSOCIATION NORTH AMERICA

B.J. Pigg, Assistant for Governmental Affairs

1745 Jefferson Davis Highway
Crystal Square 4
Suite 509
Arlington, Virginia 22202
(703) 979-1150

Founded: 1970

Type of Organization Trade Association
Standards Developer

Standards Development 3 active standards

Standards Designation Recommended Work Practices

Certification No certification, qualification, or accreditation programs

Scope Member companies are involved in the mining, milling, manufacturing, and marketing of asbestos and asbestos-containing products. Efforts are centered on health and safety aspects of asbestos and its use.

Standardization Activities Standards developed by committees with participants drawn from member companies.

Availability Sold directly

Keywords asbestos; safety; health; materials;

ASPHALT EMULSION MANUFACTURERS ASSOCIATION

Michael R. Krissoff, Executive Director

3 Church Circle.
Suite 250
Annapolis, Maryland 21401
(301) 267-0023

Founded: 1973

Type of Organization	Trade Association Standards Developer
Standards Development	Developed a series of Recommended Performance Guidelines for the manufacture and use of emulsified asphalt.
Standards Designations	Recommended Performance Guidelines
Scope	An industry-wide trade association including over 120 corporate members in the United States, Canada, Mexico, and in many countries overseas. The technical work of the association is done in the committees and sub-committees of the association's international Technical Committee.
Standardization Activities	The International Technical Committee prepares guide specifications for the proper use of emulsions AEMA is involved with the American Society for Testing and Materials. Individual AEMA members hold committee chairmanships and subcommittee chairmanships within the ASTM structure, and particularly in ASTM Committee D-4. AEMA is also active in the American Association of State Highway Transportation Officials and is involved with the Materials and Services Division of the American Road Builders Association where it reviews state and road building specifications and participates in the Stabilization Committee.
Availability	Distributed directly
Keywords	materials; asphalt; asphalt emulsion; slurry seal; seal coat; construction;

ASPHALT INSTITUTE

Gerald S. Triplett, President

Asphalt Institute Building
Research Park Drive
P.O. Box 14052
Lexington, Kentucky 40512-4052
(606) 288-4960

Founded: 1919

Type of Organization	Trade Association Develops Guidelines
Standards Development	25 active standards

Representation	Works closely with other organizations in the development of standards including the American Society for Testing and Materials, the American Association of State Highway and Transportation Officials. Staff members serve on technical committees of standards making organizations. Promulgates standards of other organizations.
Certification	No certification, qualification, or accreditation programs
Scope	An international business league (trade association) representing the manufacturers of asphalt or processors of asphalt materials. Publishes informational and technical literature. Maintains field offices in the continental United States. Conducts extensive programs of education, research, and engineering service related to asphalt products.
Standardization	Works closely with its member companies, and serves upon appropriate standards-making committees of the American Society for Testing and Materials, the American Association of State Highway and Transportation Officials, and others. Works in collaboration with kindred organizations such as the National Asphalt Pavement Association, the Asphalt Emulsion Manufacturers Association, the Asphalt Roofing Manufacturers Association, the Highway Users Federation for Safety and Mobility, and others. Prepares Asphalt Institute Guidelines many of which are subsequently processed as ASTM and AASHTO standards.
Availability	Distributed directly and through Global and IHS
Formerly	Asphalt Association (1929)
Keywords	asphalt; highways; pavements; construction; materials;

ASPHALT ROOFING MANUFACTURERS ASSOCIATION

Richard D. Snyder, Executive Vice President

6288 Montrose Road
Rockville, Maryland 20852
(301) 231-9050

Founded: 1919

Type of Organization	Trade Association Works through other organizations to develop standards
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Representation	Technical Committees cooperate in the formulation and improvement of standards and specifications covering asphalt roofing products developed by the federal government, ASTM, Underwriters Labs, Factory Mutual, and others.
Scope	A national trade association representing U.S. companies that produce asphalt shingles, roll goods, and allied roofing products. Provides basic membership services including research in improving the durability of asphalts for roofing products.
Standardization Activities	Works with standards producing organizations to coordinate industry standards activities and to provide expertise when requested. A Code Task Force works cooperatively with the association's Residential Roofing Committee and Modified Bitumen Roofing Built-Up Roofing Committee to assure recommended application practices adhere to building code requirements.
Formerly	Asphalt Roofing Industry Bureau (1970)
Keywords	roofing; asphalt shingles; fiberglass shingles; construction; building;

ASSOCIATED AIR BALANCE COUNCIL

Kenneth M. Sufka, Executive Director

1518 K Street, NW
Suite 503
Washington, DC 20005
(202) 737-0202

Founded: 1965

Standards Staff: 6

Type of Organization	Trade Association Standards Developer
Standards Development	Standards Developer since 1965 All members participate in standards activities
Standards Designation	AABC National Standards
Government Adoption	Army Corps of Engineers
Certification	Test and Balance Certification for membership; no certification to use standards.

Scope	A nonprofit organization of qualified independent test and balance agencies. Promotes professional standards for the industry and a scientific approach to testing and balancing air handling systems. Represents its membership at national and international levels.
Standardization Activities	Activities directed toward fulfilling the minimum requirements for total system balance. AABC National Standards (a performance standard for the Total System Balancing industry), revises and replaces all National Standards previously published by the Council.
Availability	Sold directly and through members
Keywords	hydronic systems; construction; building; air handling;

ASSOCIATED GENERAL CONTRACTORS OF AMERICA

Hubert Beatty, Executive Vice President

1957 E Street, NW
Washington, DC 20006
(202) 393-2040

FAX: (202) 347-4004

Founded: 1918

Type of Organization	Trade Association Works through other organizations to develop standards
Representation	Represented on committees of National Institute of Building Sciences and ANSI
Scope	A national trade association that represents general contractors and all related business interests engaged in commercial construction.
Standardization Activities	Engages in a wide variety of standards related activity covering fields, such as training and competency of on-site construction workers and supervisors, contract documents for use by contractors and owners for a wide range of contractual variations, safety and health procedures for construction sites, federal procurement regulations, and teaching construction skills at the secondary school and college levels. Cooperates with other groups, including ANSI, building trade unions, architects/engineers, and various federal agencies.
Availability	Distributed directly and through cooperating organizations
Keywords	construction; building;

ASSOCIATED LOCKSMITHS OF AMERICA

William R. Mathiesen, Executive Director

3003 Live Oak Street
Dallas, Texas 75204
(214) 827-1701

Founded: 1955

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

3 active standards

Scope

Encourages and promotes the voluntary exchange among locksmiths of technical service data on security products; evaluates the position of the locksmith in the security industry; establishes a uniform code of ethics and conducts trade promotion activities.

**Standardization
Activities**

Maintains a security Standards Committee which administers the standardization activity and is now working on standards for security devices in relation to locks. Works closely with the American Society for Testing and Materials' program for voluntary standards in locking devices, Committee T-12 on Security Systems and Equipment. Was successful in getting industry rapport to standardize and improve the quality of packaging for key blanks. Recommended a Standard City Ordinance on Building Security. Currently is working on a recommended standard for state licensing or registration of locksmiths. The Key Blank Boxes, Building Security, and Locksmith License are the three current standards of ALA, all considered national in scope.

Availability

Distributed directly

Keywords

locksmithing; keys; locks; building; public safety;

ASSOCIATION FOR COMPUTING MACHINERY

Sidney Weinstein, Executive Director

11 West 42nd Street
New York, New York 10036
(212) 869-7440

Founded: 1947

Type of Organization	Scientific Society Standards Developer
Standards Designation	ACM prefix
Scope	An international educational and scientific society of 65,000 computer professionals advances the science and art of information processing; promotes free interchange of information between computer scientists and the general public; develops and maintains the integrity and competence of individuals engaged in the information processing profession.
Standardization Activities	Represented on several technical committees of X3-Information Systems. Particularly active in the standardization of programming languages. Member of the ANSI Information Systems Standards Board. Developed SIGGRAPH CORE standard on 3-dimensional computer graphics. A program for processing standards through ANSI is under consideration.
Availability	Distributed through ACM Order Department, P.O. Box 64145, Baltimore, Maryland 21264
Keywords	computers; programming languages; computer graphics; information;

ASSOCIATION FOR EDUCATION AND REHABILITATION OF THE BLIND AND VISUALLY IMPAIRED

Kathleen Megivern, Executive Director

206 N. Washington Street
Alexandria, Virginia 22314
(703) 836-6060

Founded: 1853

Type of Organization	Professional Society Standards Developer
Certification	Maintains a certification service for blindness professionals.
Scope	A professional organization of 5,000 members which serves educators and rehabilitation specialists of the visually handicapped in the United States and Canada.
Standardization Activities	Participates in training institutes, the development of special standards. Cooperate with national and

international agencies interested in the education and rehabilitation of visually handicapped children and youth.

Formerly Merger of American Association of Workers for the Blind and Association for Education of the Visually Handicapped (1984)

Keywords visually handicapped; blindness; education; rehabilitation;

ASSOCIATION FOR INFORMATION AND IMAGE MANAGEMENT

Marilyn Courtot, Director, Standards and Technology

1100 Wayne Avenue, Suite 1100
Silver Spring, Maryland 20910
(301) 587-8202

Founded: 1943

Standards Staff: 6

Type of Organization Professional and Trade Association
Standards Developer

Standards Development Develops standards, recommended practices, and technical reports
200 individuals participating in standards activities
35 active standards and recommended practices
15 technical reports
13 technical tools

Standards Designations Published documents are designated ANSI/AIIM MS. Technical Reports are designated as AIIM TR. (Prior to July 1, 1983, the Association was known as the National Micrographics Association and used the acronym NMA. Documents published and printed prior to that used the NMA acronym where the AIIM acronym is now used.

Government Adoption Documents are submitted for adoption to the Department of Defense (DoD) or as part of the Federal Information Processing Standards Series (FIPS).

Certification No certification, qualification, or accreditation programs

Secretariats U.S. TAG to ISO/TC 171, Micrographics and Optical Memories for Document and Image Recording, Storage and Use.

Scope Serves its professional and trade members in promoting education and applications for information and imaging

technologies which facilitate the effective storage, transfer, retrieval, and processing of images and information.

**Standardization
Activities**

Standards committees and ad hoc groups collect data, evaluate proposed procedures, tests, drafts, and publish documents to meet the technical needs of the information and image management industry. These documents are published as standards, recommended practices, and technical reports. Areas covered include the recording, storage, retrieval, and distribution of images containing both alphanumeric and graphics data; formats; quality requirements; dimensions; product standardization; test methods; definitions for terms and phrases; and uniform product descriptions.

Availability

Distributed directly, thorough ANSI, and IHS

Formerly

National Microfilm Association (1943)
National Micrographics Association (1975)

Keywords

microfilm; micrographics; photography; information processing; scanning; image processing; image management;

ASSOCIATION FOR MANUFACTURING TECHNOLOGY

See NMBTA

ASSOCIATION FOR THE ADVANCEMENT OF MEDICAL INSTRUMENTATION

Theresa C. Zuraski, Technical Committee Manager

3330 Washington Boulevard
Suite 400
Arlington, Virginia 22201
(703) 525-4890

Founded: 1967

Standards Staff: 4

**Type of
Organization**

Technical Association
Standards Developer

**Standards
Development**

Standards Developer since 1967
2,000 members and nonmembers participating in standards activities
29 American National Standards, 3 AAMI standard, 8 AAMI recommended practices, and 5 AAMI technical information reports
Draft standards available for review

Standards Designations	American National Standards, AAMI Final Standards, AAMI Recommended Practices, and AAMI Technical Information Reports
Government Adoption	The Department of Defense has adopted 2 AAMI standards. The Food and Drug Administration utilizes AAMI standards for various regulatory purposes.
Certification	No certification, qualification, or accreditation programs
Secretariats	ISO/TC 150/SC2 Cardiovascular Implants ISO/TC XXX Sterilization of Healthcare Products (expected to be formed mid 1990) ISO/TC 194/WG1 Systematic Approach to Biological Evaluation and Terminology ISO/TC 194/WG9 Effects on Blood (Hemocompatibility)
Scope	An international technical association whose members include over 3,000 individual health care practitioners; nearly 400 hospitals, universities, government agencies, laboratories and medical societies; and nearly 150 medical device companies. Mission is to help developers and users with the development and utilization of medical technology. Accomplished through publications, standards, educational conferences, certification of health care professionals, and numerous technical communication programs.
Standardization Activities	Assists the manufacturers of medical devices and the users of medical technology by developing and approving device product standards and guidelines for the safe use and safe environment relative to medical technology. Participates with government, industry, consumers, and the professional community to develop standards. Accredited by the American National Standards Institute. Involved with international standards activities of IEC, ISO, and other international standards organizations in the areas of electromedical equipment, cardiovascular implants, biocompatibility testing, and sterilization technology. Develops standards and recommended practices primarily in the areas of cardiovascular, gastroenterological, general surgical, neurosurgical, and hospital and industrial sterilization technology.
Availability	Distributed directly
Keywords	medical devices; medical instrumentation; sterilization; safety; health care;

ASSOCIATION OF AMERICAN FEED CONTROL OFFICIALS

Barbara J. Sims, Secretary

Texas Feed and Fertilizer Control Service
P.O. Box 3160
College Station, Texas 77841
(409) 845-1121

Founded: 1909

**Type of
Organization**

Professional Society
Standards Developer

**Standards
Development**

14 committees and 35 product investigators active in
standard development
None processed through ANSI
Draft standards and revisions available for review for
non-members

Scope

A nonprofit association of feed control officials whose
membership includes persons charged by law with
execution of state, provincial, dominion, and federal
laws in North America, Hawaii, and Puerto Rico
regulating the production, labelling, distribution, and
sale of animal feeds and livestock remedies.

**Standardization
Activities**

Directed toward development of uniform feed laws and
regulation for implementation by various agencies and
development of definitions for feed terms and feed
ingredients for use by control officials and the feed
industry.

Availability

Distributed through Charles P. Frank, Georgia
Department of Agriculture, Plant Food, Feed & Grain
Division, Capitol Square, Atlanta, Georgia 30334
(404) 656-3637

Keywords

animal feed; livestock remedies; agriculture;
government officials;

ASSOCIATION OF AMERICAN PLANT FOOD CONTROL OFFICIALS

D. L. Terry, Secretary

c/o University of Kentucky
Lexington, Kentucky 40546
(606) 257-2668

Founded: 1946

**Type of
Organization**

Professional Society
Standards Developer

Standards Development	Standards developer since 1946 Model legislation and standards available for review
Government Adoption	Several states have adopted one or more of the standards and most states accept the principles of uniformity promoted by AAPFCO.
Scope	Officials of agencies concerned with enforcement of laws relating to control of sale and distribution of mixed fertilizer and fertilizer materials. Members in the United States, Canada, and Puerto Rico.
Standardization Activities	Develops model laws and standards for fertilizer labeling, terms and definitions, enforcement policies, and tonnage reporting. These are developed through various committees which solicit input from regulatory officials, professional agronomists, the fertilizer industry, and federal agencies. Model laws for fertilizer, liming, agricultural ammonia, chemigation, and soil amendments are the basis for legislation in a number of states.
Availability	Distributed directly
Formerly	Association of American Fertilizer Control Officials
Keywords	fertilizers; limestone; agriculture; government officials;

ASSOCIATION OF AMERICAN PUBLISHERS

Nicholas A. Veliotes, President

220 East 23rd Street
New York, New York 10010
(212) 689-8920

Founded: 1970

Type of Organization	Trade Association Works through other organizations to develop standards
Scope	Its members are producers of hardbound and softbound general, educational, trade, reference, religious, scientific, technical, and medical books; instructional materials; periodicals and tests.
Standardization Activities	Works with the Book Manufacturers Institute (BMI) and the National Association of State Textbook Administrators (NASTA) to comprise a three member

Advisory Commission on Textbook Specifications (ACTS) which develops the Manufacturing Standards and Specifications for Textbooks (elementary and high school).

Availability Distributed through ACTS

Formerly Merger of American Educational Publishers Institute and American Book Publishers Council

Keywords books; book publishing; publishing; communications;

ASSOCIATION OF AMERICAN RAILROADS

Daniel L. Lang, Vice President
Information and Public Affairs

50 F Street, NW
Washington, DC 20001
(202) 639-2100 FAX: (202) 639-5546

Founded: 1934

Type of Organization Trade Association
Standards Developer

Standards Development The Manual of Standards and Recommended Practices (19 volumes) contains nearly 1,400 documents.

Standards Designations Specifications are designated with an "M" prefix, Standards with an "S" prefix, Recommended Practices with an "RP" prefix.

Certification The Research and Test Department is responsible for conducting certification testing of new designs of cars and components, quality control checks on components and materials, lubricant testing, and analysis of failed components.

Scope Membership consists of 108 railroads, including 9 Canadian, 4 Mexican, and 59 associate members. Association members haul approximately 90 percent of the nation's rail traffic and account for 82 percent of the rail mileage. the association serves its members in matters that require cooperative handling to better enable the railroads to operate as a national system and to contribute toward the purposes of the national transportation policy set forth by Congress. It is an umbrella organization consolidating a number of smaller, more specialized groups and is organized by departments which span the fields of law, operations

and maintenance, research and testing, railway economics and statistics, finance and accounting, railway information and public affairs, legislation, and data systems.

Standardization Activities

AAR specifications, standards and recommended practices are issued by the Mechanical Division on authority of the Division's General Committee. The Division and its standards deal with the design, construction, performance, maintenance, repair, and inspection of locomotives, freight cars, and other railroad mechanical equipment that is interchanged among railroads.

The Communications and Signal Division develops recommended practices for engineering, design, construction, operation, and maintenance of rail communication and signal systems. It maintains liaison with appropriate professional organizations such as the American National Standards Institute and the Institute of Electrical and Electronics Engineers, and with government agencies. It is the national radio frequency coordinator to the Federal Communications Commission for assignment of radio frequencies for the railroads in the United States, and the United States/Canadian coordinator along the border.

The Data Systems Division, through RAILINC Corporation, a subsidiary of AAR, stimulates the development and application of data processing and information techniques and established procedures which promote their efficient and productive use and simplify the interchange of data. This division serves as the principal railroad representative to American National Standards Committee X3 and the Transportation Data Coordinating Committee. Its committees are examining the industry's coding and standards needs in the area of data elements, teleprocessing protocols, etc.

Other AAR activities involved in standardization include the Safety Division's Hazardous Material Systems Division, which tests and classifies, for transportation purposes, materials considered hazardous under government regulation and makes recommendations covering packaging, labeling, and handling en route. The Division maintains field inspector at key locations throughout the United States and Canada.

Standardization and simplification of railroad accounting and treasury practices and requirements is accomplished through the Economics and Finance

Department. This department prepares various publications on rules, standard forms, procedures, and codes, as well as economic and statistical data covering railroad operations and their financing.

Availability The Manual of Standards and Recommended Practices is sold directly.

Keywords transportation; railroads; accounting; finance; explosives; safety; communications; data processing;

ASSOCIATION OF ASBESTOS CEMENT PIPE PRODUCERS

B.J. Pigg, President

1745 Jefferson Davis Highway
Suite 509
Arlington, Virginia 22202
(703) 979-1026 (703) 979-1152

Founded: 1972

Type of Organization Trade Association
Works through other organizations to develop standards

Representation 2 member companies represented on standard committees of ASTM and AWWA
16 member companies active in ISO/TC 77

Scope An international association of producers of asbestos cement pipe worldwide. Promotes the use and sale of asbestos cement water and sewer pipe.

Standardization Activities Standards activities are directed toward the development and maintenance of contemporary product, test, and performance standards for asbestos cement water and sewer pipe, including special applications.

Keywords construction; asbestos cement; asbestos cement pipe; sewer pipe;

ASSOCIATION OF BEDDING AND FURNITURE LAW OFFICIALS

Mackie Lawrence, Director
Product Safety Division

Texas Department of Health
1100 West 49th Street
Austin, Texas 78756
(512) 458-7519

Type of Organization	Professional Society Standards Developer
Scope	Provides a national forum for the discussion of all questions relating to the administration of bedding and upholstered furniture laws as carried on by regulatory officials of the state, commonwealths, territories and possessions of the United States, their political subdivisions, the District of Columbia, and the Dominion of Canada.
Standardization Activities	Encourages and promotes the adoption of uniform bedding and upholstered furniture laws, rules, regulations, nomenclature, labeling requirements, and enforcement procedures. Develops tests and adopts standard methods of inspection and sampling of bedding and upholstered furniture and the analyses of filling materials. Develops standard methods of determining the efficiency of insecticides, fumigants, sterilizing and disinfecting processes and equipment as applied to bedding, upholstered furniture, and filling materials. Secures uniformity in the statement of analytical results; promotes, conducts, and encourages research in chemistry and allied fields as these relate to analyses of filling materials used in bedding and upholstered furniture.
Availability	Sold directly
Keywords	bedding; upholstered furniture; insecticides; fumigants; sterilization; government officials; consumer products;

ASSOCIATION OF DRILLED SHAFT CONTRACTORS

Scot Litke, Executive Director

P.O. Box 280379
Dallas, Texas 75228
(214) 681-5994

FAX: (214) 613-7001

Founded: 1972

Type of Organization	Trade Association Standards Developer
Scope	Represents 194 foundation drilling contractors, 155 associates (suppliers), and 291 technical affiliates (professional civil engineers), most of which are in the United States, some in Canada, Mexico, South America, Europe, Asia, Australia, and New Zealand. An eighteen member Board of Directors supervises the activities of the Association. Conducts drilled

foundation design and construction seminars worldwide. Funds research at universities; provides scholarships; publishes technical materials and maintains a library.

**Standardization
Activities**

Cooperates with the American Concrete Institute in updating and developing with official Standards and Specifications for the Drilled Shaft industry. Works with states in aligning their specifications with that of the ADSC. Working to revise the American Institute of Architects Master Specs. Monitors all phases of the specifications for the industry. Works with governmental agencies at all levels, university civil engineering departments, and individual engineering firms.

Availability

Distributed directly

Keywords

drilled shafts; caissons; foundation drilling; construction;

ASSOCIATION OF EDISON ILLUMINATING COMPANIES

W.O. Whitt, Executive Director

600 North 18th Street
P.O. Box 2641
Birmingham, Alabama 35291-0992
(205) 250-2530

Founded: 1885

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Designation**

AEIC CS prefix

Scope

A trade association of investor-owned electric utilities in the United States engaged in the distribution of electric service for sale to the general public. Its objective is the advancement of electric service to the public for light, heat, and power.

**Standardization
Activities**

Maintains representation on several ANSI Committees and on other similar technical organizations involved in standardization relating to the electric utility industry. Prepares and publishes specifications for high voltage underground cable design used in the industry.

Availability

Sold directly

Keywords energy; electric power; electrical equipment;

ASSOCIATION OF ENGINEERING GEOLOGISTS

Edwin A. Blackey, Jr., Executive Director

323 Boston Post Road
Suite 3D
Sudbury, Massachusetts 01776

Founded: 1957

Type of Organization Professional Society
Standards Developer

Scope Promotes high ethical and professional standards in the field of geology; members are graduate geologists and geological engineers.

Standardization Maintains two committees active in standards development. The Building Codes Committee is active on a local level as advisors to county and municipal governments considering code revisions, including code provisions for development of floodplains and tidal marshlands. The Committee on Engineering Geology Mapping Symbols develops standard map symbols for use by all states and counties.

Availability Distributed directly

Keywords geology; mapping; construction;

ASSOCIATION OF HOME APPLIANCE MANUFACTURERS

Jack Weizeorick, Product Management

20 North Wacker Drive
Chicago, Illinois 60606
(312) 984-5800

Founded: 1967

Standards Staff: 4

Type of Organization Trade Association
Standards Developer

Standards Development Standards developer since 1967
73 members participate in standards activities
26 active standards include metric equivalents
20 standards ANSI approved

Standards Designations ANSI/AHAM and AHAM prefixes

Government Adoption	The General Services Administration has adopted several AHAM standards for procurement purposes.
Certification	Sponsors five certification programs for Room Air Conditioners, Refrigerator-Freezers, Humidifiers, Dehumidifiers, and Room Air Cleaners
Secretariats	IEC SC59A, Electric Dishwashers IEC SC59H, Microwave Appliances IEC SC61B, Safety of Household Microwave Ovens
Scope	An international nonprofit association of companies manufacturing major and portable appliances. Functions in five major areas: product standards and certification, government relations, consumer affairs and communications, statistical reports, and international trade. Other functions included industrial relations and market research.
Standardization Activities	<p>Develops voluntary appliance performance standards and makes safety recommendations to Underwriters Laboratories and the American Gas Association. The Engineering Council determines policy and directs product engineering committees to determine contents of standards with special consideration on product safety.</p> <p>Develops international standards through representation on technical committees of the International Electrotechnical Commission.</p> <p>Maintains liaison with the National Institute of Standards and Technology, General Services Administration, Food and Drug Administration, Federal Trade Commission, Consumer Product Safety Commission, and Department of Energy.</p> <p>AHAM standards are national in scope. Their use is promoted through publications and press releases, through certification, and by the American National Standards Institute's recognition.</p>
Availability	Sold directly and through ANSI
Formerly	American Home Laundry Manufacturer's Association (1916-1966)
Keywords	home appliances; safety; consumer products;

ASSOCIATION OF IRON AND STEEL ENGINEERS

Herschel B. Poole, Managing Director

Three Gateway Center
Suite 2350
Pittsburgh, Pennsylvania 15222
(412) 281-6323

Founded: 1907

**Type of
Organization**

Technical Society
Standards Developer

**Standards
Development**

11 standards and technical reports

Scope

Fosters an exchange of ideas toward advancing the iron and steel producing industry in matters related to steel plant engineering, maintenance, and operations including electrical, mechanical, welding, combustion, lubrication, and rolling mills. Engages in standardization, research, and computer applications.

**Standardization
Activities**

Developed standards for the steel industry which include D-C Mill Motor Standards, A-C Mill Motor Standards, Standard for Machined Surface Finishes, Alloy Steel Chain and Alloy Steel Chain Slings for Overhead Lifting, Pacification for Electric Overhead Traveling Cranes for Steel Mill Service, Specification for Design of Ladle Hooks, Crane and Mill Auxiliary Drive Motor Cable Size Wiring Standard, Standard for Design of Hot Metal Ladles, Brake Standards for Mill Motors, Specifications for Design and Construction of Mill Buildings New Steel Pressure-Containing Components for Blast Furnace Installers.

Also sponsors research activities for the purpose of developing data for future standards and for the improvement of steel mill operating practice.

Availability

Distributed directly

Formerly

Association of Iron and Steel Electrical Engineers
(1936)

Keywords

electrical equipment; industrial equipment;

ASSOCIATION OF OFFICIAL ANALYTICAL CHEMISTS

Ronald R. Christensen, Executive Director

2200 Wilson Boulevard
Suite 400
Arlington, Virginia 22201-3301
(703) 522-3032

Founded: 1884

**Type of
Organization**

Scientific Society
Standards Developer

**Standards
Development**

More than 1,900 standard test methods for food, feed, fertilizer, pesticides, pharmaceuticals, residues, microbiologicals, hazardous substances, water, and other commodities.

**Government
Adoption**

FDA, state departments of agriculture, Agriculture Department of Canada. Used in official regulatory laboratories in many countries.

Certification

No certification or accreditation programs

Secretariats

Category "A" liaison to ISO/TC 34 Agricultural Food Products, ISO/TC 69 Applications of Statistical Methods, ISO/TC 93 starch and ISO/TC 134 Fertilizer.

Scope

Coordinates the work of some 800 volunteer scientists in government and private laboratories worldwide to develop, test, validate, approve and publish official methods of analysis for food, agricultural commodities, chemicals, and pharmaceuticals. Publishes Official Methods of Analysis, Journal of the AOAC, and collaborative study data. Conducts and Annual International Meeting and Regional Meetings.

**Standardization
Activities**

Develops analytic methods used by industry and government laboratories in some 50 countries for determining compliance with government regulations, research, and quality control. Scientists participate in the AOAC methods validation process to establish official methods.

Availability

Distributed directly

Keywords

laboratory analysis; quality control; food; agriculture; pesticides; fertilizer; feed; pharmaceuticals; analytical chemistry; government officials; microbiologicals; residues; water;

ASSOCIATION OF OFFICIAL SEED ANALYSTS

Jim Lair, Secretary-Treasurer

Illinois Department of Agriculture - Seed Lab
801 Sangamon Avenue
Springfield, Illinois 62708-9281

Founded: 1908

**Type of
Organization**

Scientific Society
Standards Developer

Scope

Officials of federal, state and provincial seed testing and research laboratories. Develops uniform rules for testing field, vegetable flower and tree seeds, encourages the use of high quality seed, promotes research, and fosters the training of seed analysts.

**Standardization
Activities**

Maintains committees in research, rules, referee, and public service areas to develop standardized methods of seed testing that will permit duplication of results when the same sample is tested by different stations. Quality factors for which tests are made include purity of sample, percentage germination, rate of occurrence of noxious weed seeds, varietal purity, and assaying for fungicidal seed treatment. The Research Committee makes technical information available to the Rules Committee which prepares a new draft revision of the rules every fifth year for approval. The Rules Committee also interprets questionable and disputed points of the Rules for Testing Seeds. The Referee Committee circulates samples among the member stations to determine whether they are testing in accordance with the rules and to identify any weaknesses in the rules. The Public Service Committee encourages association member to publicize the benefits of the associations's work and stimulate interest in seed testing.

Keywords

seed testing; government officials; agriculture;

ASSOCIATION OF OFFICIAL SEED CERTIFYING AGENCIES

Foil W. McLaughlin, Executive Vice President

3709 Hillsborough Street
Raleigh, North Carolina 27607
(919) 737-2851

Founded: 1919

Type of Organization	Trade Association Standards Developer
Certification	The adopted standards are used to establish seed certification regulations by the U.S. Department of Agriculture.
Scope	Establishes and maintains minimum standards and procedures for certifying seed. Membership consists of a representative from each state certifying seed.
Standardization	The Association develops and maintains seed certification minimum standards for genetic purity and identity. These standards and procedures are used by individual state seed certifying agencies in supervising the production and marketing of certified seed and are reviewed annually. Individual state seed certifying agencies may not certify seed for interstate commerce unless the Association's (and USDA) minimum standards are used.
Availability	The Association standards are printed in a certification book and may be purchased directly.
Formerly	International Crop Improvement Association (until 1968)
Keywords	seeds; genetics; agriculture;

ASSOCIATION OF PHYSICAL PLANT ADMINISTRATORS OF UNIVERSITIES AND COLLEGES

Walter A Schaw, CAE, Executive Director

1446 Duke Street
Alexandria, Virginia 22314
(703) 684-1446

Founded: 1914

Type of Organization	Professional Society Works through other organizations to develop standards
Scope	Develops professional standards in the administration, care, operation, planning, and development of college and university physical plants.
Standardization Activities	Participates with other organizations in the standards development and review process.
Keywords	physical plant; facilities management; construction; maintenance; education;

ASSOCIATION OF RECORDS MANAGERS AND ADMINISTRATORS

James P. Souders, Executive Director

4200 Somerset Drive
Suite 215
Prairie Village, Kansas 66208
(913) 341-3808

Founded: 1956

**Type of
Organization**

Professional Society
Standards Developer

**Standards
Development**

Guidelines and standards developer since 1981
100 members participate in standards activities
None processed through ANSI
Guidelines available for review
9 guidelines published

**Standards
Designations**

ARMA prefix

Scope

An international organization of professionals involved in records and information management. Represents interests in the management of documentation, preservation, disposal, and the efficient handling of recorded information including records management systems, records retention vital records, records centers, computerized information, micrographics technology, word processing, and others.

**Standardization
Activities**

Directs activities toward fulfilling user-defined requirements of the profession. A five-person Standards Committee represents government, manufacturers, and users, and is responsible for final approval of Guidelines and Standards developed by working committees. These committees cover the following areas: Filing Equipment and Supplies, Filing Systems, Glossary-Records Management Terms, Job Descriptions, Records Center Operations, Records Retention, Technology Applications and Vital Records.

ARMA Guidelines are published and made available to the membership and the general public. After one year, the Guideline may be revised and republished as a Guideline or upgraded to a Standard.

Availability

Distributed directly

Formerly

American Records Management Association

Keywords

records; files; information processing; office products; records management;

ASSOCIATION OF WALL AND CEILING INDUSTRIES - INTERNATIONAL

Eugene Z. Fisher, Technical Director

1600 Cameroon Street
Alexandria, Virginia 22314
(703) 684-2924

Founded: 1918

Standards Staff: 1

**Type of
Organization**

Trade Association
Standards Developer - Proprietary and working through
technical societies

**Standards
Development**

Standards developer since 1918
1,400 plus members participate in standards activities

**Standards
Designations**

ASCI guide specifications; also ACI, Gypsum
Association, ML/SFA joint Standards, as well as ASTM
and ANSI Standards.

Certification

Certification issued for Asbestos Abatement Training
Program.

Scope

1,400 firms engaged in the application of acoustical
tile, drywall, partitions lathing and plastering,
fireproofing, and insulation.

**Standardization
Activities**

Concentrates on application/installation standards
development but also monitors and participates in
materials and test methods specifications development.

Technical Subcommittees address standardization of
materials, systems and application/installation
procedures for asbestos abatement, acoustic systems,
carpentry, coatings, demountable partitions, exterior
insulation and finish systems (EIFS), fireproofing,
flooring systems, lathing, furring, plastering,
texturing, insulation, light gage steel framing systems
(load and non-load bearing, integrated ceilings
systems, open plan systems, door-frame-hardware, and
allied fields. Final approval by the Association's
Board of Directors when recommended by Technical
Committee.

Through the Technical Department, AWCI participates in
the activities of ASTM Committees C11, C16, C24, E6;
and the following NIBS committees: Building Thermal
Envelope Coordinating Committee, Building
rehabilitation and Preservation.

Availability

Sold directly

Formerly	Contracting Plasters International Association (1956) Contracting Plasterers and Lathers International Association (1970) International Association of Wall and Ceiling Contractors (1976) Merger of International Association of Wall and Ceiling Contractors (1976) and Gypsum Drywall Contractors International (1979)
Keywords	walls; ceiling; drywall; plaster; acoustic; asbestos; building;

AUTOMATED IMAGING ASSOCIATION

	James A. Peyton, Manager of Standards Development 900 Victors Way P.O. Box 3724 Ann Arbor, Michigan 48106 (313) 994-6088 FAX: (313) 992-3338 Founded: 1984 Standards Staff: 2
Type of Organization	Trade Association Standards Developer
Standards Development	Standards developer since 1986 100 representatives participate in the five A15 Standards Subcommittees. Most standards processed through ANSI. Draft standards available for review.
Standards Designation	AIA/A15.0x
Secretariats	A15.01, A15.05, A15.07, A15.08, A15.09
Scope	Dedicated to promoting the acceptance and productive use of image processing, image analysis and machine vision technologies. The use of these technologies will include both scientific and industrial applications from all aspects of product manufacturing, physical sciences, governmental and research communities. The association's membership includes manufacturers of both related and peripheral products, integrators, end users, consultants and research groups directly involved with these technologies.
Standardization Activities	Standardization in the area of image processing technology including System Communication (A15.01), Performance (A15.05), Terminology (A15.07), Sensor Interfaces (A15.08), Marking and Labeling (A15.09).

Availability Draft standards available for review; ANSI-approved standards available from the association and ANSI.

Keywords image processing; machine vision; automatic inspection; automation;

AUTOMATIC IDENTIFICATION MANUFACTURERS, INC. (AIM USA)

William P. Hakanson, Executive Director

1325 Freeport Road
Pittsburgh, Pennsylvania 15238
(412) 963-8588 Telex: 315186 (AIM PGH)
FAX: (412) 963-8753

Founded: 1972

Type of Organization Trade Association
Standards Developer, also works with other organizations to develop standards

Standards Development Standards developer since 1987
200 member companies; participate in AIM-sponsored, ANSI, government-sponsored, industry trade association-sponsored, and inter-industry standards.
AIM is approve to use the ANSI canvass review method.

Standards Designation AIM

Scope A national trade association of companies involved in the manufacture or integration of automatic identification hardware, software, supplies, services and systems for industrial, commercial and government applications. Technologies represented include bar code, radio frequency identification, radio frequency data communications, magnetic stripe, vision systems, voice systems and OCR.

Standardization Activities Current activities are the standardization of bar code symbols and some aspects of magnetic stripe media measurements (magnetic properties) and specification of their immunity to magnetic damage (at the request of ANSI X3B.10).

Availability Distributed directly

Keywords automatic identification; bar codes; magnetic stripe;

AUTOMATIC METER READING ASSOCIATION

Donald E. Schlenger, Executive Director

P.O. Box 500
Westwood, New Jersey 07675
(201) 666-0902

Founded: 1986

**Type of
Organization**

Trade Association
Standards Developer

Representation

ANSI accreditation in process

Scope

A nonprofit nongovernmental educational association whose purpose is to advance the state of telemetry technology for meter reading, energy management, distribution and control. The AMRA exists to further the universal deployment of telemetry services and establish a forum for the research and development of standards, guidelines and practices. Functions in the areas of automatic meter reading and energy management through telemetry technologies (telephone, radio, powerline carrier, cable, etc.) primarily for electric, gas and water utilities.

**Standardization
Activities**

The AMRA Standards Committee develops guidelines and voluntary standards designed to (1) foster the interchangeability of and encourage multiple sources for system components; (2) promote compatibility of existing and future products; (3) facilitate component and system enhancements, including new features, options and additional applications; (4) simplify and lower the cost of system implementations, including specification and selection process; and (5) minimize risk to manufacturers and users.

These guidelines and voluntary standards will cover system component inputs and outputs (including data protocols, hardware interfaces, power requirements, and component protection), environmental conditions, installations, and such other areas as the needs of the Association members may dictate.

The Standards Committee will work to (1) promote the continued development, testing, and integration of new automatic meter reading and telemetry services, equipment and procedures; (2) work with the relevant standards setting bodies of associated industries to promote the consistency of related standards and

guidelines; and (3) provide a forum for Association members and other interested parties to develop solutions and approaches to standardization and compatibility issues.

Keywords

telemetry; communications; data and information processing; distribution load control; utilities; electrical and electronic equipment;

AUTOMOTIVE REFRIGERATION PRODUCTS INSTITUTE

Timothy B. Tierney, Executive Director

5100 Forbes Boulevard
Lanham, Maryland 20706
(301) 731-5195

Founded: 1983

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Founded September, 1983 to develop Performance standards for the Automotive Refrigeration Industry.

Scope

Members are manufacturers and suppliers of automotive refrigerant, also container manufacturers, packagers and distributors, and those manufacturers of parts and tools necessary to assemble and test automotive refrigeration products.

Keywords

automotive refrigeration; air-conditioning;

BAKING INDUSTRY SANITATION STANDARDS COMMITTEE

Bonnie Sweetman, Secretary-Treasurer

111 East Wacker Drive
Suite 600
Chicago, Illinois 60601
(312) 644-6610

Founded: 1949

**Type of
Organization**

Technical Society
Standards Developer

**Standards
Development**

42 active standards

Certification

Upon application, equipment is certified in accordance with the procedure set forth by the Certification Board. Standards are used by manufacturers and enforcement agencies.

Scope

A nonprofit organization dedicated to achieving sanitation in the baking industry. It is supported by trade associations representing manufacturers of baking machinery for wholesale and retail uses, and interested professional sanitarian and engineering organizations. Writing and publication of standards and certification of equipment promoting the sanitary design, construction, and installation of food-processing equipment are the only purposes and functions of this committee.

**Standardization
Activities**

Develops sanitation standards for baking equipment and is the recognized sanitation standards organization for the baking industry. Government and industry representatives work together in preparing and editing these standards. Task committees are appointed for each specific standard or revision. Final task committee proposals are acted on by the general committee and the BISSC Board of Directors. BISSC standards are published every four years in book form. Latest edition: 1990.

Availability

Distributed directly

Keywords

baking equipment; machinery; sanitation;

BATTERY COUNCIL INTERNATIONAL

Edward M. Craft, Executive Secretary

111 East Wacker Drive
Chicago, Illinois 60601
(312) 644-6610

Founded: 1924

Type of Organization	Trade Association Works through other organizations to develop standards
Representation	Work with SAE, and International Electrotechnical Commission
Scope	Manufacturers, suppliers of materials, and national distributors of lead-acid storage batteries.
Standardization Activities	Through committees, battery standards and specifications are recommended for use by the industry. The Environmental, Industrial Health, and Technical Committees work with government organizations to help set standards and regulations. Publishes a Battery Replacement Data Book. Revised yearly, this book outlines the types of battery sizes and specifications used in automobiles, both foreign and domestic.
Formerly	The National Battery Manufacturers Association (1940) The Association of American Battery Manufacturers (1970)
Keywords	lead-acid; battery; electrical equipment;

BILLIARD CONGRESS OF AMERICA

Mark C. Cord, Managing Director

1901 Broadway Street
Suite 310
Iowa City, Iowa 52240
(319) 351-2112

Founded: 1948

Type of Organization	Standards Developer
Scope	Organization of players, retailers, proprietors, manufacturers, distributors, and importers of billiards. Serves as a national clearinghouse for billiard activities; makes rules and interpretations.

Standardization Activities	Prepares standards for equipment and rules for billiard and pool games, as well as tournament play. Maintains a Specifications Committee and Rules Committee to coordinate these activities. Publishes the Official Rule Book for all Pocket and Carom Billiard Games.
Availability	Distributed directly
Formerly	National Billiard Council (1963)
Keywords	billiards; recreation;

BIOLOGICAL STAIN COMMISSION

Eric A. Schenk, M.D., Secretary

Department of Pathology, Box 626
The University of Rochester Medical Center
Rochester, New York 14642
(716) 275-3197

Founded: 1922

Type of Organization	Scientific Society Standards Developer
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Standards Development	62 standards
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Certification	The commission maintains a program of stain certification. Manufacturers and distributors voluntarily submit samples for examination. If the sample meets the commission's specifications, it is approved for marketing as a Certified Biological Stain, and the commission issues certification labels to be affixed to bottles in which it is sold. Certification is on a batch basis, the labels issued by the commission bearing distinctive certification numbers identifying the specific batches with which they are to be used. A sample of each batch is kept on permanent file, and the commission investigates complaints of any unsatisfactory results obtained with a certified stain.
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Scope	A nonprofit organization of professional scientists in biology, medicine, and related fields devoted to the establishment of standards for biological stains.
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Standardization Activities	Establishes standard specifications for the identification, purity, performance and labeling of the more important biological stains, in order that they may be relied upon as standard tools in biological and medical research. National in scope, the commission has the cooperation of scientific societies whose
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interests lie in this field, as well as the interest and cooperation of manufacturers and distributors of biological stains.

Availability The Commission's standards are included in the appendix of Conn's Biological Stains.

Formerly Commission on Standardization of Biological Stains (1944)

Keywords biological stains; testing; medical instruments;

BLUE ANCHOR

Dennis N. Icardi, President

P.O. Box 15498
Sacramento, California 95851
(916) 929-3050 Telex: 37-74291
FAX: (916) 921-9362

Founded: 1901

Type of Organization Agricultural Cooperative Standards Developer since 1930

Scope A fresh fruit marketing cooperative handling the fruit of 1,000 growers organized into local associations and contract shippers. All fruit is subject to the standardization program.

Standardization Activities Issues standards on all deciduous tree fruit and table grape commodities. Updates the Rules and Regulations for each annual season. The standardization policy is set by a Standardization Committee and enforced by authorized agents of the Field Department. Standards required for company members only. Works with various federal and state marketing orders covering pears, plums, peaches, nectarines, and grapes.

Formerly California Fruit Exchange

Keywords food; fruit marketing; agriculture;

BOOK INDUSTRY STUDY GROUP

Sandra K. Paul, Managing Agent

160 Fifth Avenue
New York, New York 10010
(212) 929-1393 FAX: (212) 989-7542

Type of Organization	Trade Association Standards Developer
Scope	A nonprofit organization whose members come from all areas of the book trade. Specializes in industry research.
Standardization Activities	Committees review existing standards and select those appropriate for the book industry. Endorsed Bookland EAN bar code for books, Code 128 Representation of a draft ANSI/NISO standard for serial identification, and the F.A.C.T. Code 39 Data Identifiers for bar coding book cartons and shipping containers. The Book and Serial Industry Systems Advisory Committees (BISAC and SISAC) develop standards for electronic data interchange, some of which are passed on to the National Information Standards Organization (NISO) to become ANSI/NISO standards. BISAC and SISAC developed unique electronic data interchange formats and are now mapping data elements for ASC X12 conversion.
Keywords	books; serials; publishing; communications; data and information processing;

BOOK MANUFACTURERS INSTITUTE

Douglas E. Horner, Executive Vice President

111 Prospect Street, Suite 405
Stanford, Connecticut 06901
(203) 324-9670

Founded: 1933

Type of Organization	Trade Association Standards Developer
Government Adoption	Quality standard adopted by most states
Secretariats	Advisory Commission on Textbook Specifications (ACTS)
Scope	A trade association for book manufacturers and suppliers of book materials and book manufacturing equipment.
Standardization Activities	Together with the Association of American Publishers and the National Association of State Textbook Administrators, provides delegates to the Advisory Commission on Textbook Specification (ACTS) which meets twice each year. ACTS has developed a set of manufacturing standards and specifications which must be met before the purchase of a particular textbook

will be considered by most state adoption agencies. This booklet, titled Manufacturing Standards and Specifications for Textbooks (MSST), contains quality standards and specifications for paper, printing, and binding, and provides sample forms which should be used by both the state agencies and the publishers of textbooks. The MSST covers only elementary and high school textbooks.

Availability Distributed directly

Formerly Employing Bookbinders of America (1933)

Keywords books; textbooks; education; communications;

BRASS AND BRONZE INGOT MANUFACTURERS

Julie A. Sculthorpe, Administrative Assistant

300 West Washington
Room 1500
Chicago, Illinois 60606
(312) 236-27135

Telex: 280041
FAX: (312) 236-8772

Founded: 1989

Type of Organization Trade Association
Works through other organizations to develop standards

Representation ASTM, SAE, foundry societies, and others

Scope Manufacturers of ingot brass and bronze for the foundry industry.

Standardization Activities Cooperates with the American Foundrymen's Society, the Non-Ferrous Founders' Society, and affiliated and similar organizations in developing methodology and standards for the production of copper base alloy castings. Participates with ASTM, SAE, Copper Development Association, and military and federal specifications bodies and others in the development of standards and specifications covering ingot brass and bronze. Involved in development of standard reference materials for NIST and has sponsored and directed basic research relating to copper based alloys. Maintains a Technical Committee to consider related subject matter.

Formerly Non-Ferrous Ingot Metals Institute; Brass and Bronze Ingot Institute (1928); Association of Brass and Bronze Ingot Manufacturers (1950).

Keywords brass; bronze; casting alloys; materials;

BRICK INSTITUTE OF AMERICA

J. Gregg Borchelt, P.E., Vice President of Engineering
& Research

11490 Commerce Park Drive
Suite 300
Reston, Virginia 22091
(703) 620-0010

Founded: 1934

**Type of
Organization**

Trade Association
Standards Developer

Scope

National association of brick manufacturers and the national authority on brick construction. Promotes the further and proper use of brick.

**Standardization
Activities**

Standards development, review, writing, and promulgation are the responsibilities of the Engineering and Research Division. Maintains an exchange and liaison with similar organizations in other countries. Also maintains close liaison with government agencies writing standards in the construction industry field, National Institute of Standards and Technology, National Institute of Building Sciences, and the Departments of Housing and Urban Development, Defense, Energy, Labor, and Commerce. Works with other standards-writing organizations in the development of standards involving or related to Brick Masonry as follows: American Concrete Institute and American Society of Civil Engineers - ACI 530, ASCE 5, Building Code Requirements for Masonry Structures, ACI 530.1 and ASCE 6, specifications for Masonry Structures; American Society for Testing and Materials - Committees C-12 on Mortar for Unit Masonry, C-15 on Manufactured Masonry Units, D-1 on Paint and Related Coatings and Materials, E-5 on Fire Testing and E-6 on Performance of Building Constructions; Building Seismic Safety Council, National Fire Prevention Association

Engaged in research for the development of new standards dealing with masonry design and applications. Currently working on limit states design standard for masonry in conjunction with the National Masonry Standards Joint Committee of the American Concrete Institute, the American Society of Civil Engineers, and The Masonry Society.

Availability

Distributed directly

Formerly Structural Clay Products Institute
Keywords masonry, brick; construction; building;

BUILDERS HARDWARE MANUFACTURERS ASSOCIATION

J. Dudley Waldner, Executive Director

c/o Trade Group Associates, Managers
355 Lexington Avenue
New York, New York 10017
(212) 661-4261

Founded: 1925

Standards Staff: 2

Type of Organization Trade Association
Standards Developer

Standards Development Standards developer since 1966
70 members active in standards development
21 active standards
21 processed through ANSI
3 standards in development

Standards Designation ANSI/BHMA prefix

Government Adoption The Department of Defense has adopted all BHMA sponsored ANSI standards.

Certification Sponsors three certification programs; one for locks, one for door closers and one for exit devices. ETL Testing laboratories is administrator and testing agency for locks and closers. Underwriters Laboratories is the administrator and testing agency for exit devices.

Scope A national trade association representing manufacturers of builders hardware. Provides programs for its members in the areas of industrial relations, management, and statistical programs.

Standardization Activities Is accredited by ANSI to develop standards for builders hardware using the canvass method. Participates on NFPA and ASTM Committees.

Availability Distributed directly, through ANSI, Door and Hardware Institute, and IHS

Formerly Hardware Manufacturers Statistical Association
(1925-1961)

Keywords hardware; buildings;

BUILDING OFFICIALS AND CODE ADMINISTRATORS INTERNATIONAL

Clarence R. Bechtel, Executive Director

4051 West Flossmoor Road
Country Club Hills, Illinois 60478-5795
(312) 799-2300

Founded: 1915

Standards Staff: 55

**Type of
Organization**

Professional Society
Standards Developer

**Standards
Development**

Promulgates the BOCA Basic Code Series of model codes for reference adoption by municipal and state governments.

**Standards
Designation**

BOCA National Building Code; BOCA National Mechanical Code; BOCA National Plumbing Code; BOCA National Fire Prevention Code; BOCA National Property Maintenance Code; BOCA National Energy Conservation Code

**Government
Adoption**

Codes are adopted by 17 states and 5000 local governments, predominantly in East and Midwest portions of the United States

**Certification
program**

Maintains a voluntary education and certification for construction officials.

Secretariats

Council of American Building Officials (CABO) One and Two Family Dwelling Code.

Scope

A nonprofit municipal service membership organization involved in the field of code administration and enforcement, and community development. Goals are to serve the public by advocating the use of safe, suitable, modern construction techniques and materials, through its model codes program; and to serve jurisdictions and their code administrators by providing technological know-how and services related to all specialty areas of code administration and enforcement, in addition to a complete model codes maintenance program.

Membership services include code interpretations, materials and product evaluation reports, plan review, education programs and documents, and administrative reviews.

**Standardization
Activities**

Activities carried on by the technical and professional staff under the direction of its Chief Executive Officer, appointed by the Board of Directors. BOCA

codes state performance requirements for materials under given conditions, and establish evaluation criteria resulting in reduced construction costs and allowing ingenuity on the part of the designer.

Availability Distributed directly

Formerly Building Officials Conference of America (1970)

Keywords safety; building; codes; plumbing code; mechanical code; fire code; maintenance code; energy conservation; construction; government officials;

BUILDING OWNERS AND MANAGERS ASSOCIATION INTERNATIONAL

James C. Dinegar, Vice President, Government Affairs
1201 New York Avenue, NW
Suite 300
Washington, DC 20005
(202) 289-7000 FAX: (202) 371-0181

Founded: 1908 Standards Staff: 1

Type of Organization Trade Association
Standards Developer

Standards Development Standards developer since 1915

Secretariats ANSI A120-Safety Standards for Power Operated Platforms and Equipment Used for Exterior & Interior Building Maintenance
ANSI Z65.1 Method for Measuring Floor Space in Office Buildings

Scope A trade association serving owners and managers of commercial real estate, primarily office buildings. Studies operating costs, rental conditions, occupancy, fire and safety, and other conditions effecting the office building industry.

Standardization Activities Participates as Secretariat to two ANSI Standards Committees and other energy conservation standards committees. Active as a member or commentator to model code and standards groups.

Availability Distributed directly and through ANSI

Formerly National Association of Building Owners and Managers (1908)
Building Owners and Manager Association International (1968)

Keywords rentable space; usable space; high rise office buildings; maintenance platforms; building; facilities management;

BUSINESS AND INSTITUTIONAL FURNITURE MANUFACTURERS ASSOCIATION

Stephen D. Channer, Executive Director

2235 Burton Street SE
Grand Rapids, Michigan 49506
(616) 243-1681

Founded: 1973

Standards Staff: 5

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Standards developer since 1973
240 member company representatives participating in standards activities
6 active standards
All ANSI approved
Draft standards available for review

**Standards
Designations**

ANSI/BIFMA prefix

**Government
Adoption**

The General Services Administration has adopted ANSI/BIFMA standards for use in Commercial Item Descriptions.

Certification

Voluntary certification

Scope

A national trade association that represents U.S. companies engaged in the manufacture of office and institutional furniture. Functions on a national and international level, representing its membership in a wide range of engineering, statistical, and other relationships with public and government agencies.

**Standardization
Activities**

Develops standards for the design and testing of office and institutional furniture including tests for: 1. office chairs, 2. lateral and 3. vertical files, 4. desks, 5. Lounge Furniture, and 6. Panel Systems Furniture. Maintains an Engineering Standards Committee with many subcommittees.

Availability

Distributed directly and through ANSI

Keywords

furniture; office furniture; institutional furniture; office products;

CADMIUM COUNCIL

Hugh Morrow, Executive Director

P.O. Box 2664

Greenwich, Connecticut 06836

(203) 625-0911

FAX: (203) 625-0918

Founded: 1980

Standards Staff: 4

Type of Organization

Trade Association

Works through other organizations to develop standards

Representation

26 member companies

40 members on standards committees of ASTM, ANSI, NACE, SSPC, NEMA, NAMF, DCMA, AWS, ISO, AESF, MFSA, and a number of others

Scope

The cadmium industry's market development and informational organization in North America, promoting increased usage of cadmium metal and chemicals through technology transfer, technical services, regulatory activities, and publicity programs. Maintains an awareness of studies on the environmental effects of cadmium and of the regulations affecting the manufacture, use, and disposal of cadmium-containing products. A nonprofit trade association supported by producers and consumers of cadmium both in North America and throughout the world.

Standardization Activities

Promotes the increased use of cadmium metal and chemicals and maximizes the effectiveness of its members on national standards committees. Assists the work of standards developing bodies within its area of interest by designating Council members to coordinate with the appropriate code bodies.

Participates in developing standards including specifications for cadmium electroplating for corrosion and wear properties, color pigments, nickel-cadmium, and other cadmium-containing batteries, cadmium chemical stabilizers in plastics, and for a wide variety of soldering and brazing alloys.

Keywords

electroplating; corrosion protection; pigments; batteries; chemicals; materials;

CAN MANUFACTURERS INSTITUTE

David Sorensen, Director, Finance and Statistics

1625 Massachusetts Avenue, NW
Washington, DC 20036
(202) 232-4677

Founded: 1939

**Type of
Organization**

Technical Society
Standards Developer

Scope

A nonprofit membership corporation representing U.S. manufacturers of all metal cans. The membership is concerned with government specifications for cans and legislation affecting cans and can standards.

**Standardization
Activities**

Maintains Can Standards Committee which develops standards on sanitary cans for sizes in general demand. Creates ad hoc subcommittees as necessary to study and/or recommend specific standards for full committee action. Maintains contact with the National Institute of Standards and Technology and the International Organization for Standardization in the formation of standards.

Publishes Recommended CMI Voluntary Industry Can Standards. Recommended standards are strictly voluntary, but conforming is encouraged as being beneficial to can manufacturers and can users.

Availability

Distributed directly

Keywords

can manufacture; packaging;

CARPET AND RUG INSTITUTE

E. Ken McIntosh, Director of Technical Services

Box 2048
Dalton, Georgia 30720
(404) 226-3877

Founded: 1963

Standards Staff: 4

**Type of
Organization**

Trade Association
Works through other organizations to develop standards

Representation

AATCC, ASTM, NFPA and other standard development organizations

Scope	A national trade association of 101 carpet and rug manufacturers and 118 companies supplying services and products to the industry. Works on a national and international level to promote its products and provide satisfaction with these products.
Standardization Activities	Standards activities are based on the development of tests which can be used by industry and interested parties to test various components or characteristics of carpets and rugs.
Formerly	American Carpet Institute Tufted Textile Manufacturers Association
Keywords	carpet; rugs; consumer products;

CAST IRON SOIL PIPE INSTITUTE

William H. LeVan, Executive Vice President

5959 Shallow Ford Road
Suite 419
Chattanooga, Tennessee 37421
(615) 892-0137

Founded: 1949

Type of Organization	Trade Association Standards Developer
Standards Development	Standards developer since 1949 Technical Committee develops Standards pending approval of the Institute's Board of Directors; ASTM A74-82, endorsed by CISPI
Standards Designation	CISPI prefix
Government Adoption	HUD, WW-P-401E; PBS (PCD) 15410; DOD 4270.21; CEGS 15400; CE 300.01; CE 300.02; CE 600.01; NAVFAC TS-15301; and NAVFAC TS-15401
Certification	No certification, qualification, or accreditation programs
Scope	Aids the U.S. plumbing industry in cooperation with the soil pipe manufacturers. Efforts include product improvement, standardization of soil pipe and fittings, and testing, evaluation, and development in the interest of public health and safety.

Standardization Activities	Develops standards for cast iron soil pipe and fittings which are accepted throughout the United States. These standards set dimensions and specifications which provide interchangeability between all manufacturers' pipes and fittings. The CISPI Standards are national in scope. The Technical Committee administers CISPI's Standardization Activities.
	The Institute's Technical Committee meets two times a year to review standards, engage in research and development activities, and update CISPI publications.
Availability	Through ASTM and plumbing wholesalers and distributors
Keywords	cast iron; plumbing; sanitation; construction; building;

CASTER AND FLOOR TRUCK MANUFACTURERS ASSOCIATION

	Thomas D. Dolan, Executive Secretary
	800 Custer Avenue Evanston, Illinois 60202 (312) 864-8444
	Founded: 1933
Type of Organization	Trade Association Standards Developer
Standards Development	Standards developer since 1950 Forty members participate in standards activities Industrial Caster Standard MH11.1 processed through ANSI
Standards Designation	CFTMA Guides
Scope	A national trade association representing manufacturers of industrial casters and wheels and manually-operated industrial floor trucks. Maintains liaison with the Defense Supply Agency, DISC, Department of the Army, and GSA.
Standardization Activities	Publishes "Guide to Understanding and Specifying Industrial Casters and Wheels" which includes standard information on casters and wheels.
Availability	Sold directly
Keywords	casters; floor trucks; industrial equipment;

CEDAR SHAKE AND SHINGLE BUREAU

Michael M Westfall, President

515 116th Avenue, NE, Suite 275
Bellevue, Washington 98004
(206) 453-1323 FAX: (206) 455-1314

Founded: 1915

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Designation**

Grading Rules for Certi-Split Red Cedar Shakes - 1985
Grading Rules for Certigrade Red Cedar Shingles - 1984
Grading Rules for Cert-Saun Red Cedar Shakes - 1981

**Government
Adoption**

Adopted by all national model building codes which are now recognized by the U.S. Department of Housing and Urban Development (HUD)

Certification

Performs unannounced inspections of over 300 shake and shingle mills in the northwest United States and Canada. Prints and issues labels for product identification for use by complying mills.

Scope

Membership includes manufacturers, distributors and users of red cedar shakes and shingles. In addition, inspects and labels shakes and shingles manufactured from species other than red cedar under the auspices of the Wood Shake and Shingle Association, an in-house subsidiary. Promotes the acceptance and use of shake and shingle roofing and siding materials through advertising and trade promotion.

**Standardization
Activities**

Develops and revises standards relating to the quality, packaging and application of shakes and shingles.

Formerly

Red Cedar Shingle and Handsplit Shake Bureau - 1988
RCSHSB formed from merger of Red Cedar Shingle Bureau and Handsplit Cedar Shake Association - 1963
Red Cedar Shingle Bureau formed in 1915

Keywords

wood products; roofing; grading rules; inspection; lumber; building;

CEILINGS AND INTERIOR SYSTEMS CONSTRUCTION ASSOCIATION

Carl A. Wangman, Executive Vice President

104 Wilmot Road
Suite 201
Deerfield, Illinois 60015-5195
(708) 940-8800

Founded: 1949

Type of Organization	Trade Association Works through other organizations to develop standards
Representation	ASTM
Scope	An international organization serving the needs of specialty subcontractors who sell and install ceiling systems, as well as other related products and systems. Provides programs for exchanging information about the industry and its trends, and develops working alliances with other organizations within the construction contracting industry to deal with common problems.
Standardization Activities	Participated in the development of the American Society for Testing and Materials (ASTM) Standard Specification for Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings (ASTM C635-69), and Standard Recommended Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels (ASTM C636-69). Also active in the development of Recommended Standards for Seismic Restraint of Direct-Hung Suspended Ceiling Assemblies.
Formerly	National Acoustical Contractors Association (1969) Ceilings and Interior Systems Contractors Association (1949)
Keywords	acoustical tile; ceilings; buildings;

CELLULOSE INDUSTRY STANDARDS ENFORCEMENT PROGRAM

Daniel Lea, Administrator

1315 Talbott Tower
Dayton, Ohio 45402
(513) 223-1891

FAX: (513) 222-5794

Founded: 1982

Type of Organization	Certification Program Works through other organizations to develop standards
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Certification	Certifies compliance with CPSC Interim Safety Standard 16 CFR Part 1209 and ASTM C-739 for initial certification. Monitors and documents continuing compliance with fire, corrosion, and settled density sections of ASTM C-739, and FTC "R-Value-Rule" (16 CFR Part 460).
Scope	Open to all manufacturers of loose-fill cellulose insulation in the United States and territories. Since elements of program are based on U.S. law there is no international membership.
Standardization Activities	Most CISEP participants and the Program Administrator are active members of ASTM Committee C-16, which is responsible for standard Specification C-739, which is the core of the Program's enforcement activity. CISEP represents the U.S. cellulose insulation industry on the ISO Insulation Standards Committee. CISEP works to promote uniformity and compatibility of standards and regulations that apply to cellulose insulation.
Keywords	insulation; cellulose insulation; thermal insulation; building materials; loose-fill insulation;

CEMENTED CARBIDE PRODUCERS ASSOCIATION

Allen P. Wherry, Commissioner

30200 Detroit Road
Cleveland, Ohio 44145
(216) 899-0010

Telex: 98-5559
FAX: (216) 892-1404

Founded: 1955

Standards Staff: 3

Type of Organization	Trade Association Standards Developer
Standards Development	30 active standards
Standards Designations	ANSI B212.x
Secretariats	Promulgates its documents through ANSI/ASC B212. Accredited Standards Committee for cemented carbide.
Scope	Manufacturers of cemented tungsten carbide cutting tools, dies, and wear parts.

Standardization Activities	Actively engaged in standardization activities through ANSI/ASC Committee B212, TC-1; develops standards dealing with the dimensional, physical, metallurgical, and chemical aspects of cemented carbide products; cooperates with ISO, ASTM, NIST, and others in standards development; standards include turning tools, wire, bar and tube drawing dies; and sampling and testing methods for hard metals.
Availability	Distributed directly
Keywords	carbide; materials, manufacturing;

CENTER FOR AGRICULTURAL EQUIPMENT

Dr. Louis I. Leviticus, Associate Director

AEL Building - East Campus
University of Nebraska
Lincoln, Nebraska 68583-0832
(402) 472-2442 FAX: (402) 472-6338

Type of Organization	Research Organization Works through other organizations to develop standards
Representation	Represented on relevant SAE, ASAE, and OECD committees as well as International Technical Advisory Groups.
Standardization Activities	Testing of equipment for industry according to established standards. Develop proposals for new standards when technology requires. Specific examples include noise test standards for tractors, protective structure test, partial power PTO test, and hydraulic lift capacity (dynamic) test.
Keywords	agricultural machinery; off-road equipment; engines; testing; fuels; safety; consumer products;

CERTIFIED AUTOMOTIVE PARTS ASSOCIATION

Jack Gillis, Executive Director

1518 K Street, NW
Suite 305
Washington, DC 20005
(202) 737-2212 FAX: (202) 737-2214

Founded: 1988

Type of Organization	Certification Organization Standards Developer
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Certification	Included in certification is inspection of the factory, evaluation of quality control manuals used in the manufacture of the parts, inspection and review of the manufacturing process, materials testing, corrosion testing of metal parts and the evaluation of the fit and finish of the final product.
Scope	The CAPA program certifies sheet metal and plastic auto body parts. The program is open to all manufacturers of such parts. There are currently over 550 competitive aftermarket auto body parts which have been certified as meeting CAPA's standards for quality, fit and finish.
Standardization Activities	Standards are developed under the auspices of CAPA's Technical Committee which is made up of representatives from the insurance, auto body parts manufacturers, and parts distribution industries. These standards are developed with the assistance of independent technical testing laboratories.
Keywords	aftermarket auto body parts; transportation; automobile; manufacturing;

CERTIFIED BALLAST MANUFACTURERS

M. C. Davies, Secretary

1422 Euclid Avenue
Suite 772
Cleveland, Ohio 44115
(216) 241-0711

Founded: 1939

Type of Organization	Trade Association Works through other organizations to develop standards
Representation	ANSI, UL
Certification	Certification program for ballasts operating standard fluorescent lamps. Open to any manufacturer who wishes to qualify. To be certified CBM, ballasts must meet performance requirements of ANSI specifications C82.1, including the electrical requirements specified in the C78 standard for the lamp type to be operated. Ballasts must also be UL listed and High Power Factor. Compliance is repeatedly verified by ETL Testing Laboratories, an independent testing organization, which periodically selects samples at random from manufacturers' current CBM production and tests them, as prescribed in ANSI C82.2 and C82.3.

Scope	Major producers of ballasts for fluorescent lamps. Promotes fluorescent lighting by encouraging the manufacture of ballasts which provide quality performance.
Standardization Activities	Works through ANSI to develop standards for fluorescent ballasts.
Formerly	Ballast Advisory Committee (1949)
Keywords	fluorescent lighting; ballasts, electrical equipment;

CHAIN LINK FENCE MANUFACTURERS INSTITUTE

Mark Levin, CAE, Executive Vice President

1776 Massachusetts Avenue, NW

Suite 500

Washington, DC 20036

(202) 659-3536

FAX: (202) 659-1244

Founded: 1960

Type of Organization	Trade Association Standards Developer
Scope	Provides a forum to exchange ideas; promotes the use of chain link fence; collects statistics and works with consumers to develop guidelines for fence products.
Standardization Activities	Coordinates the entire fence specification field with the American Society for Testing and Materials. Works toward setting universal standards for fence specification. Develops voluntary consensus standards. Promotes the usage of ASTM standards throughout the industry. Publishes a Product Manual which includes ASTM standards.
Availability	Distributed directly
Keywords	fence; construction;

CHEMICAL FABRICS AND FILM ASSOCIATION

Charles M. Stockinger, Executive Secretary

1230 Keith Building

Cleveland, Ohio 44115

(216) 241-7333

Telex: 980393 - Thomas Assoc.

Founded: 1927

Standards Staff: 2

Type of Organization	Trade Association Standards Developer
Standards Development	12 member companies participating in standards activities Draft standards available for review by non-members None processed through ANSI
Scope	A voluntary, nonprofit trade association which includes among its members 12 North American manufacturers of chemically coated fabrics and PVC sheet and film. Represents its membership in technical, environmental, and governmental affairs of interest to the industry. One of its objectives is to inform and educate the consuming public regarding the uses and merits of chemical fabrics and film; interested in encouraging high standards of quality and service throughout the industry.
Standardization Activities	Directed toward the setting of voluntary performance and quality standards for various product lines. Solicits input for all interested parties. Works closely with the American Society for Testing and Materials. Committees review and make recommendations on government standards, specifications, and documents; and participate in standards programs with the National Institute of Standards and Technology, Underwriters Laboratories, and other standard setting organizations related to the industry. Standards are voluntarily adopted by manufacturers and users and applied to various product lines when performance, reliability, and safety are essential.
Availability	Distributed directly
Formerly	Institute of Leather Cloth and Lacquered Fabric Manufacturers (1932) Pyroxylin and Resin Coaters Institute (1943) Plastic Coatings and Film Association (1948) Vinyl Fabrics Institute (1955)
Keywords	coated fabrics; sheet and film; upholstery; vinyl; wall covering; materials;

CHEMICAL MANUFACTURERS ASSOCIATION

Geraldine V. Cox, Vice President

2501 M Street, NW
Washington, DC 20037
(202) 887-1100

Telex: 89617 CMA WSH
FAX: (202) 887-1237

Founded: 1872

Standards Staff: 2

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Processed through ANSI

**Standards
Designation**

ANSI

Scope

A nonprofit trade association whose company members represent more than 90% of the productive capacity of basic industrial chemicals within this country.

**Standardization
Activities**

As a standards developer using the canvass method, sponsors American National Standard Z129.1, Precautionary Labeling of Hazardous Chemicals. As a standards developer using the committee method, sponsors American National Standards Committee B96, Welded Aluminum-Alloy Storage Tanks.

Provides over 50 members to serve as its representatives on national standards committees, boards, and councils dealing with standards for plant equipment, packaging equipment, transportation equipment, and occupational safety and health. Standards organizations involved include ANSI, AAR, ASME, NFPA, and SSCI.

Participates heavily in standards development proposed by other organizations for adoption as American National Standards by the canvass route. Standards organizations involved include API, CEMA, IEEE, ISA, MSSVFI, NEMA, SPI, and UL. Also participates in ASTM committees on occupational health and safety, waste disposal, spills, and analysis of industrial chemicals.

Availability

Distributed through ANSI

Formerly

Manufacturing Chemists Association (1979)

Keywords

labeling; hazardous chemicals; materials;

CHEMICAL SPECIALTIES MANUFACTURERS ASSOCIATION

Douglas Fratz, Director, Scientific Affairs

1913 Eye Street, NW
Washington, DC 20006
(202) 872-8110

(202) 872-8114

Founded: 1914

Standards Staff: 2

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Designation**

CSMA prefix or CSMA Bulletin No.

**Government
Adoption**

CSMA product performance evaluation methods have been used for government procurement purposes by GSA. Many have been adopted by ASTM.

Scope

Four hundred companies involved in manufacturing, formulating, packaging, and marketing chemical specialties products, including home, lawn, garden, transportation, institutional, and industrial products. Works in various areas, including federal and state governmental affairs (both legislative and regulatory), communications, public relations, marketing, legal affairs, and scientific and technical affairs.

**Standardization
Activities**

Develops standard product characterization methods, product performance evaluation test methods, and recommended practices for manufacturers and formulators of chemical specialties products through numerous scientific and technical committees in CSMA's six divisions: (1) Aerosol; (2) Industrial and Automotive Specialties; (3) Detergents and Cleaning Compounds; (4) Disinfectants and Sanitizers; (5) Pesticides; and (6) Waxes, Polishes, and Floor Finishes.

Has numerous representatives on committees of voluntary consensus organizations such as ANSI, ASTM, NFPA, ANMC, and AOAC. Standards originated and promoted by CSMA are now ASTM, AOAC, SAE, or other standards as well. Published manuals and compendiums including: Aerosol Guide; Detergents and Cleaning Compounds Test Methods Compendium; Microbiological Test Methods Compendium; Waxes, and Polishes and Floor Finishes Test Methods and General Information.

Availability

Distributed directly

Formerly

National Association of Insecticide and Disinfectant Manufacturers (NAIDM)

Keywords

chemical specialties; household chemicals; aerosols; automotive chemicals; disinfectants; sanitizers; detergents; cleaners; pesticides; insecticides; waxes; polishes; floor finishes; materials; consumer products;

CHLORINE INSTITUTE

Robert G. Smerko, President

2001 L Street, NW
Suite 506
Washington, DC 20036
(202) 775-2790

FAX: (202) 223-7225

Founded: 1924

Type of Organization	Trade Association Works through other organizations to develop standards
Representation	Standards committees of ANSI, ASTM, AWWA, NFPA, and committees of the Association of American Railroads
Scope	Concerned with the safe manufacture, transportation, and use of chlorine and caustic soda in the United States and Canada. Committees provide comments on draft standards pertinent to the industry.
Standardization Activities	Publishes literature and drawings of equipment as guidelines and recommended practices for handling chlorine, caustic soda and caustic potash.
Keywords	chlorine; caustic soda; caustic potash; chemicals; safety; materials;

CLEANING EQUIPMENT MANUFACTURERS ASSOCIATION

Maxine Lee Couture, Executive Vice President

111 East Wacker Drive
Suite 600
Chicago, Illinois 60601
(312) 644-6610

Founded: 1980

Type of Organization	Trade Association Standards Developer
Standards Development	Standards developer since 1981 50 members participate in standards activities 12 members are represented on the standards committee UL Standard 1776 Draft standards available for review
Standards Designations	CEMA Standards for Cleaning Machines

Scope	An international trade association of manufacturers which make commercial-industrial cleaning machines including cold water high pressure cleaners and blasters, hot water high pressure cleaners, steam cleaners, and water jetting equipment.
Standardization Activities	Activities directed toward the development of nationally recognized Equipment Safety Standards intended to provide a basis for common understanding and reference within the cleaning equipment industry among suppliers, manufacturers, distributors, dealers, resellers or installers, and owner-users; and serve as reference guides for government agencies, and industry when making purchasing decisions. Anticipates standards adoption as national consensus standards through ANSI. Circulates draft standards among its membership and also Underwriters Laboratories.
Availability	Distributed directly
Keywords	cleaning machines; water blasters; industrial equipment; steam cleaners;

COATED ABRASIVES MANUFACTURERS INSTITUTE

Charles M. Stockinger, Managing Director

1230 Keith Building
Cleveland, Ohio 44115
(216) 241-7333

Telex: 980-393

Founded: 1933

Standards Staff: 2

Type of Organization	Trade Association Standards Developer
Standards Development	7 member companies participate in standards activities Standards processed through ANSI Draft standards available for review
Secretariats	CAMI Technical Committee serves as Technical Committee on Coated Abrasives of the B74 Committee. CAMI Safety and Industrial Health Committee serves as the Technical Committee B7 of the B74 Committee.
Scope	A voluntary, nonprofit association of manufacturing companies which coat and manufacture various types and forms of coated abrasive products in the United States.
Standardization Activities	Develops standards for grading of certain abrasive grains on coated abrasive products. These specifications include grading requirements for screen grit size and sedimentation grit sizes of aluminum

oxide, silicon carbide, garnet, emery, and flint abrasive grains for use on coated abrasive products; procedures for recovery of abrasive grains from products to be tested; and procedures for testing recovered abrasive grains to determine if they conform to grading requirements. Definitions of the trade terms used and methods for identifying products which conform to this standard are included.

Also develops standards which establish the minimum safety requirements related to the usage of coated abrasive forms. Requirements apply to hand-held and fixed-mounted machine operations that use some form of coated abrasive product, and to safety-related maintenance precautions for machines and machine parts. Also contain safety requirements pertinent to operator and bystander protection, dust collection, and potentially hazardous environmental conditions.

Availability Distributed directly and through ANSI

Keywords abrasives; manufacturing; safety; industrial equipment;

COLLEGE OF AMERICAN PATHOLOGISTS

Lee VanBremen, Executive Director

325 Waukegan Road
Northfield, Illinois 60093-2750
(708) 446-8800

Founded: 1947 Standards Staff: 1

Type of Organization Professional Society
Standards Developer and works through other organizations to develop standards

Certification Operates a voluntary accreditation program for medical laboratories; commissioned by the National Research Council to batch certify secondary cyanmethemoglobin standards.

Scope A nonprofit association of more than 10,000 pathologists. Develops and offers programs for the improvement and maintenance of the quality of medical and physician office laboratory testing. Operates a national proficiency survey program with over 13,000 medical and 7,000 physician office laboratories participating.

Standardization Activities A 9 member Standards Committee coordinates development of reference materials for standardization of medical laboratory tests, coordinates liaison with other

standard setting organizations. Identifies problems in standards development, coordinates their solution. Collaborates with the National Institute of Standards and Technology, the National Institutes of Health, and the Centers for Disease Control.

Availability

Sold directly

Keywords

pathology; medicine; medical; laboratory; proficiency; accreditation; health care;

COLOR ASSOCIATION OF THE UNITED STATES

Marielle Bancou, Executive Director

409 West 44th Street
New York, New York 10036
(212) 582-6884

FAX: (212) 757-4557

Founded: 1915

Standards Staff: 1

**Type of
Organization**

Trade Association
Standards Developer

**Government
Adoption**

DoD Color Card

Certification

No certification, qualification, or accreditation programs

Scope

Membership comes from the textile and fashion industries, and the interior design and environmental fields. Issues seasonal color forecasts of dyed fabrics for women's and men's apparel twice a year. Issues a yearly forecast of interior colors for the interior and environmental fields; these forecasts are applicable to companies producing dyestuffs, paints, automobiles, airplanes, home furnishings, textiles, plastics, cosmetics, and other products. Standardizes government and industry colors; offers consultations; maintains archives and fabric swatch library.

**Standardization .
Activities**

Produces a Standard Color Card of America for the purpose of simplifying color work by establishing color standards favored for use in the United States. The card presents a comprehensive palette of preferred American colors and is primarily directed to the textile, fashion, and environmental industries.

Availability

Distributed directly

Keywords

textile; fashion; interior design; color; sports; consumer products; general;

COMMERCIAL REFRIGERATOR MANUFACTURERS ASSOCIATION

Robert T. Chancler, Executive Director

1101 Connecticut Avenue, NW
Suite 700
Washington, DC 20036
(202) 857-1145

Founded: 1933

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

One active standard

**Standards
Designation**

CRS prefix

Certification

No certification, qualification, or accreditation programs

Scope

Manufacturers of refrigerated display cases and cabinets, food service refrigerators, and sectional cooling rooms.

**Standardization
Activities**

Develops and revises Voluntary Minimum Standard for Retail Food Store Refrigerators - Health and Sanitation, CRS-S178 - as required.

Availability

Sold directly

Keywords

refrigerators; refrigeration;

COMPOSITE CAN AND TUBE INSTITUTE

Kristine Garland, Executive Vice President

1818 N Street, NW
Suite T-10
Washington, DC 20036
(202) 223-4840

Founded: 1933

**Type of
Organization**

Trade Association
Standards Developer

Scope

A nonprofit international organization which fosters the collective interests of the composite can, tube, core, and fiber drums industry.

**Standardization
Activities**

Administers a Technical Committee active in standards development.

Does not participate in international programs or federal government standardization activities, except when requests are received for specific information.

Publishes standard testing procedures to provide uniform methods for both manufacturers and users to measure and test the physical characteristics of composite cans, tubes, and cores. Develops and publishes recommended industry standards covering dimensions for certain high volume types of composite cans to accommodate customers' closing and handling equipment. Publishes guidelines as sources of information for manufacturers and users of industry products. Publishes and revises testing procedures.

Availability

Distributed directly

Formerly

National Fibre Can and Tube Association (1970)

Keywords

composite cans; composite tubes; packaging; cores; fiber drums;

COMPRESSED AIR AND GAS INSTITUTE

John H. Addington, Secretary-Treasurer

1230 Keith Building
Cleveland, Ohio 44115
(216) 241-7333

FAX: (216) 241-0105

Founded: 1915

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

45 member companies participate in the standards development for industry products used in manufacturing, construction, mining, and other industries.

Scope

A national trade association of companies which manufacture air and gas compressors, pneumatic machinery and compressed air and gas drying equipment.

**Standardization
Activities**

Representative standards that the institute has developed include performance statements which identify parameters for performance evaluation of centrifugal compressors; a test standard for rating compressed air dryers; and the test code for sound measurement of pneumatic equipment, ANSI S5.1. The latter standard

was developed jointly with the European Committee of Manufacturers of Compressed Air Equipment.

Availability Sold directly

Keywords noise control; construction; manufacturing; industrial equipment; safety; machinery;

COMPRESSED GAS ASSOCIATION

Carl T. Johnson, President

1235 Jefferson Davis Highway
Suite 501

Arlington, Virginia 22202

(703) 979-0900

Telex: 650 339 1969 MCI WW

FAX: (703) 979-0134

Founded: 1913

Standards Staff: 15

Type of Organization Trade Association
Standards Developer

Standards Development Standards developer since 1913
250 member companies participating in standards activities
90 active standards, including metric

Standards Designation CGA prefix; in some instances, standards also bear ANSI and Canadian Standards Association (CSA) designations.

Government Adoption Standards comply with Department of Transportation and other government agencies where applicable (federal, state, and local regulations).

Certification No certification, qualification, or accreditation programs

Scope Provides, develops, and coordinates technical activities in the compressed gas industries, including end-uses of products, so that they may serve the best interest of the public and industry. Active primarily in the fields of safety and technical specifications pertaining to the compressed gas and related product and service industries, including the medical fields of anesthesia and respiration.

Standardization Activities Collaborates with national organizations such as the NFPA, the National LP-Gas Association, ASTM, ANSI, AAR, and the American Society of Anesthesiologists, to develop far-reaching specifications and standards of safety to benefit industry and the public.

Compiles information and publishes material, such as the Handbook of Compressed Gases, and pamphlets which contain a description of the used gases and give in detail the safest methods for handling and storing gases. Provides audiovisual presentations.

Conducts national and regional technical meetings and seminars to discuss practices, standards, and problems related to the broad spectrum of the compressed gas industries.

Submits recommendations to appropriate government agencies to improve safety standards and methods of handling, transporting and storing gases. Acts as advisor to authorities, some of which are regulatory such as the U.S. Department of Transportation, the U.S. Interstate Commerce Commission, U.S. Coast Guard, U.S. Food and Drug Administration, Canada's Board of Transport, and state, provincial, municipal, and local agencies concerned with the safe handling of compressed gases. Participates in committees of the United Nations and the International Organization for Standardization (ISO).

Availability	Distributed directly and through IHS and Global
Formerly	Compressed Gas Manufacturers Association (1949)
Keywords	compressed gases; medical; cryogenic; safety; transportation; materials; cylinders;

COMPUTER AIDED MANUFACTURING INTERNATIONAL

Ben E. Kaminski, President

1250 East Copeland Road
Suite 500

Arlington, Texas 76011-8098

(817) 860-1654

Telex: (817) 275-6450

Founded: 1972

Standards Staff: 2

Type of Organization

Trade Association
Standards Developer and works through other organizations to develop standards

Standards Designation

ANSI/CAM-I

Scope	A nonprofit research and development membership corporation dedicated to advancing state-of-the-art technology in the application of computers to manufacturing.
Standardization Activities	CAM-I is an accredited standards-making body of ANSI. The CAM-I Standards Committee maintains an active membership of representatives from the industrial and educational members of the CAM-I organization. It develops proposed standards, adopts existing standards, or encourages development of these standards by organizations such as ANSI and NIST. Proposes and fosters national and international standards in association with ANSI, ISO, and other standards groups. Addresses and reviews needed standards; evaluates their potential impact on CAM-I member companies, national, and international standards.
Formerly	Auto-program-tools Long Range Program (ALRP) (1972)
Keywords	CAD/CAM; computers; software; manufacturing; geometric modeling; process planning; NC; cost management; quality assurance; scheduling;

COMPUTER AND BUSINESS EQUIPMENT MANUFACTURERS ASSOCIATION

	John L. Pickitt, President
	311 First Street, NW Washington, DC 20001 (202) 737-8888
	FAX: (202) 639-4922
	Founded: 1916
	Standards Staff: 9
Type of Organization	Trade Association Standards Developer
Standards Development	50 member companies active in standardization activities 325 standards All processed through ANSI 65 waiting approval
Secretariats	American National Standards Committee X3, Information Processing Systems Technical Administrator for U.S. TAG for ISO-IEC/JTC1, Information Technology
Scope	A nonprofit organization that provides its members a forum for industry consultation and united action; a means for communicating facts and views of the industry to government, to other industries, and the public.

Standardization Activities

Does not publish standards in its own name but participates actively with national standards bodies. An organizational member of ANSI. Through its Environment and Safety Committee, represents its members to other American National Standards Committees, including B11, Safety Standards for Machine Tools; C63, Radio-Electrical Coordination; C101, Leakage Current for Appliances; S1, Acoustics; S12, Noise; Z136, Laser Safety. Serves on the ANSI Executive Standards Council, Information Systems and Electrical and Electronics Standards Boards, the Industrial Automation Panel, and participates in the Underwriters Laboratories Industry Advisory Conference, Office Appliances and Data Processing Equipment sections.

Promotes standards through publicity in association communications and the technical and trade press; distribution by member companies; reference to, and incorporation of, standards in member company public and internal technical publications; and through implementation of standards in member company products. Active standards committees and projects are listed in CBEMA annual and periodic activity reports.

Through American National Standards Committee X3, member companies participate in corresponding ISO-IEC JTC1, Information Technology, providing direct support to ANSI. Through the Underwriters Laboratories and the U.S. National Committee, CBEMA supports International Electrotechnical Commission Technical Committee 74, Safety of Office Machines and Data Processing Equipment. Also maintains active liaison and cooperation with the International Consultative Committee for Telephony and Telegraphy, CCITT, and the standards programs of the Information Technology Association of Canada, the European Computer Manufacturers Association (ECMA), and with national industry standards bodies of Japan and European countries.

Cooperates with the Federal Information Processing Standards (FIPS) program by direct liaison and exchange of documents between X3 and the National Institute of Standards and Technology. Represents the industry to the standards program of the Occupational Safety and Health Administration, Department of Labor, and related activities of the Department of Health and Human Services.

Availability

Distributed directly and through ANSI and member companies

Keywords automation; computers; data processing; information processing; information systems; office machines; communications; information technology; electronic data interchange;

COMPUTER SOFTWARE AND SERVICES INDUSTRY ASSOCIATION (ADAPSO)

Luanne James, Executive Director

1300 North 17th Street
Suite 300
Arlington, Virginia 22209
(703) 522-5055 FAX: (703) 525-2279

Founded: 1960

Type of Organization Trade Association
Works through other organizations to develop standards

Representation Active in the standards activities of IEEE and ANSI

Scope 700 member companies offering data processing services and software to the public. Seeks to improve management methods, develop service possibilities and define standards of performance.

Standardization Activities Monitors standards which may affect its members, but does not actively participate in standards development. Serves as a clearinghouse for standards on computer networks, software, hardware as it affects software, disks, and diskettes and associated products. Cooperates with Network Users Association, National Institute of Standards and Technology, IEEE and ANSI.

Formerly Association of Data Processing Service Organizations

Keywords data processing; computer services; information industry; software; microcomputers;

CONCRETE PLANT MANUFACTURERS BUREAU

CONTROL SYSTEMS MANUFACTURERS DIVISION (CSMD)
PLANT MIXER MANUFACTURERS DIVISION (PMMD)

Raymond F. Wisniewski, Executive Secretary

900 Spring Street
Silver Spring, Maryland 20910
(301) 587-1400

Founded: 1958

Type of Organization	Trade Association Standards Developer; affiliated with the National Ready Mixed Concrete Association
Standards Designations	CPMB, CSMD, and PMMD prefixes
Government Adoption	Widely used and referenced in government standards and specifications.
Certification	CPMB and PMMD rating plates are affixed to concrete plants and plant mixers meeting Bureau standards. CSMD uses stickers instead of plants to be affixed to control systems.
Scope	Develops engineering standards with a view toward simplification and standardization of sizes, capacities, and other criteria associated with the manufacture of concrete plants.
Standardization Activities	Develops standards for concrete plants and concrete mixers. Bureau standards subject to approval by the National Ready Mixed Concrete Association. Represented on committees of the National Ready Mixed Concrete Association. Participates in the development of governmental specifications or their interpretation.
Availability	Distributed directly
Keywords	concrete; concrete plants; materials; construction;

CONCRETE REINFORCING STEEL INSTITUTE

Victor A. Walther, Jr., Vice President

933 North Plum Grove Road
Schaumburg, Illinois 60173
(708) 517-1200

Founded: 1924

Type of Organization	Trade Association Standards Developer
Scope	Represents mill producers, fabricators, and suppliers of reinforcing bars. Associated members include producers and suppliers of other products used in concrete construction and fabricating equipment manufacturing. Increases the use of reinforcing bars through research, education, promotion, improved efficiency for lower final costs through better design, improved materials, and construction techniques.

Standardization Activities	Technical activities are conducted by the CRSI Engineering Practice Committee and subcommittees on bar supports, placing reinforcing bars, concrete joist construction, detailing reinforced concrete, and splicing reinforcing steel.
Availability	Sold directly
Keywords	reinforcing steel; concrete; joists; construction; building;

CONSTRUCTION INDUSTRY MANUFACTURERS ASSOCIATION

Fred J. Broad, President and Secretary

111 East Wisconsin Avenue
Bank One Plaza 940
Milwaukee, Wisconsin 53202
(414) 272-0943

Founded: 1909

Type of Organization	Trade Association Standards Developer
Standards Designation	PCSA Standard; LEMB prefix

Scope	A nonprofit U.S. trade association representing 200 companies which manufacture heavy construction machines and related components used in the general construction, roadbuilding, housing, mining, energy, and forestry fields.
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Acts as a forum for its member companies to discuss and act upon problems and issues of industry-wide concern, including product safety, machine performance standards, government liaison, international trade, statistical marketing data, parts and service information, and energy management.

Standardization Activities	Acts as a clearing house for the construction equipment manufacturing industry in the areas of safety, health, and environmental performance standards for construction machines. The term "performance standards" refers to performance criteria for machine safety, protective devices, noise characteristics, etc., as opposed to engineering standards which dictate design. Published standards include those for mobile cranes and excavators and ratings of vibratory rammers and plates.
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Representatives deal with technical issues (including machine nomenclature, classification and specifications; voluntary consensus standards; regulations; and research) and safety oriented issues for machines such as crawler tractors and loaders, wheel loaders and tractors, graders, dumpers (off-highway haulers), tractor-scrappers, compactors, planers, soil stabilizers, cranes, and excavators.

Active in the broad area of commercial standards that cover product maintenance, usage, certification, test, and inspection. Writes and publishes commercial standards used by the American National Standards Institute in development of consensus standards.

Availability

Sold directly

Keywords

construction; machinery; road building; mining; forestry;

CONSTRUCTION SPECIFICATIONS INSTITUTE

Joseph A. Gascoigne, Executive Director

601 Madison Street
Alexandria, Virginia 22314
(703) 684-0300

Founded: 1948

**Type of
Organization**

Technical Society
Standards Developer

**Standards
Development**

Standards developer since 1964
350 guide specifications
SPECTEXT - 440 sections
SPECTEXT II - 100 sections
None processed through ANSI
Drafts not available for review

**Standards
Designations**

MASTERFORMAT; SPECTEXT; SPECTEXT II; Manual of Practice

**Government
Adoption**

The Department of Defense has adopted CSI MP-2-1 MASTERFORMAT, Master List of Titles and Numbers for the construction industry.

Scope

A national technical society dedicated to the advancement of construction technology through communication, education, research, and service. CSI serves the interests of more than 19,000 architects, engineers, specifiers, contractors, product manufacturers, and others in the construction industry.

**Standardization
Activities**

Activities are directed toward standardization of the language and format of construction specifications, as well as format, organization, and coordination of the contents of the Project Manual for a construction project.

Publishes a Manual of Practice which provides techniques, procedures, and formats for the preparation and organization of construction documents. Included is MASTERFORMAT which was jointly issued with CSI's Canadian counterpart, Construction Specifications Canada. MASTERFORMAT provides a uniform system for organizing project cost data, and for filing product information and other technical data. The 16-Division concept presented in MASTERFORMAT has been adopted by government and private practices as a uniform approach for the organization of information contained in construction project manuals.

Produces SPECTEXT and SPECTEXT II through its research affiliate, The Construction Sciences Research Foundation (CSRF). SPECTEXT is a 440 section library of master guide specifications for construction projects prepared in accordance with CSI recommended practices. SPECTEXT II is for smaller, less complex projects. CSI has also developed a product information retrieval system (SPEC-DATA II) and an automated computerized system for specification text manipulation adaptable to all types of master specification programs.

Availability

Sold directly

Keywords

specifications; formats; construction documentation; construction; information processing;

CONSUMER FEDERATION OF AMERICA

Stephen Brobeck, Executive Director

1424 16th Street, NW
Washington, DC 20036
(202) 387-6121

Founded: 1968

**Type of
Organization**

Consumer Advocacy Organization
Works through other organizations to develop standards

Representation

ASTM Committee F-15
Consumer Products FDA
Cosmetic Ingredient Review

Scope Consumer membership organization composed of more than 200 national, state, and local groups committed to the goals of consumer advocacy and education. Advances pro-consumer policy before Congress, the Administration, regulatory agencies, and the courts; assists state and local consumer groups; and increases public and media awareness of consumer needs.

Standardization Activities Provides the consumer perspective for organizations which develop standards.

Keywords consumer advocacy; consumer products;

CONTAINERIZATION AND INTERMODAL INSTITUTE

Barbara Spector Yeninas, Executive Director

185 Fairfield Avenue
Suite 2-D
West Caldwell, New Jersey 07007
(201) 226-0160 FAX: (201) 226-4274

Founded: 1960

Type of Organization Trade Association
Works through other organizations to develop standards

Scope A membership trade association of shippers, carriage operators, terminal and port managers, and equipment manufacturers engaged in serving the containerization industry.

Standardization Activities Works through ISO and ANSI to develop standards. Works closely with the Transportation Association of America, Society of Packaging and Handling Engineers, Packaging Institute, Society of Automotive Engineers, and the National Defense Transportation Association.

Formerly Containerization Institute

Keywords containerization; intermodal transportation; cargo handling; transportation; packaging;

CONTRACTORS PUMP BUREAU

Walter D. Anderson, Executive Director

P.O. Box 5858
Rockville, Maryland 20855
(301) 340-2094

Founded: 1937

Type of Organization	Trade Association Standards Developer
Standards Development	Standards developer since 1937 12 members participating in standards activities Standards not processed through ANSI
Standards Designation	Contractors Pump Bureau standards
Government Adoption	These standards have been adopted by many state and local governmental agencies and by the U.S. Navy.
Certification	Certification is by the individual manufacturer who states that his products are manufactured in accordance with the standards of the Contractors Pump Bureau.
Scope	A national organization of manufacturers of pumps for use in the construction industry. Standards currently in use are the 15th revision adopted by the Bureau in July 1976.
Standardization Activities	Aimed toward the proper understanding and utilization and the various types of pumps used for construction. Assists users to determine the type and size of pump best suited for a specific job. Developed the Certified Performance Seal used by manufacturers. Does not test, inspect or certify pumps. Active standards self-priming centrifugal pumps, trash pumps, diaphragm pumps, and electrically driven submersible pumps.
Availability	Distributed directly
Keywords	pump; construction; industrial equipment;

CONVEYOR EQUIPMENT MANUFACTURERS ASSOCIATION

Raymond J. Lloyd, Executive Vice President

932 Hungerford Drive
Suite 36
Rockville, Maryland 20850
(301) 738-2448

Founded: 1933

Type of Organization	Trade Association Standards Developer
Standards Development	18 active standards; works through ANSI

Standards Designation	CEMA and ANSI/CEMA prefixes
Scope	Manufacturers and engineers of conveyors and conveying systems, portable and stationary machinery used in transport of raw materials and finished products in warehouses and on assembly line operations.
Standardization Activities	Develops standards for design, manufacture, and application of conveying machinery and component parts. Activities administered by CEMA Product Sections and CEMA Engineering Conference. Member of the American National Standards Institute. Also works with other organizations, such as the American Society of Mechanical Engineers, and with federal government organizations including the Occupational Safety and Health Administration, Office of Standards, and the Bureau of Mines.
Availability	Sold directly and through ANSI
Formerly	Association of Conveyor and Material Preparation Equipment Manufacturers (1935) Conveyor Association (1945)
Keywords	conveyors; machinery; industrial equipment;

COOKWARE MANUFACTURERS ASSOCIATION

	Paul Uetzmann, Executive Vice President
	P.O. Box 1177 Lake Geneva, Wisconsin 53147 (414) 248-9208
	Founded: 1922 Standards Staff: 1
Type of Organization	Trade Association Standards Developer
Standards Development	Standards developer since 1963 23 members participating in standards activities 16 active standards All processed through ANSI Draft standards available for review
Standards Designation	CMA prefix
Certification	No certification, qualification, or accreditation programs

Scope	A national trade association that represents U.S. companies engaged in the manufacture of cookware, bakeware, and miscellaneous cooking accessories. Promotes the welfare of the cookware industry, improves services to the public, and carries out activities in furtherance of the industry consistent with the public interest.
Standardization Activities	Establishes voluntary standards for products manufactured within the industry. Standards are intended as guides to aid the manufacturer, user, and general public. Standards cover procedures for determining sizes and capacities, uniform terminology for finishes and decorations, specifications for plastic handles and knobs, safety and health guidelines, metal specifications, and metric guidelines. Standards activity is the responsibility of a Standards/ Engineering Committee represented by members of domestic cookware/bakeware manufacturers. ANSI Z61.1-1979 has adopted all CMA standards for metal cookware and bakeware.
Availability	Sold directly and through ANSI
Formerly	Aluminum Ware Association (1963) Metal Cookware Manufacturers Association (1981)
Keywords	cookware; bakeware; microwave; food; consumer products;

COOLING TOWER INSTITUTE

Dorothy Garrison, Administrative Manager

P.O. Box 73383
Houston, Texas 77090
(713) 350-1995

Founded: 1950

Type of Organization	Technical Society Standards Developer
Standards Development	Standards developer since 1950 270 members participate in standards activities 11 active standards None processed through ANSI
Standards Designation	STD - Standard ATC - Acceptance Test Code WMS - Wood Maintenance Standard NCL - Nomenclature

Government Adoption	Many government bids include CTI Standards as part of the specifications.
Certification	The Cooling Tower Institute may certify that a line of towers will perform in accordance with the manufacturers' published ratings.
Scope	A nonprofit, technical association dedicated to the improvement of technology, design, performance, and maintenance of cooling towers and cooling tower systems. Consists of manufacturers, users, and suppliers of equipment and chemicals, as well as engineering firms having an interest in cooling water related problems including water and air pollution. International membership.
Standardization Activities	The standards activities of the Cooling Tower Institute are accredited by ANSI and center on fulfilling user-defined requirement of the industry and its customers. There are 10 published standards including recommended grades, grading rules, and allowable design stresses for redwood lumber; methods and instrumentation for determining water cooling capability of mechanical draft towers; and recommended material, manufacturing limitations, design requirements and allowable loads for timber fasteners. The Institute is also active on standards committees of NACE, ASME, and others.
Availability	Sold directly and through IHS
Keywords	cooling; industrial equipment; water;

COPPER DEVELOPMENT ASSOCIATION INC.

Arthur Cohen, Manager Standards and Safety Engineering

P.O. Box 1840
 Greenwich Office Park 2
 Greenwich, Connecticut 06836
 (203) 625-8232 Telex: 643784
 FAX: (203) 625-0174

Founded: 1963

Type of Organization	Trade Association Standards Developer
Standards Designation	Standards Handbook
Secretariats	U.S. TAG for Copper and Copper Alloys

Scope	An engineering development and market research organization for the copper and brass industry; develops new markets for copper and copper alloys; creates new concepts; builds prototypes and proves commercial feasibility for new applications of copper, brass, and bronze. Provides technical support to users of copper and copper alloys.
Standardization Activities	Carries out standardization activities for brass mill and foundry products. Publishes the Standards Handbook which covers tolerances; alloy data, both wrought and cast; terminology; engineering data; sources; and a specifications cross index. Cooperates with ISO and Pan American Standards Commission (COPANT). Reviews federal and military standards. A Technical Service and Standards Advisory Committee coordinates publication activities and participation in voluntary standard organizations.
Availability	Distributed directly
Formerly	Copper and Brass Research Association
Keywords	copper; brass; bronze; materials;

CORDAGE INSTITUTE

G.P. Foster, Executive Director

42 North Street
Hingham, Massachusetts 02043
(617) 749-1016

Founded: 1920

Type of Organization	Trade Association Standards Developer
Standards Development	Standards developer since 1924
Scope	Composed of rope and twine manufacturers in the United States, with some Canadian manufacturers and Cordemex of Mexico as special members. Promotes interests of the industry and improves its services to the public; compiles and distributes information; cooperates in handling problems common to the industry.
Standardization Activities	Maintains a Technical Committee which develops or participates in developing voluntary, consensus specifications for hard fiber and synthetic rope and twines. Works closely with the U.S. Army, U.S. Navy, the Maritime Administration, the Coast Guard, the

General Services Administration, and others. Works with the Defense Supply Agency (Defense Industrial Supply Center) in regard to military requirements. Cooperates with private organizations including American Merchant Marine Association (towing hawsers on ocean going vessels); American Society of Mechanical Engineers (sling Specifications); National Ski Area Association (rope tow and rescue rope specifications); New York City Fire Department (rescue ropes); public utility companies (specifications and test methods); National Fire Protection Association; and Oil Companies International Marine Forum.

Advises users, consumers and engineers on technical aspects of cordage, twines and ropes.

Ongoing projects include review of testing procedures for breaking strength standards, safety factors, updating of current DI specifications for ropes, chemical and temperature resistance of cordage fibers, resource or expert witness and testing laboratories, and development of standards for abrasion and wet tensile strength.

Participates in the activities of Technical Committee 38 - Textiles of the International Organization for Standardization (ISO), American Society for Testing and Materials (ASTM), Oil Companies International Marine Forum (OCIMF), National Fire Protection Association (NFPA).

Publishes technical data, including Quality Control-Minimum Standards; Specifications for Natural and Man-made Fiber Ropes; Standard Test Methods for Synthetic Fiber Ropes; Bend Tests Made on Natural and Synthetic Fiber Ropes; The Cordage Industry Directory; the Safe Use of Rope; Agricultural Twine Standards; Tying Twine standard; Cordage and Rope Definitions; Standard Terminations for Testing; and General Rope Usage.

Availability

Distributed directly

Keywords

rope; cordage; industrial equipment; twine; netting;

CORN REFINERS ASSOCIATION

Kyd D. Brenner, Director, Public Affairs

1100 Connecticut Avenue, NW
Washington, DC 20036
(202) 331-1634

Founded: 1913

Type of Organization	Trade Association Works through other organizations to develop standards
Representation	Seven member companies active in a variety of standards organizations
Secretariats	U.S. TAG ISO/TC 93
Scope	Association for the U.S. corn wet milling industry. Provides services in the areas of research, public information, and government relations.
Standardization Activities	Cooperates with U.S. and international standards developing organizations. Maintains an Analytical Procedures Committee which develops and publishes Standard Analytical Methods of the Member Companies for use in analyzing industry products. Cooperates with analytical groups such as AOAC in this endeavor. Does not issue product standards or specifications, but cooperates with governmental bodies such as FDA, FCC, USDA, USP, and Food and Agriculture Organization/World Health Organization (FAO/WHO). This activity is coordinated by the Scientific and Applied Development Committee.
Formerly	Corn Industries Research Foundation (1966) Associated Corn Products Manufacturers (1932) American Manufacturer's Association of Products from Corn (1923)
Keywords	corn; corn products; corn starch; agriculture; food;

CORPORATION FOR OPEN SYSTEMS INTERNATIONAL (COS)

Lincoln D. Faurer, President

1750 Old Meadow Road
Suite 400
McLean, Virginia 22102
(703) 883-2700

FAX: (703) 734-2975

Founded: 1986

Standards Staff: 5

Type of Organization	R & D Consortium Works through other organizations to develop standards
Representation	COS contributes to, observes, or interacts with all the Information Technology related standards bodies and all those organizations that relate to the IT standards bodies including ISO, CCITT, IEEE, ANSI, NIST, SPAG, POSI, OSI/NMF, X-OPEN, OSF and others.

Scope	COS is a research and development consortium funded by a coalition of computer and communications manufacturers, major commercial and industrial users of network systems, elements of the civilian and defense arms of the U.S. government and foreign government and commercial organizations. It includes the North American MAP/TOP Users Group and has numerous university, trade and user group association affiliates.
Standardization and Activities	COS selects and implements test suite specifications profiles based on international OSI/network/ISDN and related standards, contributes to the setting of conformance testing standards, and administers a product certification program - the COS MARK - which serves as a means of promoting high quality conformance and interoperability testing for OSI/ISDN products and services and is an indicator to prospective product purchasers of product interoperability. COS also works with users of open systems to promote the necessary requirements for enterprise, multi-vendor interoperability.
Keywords	OSI; open systems interconnection; ISDN; integrated services digital network; MAP; manufacturing automation protocol; TOP; technical and office protocol; interoperability; data communications; networking;

COSMETIC, TOILETRY AND FRAGRANCE ASSOCIATION

E. Edward Kavanaugh, President

1110 Vermont Avenue, NW
Suite 800
Washington, DC 20005
(202) 331-1770

FAX: (202) 331-1969

Founded: 1894

Type of Organization	Trade Association Standards Developer
Standards Development	Developer of more than 300 specifications (voluntary standards) and 500 chemical descriptions since 1942 Development of standard nomenclature since 1972
Government Adoption	FDA recognizes the CTFA Cosmetic Ingredient Dictionary as the official nomenclature for ingredient labeling cosmetic products through 21 CFR S701.3.
Scope	A national trade association representing the cosmetic, toiletry, and fragrance industry. Active membership of 266 companies that manufacture or distribute 90% of the

finished cosmetic products marketed in the United States. Also, 278 associate member companies from related industries, such as manufacturers of cosmetic raw materials and packaging materials. Represents its membership internationally in a range of scientific and regulatory areas.

**Standardization
Activities**

Specifications developed by a 25 member committee of analytical chemists representing both cosmetic manufacturers and suppliers. Has as its responsibility the publication of the CTFA Compendium of Cosmetic Ingredient Composition which includes specifications that chemically characterize and describe cosmetic ingredients, and test methods and spectra that correspond to these specifications; descriptions of raw materials are provided where specifications have not been developed. Specifications are strictly voluntary and designed to represent the type of ingredients used by the industry. The CTFA Compendium represents the largest collection of authentic specifications on cosmetic ingredients.

In compliance with Food and Drug Administration's regulations, the Association provides standard nomenclature for cosmetic raw materials. A twelve member committee develops this nomenclature.

Availability

Sold directly

Formerly

Toilet Goods Association (1935-1971)

Keywords

cosmetic ingredients; cosmetics; toiletry; fragrance; laboratory testing; materials; consumer products; personal care products;

COTTON WAREHOUSE ASSOCIATION OF AMERICA

Donald L. Wallace, Executive Vice President

1150 Connecticut Avenue, NW
Suite 507
Washington, DC 20036
(202) 331-4337

Founded: 1969

**Type of
Organization**

Trade Association
Standards Developer

Scope

Consists of cotton compress and cotton warehouse owners and operators in the cotton belt states from the Carolinas to California. Associate membership is available to industry-related businesses, such as

insurance companies, banks, equipment dealers, manufacturers, steamship and truck lines.

**Standardization
Activities**

Maintains Special Committees on Bale Preparation, Insurance and Standards, and Research and Engineering, which work closely with U.S. manufacturers of cotton bale ties and buckles, with a view to improving their quality, strength, and reliability. Resulting standards, widely used since 1956, cover width of ties, thickness of ties, minimum elongation of ties under stress, flatness of ties, weight and minimum tensile breaking strength of both ties and buckles.

Availability

Distributed directly

Formerly

Merger of the American and the National Cotton Compress and Cotton Warehouse Associations (1969)

Keywords

cotton; materials;

COUNCIL OF AMERICAN BUILDING OFFICIALS

Richard P. Kuchnicki, President

5203 Leesburg Pike, Suite 708
Falls Church, Virginia 22041
(703) 931-4533

Founded: 1972

**Type of
Organization**

Model Code Organization Standards Developer

Secretariat

ANSI A117.1, American National Standard for Building and Facilities--Providing Accessibility and Usability for Physically Handicapped People

Scope

CABO is a consortium of model building code organizations:
Building Officials & Code Administration
International, International Conference of Building Officials and the Southern Building Code Congress International

**Standardization
Activities**

The members of CABO are the three model building code organizations. Through CABO they coordinate development of their respective codes, and cooperate with other organizations and the federal government. CABO itself has been used as a vehicle for the development of the One and Two Family Dwelling Code and the Model Energy Code, which, in turn, is based on the

ASHRAE standard for energy conservation in new building design. It has also developed the CABO Manufactured Home Construction and Safety Standards.

Keywords

safety; building; codes; energy conservation;
construction; accessibility; government officials;

CULTURED MARBLE INSTITUTE

Edward L. Kawala, P.E., Executive Director

435 North Michigan Avenue
Suite 1717
Chicago, Illinois 60611
(312) 644-0828

Telex: 701633

Founded: 1974

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Designation**

ANSI Z124.x

**Government
Adoption**

All major code bodies and most state codes reference the Z124 Standards.

Certification

CMI administers a Certification Program for cultured marble lavatories, shower receptors and bathtubs utilizing third party independent testing laboratories.

Scope

Represents manufacturers of cultured marble products such as lavatories, bathtubs, shower receptors, water closets and flat stocks. Focuses on improving the quality of cultured marble in the marketplace and increasing market penetration of members' products.

**Standardization
Activities**

Represented on ANSI Z124 Committee that is responsible for standards covering bath tubs (Z124.1), shower pans (Z124.2), lavatories (Z124.3), water closets (Z124.4), and kitchen and bar sinks (Z124.6).

Availability

Distributed through ANSI

Keywords

cultured marble; plumbing fixtures; building;
materials;

DAIRY AND FOOD INDUSTRIES SUPPLY ASSOCIATION

Thomas M. Gilmore, Ph.D., Technical Director

6245 Executive Boulevard
Rockville, Maryland 20852
(301) 984-1444

Telex: 908706
FAX: (301) 881-7832

Founded: 1912

Standards Staff: 2

Type of Organization

Trade Association
Standards Developer

Standards Development

Standards developed since 1944
Members and non-members cooperate in standards
development
69 3-A Sanitary Standards; and 10 3-A Accepted
Practices
None processed through ANSI

Standards Designation

3-A Sanitary Standards; 3-A Accepted Practices

Government Adoption

Cited in recommended Grade "A" Pasteurized Milk
Ordinance of U.S. Public Health Service
Cited in U.S. Department of Agriculture plant
regulations
Accepted by state and local public health and
agriculture agencies throughout United States
Under review for adoption by Department of Defense

Certification

Equipment complying with the standards may carry 3-A
symbol, contingent upon authorization from the 3-A
Symbol Council.

Scope

DFISA represents the manufacturers of supplies and
equipment for the dairy industry.

Standardization Activities

DFISA cosponsors the 3-A Sanitary Standards program
with other dairy and egg processor trade associations;
houses the secretary of the program and coordinates the
work of 48 specific task committees which develop the
standards. Implements standards activity through the
DFISA Technical Committee and 48 working task
committees, comprise of DFISA members and non-members
DFISA sponsors the 3-A Sanitary Standards program for
dairy equipment and the E-3-A Sanitary Standards for
egg processing equipment. Cooperates with local, state
and federal agencies, equipment manufacturers and
distributors, and public health officials in developing
3-A Sanitary Standards.

Availability Published in Diary of Food and Environmental Sanitation
Distributed by International Association of Milk, Food,
and Environmental Sanitarians (IAMFES), P.O. Box 701,
Ames, Iowa, 50010 (515) 232-6699 or (800) 525-5223

Keywords egg; dairy; equipment; food; cleanability;

DATA PROCESSING MANAGEMENT ASSOCIATION

Brian Kenedy, Executive Director

505 Busse Highway
Park Ridge, Illinois 60068
(708) 825-8124

Founded: 1951

Type of Organization Professional Society
Works through other organizations to develop standards

Representation ANSI X3

Scope National and international organization of 33,000
members engaged in data processing, systems
development, and use and management of computers and
related equipment.

Standardization Activities Participates in standards development in the data
standardization field through its membership and active
representation on the American National Standards
Committee X3 on Computers and Information Processing.
Encourages and publicizes efforts toward the
development of standards in data processing equipment,
terminology, data codes, analysis, documentation, and
computer programming languages through its quarterly
publication Information Executive. Solicits review and
comment by its members on proposed standards.

Formerly National Machine Accountants Association (1951-1962)

Keywords data processing; information management; computers;

DECORATIVE LAMINATE PRODUCTS ASSOCIATION

Barbara Boden, Executive Director

600 South Federal Street, Suite 400
Chicago, Illinois 60605
(312) 922-6222 FAX: (312) 922-2734

Type of Organization Trade Association
Works through other organizations to develop standards

Certification	Product quality control according to ANSI A161.2-1979 (R1987); 17 companies participate
Scope	Manufacturers (fabricators) of decorative plastic laminated and solid surface material products for residential and commercial uses. Products include countertops, work surfaces, wall paneling, partitions, cabinets and cabinet doors, institutional case goods, furniture and furniture components.
Standardization Activities	Participates in maintenance and compliance with ANSI standards A161.2-1979 (R1987) for high pressure decorative laminate countertops used in home kitchens and baths and commercial establishments.
Formerly	National Association of Plastic Fabricators
Keywords	countertops; laminates; solid surface materials; adhesives; woodworking machinery; buildings;

DEEP FOUNDATIONS INSTITUTE

	G. Robert Compton Jr., Executive Director
	P.O. Box 281 Sparta, New Jersey 07871 (201) 729-9679 FAX: (201) 729-0732
	Founded: 1976
Type of Organization	Technical Society Standards Developer
Representation	Representatives on standards committees of ADSC, ANSI, ASCE, ASTM, BOCA, DFCIR, SBC, UBC, USDOD, among others
Scope	An international association of persons and organizations personally involved with the planning, investigations for, design, and construction of deep foundations and the protection of deep excavations.
Standardization Activities	Focuses on standards and codes concerned with the investigations, installation, materials, and equipment used for deep foundations. In its material and publications, references all of the appropriate codes and standards adopted by internationally recognized consensus standards producing organizations.
Keywords	caisson; construction; drilled shaft; foundations; inspections; sheet pile; slurry walls; soil;

DENTAL MANUFACTURERS OF AMERICA

Edward B. Shils, Executive Director

1118 Land Title Building
Philadelphia, Pennsylvania 19110
(215) 563-2588 FAX: (215) 561-3267

Founded: 1932

Type of Organization	Trade Association Works through other organizations to develop standards
Representation	American Dental Association, the International Dental Federation, American National Standards Institute, the Food & Drug Administration, and other specialized organizations which develop standards and specifications for dental equipment and dental supplies.
Scope	A trade organization of dental manufacturers; represents 170 U.S. companies engaged in research, development, and manufacture of dental equipment and dental supplies. Represents its membership in areas such as technology, government relations, exports, and industry activities.
Standardization Activities	Maintains Technology Committee which works with the FDA, the Defense Department, the National Institute of Standards and Technology and other government agencies, as well as with the American Dental Association, in their development of standards, guidelines, certification, and acceptance programs on various dental products. Develops manufacturing practices manuals.
Keywords	dental supplies; dental equipment; medical equipment;

DFA OF CALIFORNIA

Frank A. Mosebar, President

P.O. Box 270-A
303 Brokaw
Santa Clara, California 95052

Founded: 1908

Type of Organization	Trade Association Standards Developer
Standards Development	Standards developer since 1909

Standards Designation	DFA Dried Fruit and Tree Nut Grades and Specifications
Certification	DFA of California Certificate of Quality is issued for shipments meeting industry requirements and grades for superior quality. Certificates issued as a result of this type of inspection have achieved worldwide acceptance and establish a prime focal evidence of a "delivery" by the shipper.
Secretariats	U.S. Technical Advisory Group for ISO/TC 34 - Subcommittee 13, Dried Fruit ECE, Group of Experts on dry and dried fruit
Scope	An association of California's dried fruit and tree nut processors handling 95% of California's annual one billion dollar dried fruit and tree nut production.
Standardization Activities	Establishes grade standards for dried fruits and tree nuts considered national in scope. These define defects and certain quality standards as set forth in USDA grades and industry specifications. Standards comply with both the domestic and foreign need to know that goods shipped comply with contract descriptions. Standards developed encompass industry specifications for dried fruit and tree nuts produced in California. Also acts as the research agency in developing such standards as may be required for new products developed in the dried fruit industry. Cooperates with foreign governments and submits food additives petitions used in the dried fruit and tree nut industries.
	Services include prune, walnut, and fig inspections as required by federal or state marketing orders governing these products, inspections of the majority of dried apples, cut fruits, and pistachio nuts produced in California under private contract.
Availability	Distributed directly
Formerly	Dried Fruit Association of California
Keywords	dried fruit; tree nuts; agriculture; food;

DIAMOND WALNUT GROWERS

Gerald L. Barton, President

1050 South Diamond Street

P.O. Box 1727

Stockton, California 95201

(209) 467-6000

FAX: (209) 467-6250

Founded: 1912

Type of Organization	Trade Association Standards Developer
Standards Development	80 domestic, 6 Canadian, 44 foreign, 129 special customer standards
Certification	DWGI employs a Quality Control Department and the services of DFA of California to certify products during processing and at time of shipment.
Scope	A nonprofit cooperative association owned by 2,200 walnut growers who produce 48 percent of the walnuts grown in the State of California.
Standardization Activities	<p>Develops standards for shelled walnuts with all statements of maximum restraints and definitions concerning size, color, and defective kernels from U.S. Standards for Shelled Walnuts (<i>Juglans regia</i>), 23 F.R. 10354, January 25, 1959, and Department of Agriculture, Consumer and Marketing Service Walnut Color Chart of 1967, except where superseded by the Code of Federal Regulations, Title 21, Section 128.10, March 30, 1972, or other applicable sections. Established four color and five size standards for unshelled walnuts with all statements of tolerance and definitions concerning size, color, and grade defects from U.S. Standards for Grades of Walnuts (<i>Juglans regia</i>) in the Shell, 29 F.R. 12865, September 12, 1964, as amended September 1, 1968, 33 F.R. 10840.</p> <p>Standards are national in scope and DWGI markets under the Agricultural Marketing Agreement Act of 1937, as amended, with administration by the Walnut Marketing Board in Sacramento. DWGI's involvement with other governmental agencies also includes the Department of Agriculture, Fruit and Vegetable Division; Food and Drug Administration; state food and drug administrations; Economic Research Service; Foreign Agricultural Service; and the Department of Commerce.</p> <p>Standards promoted through 88 domestic and 33 foreign brokers.</p>
Availability	Distributed directly
Formerly	California Walnut Growers' Association (1956)
Keywords	walnuts; edible nuts; agriculture; food;

DIAMOND WHEEL MANUFACTURERS INSTITUTE

Allen P. Wherry, Manager

30200 Detroit Road
Cleveland, Ohio 44145
(216) 899-0010

Telex: 98-5559
FAX: (216) 892-1404

Founded: 1963

Standards Staff: 3

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

4 active standards
ANSI approved

**Standards
Designations**

ANSI B74.x

Scope

Manufacturers of grinding wheels and blades in which diamonds are the abrasive used.

**Standardization
Activities**

The Standards and Safety Committee has developed standards for shapes and sizes of diamond grinding wheels and hand hones, size and density of diamond abrasive grain, and an identification code for diamond wheel shapes. These have been processed through ANSI. Also cooperates with ISO/TC 29/WG 5 on international standards.

Availability

Directly and through ANSI

Keywords

grinding wheels; diamond abrasives; manufacturing;

DISTILLED SPIRITS COUNCIL OF THE UNITED STATES

F. A. Meister, President/CEO

1250 Eye Street, NW
Washington, DC 20005
(202) 628-3544

Founded: 1973

**Type of
Organization**

Trade Association
Works through other organizations to develop standards

Scope

Represents producers and importers of beverage distilled spirits.

**Standardization
Activities**

Through its standing committees of technical experts from member companies, develops recommended guidelines

pertinent to the industry. Initiates studies, as needs are foreseen or dictated by developments in the regulatory and/or private sectors. Cooperates with federal agencies and other groups. Projects include plant fire protection recommendations and metric size standards, both domestic and international.

Formerly Distilled Spirits Institute
The Bourbon Institute
Licensed Beverage Industries

Keywords alcoholic beverages; distilled spirits; metric; fire protection;

DOOR AND HARDWARE INSTITUTE

Richard Hornaday, Executive Vice President

7711 Old Springhouse Road
McLean, Virginia 22102
(703) 556-3990

Founded: 1934 Standards Staff: 2

Type of Organization Trade Association
Standards Developer

Standards Development 17 active standards
Standards processed through ANSI
Draft standards available for review
Invitation to review announced through ANSI

Government Adoption "A115" Series for steel and wood doors has been adopted by VA, GSA, and DoD.

Scope Wholesalers and specifiers distributing doors and builders' hardware to architects, contractors, and builders. Conducts management and technical courses and statistical surveys. Sponsors technical research and establishes standards.

Standardization Activities Formulates standard specifications for preparation of standard steel doors and frames for builders' hardware. Works closely with BHMA, NAAMM, ISDSI, NWWDA and SDI in developing standards. Solicits technical input from all affected interests, including government and industry organizations.

Availability Distributed directly and through ANSI

Formerly National Builders Hardware Association

Keywords doors; architectural hardware; building;

DOOR OPERATOR AND REMOTE CONTROLS MANUFACTURERS ASSOCIATION

Frank S. Fitzgerald, Executive Secretary

Suite 201
655 West Irving Park
Chicago, Illinois 60613-6198
(312) 525-2644

Founded: 1959

Standards Staff: 1

**Type of
Organization**

Trade Association
Works through other organizations to develop standards

Scope

A national trade association comprised of manufacturers of vehicular door operators -- residential, commercial, or industrial -- and/or remote controls for the operation.

**Standardization
Activities**

Maintains a technical committee which developed a Minimum Standard for Heavy Duty Industrial and Commercial Draw Bar Type Electrically Powered Door Operators. It no longer develops standards but cooperates with Underwriters Laboratories in its development of UL 325, Standard for Safety for Door, Drapery, Gate, and Window Operators and Systems. Also cooperates with the Federal Communications Commission regarding the rules and equipment authorization procedures of radio frequency devices. Cooperates with the Consumer Products Safety Commission and the National Safety Council on the safe use of the equipment.

Keywords

doors; remote control; hardware; buildings;

DUCTILE IRON PIPE RESEARCH ASSOCIATION

Troy F. Stroud, P.E., President

245 Riverchase Parkway East
Suite 0
Birmingham, Alabama 35244
(205) 988-9870

Founded: 1915

**Type of
Organization**

Trade Association
Works through other organizations to develop standards

Representation

Three members active in voluntary standards including representatives on standards committees of ANSI, ASTM, AWWA, ASME, NFPA, and others.

Scope	American manufacturers of ductile iron pipe, dedicated to maintaining the highest piping standards through a program of continuing research. Ductile iron pipe is used extensively for water and wastewater applications.
Standardization Activities	Participates in national committees that develop product standards pertaining to ductile iron pipe, including standards for manufacture, design, installation, joints, coatings, linings, fittings, and other appurtenances. Utilities and consulting engineers frequently incorporate these standards in purchase orders and contract specifications. Members also provide standards committees with research and test data concerning their products.
Formerly	Cast Iron Pipe Publicity Bureau (late-1920's) Cast Iron Pipe Research Association (1979)
Keywords	pipe; fittings; water; wastewater; plumbing; sanitation; industrial equipment;

EASTERN BIRD BANDING ASSOCIATION

H.B. Suthers, Past President

4 View Point Drive
Hopewell, New Jersey 08525

Founded: 1923

Type of Organization	Professional Society Standards Developer
Scope	Provides consultation services to professional and amateur ornithologists who are active and licensed by the Fish and Wildlife Service to engage in banding and marking activities of birds protected by the Bird Treaty Acts. Publishes a quarterly magazine dealing with bird banding and related activities and research data, new methods, and field techniques. Membership numbers 725.
Standardization Activities	Standardizes field methods which further aid work done by appropriate governmental agencies in the collection of field data and statistics of bird populations, bird migration, breeding studies, and similar projects involving marking and banding of birds as a means of gathering these data. Cooperates extensively with the U.S. Department of Interior's Fish and Wildlife Service.

Availability Distributed directly

Keywords birds; ornithologists; recreation;

EDISON ELECTRIC INSTITUTE

Matthew C. Mingoia, Manager, Standards Programs

701 Pennsylvania Avenue, NW
Washington, DC 20004-2608
(202) 508-5177 Telex: 710 822 0132
FAX: (202) 508-5225

Founded: 1933 Standards Staff: 4

Type of Organization Trade Association
Work through other organizations to develop standards

Representation More than 300 representatives serve on more than 100 standards committees of ANSI, IEEE, ASME, NFPA, ASTM, and others.

Scope Edison Electric Institute is the association of electric companies. Its members serve 96 percent of all customers served by the investor-owned industry. They generate approximately 78 percent of all the electricity in the country and service 74 percent of all ultimate customers in the nation.

Organized in 1933 and incorporated in 1970, EEI provides a principal forum where electric utility people exchange information on developments in their business, and maintain liaison between the industry and the federal government. Its officers act as spokesmen for investor-owned electric utility companies on subjects of national interest.

A basic objective is the "advancement in the public service of the art of producing, transmitting, and distributing electricity and the promotion of scientific research in such fields." EEI ascertains factual information, data and statistics relating to the electric industry, and makes them available to member companies, the public, and 1 government representative.

Standardization Activities Standards activities are directed toward cost effective programs and innovative techniques to maximize the effectiveness of its representatives serving on national standards committees.

Electric utility companies make extensive use of standards and actively participate in committees

developing standards they can apply. These include standards for electric power generation and transmission equipment such as boilers, all types of turbines, transformers, circuit breakers, valves and nuclear; all aspects of radiation measurement and protection; and standards for safety, air and water quality, computers, and many others.

Although the Institute is not a standards developing organization, it works within the voluntary standards system to coordinate electric utility industry standards activities and act as the industry voice. Its Engineering, Operating & Standards Executive Advisory Committee has overall responsibility for directing all EEI activities relating to codes and standards. It recommends policy to the EEI Board in regard to participation in standards development work within the voluntary consensus organizations and coordination with government agencies which develop or reference standards in the regulatory process.

The Standards Coordinating Task Force (SCTF) coordinates high priority standards activities of interest to the industry and provides relevant information to member companies. A formal program of interfacing directly with standards developing organizations such as ANSI, IEEE, ASME, NFPA, and ASTM includes a procedure for monitoring and coordinating international standards activities. There are two Task Forces that closely monitor and participate in the NESC and NEC triennial revisions of both Codes.

The SCTF also monitors and coordinates participation in the development of metrication programs within the electric utility industry and monitors activities of the American National Metric Council.

In addition to these committees specifically tasked to monitor and coordinate broad issues and subjects, each EEI technical committee is responsible for monitoring the work of standards-developing committees in their subject area. The technical committees accomplish this through a Codes and Standards Subcommittee which, in cooperation with the Association of Edison Electric Illuminating Companies, advises the Electric Light and Power representatives on standards committees of the industry's position on proposed standards. Each EEI member company is given the opportunity to assign a Senior Engineering Executive who is made aware of standards activities and issues through an EEI Engineering, Operating & Standards newsletter and special reports.

Keywords energy; electric power; electrical equipment; nuclear; metric;

ELASTIC FABRIC MANUFACTURERS COUNCIL OF NORTHERN TEXTILE ASSOCIATION

Karl Spilhaus, President

230 Congress Street
Boston, Massachusetts 02110
(617) 542-8220

Founded: 1953

Type of Organization Trade Association
Standards Developer

Standards Designations NTA-EC prefix

Scope Represents over three quarters of the elastic fabrics industry of the United States. Became part of Northern Textile Association in 1970.

Standardization Activities Actively engaged in the establishment, review, revision, and promulgation of standard test methods, performance standards, and specifications for standard types of knitted, woven and braided elastic fabrics and nonelastic braided trimming. Current standards include: Woven Waistband Elastic Minimum Performance Standard/A Performance Standard for Webbing Used in Men's and Boys' Underwear and Pajamas; Methods of Testing Wide Elastic Fabrics-Tension and Stretch, NTA-EC-1-71.

In addition to counseling engineering societies such as the American Society for Testing and Materials and federal agencies, the EFMC's Technical Committee is a source for interlaboratory testing and test methods, review of product characteristics, and the development of suggested tolerances and specifications.

Availability Distributed directly

Formerly Elastic Fabric Manufacturers Institute (1970)

Keywords textiles; fabrics; braids; trim; webbing; elastic;

ELECTRICAL APPARATUS SERVICE ASSOCIATION

August A. Baechle, Executive Vice President

1331 Baur Boulevard
St. Louis, Missouri 63132
(314) 993-2220

Telex: 955329 TLX, SRVC;
ATTN: EASA

FAX: (314) 993-1269
Standards Staff: 2

Founded: 1933

**Type of
Organization**

Trade Association
Standards Developer

Scope

An international trade association of companies that sell, service, and repair industrial electric motors, generators, transformers, controls, and similar electro-mechanical equipment. Over 2,700 members worldwide.

**Standardization
Activities**

Develops standards and limited warranties for the electrical apparatus sales and service industry that cover the mechanical and electrical aspects of repair, rebuilding, and testing electro-mechanical equipment. This includes single and polyphase AC induction motors, DC motors and generators, transformers (liquid and dry types), hermetic motors, and hand power tools. Also defines the condition of electrical equipment for sale, and has written standard warranties for each condition specified. Developed set of electrical safety standards.

Availability

Distributed directly

Formerly

National Industrial Service Association (1960)

Keywords

electrical equipment; electric motors; generators; machinery;

ELECTRICAL GENERATING SYSTEMS ASSOCIATION

Anthony Raucci, Executive Director

Box 9257
Coral Springs, Florida 33065
(305) 755-2677

Founded: 1963

**Type of
Organization**

Trade Association
Standards Developer

Scope	An international industry organization representing manufacturers and distributors involved with the generation, transmission, storage, and control of electrical energy not directly supplied by the public utility companies.
Standardization Activities	Maintains a cooperative standards program for developing and promulgating standards and specifications to serve the industry and its customers; provides an effective liaison between the industry and its customers, both civilian and military, for the interchange of information and ideas; and assists its customers in obtaining the most advanced and reliable products and scientific developments from the industry.
Availability	Distributed directly
Formerly	Engine Generator Set Manufacturers Association (1971) Electrical Generating Systems Marketing Association
Keywords	electrical generators; electrical power; energy; electrical equipment;

ELECTRONIC DATA INTERCHANGE ASSOCIATION

	Jerome L. Dreyer, President and CEO
	225 Reinekers Lane, Suite 550 Alexandria, Virginia 22314 (703) 838-8042
	Founded: 1968 Standards Staff: 24
Type of Organization	Trade Association Standards Developer
Standards Development	Has developed 170 industry specific electronic data interchange (EDI) standards for computer-to-computer intercompany business transactions.
Standards Designation	EDI prefix
Secretariats	Industry-specific EDI groups (AIR, OCEAN, MOTOR, RAIL, CHEMICAL)
Scope	A public interest association with membership open to those companies interested in modernizing and automating business systems through the use of computer and communications technology.
Standardization Activities	A national center for the coordination of intercompany standards for the electronic transmission and receipt

of over 170 different business transaction sets used in electronic data interchange (EDI). Develops EDI standards which are used as the baseline standards for computer-to-computer data interchange in the rail, motor, ocean, and chemical industries, including claims, filing and other business applications. Maintains liaison on the development of data standards with industry and government standards bodies, including the United Nations Economic Commission for Europe.

Availability Sold directly

Keywords data processing; business; communications;

ELECTRONIC INDUSTRIES ASSOCIATION

John M. Kinn, Vice President, Engineering Department

2001 Eye Street, NW
Washington, DC 20006
(202) 457-4961

Telex: 710-822-0148

Founded: 1924

Standards Staff: 17

Type of Organization Trade Association
Standards Developer

Standards Development Standards developer since 1926
3000 member representatives participate in standards activities through 750 committees, subcommittees and task groups
Majority of EIA standards processed through ANSI
Draft standards available for review

Standards Designation EIA and JEDEC prefixes

Government Adoption The Department of Defense adopts EIA standards applicable to their needs.

Certification EIA is the National Standards Organization (NSO) which is responsible for the IECQ-System certification process within the United States

Secretariats IEC 12F, 46, 46E, 48, 48B, 48C.

Scope A national trade association of companies involved in the manufacture of electronic components, equipment, and systems for consumer, industrial, and government applications. They represent their members in national and international areas of interest.

Standardization Activities	Involved in standardizing components such as resistors, capacitors, switches, transformers, inductors, transistors, and integrated circuits; television tubes, broadcast equipment, data transmission, numerical control, printed circuits, radios, phonographs, satellite communications, and tape systems. Processes standards through ANSI and the IEC. Standards are in use throughout the world either by direct application or by adoption as an international standard. Engineering standards are designed to eliminate misunderstanding between manufacturers and purchasers, facilitate interchangeability and improvement of products, and assist the purchaser in selecting and obtaining with minimum delay the proper product for his particular need.
Availability	Distributed through Electrical and Electronic Manufacturing Association of Canada, IHS, Global, DECO, NSA, and American Technical Publishers, Ltd.
Formerly	Radio Manufacturers Association (1958) Radio-Electronics-Television Manufacturers Association (1957) Absorbed: Magnetic Recording Industry Association
Keywords	telecommunications; electronics; industrial equipment; electrical equipment; defense; consumer products; data processing;

ELECTRONIC MEDIA RATING COUNCIL

	Melvin A. Goldberg, Executive Director
	509 Madison Avenue New York, New York 10022 (212) 754-3343
	Founded: 1963 Standards Staff: 1
Type of Organization	Trade Association Standards Developer
Scope	The Electronic Media Rating Council is responsible for determining criteria and standards for audience measurement services; establishing and administering a system of accreditation for audience measurement services; providing and administering an audit system designed to insure users that audience measurements are conducted in conformance with the criteria, standards and procedures developed.
Standardization Activities	The Rating Council is made up of representatives of TV and radio networks, broadcast groups and industry

associations representing cable, radio, television, advertising agencies and advertisers. The Council sets the minimum standards which rating services are expected to meet to merit accreditation. The standards involve such items as ethical and operational standards (governing the quality and integrity of the entire activity) and disclosure standards (specifying the detailed information about a rating service which must be made available to users, as well as the form in which the information should be made available.

Formerly Broadcast Rating Council (1982)

Keywords audience measurement; ratings; radio; television; cable; audit; accreditation; communications;

ENTOMOLOGICAL SOCIETY OF AMERICA

Raymond L. Everngam, Jr., Managing Editor

9301 Annapolis Road
Lanham, Maryland 20706-3115
(301) 731-4535

Founded: 1889

Type of Organization Scientific Society
Standards Developer

Standards Designation Approved Common Names of Insects

Scope Professional society of entomologists and others interested in the study and control of insects. Maintains specialized education, placement service, and research programs. Compiles statistics.

Standardization Activities Committees work to standardize and define common and scientific names of insects and related arthropods, as well as insecticide names.

Availability Distributed directly

Keywords insects; entomology; insecticides; pesticides; public health; materials;

EQUIPMENT AND TOOL INSTITUTE

Donn R. Proven, Executive Manager

1545 Waukegan Road
Glenview, Illinois 60025
(708) 729-8550

Founded: 1947

**Type of
Organization**

Trade Association
Standards Developer

Scope

Manufacturers of automotive service equipment and tools.

**Standardization
Activities**

Prepares test equipment performance guidelines. Maintains the Performance Test Group which communicates with vehicle manufacturers to insure equipment compatibility and with federal and state agencies to insure equipment complies with performance regulations. Publishes guidelines which provide performance criteria that can be used to characterize service equipment as being of a professional grade for the automotive technician. Equipment includes voltmeters, ohmmeters, brake testing equipment, wheel alignment, headlamp testers, timing devices, gauges, exhaust emission analyzers, and others.

Availability

Distributed directly

Keywords

automotive equipment; instruments;

EQUIPMENT MANUFACTURERS INSTITUTE

John Crowley, Director of Engineering & Safety Programs

10 Riverside Plaza, Suite 1220
Chicago, Illinois 60606-3710
(312) 321-1470 FAX: (312) 321-1480

Founded: 1893

**Type of
Organization**

Trade Association
Works through other organizations to develop standards

Representation

ASAE, SAE, ANSI

Scope

Provides an ongoing forum for manufacturers of farm construction and industrial equipment to work together to have an effective voice in decisions affecting their products, their companies, their industries, and the economic well-being of their customers.

**Standardization
Activities**

EMI is not a standards development organization. Committees of the Institute utilize industry expertise to develop proposals which are submitted to engineering standards organizations for consideration as possible voluntary standards. Almost all EMI standards proposals are submitted to the American Society of Agricultural Engineers, the Society of

Automotive Engineers, and (indirectly) to the American National Standards Institute and the International Organization for Standardization.

Formerly National Association of Agricultural Implement and Vehicle Manufacturers
National Association of Farm Equipment Manufacturers (1933)
Farm Equipment Institute (1965)
Farm and Industrial Equipment Institute (1990)

Keywords farm equipment; agricultural equipment; industrial equipment; construction equipment; agriculture; construction;

ETL TESTING LABORATORIES

James W. Tucker, Chairman and CEO

Industrial Park
Post Office Box 2040
Cortland, New York 13045
(607) 753-6711

Founded: 1896

Type of Organization Product Test and Certification Laboratory
Standards Developer

Certification Approximately 40 percent of ETL's activity is in the field of product certification where it conducts performance tests on a wide range of products. These tests are conducted according to industry standards which are national in scope. Directories are published periodically showing products such as air conditioning equipment, gas appliances, builders hardware, fluorescent ballasts, refrigerators and freezers, and carpeting that meet the requirements for the appropriate certification program.

ETL's certification programs are recognized and used by federal agencies such as General Services Administration (GSA), Department of Housing and Urban Development (HUD), Occupational Safety and Health Administration (OSHA), and Department of Veterans Affairs (VA).

Scope An independent, employee-owned testing, inspection, certification and safety labeling agency. A multi-disciplined organization, ETL presently operates within eleven disciplines: Acoustical, Air Conditioning and Refrigeration, Carpet, Design Services, Electrical,

Heating, Mechanical, Photometric, Quality Control, Glazing, and Safety.

**Standardization
Activities**

Develops testing and certification procedures for standards through experimental testing to determine appropriate test methods. In addition, members of ETL's professional staff are active participants in standards committees sponsored by ANSI, ASHRAE, IEC, NEMA, NFPA, SAE, IEEE, and IES among others.

ETL is also an independent third party testing laboratory providing safety testing to nationally recognized standards such as UL, ANSI, and IEC. ETL's labeling, listing and follow-up program has been accepted by all 50 states, military branches, and the building code agencies for the testing and labeling of electrical and gas or oil-fired products. In addition, ETL has been designated as a Nationally Recognized Testing Laboratory by the Occupational Safety and Health Administration.

Formerly

Electrical Testing Laboratories, Inc.

Keywords

testing; consumer products; electrical equipment; fire and flammability; acoustics; air conditioning; photometrics; safety testing and listing;

EXCHANGE CARRIERS STANDARDS ASSOCIATION

O.J. Gusella, Executive Director

5430 Grosvenor Lane
Bethesda, Maryland 20814
(301) 564-4505

Founded: 1983

**Type of
Organization**

Trade Association
Standards Developer

Representation

Represents exchange carrier interests on ANSI accredited committees and standards boards and other organizations.

Secretariat

To Accredited Standard Committee T1 - Telecommunications; ASC .05 Wood Poles and Wood Products; the Carrier Liaison Committee; the Information Industry Liaison Committee; and the Telecommunications Industry Forum.

Scope

A private, voluntary association of the exchange carrier industry which addresses technical standards

and related areas regarding the public telephone network.

Standardization Activities	Represents exchange carrier interests in all standards and related technical fields, and provides the sponsoring organization and secretariat for an independent interconnection and interoperability standards committee (T1). Open to all parties interested in the formulation of such standards. These parties include exchange and interexchange carriers, manufacturers, enhanced service providers, user groups, professional associations, and government agencies.
Formerly	The Telephone Group
Keywords	telephone network; carrier interconnection; communications;

EXPANDED SHALE, CLAY AND SLATE INSTITUTE

John P. Ries, Managing Director

Post Office Box 21526
Salt Lake City, Utah 84121

Founded: 1952

Type of Organization	Trade Association Standards Developer
Scope	A nonprofit technical organization supported by producers of expanded shale, clay, and slate using the rotary kiln process. Objectives are improving and extending the uses of expanded shale aggregate through research and development; disseminating data to the architectural and engineering professions and to the construction industry; cooperation and collaboration with other technical organizations interested and active in the field of concrete; and maintenance of standards for uniformly high product quality.
Standardization Activities	<p>Active in ASTM, ACI, CSI, and ASCE in promulgating building codes, test methods, recommended practices, specifications, and standards for structural lightweight concrete, lightweight concrete masonry, and/or lightweight aggregates.</p> <p>Publishes Guide Specifications for Structural Lightweight Concrete. Members' products meet requirements of Standard Specification for Lightweight Aggregates for Structural Concrete, ASTM C330.</p>
Availability	Distributed directly or through members

Formerly	Expanded Shale Institute (1952)
Keywords	concrete; masonry; aggregates; construction; materials;

EXPANSION JOINT MANUFACTURERS ASSOCIATION

Richard C. Byrne, Secretary

25 North Broadway
Tarrytown, New York 10591
(914) 332-0040

Founded: 1955

Type of Organization	Trade Association Standards Developer
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Scope	Manufacturers of joints for piping systems. Fosters and studies the problems peculiar to expansion joints.
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Standardization Activities	Through its Technical Committee, engages in the improvement of standards which were developed in the interest of public safety and for guidance in design and determination of service capacities and quality of bellows expansion joints.
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Keywords expansion joints; industrial equipment;

FACTORY MUTUAL RESEARCH CORPORATION

Carl E. Miller, Senior Vice President and
Chief Operating Officer

1151 Boston-Providence Turnpike
Post Office Box 9102
Norwood, Massachusetts 02062
(617) 762-4300 Telex: 92-4415
 FAX: (617) 762-9375

Founded: 1835 Standards Staff: 184

Type of Organization	Product Test and Certification Laboratory Standards Developer
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Representation	FMRC engineers participate in standards committees of the NFPA, ASME, ASTM, AWWA, IEEE, ISA, ANSI, ISO, and IEC.
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Standards Designation	Data Sheets, Loss Prevention Data, D.S. prefix Approval Standards
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Government Adoption	Certain FMRC standards are referenced in codes and regulations of various local, state, and federal agencies. OSHA has designated FMRC as a test agency for certain types of equipment requiring approval.
Certification	Operates an approval service for a wide range of fire protection and property loss control products. In addition, the approvals staff evaluates products to certify that they meet certain standards of other organizations (e.g. ASTM).
Scope	A nonprofit corporation, providing loss control standards development, basic research, applied research, and full-scale testing primarily for industrial, commercial, and institutional policyholders insured by Allendale Mutual, Arkwright, and Protection Mutual. Maintains full-scale testing laboratories and modeling techniques.
Standardization Activities	<p>Prepares loss prevention data sheets based on staff studies of industrial processes and hazards, loss experience, test work, and research by FMRC scientists and engineers, property inspections by field engineers and input from industry, professional and trade associations, and other sources. Subject matter includes building design and materials, fire protection equipment and systems, heating and electrical equipment, pressure vessels and boilers, hazardous materials and processes, and mechanical equipment. These provide recommended guidelines for the protection of industrial, commercial, and institutional properties against fire, explosions, wind, boiler and machinery accidents, and other insured perils.</p> <p>Provides approval standards covering various types of fire protection equipment, flammable liquid equipment, fuel and combustion controls, boiler combustion safeguards, industrial trucks, electrical equipment, fire and burglar alarm systems and services, building material assemblies, and products. These specify requirements for approval and listing of equipment, materials, and services intended for loss control purposes and for potential hazards. An approval process includes inspection and audit of the product manufacturer's production and quality control facilities, with periodic follow-up. Approved products are typically labelled as "Factory Mutual System Approved" or "FM Approved."</p>
Availability	Data sheets and standards distributed directly
Keywords	fire protection; boilers; combustion; alarm systems; safety; hazards; electrical equipment; industrial equipment; insurance;

FARM AND INDUSTRIAL EQUIPMENT INSTITUTE

See EQUIPMENT MANUFACTURERS INSTITUTE

FEDERATION OF AUTOMATED CODING TECHNOLOGIES

William P. Hakanson, Executive Director

1326 Freeport Road
Pittsburgh, Pennsylvania 15238
(412) 963-8588 Telex: 313186 (AIMPGH)
FAX: (412) 963-8753

Founded: 1986

Standards Staff: 2

Type of Organization

Trade Association
Standards Developer and works with other organizations
to develop standards

Standards Development

Standards developer since 1988
Uses the ANSI canvass review method.

Standards Designation

FACT

Scope

A national association of industry trade associations and governmental agencies which develop, administer or use automatic identification standards and which have a common interest in the reduction of the number of different standards and the development of inter-industry and international standards. FACT represents the views of its members to the international community through liaison with the affiliates of AIM USA (which serves as the secretariat for FACT).

Standardization Activities

Eighteen member organizations and 5 associate company members are involved in the standardization of data identifiers for automatic identification systems and the development of a standard shipping container label in conjunction with ANSI MH10.8.

Availability

Distributed through AIM USA and AIM organizations around the world

Keywords

automatic identification; data identifiers; shipping labels; bar codes;

FEDERATION OF SOCIETIES FOR COATINGS TECHNOLOGY

Robert F Ziegler, Executive Vice President

1315 Walnut Street
Suite 832
Philadelphia, Pennsylvania
(215) 545-1506

Founded: 1922

Type of Organization	Technical Society Works through other organizations to develop standards
Representation	Many members are engaged in standardization activities with ASTM.
Scope	A technical, professional society of the coatings manufacturing industry. Objectives are to provide and collect scientific, practical, and technical information on the development, manufacture, and use of coatings and printing inks, to encourage scientific and technical educational activities and to promote efforts to improve coatings products and their manufacture. Membership numbers 7,300 and more than 1,000 manufacturers are represented.
Standardization Activities	Cooperates with ASTM on coatings-related standards.
Formerly	Federation of Paint and Varnish Production Clubs
Keywords	paint; coatings; inks; materials;

FELT MANUFACTURERS COUNCIL OF NORTHERN TEXTILE ASSOCIATION

Karl Spilhaus, President

230 Congress Street
Boston, Massachusetts 02110
(617) 542-8220

Founded: 1915

Type of Organization	Trade Association Standards Developer
Standards Designations	FS14-68/71
Scope	Represents over 80 percent of the pressed felt industry of the United States. Part of Northern Textile Association since 1961.

**Standardization
Activities**

Actively engaged in the establishment, review, revision, and promulgation of physical and chemical specification requirements for standard types of wool felt in both roll and sheet form. The currently active specification is Wool Felt Standard Specification, FS14-68/71.

In addition to counseling federal agencies and engineering societies, such as the American Society for Testing and Materials and Society of Automotive Engineers, on their wool felt specifications, provides new technical information and papers covering additional wool felt performance characteristics which have not yet reached specification requirement status.

Availability

Distributed directly

Formerly

Felt Association of New York City

Keywords

felt; textiles; materials;

FERTILIZER INSTITUTE

Ford B. West, Vice President, Government Relations

501 Second Street, NE

Washington, DC 20002

(202) 675-8250

FAX: (202) 544-8123

Founded: 1970

Standards Staff: 1

**Type of
Organization**

Trade Association

Works through other organizations to develop standards

Secretariats

Co-Secretariat, ANSI K61.1 Safety Requirement for the Storage and Handling of Anhydrous Ammonia

U.S. Technical Advisory Group to ISO/TC 134 Fertilizers and Soil Conditioners

Scope

Supports standardization through simplification of federal and state fertilizer regulatory laws, as well as chemical analytical methods. Also involved in safety standards activities at state and federal levels.

**Standardization
Activities**

Aims to increase the accuracy and precision of the chemical analysis of fertilizers, and to prevent accidents and injury by means of education and safety practices.

Supports the enactment of state uniform fertilizer laws as recommended by the Association of American Plant Food Control officials. Supports standardization of reporting and publication forms used in various states and counties to record the consumption of fertilizers by material and grade on an annual, semiannual, quarterly, or monthly basis.

Formerly

National Plant Food Institute
Agricultural Nitrogen Institute

Keywords

anhydrous ammonia; fertilizer; agriculture;

FIBRE BOX ASSOCIATION

Bruce Benson, President

10 Gould Center
Rolling Meadows, Illinois 60008
(708) 364-9600

Founded: 1940

**Type of
Organization**

Trade Association
Standards Developer

Scope

A nonprofit trade association representing manufacturers of corrugated and solid fiberboard. Aims to promote the industry's general welfare; to represent members before appropriate government, transportation, industrial, or other agencies; to compile and disseminate statistical information; and to develop data useful to its members in marketing their products.

**Standardization
Activities**

Holds membership in the International Corrugated Case Association and participates in pertinent activities of the American National Standards Institute and the International Organization for Standardization. Advises federal government bodies preparing standards and specifications involving corrugated and solid fiberboard, particularly the General Services Administration.

In conjunction with the Packaging Machinery Manufacturers Institute, it has issued five joint voluntary standards and one recommended practices bulletin, referenced in the FBA Handbook.

Availability

Distributed directly

Keywords

cardboard; box; corrugated board; fiberboard; packaging;

FINANCIAL ACCOUNTING FOUNDATION

Joseph S. LaGambina, Executive Vice President
Financial Accounting Foundation

401 Merri
Post Office Box 5116
Norwalk, Connecticut 06856-5116
(203) 847-0700

Founded: 1973

Type of Organization

Standards Developer

Standards Designation

FASB Statement
CASB Statement

Government Adoption

Securities and Exchange Commission (for the FASB)
Rules of Conduct of American Institute of CPAs

Scope

Independent, nonprofit organization. Sponsored jointly by American Institute of CPAs, Financial Executives Institute, Financial Analysts Federation, National Association of Accountants, American Accounting Association, Securities Industry Association Government Finance Officers Association, National Association of State Auditors, Comptrollers and Treasurers; issues statements, interpretations, technical bulletins, concepts statements; follows "due process" procedures that include task forces of experts, issues papers, public hearings, exposure drafts.

Standardization Activities

Develops standards that govern the general purpose financial reports published by business corporations, state and local government entities, and other organizations. These standards form the base of "generally accepted accounting principles."

Follows due process procedures designed to ensure broad public participation at each stage in the standard-setting process. Board meetings and deliberations are open for public observation.

Has Advisory Councils to advise on agenda projects, priorities, and technical solutions to accounting issues.

Availability

Distributed by the Financial Accounting Foundation

Formerly

Financial Accounting Standards Board

Keywords

accounting; financial reporting;

FINE HARDWOOD VENEER ASSOCIATION

Larry R. Frye, Executive Director

5603 West Raymond
Suite 0
Indianapolis, Indiana 46241
(317) 244-3311

Founded: 1914

Type of Organization	Trade Association Works through other organizations to develop standards
Standardization Activities	Cooperates in the development of grade rules for lumber which are published by the National Hardwood Lumber Association. Also cooperates with the Hardwood Plywood Manufacturers Association in its Rules for Measurement and Inspection of Veneers and Plywood. These grade rules are in general use both in the United States and foreign countries.
Formerly	Fine Hardwoods Association (1971) Fine Hardwoods-American Walnut Association
Keywords	wood; veneer; plywood;

FLAT GLASS MARKETING ASSOCIATION

William J. Birch, Executive Vice President

White Lakes Professional Building
3310 Harrison Street
Topeka, Kansas 66611
(913) 266-7013

Founded: 1949

Type of Organization	Trade Association Standards Developer
Scope	Independent glass distributors and contractors using flat glass products including Float, Tempered, Laminated and insulating glass. Disseminates industry information and sponsors educational courses.
Standardization Activities	Publishes a Glazing Manual and a Sealant Manual which are reference guides for proper glazing techniques for all types of glass. Includes new design concepts, glazing methods, and advanced glass products. Used by architects, engineers, contractors, and glaziers worldwide.

Availability	Distributed directly
Formerly	Flat Glass Jobbers Association (1969)
Keywords	glazing; glass; materials; building;

FLEXIBLE PACKAGING ASSOCIATION

Sharon Edward Weary, Director of Technology

1090 Vermont Avenue, NW
Suite 500
Washington, DC 20005
(202) 842-3880

Founded: 1950

Standards Staff: 2

Type of Organization	Trade Association Standards Developer
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Standards Development	Developer of voluntary specifications for flexible packaging material. 28 active standards for cellophane, polyethylene, polyester, and laminated and coated products.
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Scope	Represents converters of packaging materials and suppliers of film, adhesives, printing inks, and converting machinery. Services include government relations, technical information, and membership.
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Standardization Activities	Continuous review of industry's need for voluntary regulations. Specifications often serve as the basis for agreement between a converter or supplier and their customers (end-users). Specifications recognized as equal to those of ASTM (American Society for Testing and Materials) and TAPPI (Technical Association of the Pulp and Paper Industry). Works toward eliminating duplication of effort by other standards organizations although some overlap is required.
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Availability	Sold directly
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Formerly	National Flexible Packaging Association
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Keywords	packaging; plastic film; cellophane; polyethylene; printing; polyester; laminating; bags; aseptic packaging;
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FLIGHT SAFETY FOUNDATION

John H. Enders, President

2200 Wilson Boulevard
Suite 500
Arlington, Virginia 22204
(703) 522-8300

FAX: (703) 525-6047

Founded: 1945

**Type of
Organization**

Nonprofit foundation for safety information exchange
Works through other organizations to develop standards

Scope

Fosters the exchange of safety ideas and information to
enable government and industry worldwide to continually
upgrade safety standards and practice.

**Standardization
Activities**

Acts through consultation, committee participation,
publications, workshops, and regional and international
seminars.

Keywords

flight safety; safety; aviation; transportation;

FLUID CONTROLS INSTITUTE

Edward C. Rutter, Executive Secretary

P.O. Box 9036
31 South Street
Morristown, New Jersey 07963-9036
(201) 829-0990

Founded: 1921

Standards Staff: 3

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Standards developer since 1955
100 member companies participate in standards
development through product sections
18 published standards
4 processed through ANSI

**Standards
Designation**

FCI or ANSI/FCI prefixes

Certification

No certification, qualification, or accreditation
programs

Scope

A nonprofit association of manufacturers of devices for
fluid control and fluid conditioning. Includes
pressure, temperature, and volumetric regulators;

modulating service control valves; solenoid valves; steam traps; fluid clarification equipment such as strainers, separators and filters; silent check valves; pressure and temperature gauges; process control switches and related equipment.

**Standardization
Activities**

Develops, promotes, and adopts standards. Holds membership in the American National Standards Institute; maintains liaison with International Organization for Standardization and the International Electrotechnical Committee. Works with Instrument Society of America, National Fluid Power Association, and Scientific Apparatus Manufacturers Association on domestic standards.

Availability

Distributed directly and through ANSI

Formerly

National Association of Steam and Fluid Specialty Manufacturers (1941)
National Steam Specialty Club (1956)

Keywords

gauges; regulators; valves; fluid controls;
instruments; industrial equipment;

FOOD PROCESSING MACHINERY AND SUPPLIES ASSOCIATION

George Melnykovich, Ph.D., President

200 Daingerfield Road
Alexandria, Virginia 22314
(703) 684-1080

Founded: 1885

**Type of
Organization**

Trade Association
Works through other organizations to develop standards

Scope

Firms manufacturing machinery and providing services and supplies for the canning, freezing, and food processing industry.

**Standardization
Activities**

A Technical and Sanitation Committee is responsible for the administration of activities in cooperation with associations dealing with the establishment of standards of materials used in the production, preparation, processing, and packaging of foods and other products which are packaged in glass, metal, fiber, and/or plastic. Cooperates with the National Food Processors Association and the Can Manufacturers Institute in the standardization of sizes of tin cans and with the Glass Container Association of America in developing standard sizes of glass containers.

Formerly Canning Machinery and Supplies Association

Keywords canning; food processing; packaging;

FORGING INDUSTRY ASSOCIATION

Catherine D. Sabo, Director, Industrial Relations,
Safety, Government, and Environmental Affairs

25 Prospect Avenue West
LTV Building Suite 300
Cleveland, Ohio 44115
(216) 781-6260

FAX: (216) 781-0102

Founded: 1913

Standards Staff: 2

**Type of
Organization** Trade Association
Standards Developer

**Standards
Development** Four standards on allowances and tolerances for
forgings and rolled rings.

Representation Five members are active in FIA standardization
including representatives on standards committees of
ANSI, ASME, NFPA, and others.

Secretariats ANSI B24.1-1985 Safety Requirements for Forging

Scope A nonprofit corporation composed of U.S. and Canadian
producers of forgings and producers of raw materials,
equipment, or services commonly used in the forging
industry.

**Standardization
Activities** Works within the voluntary standards system to
coordinate forging industry safety and product
standards and acts as the industry voice. Represents
the industry to standards-developing organizations such
as ANSI, ASME, and NFPA. FIA is also represented by
members on the American National Standards Committee
B11 Machine Tools and Related Equipment; ANSI Z137 -
Hearing Protection Devices; ANSI B30-Safety Standards
for Cableways, Cranes, Derricks, Hoists, Hooks, Jacks
and Slings; and National Fire Protection Association
86-Ovens and Furnaces.

Publishes Guidelines for Tolerances for Hot Forged
Impression Die Forgings; Hammer, Press and Upsetter;
Tolerances for Precision Aluminum Forgings; and
Allowances and Tolerances for Seamless Rolled Rings.

Formerly American Drop Forging Association (1935)
Drop Forging Association (1965)

Keywords forging; rolled rings; machinery; materials;

Representation	Over two hundred representatives of member firms active in 50 standards committees of ANSI, ASTM, ASHRAE, ASME, NFPA, and others.
Certification	GAMA operates programs which randomly select gas and oil furnaces and boilers, and gas, oil, electric, and heat pump water heaters from participating members and tests them in accordance with DOE efficiency test procedures at ETL Testing Laboratories, Inc. to verify the manufacturers established efficiency ratings which are published semiannually.
Secretariats	Secretariat to ISO/TC 161. Convenor of Working Group 2 of ISO/TC 161. Administrator of U.S. Technical Advisory Group for ISO/TC 161 on gas controls.
Scope	A trade association for 200 manufacturers of residential, commercial, and industrial gas appliances and equipment; gas, electric, heat pump, and oil water heaters; gas- and oil-fired central furnaces; and equipment used in the production, transmission, and distribution of natural gas.
Standardization Activities	Works through the national standards promulgation procedures of other groups and organizations which develop and maintain 80 standards. In this manner, a high quality of manufacturers' input has been provided in the development and constant maintenance of standards for gas appliances and equipment which have been recognized as American National Standards by the American National Standards Institute.
	Cooperates with Government agencies such as the Department of Commerce, Department of Energy, Consumer Product Safety Commission, Federal Housing Administration, Federal Trade Commission and General Services Administration.
Keywords	gas appliance; furnaces; water heaters; gas transmission equipment; energy; building; consumer products; industrial equipment;

GAS PROCESSORS ASSOCIATION

Ronald E. Cannon, Executive Director

6526 East 60th Street
Tulsa, Oklahoma 74145
(918) 493-3872

FAX: (918) 493-3875

Founded: 1921

Standards Staff: 8

Type of Organization	Trade Association Standards Developer
Standards Designation	Standards; Technical Publication TP; Research Report RR
Secretariats	ASTM Technical Division H of Committee D-2 on Petroleum Products and Lubricants ISO/TC 28/SC4/WG8 on LP-Gas Specifications
Scope	An international trade association of 200 member companies that produce and process natural gas, or engage in processing, transport, storage, or marketing of natural gas liquids. Six technical subcommittees prepare and maintain industry standards applicable to the gas processing industry. Standards include plant design and analytical procedures for natural gas and gas liquids.
Standardization Activities	Develops and maintains product specifications for natural gas liquids (propane, butane, natural gasoline), principally for large inter-company industrial custody transfer. Specifications require and include industry standards for gas and liquid measurement, gas and liquid analysis, storage facilities, and physical property data. Also maintains specifications for the consumer products LP-Gas (commercial propane and commercial butane). A continuing research program is directed toward development of measurement data and thermodynamic properties of natural gas and gas liquid mixtures.
Availability	Sold directly and through IHS
Formerly	Natural Gas Processors Association (1964)
Keywords	liquefied gas; natural gas; energy; consumer products;

GEMOLOGICAL INSTITUTE OF AMERICA

Bill Boyajian, President

1660 Stewart Street
Santa Monica, California 90406
(213) 829-2991

Founded: 1931

Type of Organization	Trade Association Standards Developer
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Standards Designations	Diamond Quality Standards
Certification	Grading reports issued by GIA's Gem Trade Laboratories are referred to as Diamond Quality Reports, although in the jewelry industry they are most often called certificates.
Scope	Promotes the jewelry trade, serves the needs and professional interests of members, and upgrades skills through educational programs in the identification and quality analysis of gemstones and pearls, jewelry making and repair, retailing and store management. Maintains gem testing and research laboratories and develops testing and grading equipment.
Standardization Activities	Key elements of the Institute's education program are standard grading systems developed by the Institute to evaluate and appraise diamonds and colored stones. Standards for quality analysis and grading were first established for polished diamonds in 1953.
Keywords	diamonds; jewelry; quality; grading; testing; consumer products;

GENERAL AVIATION MANUFACTURERS ASSOCIATION

	Stanley J. Green, Vice President
	1400 K Street, NW Suite 801 Washington, DC 20005 (202) 393-1500 FAX: (202) 842-4063
	Founded: 1970
Type of Organization	Trade Association Standards Developer
Standards Development	Standards developer since 1974 Eight active standards None processed through ANSI Draft standards not available for review
Standards Designations	GAMA Specifications
Government Adoption	The FAA accepts compliance with GAMA specifications in lieu of its own standards or regulations or as an acceptable means of meeting FAA regulations.
Scope	A national trade association representing U.S. manufacturers engaged in the research, development, and

manufacture of general aviation aircraft, aircraft engines, avionics, and component parts of general aviation aircraft.

**Standardization
Activities**

Directed toward meeting industry needs with respect to dissemination of operating, maintenance and safety information, or to government certification requirements. GAMA standards include specifications for pilot's operating handbook, manufacturers maintenance data, decal to minimize the misfueling of general aviation aircraft, and specification for tape to mark fueling nozzles. In the case of standards developed to fulfill government requirements, FAA participates in the development and approval of the standards. Standards have been used worldwide by aircraft manufacturers in order to meet FAA's requirements without the need to develop individual means of compliance. Monitors the activities of other standards developing organizations, including RTCA, SAE, ASTM, and the ISO.

Availability

Distributed directly and through NSA

Keywords

aviation; avionics; transportation; maintenance; pilot training;

GLASS PACKAGING INSTITUTE

Lewis D. Andrews, Jr., President

1801 K Street, NW
Suite 1105-L
Washington, DC 20006
(202) 887-4850

FAX: (202) 785-5377

Founded: 1945

**Type of
Organization**

Trade Association
Standards Developer

Scope

Represents the manufacturers of glass containers and closures producing 90 percent of the United States output. Promotes the continued growth and acceptance of glass containers as desirable, competitive packages of beverages, foods, and other commodities.

**Standardization
Activities**

Maintains a Technical Committee augmented by specific subcommittees and task groups. This committee meets regularly with qualified specialists from participating firms to review and investigate unique technical problems developing in the industry. Participated in the development of the Department of Commerce, Voluntary Product Standard for Carbonated Soft Drink

Bottles (PS 73-89), which covers major considerations in the manufacture and control of containers for carbonated soft drinks.

Keywords packaging; glass containers;

GLASS TEMPERING ASSOCIATION

William J. Birch, Executive Director

White Lakes Professional Building
3310 Harrison Street
Topeka, Kansas 66611
(913) 266-7064

Founded: 1958

Type of Organization Technical Society
Standards Developer

Scope A nonprofit organization of firms engaged in tempering glass.

Standardization Activities Develops specifications, standards, and testing procedures for a variety of tempered glass products. Technical committees are involved in Standards and Engineering, Appliance Specifications, Construction Specifications, Spandrel Specifications and Consumer Safety Glazing Legislation. Publishes the Engineering and Standards Manual.

Availability Distributed directly

Keywords glass tempering; tempered glass; materials; building;

GOLD INSTITUTE

John H. Lutley, Managing Director

1026 16th Street, NW
Washington, DC 20036
(202) 783-0050

Telex: 904233
FAX: (202) 873-2127

Founded: 1976

Standards Staff: 1

Type of Organization Trade Association
Standards Developer

Standards Designations Unified Number Designations

Certification	No certification programs; supplier self certification
Secretariats	ASTM Committee B-2, Section on Unified Numbering System Designations for Precious Metals
Scope	An international trade association of miners, refiners, fabricators, and bullion dealers. Extends the market for the use of gold through publications, seminars, joint symposiums with technical organizations, and trade shows.
Standardization Activities	Develops standard alloy designations for gold alloys for Unified Numbering System for Metals and Alloys issued by the Society of Automotive Engineers (SAE) and the American Society for Testing and Materials (ASTM).
Availability	Distributed directly and through ASTM and SAE
Keywords	gold; precious metals; bullion; alloys; materials;

GRAIN ELEVATOR AND PROCESSING SOCIETY

David Krejci, Executive Vice President

301 4th Avenue South
Suite 365
P.O. Box 15026 Commerce Station
Minneapolis, Minnesota 55415
(612) 339-4625

Founded: 1930

Standards Staff: 1

Type of Organization	Professional Society Works through other organizations to develop standards
Scope	An international association of individuals working directly with grain handling, operations or processing, or individuals providing products and services to the grain handling and processing industries. Promotes individual professionalism and fellowship, and safe, efficient operations within the grain and processing industries.
Standardization Activities	Promotes safe, efficient, cost-effective regulations in the grain handling and processing industries. Not a standards developer but works through volunteer committees formed both by GEAPS and other grain industry associations. Committees working with standards and regulatory agencies are the Safety and Health Committee and Grades and Weights Committee. The Safety and Health Committee

works with and monitors the activities of the Occupational Safety and Health Administration. The Grades and Weights Committee works with the USDA Federal Grain Inspection Service. Standards relating to air and water quality, use of respiratory equipment, noise levels, equipment maintenance, emergency procedures, safety, and air transportation are also monitored.

Formerly Society of Grain Elevator Superintendents
Keywords grain; milling; agriculture; safety;

GRAPHIC COMMUNICATIONS ASSOCIATION

Norman W. Scharpf, President

1730 North Lynn Street, Suite 604
Arlington, Virginia 22209

Founded: 1966 Standards Staff: 3

Type of Organization Trade Association
Standards Developer

Standards Development Standards developer since 1976
40 member committees plus staff participate in standards activities
Three active standards or recommended specifications
One being processed through ISO
Draft standards available for review

Standards Designation GCA Standard; recommended specifications

Government Adoption Department of Defense, Internal Revenue Service, and others have adopted GCA standards.

Certification No certification, qualification, or accreditation programs

Scope An international membership association of printers, publishers, suppliers, and related industry firms dedicated to advancing the application of electronic technologies and modern management techniques in the graphic communications industry.

Standardization Activities Develops standards and specifications for text processing and textual data base identification; specifications for computer preparation of publications mailing labels; structures for magnetic tape transmittal of name and address information for printing and publishing applications; production

specifications for web offset publications; operation codes for the pressroom; computer protocols for various functional areas. Works with the industry Specifications Committee for Web Offset Publications, and takes a membership role in ANSI X3J6, X3V1 and related task groups.

Availability Distributed directly and through PIA (Printing Industries of America, Inc.)

Formerly Graphic Communications Computer Association; PIA Computer Section

Keywords printing; computers; text; mailing; information processing; communications;

GRAVURE ASSOCIATION OF AMERICA

David A. Smith, Executive Vice President

90 Fifth Avenue
New York, New York 10011
(212) 255-0070

Founded: 1949

Type of Organization Trade Association
Standards Developer

Scope Association of printing firms using the gravure printing process. Promotes quality printed products through the cooperation of publisher, printer, engraver, supplier, and advertising agency.

Standardization Activities Develops standards to cover every facet of printing including input, proofing and packaging. Standards are produced through a network of councils and subcommittees on a voluntary basis. Two hundred and seventy member firms observe GTA standards in publication, packaging and specialty gravure.

Formerly Gravure Technical Association

Availability Distributed directly

Keywords printing; ink; paper; photomechanical printing; communications;

GRINDING WHEEL INSTITUTE

Allen P. Wherry, Manager

30200 Detroit Road
Cleveland, Ohio 44107
(216) 899-0010

FAX: (216) 892-1404

Founded: 1914

Standards Staff: 3

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Standards developer since 1914

Secretariats

Accredited Standards Committee B7 on Use, Care, and
Protection of Abrasive Wheels
Accredited Standards Committee B74 on Abrasives

Scope

Manufacturers of wheels, stones, and other bonded
abrasive products for grinding, sharpening, and
polishing.

**Standardization
Activities**

Carried on by the Standards and the Safety Committees.
Work of the Standards Committee deals with
simplification matters. Initiated program for
simplification of sizes of grinding wheels. Assists in
the development of American National Standards covering
the products of the industry, these include:

B74 - The development of identification and dimensional
standards and standard test methods for bonded, coated,
and loose abrasives in the natural and manufactured
categories.

B7 - Specifications for safety in the use of bonded,
coated, and loose abrasives, excluding natural
sandstones; including safety requirements for abrasive
products, abrasive machines and accessories, and
requirements for the proper storage, handling, and
mounting of abrasive products.

Also participates in international standardization work
with the International Organization for Standardization
(ISO) and the Federation of European Producers of
Abrasives (FEPA).

Availability

Distributed directly and through ANSI

Formerly

Grinding Wheel Manufacturers Association (1948)

Keywords

abrasive wheels; grinding wheels; abrasives; abrasive
grain; diamond abrasives; machinery;

GUMMED INDUSTRIES ASSOCIATION

Robert W. McKellar, Managing Director

5 Darrow Court
Post Office Box 92
Greenlawn, New York 11740
(516) 261-0114

Founded: 1920

Standards Staff: 2

Type of Organization

Trade Association
Standards Developer

Standards Development

Standards developer since 1950
30 members and associate members participating in
standards activities
8 active standards
None processed through ANSI
Draft standards available for review

Certification

Annual testing of participating members' products.
Compliance Seal.

Scope

A national trade association representing U.S.
companies engaged in the manufacture of water-activated
gummed carton and box sealing tapes. Major suppliers
of raw materials and dispensing and application
equipment also participate actively in all phases of
the association's programs.

Standardization Activities

Develops standardized test procedures for adhesiveness,
tensile, tear resistance, basis weight, and related
characteristics. Develops and publishes Voluntary
Product Standards designed to provide end users of
gummed tape products with scientific data relating to
the differences between a wide range of specific tape
grades.

Availability

Sold directly and through members

Keywords

sealing tapes; gummed tapes; tape equipment; packaging;

GYPSUM ASSOCIATION

Jerry A. Walker, Executive Director

810 First Street, NE
Suite 510
Washington, DC 20002
(202) 289-5440

Founded: 1930

Type of Organization	Trade Association Standards Developer
Standards Designation	GA prefix
Scope	Promotes the use of gypsum and gypsum products. Conducts technical research programs in fire, sound, and structural testing of gypsum products and related accessories. Contributes to building codes through education in the application and uses of gypsum products, and to the life-safety aspects of fire protection by providing advisory services in the interests of the industry and users of its products. Serves as the gypsum information center for all federal, state and local jurisdictions as well as architects, specification writers and contractors.
Standardization Activities	Maintains committees in the areas of Building Codes, Manufacturing and Mining, Promotion, Safety, and Technical. Prepares and publishes GA-216, Recommended Specifications for the Application and Finishing of Gypsum Board and GA-600, Fire Resistance and Sound Control Design Manual, as referenced by the BOCA National Building Code, SBCCI Standard Building Code and the ICBO Uniform Building Code. Has over 60 years of leadership in the ASTM C-11 Standards Committee on Gypsum and Related Building Materials and Systems.
Availability	Distributed directly
Keywords	gypsum; construction; materials;

HACK AND BAND SAW MANUFACTURERS ASSOCIATION OF AMERICA

Charles M. Stockinger, Secretary/Treasurer

1230 Keith Building
Cleveland, Ohio 44115
(215) 241-7333

Telex: 980393

Founded: 1959

Type of Organization	Trade Association Standards Developer
Standards Development	Standards developer since 1920 Two active standards
Standards Designation	ANSI prefix

Scope	A trade association consisting of 13 United States manufacturers of hack and band saw blades. Promotes common business interests of the industry.
Standardization Activities	Has been active in the standardization of hack saw blade sizes and band saws. Currently active on ASME B94 TC 19 Standardization Committee for Hack, Band, and Hole Saws, and on ISO/TC 29 WG 15, Band Saws. Continuously reviews and recommends changes in standards due to rapid addition of new blades and applications in the market place. Currently working with machine manufacturers for band saw length standardization.
Availability	Distributed directly and through ANSI
Formerly	Merged Hack Saw Association and Metal Cutting Band Saw Association (1959)
Keywords	cutting; saws; manufacturing;

HAIR INTERNATIONAL

Rhonda Newell, Office Administrator

1318 Starbrook Drive
Charlotte, North Carolina 28210

Founded: 1924

Type of Organization	Professional Society Standards Developer
Certification	Examinations to certify ability to do hairpiece work, styling, coloring, relaxing, and merchandising are required for the professional certification of barbers.
Scope	Aims to professionalize the industry through education and standardization.
Standardization Activities	Administers a National Education Council and Executive Committee which are active in standards activities. Standard rules and regulations are written for and apply to barber colleges, individual students and barbers, hairstylists, textbooks, and for judging contestants in contests. State regulations, however, supersede Hair International rules and regulations. Advocates use of a barber stylist standardized examination and educational program for the profession. Current projects include standardization of advanced educational methods in barber schools, as well as for

shows and educational seminars. Promotes its standards through mailings, personal contact, a monthly magazine, and barber shows.

Formerly	Associated Master Barbers and Beauticians of America
Availability	Distributed directly
Keywords	barbers; hair; beauticians; education;

HAND TOOLS INSTITUTE

Richard C. Byrne, Executive Director

25 North Broadway
Tarrytown, New York 10591
(914) 332-0040

Founded: 1935

Type of Organization	Trade Association Standards Developer
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Standards Development	65 members participate in standards development 25 active standards Processed through ANSI
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Standards Designations	ANSI B107.x
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Scope	Promotes and furthers the interests of its members relative to manufacturing, safety, standardization, international trade, and government relations. Provides a broad spectrum of educational subjects of industry interest, such as statistical and marketing surveys. Educates the hand tool user on the safe and proper use of hand tools.
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Standardization Activities	Develops and advances standards dealing with performance, design and safety. Representatives serve on U.S. TAGs to ISO standards committee.
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Availability	Distributed directly and through ANSI
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Formerly	Service Tools Institute
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Keywords	tools; industrial equipment; consumer products;
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HARDWOOD MANUFACTURERS ASSOCIATION

Susan M. Regan, Executive Vice President

2831 Airways Boulevard, Suite 205
Memphis, Tennessee 38132
(901) 525-8221

Founded: 1935

**Type of
Organization**

Trade Association
Works through other organizations to develop standards

Scope

Manufacturers of southern hardwood lumber and hardwood products. Compiles statistics.

**Standardization
Activities**

Southern hardwoods are graded under the rules of the National Hardwood Lumber Association. Cooperates with the National Hardwood Lumber Association in grade standardization of hardwood lumber; also with Government agencies and all lumber associations in the development of American Lumber Standards fostered by the Department of Commerce.

Formerly

Southern Hardwood Lumber Manufacturers Association

Keywords

lumber; wood products;

HARDWOOD PLYWOOD MANUFACTURERS ASSOCIATION

E.T. Bill Altman, President

1825 Michael Faraday Drive, Box 2789
Reston, Virginia 22090
(703) 435-2900

Founded: 1921

Standards Staff: 4

**Type of
Organization**

Trade Association
Standards Developer

Certification

HPMA has inspection, testing, and certifying programs for glue bond, structural, flamespread, and formaldehyde emissions.

Scope

A national trade association for hardwood plywood and veneer manufacturers and prefinishers of hardwood plywood. Functions on a national and international level representing its membership at United Nations Food and Agriculture Organization (UN FAO) Wood Based Panel Product Meetings and Asian plywood conferences held every two years. Promotes the sale and use of hardwood plywood.

**Standardization
Activities**

Publishes the American National Standard for Laminated Hardwood Flooring, ANSI/HPMA LHF 1987; American National Standards for Hardwood and Decorative Plywood, ANSI/HPMA HP-1982, as well as HP-SG-86, Structural Design Guide for Hardwood Plywood; CB-SG-73, Design Guide for Wood Composition Board Panels; and GP-RUD-73, Recommended Use Document for Two-Ply Panels for Gusssets. Cooperates with all government agencies to write federal and military specifications which affect hardwood plywood, veneer, and flooring.

Monitors U. S. model building codes with reference to hardwood plywood products.

Availability

Distributed directly

Formerly

Hardwood Plywood Institute

Keywords

hardwood plywood; veneer; paneling; flooring; construction; building; wood products;

HEALTH INDUSTRY MANUFACTURERS ASSOCIATION

Norman F. Estrin, Ph.D., Vice President,
Science and Technology

1030 15th Street, NW, Suite 1100
Washington, DC 20005
(202) 452-8240

Founded: 1975

**Type of
Organization**

Trade Association
Works through other organizations to develop standards

Secretariats

U.S. Technical Advisory Groups for IEC/TC 62 and TC 62A

Scope

330 manufacturers of medical devices and in vitro diagnostics. Focuses on legislative and regulatory international and health policy issues affecting the industry.

**Standardization
Activities**

Works through other organizations to ensure that member views are represented on policy issues related to voluntary and regulatory standards. Cooperates with AAMI, ASTM, NCCLS, ANSI, and other organizations.

Keywords

health; medical equipment; diagnostic products;

HEALTH PHYSICS SOCIETY

Richard J. Burk, Executive Secretary

8000 Westpark Drive
Suite 400
McLean, Virginia 22102
(301) 790-1745

Founded: 1956

Type of Organization

Professional Society
Standards Developer

Standards Development

Standards developer since 1956
100 members participate in standards activities
17 active standards
10 in development stage
All processed through ANSI

Government Adoption

Several HPS/N13 standards have been adopted by government agencies, such as the NRC.

Secretariats

ANSI N13 Committee on Radiation Protection since 1976

Scope

Encourages the development of scientific knowledge and practical means for the protection of man and his environment from the harmful effects of radiation, while encouraging its optimum utilization for the benefit of mankind.

Standardization Activities

Standards development directed toward the area of radiation protection including radiation monitoring, air sampling, personnel dosimetry, bioassay, environmental surveillance, and radiation emergency response. Standards are widely used by nuclear facilities, regulatory agencies, research and academic institutions, and medical facilities which participate in their development.

Availability

Draft standards distributed directly. Published standards distributed through ANSI.

Keywords

dosimetry; radiation; nuclear energy; public health;

HEAT EXCHANGE INSTITUTE, INC.

John H. Addington, Secretary/Treasurer

1621 Euclid Avenue
1230 Keith Building
Cleveland, Ohio 44115-2180
(216) 241-7333 FAX: (216) 241-0105

Founded: 1933

Standards Staff: 3

**Type of
Organization**

Trade Association
Standards Developer

Scope

The HEI is a nonprofit trade association committed to the technical advancement, promotion, and understanding of a broad range of utility and industrial-scale heat exchanger and vacuum apparatus. The Institute concentrates its efforts on the manufacturing and engineering aspects of steam surface condensers, closed feedwater heaters, power plant heat exchangers, liquid ring vacuum pumps, and steam jet ejectors.

**Standardization
Activities**

Develops standards concerning steam surface condensers, closed feedwater heaters, power plant heat exchangers, liquid ring vacuum pumps, and steam jet ejectors.

Keywords

condensers; feedwater heaters; heat exchangers; vacuum pumps; steam jet ejectors; energy; industrial equipment;

HELICOPTER ASSOCIATION INTERNATIONAL

Frank L. Jensen, Jr., President

1619 Duke Street
Alexandria, Virginia 22314-3439
(703) 683-4646 Telex: 89-615
 FAX: (703) 683-4745

Founded: 1948

**Type of
Organization**

Trade Association
Works through other organizations to develop standards

Representation

Federal Aviation Administration, National Transportation Safety Board, National Fire Protection Association, and other national and international organizations developing standards for safety, test, performance, and environment affecting helicopter design or operation.

Certification

Participates in development and coordination of certifications promulgated by federal, state, and international authorities.

Scope

Nearly 1,100 member companies, including 542 civil helicopter operators in 47 countries. Its 24 committees represent the helicopter industry in federal and state regulatory matters, and provide civil helicopter operator user input in the areas of federal aviation regulation, heliport development, noise, and

related subjects. Develops, promotes, and conducts helicopter safety and management education programs worldwide. Works with the National Transportation Safety Board and the Federal Aviation Administration to identify accident cause factors and trends relating to accident prevention. Publishes periodic Safety Review newsletters.

**Standardization
Activities**

Develops, coordinates, and reviews recommended federal, state, and local standards and criteria for heliport and helicopter operations; assists community planners and heliport developers in environmental assessment and analysis of proposed heliports in communities and city business districts; participates in the development of National Fire Protection Association codes involving heliport/helicopter fire protection and crash/rescue services. Develops, coordinates, and recommends to federal, state, and local authorities standards and criteria for the establishment of civil public-use heliports, hospital heliports, off-shore helidecks, private and personal use heliports.

Coordinates emergency medical service planning with national and regional medical authorities, other associations, emergency planners, hospital administrations, helicopter operations, and manufacturers to establish acceptable operational criteria for specific emergency medical service applications.

Formerly

Helicopter Association of American (HAA)

Keywords

helicopter; heliport; aviation; safety; transportation; emergency medical care;

HOME AUTOMATION ASSOCIATION

Nick Pyle, Association Administrator

Post Office Box 3731
Washington, DC 20007
(202) 333-8579

Founded: 1988

**Type of
Organization**

Trade Association
Works through other organizations to develop standards

Representation

Represents dealers, installers, architects, utilities, manufacturers, designers, engineers, home builders, consultants, and individuals interested in home automation.

Scope	Association members meet under HAA's umbrella to discuss issues that affect the home control industry. HAA provides an unbiased forum to discuss the advancement of the home control industry and does not advocate the use of any particular product or protocol. Committees have been established to independently address concerns.
Standardization Activities	HAA's Standards and Protocols Committee is addressing need for standards for power line media, packet format, languages and other system elements as well as features which assure compliance with the National Electrical Code and related requirements.
Keywords	building; communications; consumer products; information processing; electrical; electronic; energy; environment; heating;

HOME VENTILATING INSTITUTE - DIVISION OF AMCA

D.O. Rammien, Executive Director

30 West University Drive
Arlington Heights, Illinois 60004
(708) 394-0150

Founded: 1955

Type of Organization	Trade Association Standards Developer
Government Adoption	The HVI label is cited by the Department of Housing and Urban Development, Federal Housing Administration as evidence of compliance with test requirements of the Minimum Property Standards which require that all ventilating equipment be tested and rated according to HVI procedures.
Certification	Conducts a program for certified performance standards for residential ventilating devices. HVI certified ratings for air delivery were introduced in 1960 and for sound emission in 1971. All ratings are based on independent tests at Texas A & M University. Products bearing the HVI label must be so certified.
Scope	A voluntary organization for manufacturer self-regulation of residential and static ventilating devices.
Standardization Activities	Writes recommended practices for manufacturers. Develops certified ratings for air delivery and sound emission related to air change standards for kitchens, bathrooms, and other rooms. Recognized as a quality

control agency by the International Conference of Building Officials. Recognized as a testing agency by the Building Officials and Code Administrators International. Develops standards for space ventilators. Cooperates with ASHRAE, CSA and other organizations in developing proposed standards. Standards are available in HVI's guide and annual directory of ratings.

Availability Distributed directly

Keywords ventilating; acoustics;

HUMAN FACTORS SOCIETY

Lynn Strother, Executive Administrator

P.O. Box 1369
Santa Monica, California 90406
(213) 394-1811

Founded: 1957 Standards Staff: 1

Type of Organization Professional Society
Standards Developer

Standards Development 100 members active in standards activities
One standard available

Secretariats U.S. TAG to ISO 159

Scope An interdisciplinary organization of professional people involved in the human factors field. Promotes the discovery, exchange, and application of knowledge concerning the relationship of people to their machines and their environment. Advocates the consideration of operators, maintainers, and users in the design of equipment and facilities. Supports the development of working and living environments that are comfortable and safe.

Standardization Activities Has developed a standard on visual display terminal (VDT) workplace design through ANSI Safety and Health Management Board.

Availability Sold directly and through ANSI

Keywords human factors; ergonomics; safety; workplace design; office products; public health;

HYDRAULIC INSTITUTE

Allen P. Wherry, Secretary Treasurer

30200 Detroit Road
Cleveland, Ohio 44145
(216) 899-0010

FAX: (216) 892-1404

Founded: 1917

Standards Staff: 3

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Standards developer since 1917
70 member companies participating in standards
activities

Certification

No certification, qualification, or accreditation
programs

Secretariats

American National Standards Committee B215, Pumps; U.S.
TAG for ISO/TC 115

Scope

A nonprofit, national trade association that represents
U.S. companies engaged in the manufacture of pumps;
dedicated to excellence in engineering, manufacturing,
and application of pumping equipment.

**Standardization
Activities**

Publishes standards in the public interest, designed to
enhance understanding between the manufacturer and the
purchaser, and to assist the purchaser in selecting and
obtaining the proper product for his particular need.
Cooperates with other organizations, including the
American National Standards Institute, the American
Society of Mechanical Engineers, the National
Electrical Manufacturers Association, and the National
Fire Protection Association, in writing standards
subject to constant review and revision when necessary.
The standards program is based on work performed by
Technical Committees specializing in particular types
of pumps. The present standards edition is an
extensive rework of previous editions with four
principal sections: centrifugal, vertical, recipro-
cating, and rotary pumps. Provides information on:
classes, types, and nomenclature; ratings; test codes;
applications; and installation, operation, and
maintenance; and measurement of airborne sound from
pumping equipment and construction materials. Also
publishes the Engineering Data Book.

Availability

Sold directly

Formerly

Hydraulic Society

Keywords pumps; fluids; industrial equipment;

HYDRONICS INSTITUTE

John I. Woodworth, Technical Director

35 Russo Place
PO Box 218
Berkeley Heights, New Jersey 07922
(201) 464-8200

Founded: 1915

Standards Staff: 3

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Standards developer since 1940

**Government
Adoption**

Equipment performance ratings are specified in Standard Specifications of several federal and state agencies.

Certification

Equipment rating resulting from tests are certified by the Ratings Committee, and are published in books for general distribution to specifiers. Under new procedures established by DOE and FTC, the Institute tests and certifies the performance of residential boilers as meeting the standards of the regulations. Such certification is provided to municipalities and to users.

Scope

Manufacturers of hydronic (hot water and steam) heating and cooling equipment. Compiles statistics; sponsors educational programs. Assists government agencies, professional societies, and other trade associations in developing standards for residential and commercial buildings, hot water heating, steam, piping and system design criteria, residential cooling, panel heating, snow melting.

**Standardization
Activities**

Sponsors and funds research programs, the results of which form the basis for developing standards for testing heating boilers, comfort radiation equipment, immersion water heaters, and for establishing their ratings and installation criteria. Performs certification tests as requested for both members and non-members. Performs re-tests on products in manufacturers' stock, chosen at random.

Provides guidance to government agencies at no cost in developing mechanical specifications, energy conservation standards, performance standards.

Formerly	Institute of Boiler & Radiator Manufacturers (1970) Steel Boiler Institute (1963) Better Heating-Cooling Council (1970)
Keywords	heating; cooling; boilers; hot water; snow melting; panel heating; building; industrial equipment;

ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA

John E. Kaufman, Technical Director

345 East 47th Street
New York, New York 10017
(212) 705-7916

Founded: 1906

Standards Staff: 2

**Type of
Organization**

Technical Society
Standards Developer

**Standards
Development**

Standards developer since 1907
285 members participating in standards activities
7 active standards
All processed through ANSI

**Government
Adoption**

Portions of several standards have been adopted by
OSHA.

Scope

A technical society devoted to advance the art,
science, and practice of illumination by investigation,
evaluation, and dissemination of knowledge to
consumers, producers, and general interest groups
through educational, literary, and scientific means.

**Standardization
Activities**

Maintains 106 technical committees and subcommittees
that study and report to its Board of Directors on
lighting of all areas, such as airports and aircraft,
farms, industrial plants, institutions, offices, public
conveyances, residences, schools, service stations and
parking areas, sports and recreational areas, stores,
streets and highways, theatres and television studios.
Other subjects include light sources, lighting and
air-conditioning, lighting education programs, lighting
progress, lighting maintenance, light control and
luminary design, nomenclature, quality and quantity of
light, testing procedures for illumination
characteristics, and photobiology. Six reports have
become ANSI standards:

ANSI/IES RP-1, Office Lighting
ANSI/IES RP-3, School Lighting
ANSI/IES RP-7, Industrial Lighting
ANSI/IES RP-8, Roadway Lighting

ANSI/IES RP-16, Nomenclature
ANSI/IES RP-22, Tunnel Lighting

Availability Distributed directly and through ANSI, IHS, and Global

Keywords lighting design; illumination; lighting; buildings;
public health;

INDIANA LIMESTONE INSTITUTE OF AMERICA

William McDonald, Architectural Service Director

Stone City National Bank Building
Suite 400
Bedford, Indiana 47421
(812) 275-4426

Founded: 1928

Type of Organization Trade Association
Standards Developer

Standards Development 1 active standard

Scope Serves the construction industry, the architectural profession, and the limestone industry as a coordinating agency for the dissemination of accurate, unbiased information on limestone standards, recommended practices, grades, colors, finishes, and all technical data required for specifying, detailing, fabricating, and erecting Indiana limestone. The institute is supported by quarriers, fabricators and associates of Indiana limestone building stone.

Standardization Activities Maintains a Technical Committee responsible for standardization activities. The Indiana Limestone Handbook, the only ILIA standard, is the national standard for the industry. In addition, Government agencies include reference to ILIA, as the standard source for information on Indiana limestone, in their standards and specifications.

Availability Distributed directly

Formerly Absorbed the National Association for Indiana Limestone.

Keywords limestone; materials; construction;

INDUSTRIAL DIAMOND ASSOCIATION OF AMERICA

J. Edgar Eubanks, Executive Director

3008 Millwood Avenue
Columbia, South Carolina 29205
(803) 252-5646

Founded: 1845

**Type of
Organization**

Trade Association
Standards Developer

Scope

Importers and dealers in industrial diamonds and manufacturers of diamond tools. Conducts research and holds seminars on all facets of industrial diamond usage.

**Standardization
Activities**

Develops standards for industrial diamonds. With the American Society of Manufacturing Engineers, it cosponsors American National Standards Institute (ANSI) Project B-67, Industrial Diamonds and Accessories for Their Use. Through this project, an American National Standard for Diamond Dressing Tools has been developed and approved. With the Grinding Wheel Institute, the association also cosponsors ANSI Project B-74.1, Identification Code for Diamond Wheel Shapes. Other American National Standards to which the association has cooperated include B-74.16, Checking the Size of Diamond Abrasive Grain, and B-74.17, Test for Bulk Density of Diamond Abrasive Grain.

In cooperation with NIST, the association developed a separate Commercial Standard for grading of diamond powder, known as CS261-63, Grading of Diamond Powder in Sub-Sieve Sizes.

IDAA's Toolmakers Industry Committee revises and updates the Handbook - Diamond Tool Shanks, compiled and published by the association since 1954.

Availability

Distributed directly and through ANSI

Keywords

diamonds; manufacturing; materials;

INDUSTRIAL FABRICS ASSOCIATION INTERNATIONAL

Steve Warner, Operations Director

345 Cedar Building
Suite 450
St. Paul, Minnesota 55102
(612) 222-2508

Founded: 1912

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Staff members and IFAI members actively participate on committees of ASTM, BOCA, ICBO, ISO, NFPA, FHWA, and USCG.

Scope

A trade association which has 22 product related divisions, ranging from the Architectural Fabric Structures Institute to the Truck Cover Division. Sixteen hundred member firms represent all levels of the industrial fabrics industry including fiber producers, weavers, coaters, finishers, and laminators.

**Standardization
Activities**

The Camping Products Division, in cooperation with the Finishers and Dyers Division, developed a model flammability code for materials used in camping tentage, designated CPAI-84. The Tarpaulin Division has developed CPAI-63, a quality assurance standard for domestic cotton tarpaulins. The Architectural Fabric Structures Institute has developed ASI-77 as a guide to manufacturers, prospective users, architects, and regulatory agencies. This standard sets requirements for the materials, design, construction, and erection of these structures.

IFAI developed CPAI-CLI, which includes standard classifications and test methods for woven coated and/or laminated polyolefins.

CPAI-75 includes rate-of-burn specifications for sleeping bags, and CPAI-79 includes a listing of standard test methods for coated and laminated fabrics. The association is now in the process of developing a standard for the thermal efficiency of window treatment products.

Availability

Sold directly

Formerly

Canvas Products Association International

Keywords

textiles; tents; tarpaulins; fabric structures; flammability;

INDUSTRIAL FASTENERS INSTITUTE

C.E. Scofield, Managing Director

1050 East Ohio Building
Cleveland, Ohio 44114
(216) 241-1482

Founded: 1931

**Type of
Organization**

Trade Association
Standards Developer

Scope

An association of North American manufacturers of bolts, nuts, screws, rivets, and all types of special industrial fasteners. Advances fastener technology and application engineering.

**Standardization
Activities**

Works cooperatively with national and international technical organizations, developing fastener standards and technical practices assuring users of maximum engineering efficiency and reliability, at minimum cost of assembly. There are more than 500,000 standard and 3,000,000 special sizes, kinds, and shapes of fasteners and engineering components.

Publishes the Fastener Standards Book, a major reference book for users of mechanical fasteners, this is a collection of pertinent standards which documents all types of general purpose commercial industrial fasteners. The standards book is used by design engineers and production managers in all industries. The Sixth Edition was published in June of 1988.

In 1983, IFI published the second edition of Metric Fastener Standards which presents the internationally agreed upon system of engineering standards for commercial and industrial metric fasteners.

Availability

Distributed directly and through IHS

Formerly

American Institute of Bolt, Nut, and Rivet Manufacturers

Keywords

fasteners; metric; manufacturing;

INDUSTRIAL GAS CLEANING INSTITUTE, INC.

Jeffrey C. Smith, Executive Director

1707 L Street, NW
Suite 570
Washington, DC 20036
(202) 457-0911

FAX: (202) 331-1388

Founded: 1960

Standards Staff: 1

**Type of
Organization**

Trade Association
Standards Developer

Scope	A national trade association of companies that manufacture air pollution control equipment.
Standardization Activities	Standards concern electrostatic precipitators, fabric filters, mechanical collectors, and other air pollution control equipment.
Availability	Sold directly; publication list available upon request
Keywords	air pollution; industrial equipment;

INDUSTRIAL PERFORATORS ASSOCIATION

Jean McKey, Secretary-Treasurer

710 North Plankinton
Suite 622
Milwaukee, Wisconsin 53203
(414) 271-2263

Founded: 1961

Type of Organization	Trade Association Works through other organizations to develop standards
Representation	Active in standardization of perforated materials through pertinent ASTM and ISO Committees.
Scope	A national trade association of manufacturers engaged in the production of perforated materials. Develops programs and activities to assist members achieve managerial expertise in marketing, manufacturing and other areas of company operations.
Standardization Activities	Originally developed standards for products used in the mining and aggregate industries. This led to the publication of a series of standards widely used in these industries. Finalized a series of standards for Industrial Perforated Metal which has been adopted and published by ASTM Committee E 29. Active in ISO/TC 24 which is involved with setting metric standards for perforated materials on a world wide basis. Also works closely with EUROPERF, which is the Trade Association of European Perforators.
Keywords	perforators; screen; punched-plate; industrial equipment;

INDUSTRIAL SAFETY EQUIPMENT ASSOCIATION

Frank E. Wilcher, Jr., President

1901 North Moore Street
Arlington, Virginia 22209
(703) 525-1695

Founded: 1934

Standards Staff: 3

**Type of
Organization**

Trade Association
Works through other organizations to develop standards

Representation

75 members
Representation on 20 ANSI Committees
Work with ISO and ASTM Committees

Certification

The membership of ISEA established an independent organization, the Safety Equipment Institute (SEI), in 1981. SEI administers a nongovernmental program to test and certify industrial safety products. SEI certification is voluntary, requiring annual product testing and quality assurance audits at manufacturing sites. Current programs include industrial helmets, eye and face protective products and emergency eyewash and shower equipment. Certification of respirators is performed by NIOSH and MSHA.

Secretariats

ANSI Z308.1 and Z358.1

Scope

A nonprofit organization of manufacturers of personal protective products for industrial environments. Dedicated to the safety of workers who rely on protective equipment and to the welfare of the safety equipment industry. Membership is international.

**Standardization
Activities**

Works for the development of standards which assure the high performance of safety products. Provides manufacturers input in standards development through official representation to such organizations as American National Standards Institute, National Fire Protection Association, National Society for the Prevention of Blindness, and American Society for Testing and Materials. Product categories involved in standard activities include: emergency eyewash and safety shower, eye and face protection, fall protection, head protection, hearing protection, industrial first aid, industrial safety and health instruments, industrial warning devices, machinery guards, respiratory protection, safety cans, and safety wearing apparel.

Formerly

Industrial Safety Equipment Manufacturers Association of the United States of America (1936)

Keywords safety; personal protection; industrial equipment;

INDUSTRIAL TRUCK ASSOCIATION

William J. Montwieler, Executive Director

1750 K Street, NW

Suite 210

Washington, DC 20006

(202) 296-9880

FAX: (202) 296-9884

Founded: 1952

**Type of
Organization**

Trade Association
Standards Developer

Scope

Manufacturers of powered industrial trucks, tractors,
and their major components.

**Standardization
Activities**

Through its General Engineering Committee, develops a
Manual of Recommended Practices which is used as source
material to advance safety and efficiency in the
design, manufacturing, and use of industrial trucks.
Cooperates with the American National Standards
Institute, ASME Standards Committees, and ISO, as well
as with the National Fire Protection Association, in
matters affecting powered industrial trucks.

Availability

Sold directly

Formerly

Electric Industrial Truck Association (1951)

Keywords

industrial trucks; industrial equipment; tractors; fork
lift;

INSTITUTE FOR INTERCONNECTING AND PACKAGING ELECTRONIC CIRCUITS

Raymond E. Pritchard, Executive Director

7380 North Lincoln Avenue

Lincoln Wood, Illinois 60646

(708) 677-2850

Telex: 214 814 IPC UR

FAX: (708) 677-9570

Founded: 1957

Standards Staff: 7

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Standards developer since 1957
1,800 member companies participating in standards

activities
75 active standards
Standards and specifications processed through ANSI
Draft standards available to IPC representatives and
applicable organizations

**Standards
Designation**

IPC

**Government
Adoption**

The Department of Defense has adopted 14 standards,
with others pending.

Certification

Qualification programs being developed

Scope

An international trade association of 1,800 member companies representing manufacturers and users of electronic interconnection devices. Also includes key suppliers to the industry, and representatives from over 60 government agencies.

**Standardization
Activities**

Standards used worldwide by producers and users of rigid and flexible printed boards, flat cable, hybrid circuits, and various discrete wiring techniques.

Works closely with many organizations including UL, DOD, ANSI, EIA, and JEDEC. Members actively serve on a wide range of military and industry standards committees including the IEC, ANSI, EIA, ISHM, IEEE, and UL. Technical input solicited from and supplied by the 1,800 member companies of the IPC, and key government agencies and industry organizations.

IPC standards are used throughout the electronics industry in the interconnecting and packaging of electronic circuits. Standards applied to business, communications, consumer electronics, computers and peripherals, the military, industrial electronics, and instrumentation.

Standards cover dimensions and tolerances, acceptability levels and definitions and terms. Widely used IPC standards include a compilation of visual quality standards; design and performance documents for soldering single, two-sided and multi-layered printed wiring boards; solderability standards and surface mount documents. In addition, conducts round robin testing programs for state-of-the-art product performance including testing of multi-layer boards, evaluation of plated through-holes, fine lines, and laminates and alternatives to CFCs.

Availability

Distributed directly and through ANSI, Global, and IHS

Formerly

Institute of Printed Circuits (1977)

Keywords printed circuits; printed boards; printed wiring boards; printed circuit boards; flat cable; electronics; electrical equipment; hybrids;

INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS

Andrew G. Salem, Staff Director of Standards

445 Hoes Lane
Post Office Box 1331
Piscataway, New Jersey 08855-1331
(201) 562-3800

Founded: 1884

Type of Organization

Professional Society
Standards Developer

Standards Development

30,000 members active in standards development
580 standards; 530 standards projects underway
Many processed through ANSI
An ANSI accredited organization

Standards Designations

IEEE Std xx-year

Government Adoption

30 IEEE standards have been adopted by the federal government.

Secretariats

16 American National Standards Committees (some as co-secretariat)

Scope

A transnational professional society of 315,000 engineers and scientists in electrical engineering, electronics, and allied fields.

Standardization Activities

The Standards Board has overall responsibility for standards development and approval, and the responsibility for participation in and cooperation with other organizations on standards issues. The Board currently has nine standing committees that provide assistance and make recommendations, offering expert advice concerning procedural and developmental matters, new opportunities, and future avenues to be explored.

IEEE develops and publishes standards on a variety of topics, including communications, computer languages and software engineering, electrical safety, and commercial and industrial power systems. All IEEE standards are prepared by dedicated expert volunteers acting in their own fields of interest; yet are

approved by a widespread, strict consensus process. Proposed standards are examined by the review committee to ensure that a proper balance of interested parties exists, and that coordination and balloting procedures have been maintained.

Availability Distributed directly and through Global, IHS and Infonorme London Information (ILI).

Formerly Formed by a merger in 1963 of the American Institute of Electrical Engineers and the Institute of Radio Engineers.

Keywords communications; computers; electric power, local area networks (LANs); electrical safety; quality assurance; software;

INSTITUTE OF ENVIRONMENTAL SCIENCES

Janet A. Ehmann, Executive Director

940 East Northwest Highway
Mount Prospect, Illinois 60056
(708) 255-1561 FAX: (708) 255-1699

Founded: 1954

Type of Organization Professional Society
Works through other organizations to develop standards

Scope Devoted to the development and promotion of recommended practices, standards, specifications, research, simulation techniques, testing techniques, contamination control techniques, and the development of design criteria for equipment operation. The Institute is a member of the International Committee of Contamination Control Societies (ICCCS). Recommended practices have been developed by its Contamination Control Division in several areas.

Standardization Activities Considers and investigates matters relating to units and standards, as well as recommended practices, pertaining to, or applicable in, environmental engineering. Cooperates with other national technical organizations in matters regarding environmental standards, testing and engineering. Cosponsors meetings or group efforts with such organizations as American Society for Testing and Materials, American Institute of Aeronautics and Astronautics, Institute of Electrical and Electronics Engineers, and the Department of Defense. Sponsors a representative to the International Electrotechnical Commission concerned

with international standardization of environmental test methods.

Formerly American Association for Contamination Control (1973)

Keywords testing; contamination control; environment; quality assurance;

INSTITUTE OF INDUSTRIAL ENGINEERS

Gregory Balestrero, Executive Director

25 Technology Park
Norcross, Georgia 30092
(404) 449-0460

Founded: 1948

Standards Staff: 1

Type of Organization Professional Society
Standards Developer

Standards Development 50 volunteer members active in standards development
Standards processed through ANSI; All are designated American National Standards
Draft standards and revisions available for review by non-members

Standards Designation ANSI Z94

Secretariats American National Standards Committee Z94, Industrial Engineering Terminology

Scope An international society devoted to productivity improvement through the application of industrial engineering techniques. Serves more than 40,000 members in 87 countries. Provides a unique cross-section of products and services including books, journals, magazines, films, seminars, conferences, and certification.

Standardization Activities Focuses on the terms and phrases used in the practice of industrial engineering. These terms and phrases are developed through 17 subcommittees that represent the various disciplines of industrial engineering.

Availability Distributed directly and through ANSI.

Formerly American Institute of Industrial Engineers

Keywords industrial engineering; productivity; manufacturing;

INSTITUTE OF MAKERS OF EXPLOSIVES

Frederick P. Smith, President

1120 19th Street, NW
Suite 310
Washington, DC 20036
(202) 429-9280

Founded: 1913

**Type of
Organization**

Safety Association
Standards Developer

**Standards
Development**

Standards developer since 1913

**Standards
Designation**

IME prefix

**Government
Adoption**

IME recommendations are contained in federal and state regulations.

Scope

The safety association of the commercial explosives industry in the United States and Canada. Member companies include manufacturers of commercial explosives, fuses, and blasting detonators.

**Standardization
Activities**

Develops standards relating to safety in the transportation, storage, handling and use of commercial explosive materials. Works closely with regulatory agencies at the international, federal, state and local levels.

Availability

Sold directly

Keywords

explosives; safety materials;

INSTITUTE OF NUCLEAR MATERIALS MANAGEMENT

John E. Messervey, Executive Director

8600 West Bryn Mawr Avenue
Suite 720 South
Chicago, Illinois 60631
(312) 693-0990

Telex: 910-221-5870

Founded: 1958

**Type of
Organization**

Professional Society
Works through other organizations to develop standards

Representation Approximately 125 members active in INMM standardization including representatives on standards committee of ANSI, ASTM and others.

Certification Nuclear materials specialists and nuclear materials interns are certified by examination and reviewed by a certification committee.

Secretariats ANSI N14, Transportation of Fissile and Radioactive Materials
ANSI N15, Methods of Nuclear Material Control

Scope A nonprofit organization of individuals working in governmental, industrial and academic institutions where nuclear materials are utilized. The Institute advances the application of principals of accounting, auditing, engineering, mathematics, physics, statistics, and physical security for the safeguarding of nuclear fuel facilities. INMM also promotes research in the field of nuclear safeguards, materials accounting, materials control, physical protection, waste management, and transportation.

Standardization Activities Directed toward meeting requirements of industry related to safeguarding nuclear materials. Principal activities include serving as ANSI secretariat for N14 and N15. INMM standards are used extensively in Department of Energy and Department of Defense facilities, as well as government contractors and NRC licensees. In addition, INMM standards are used world-wide by related organizations and commercial enterprises.

Keywords nuclear materials safeguards; nuclear materials waste management; nuclear material transportation; defense; energy; safety; environment;

INSTITUTE OF TRANSPORTATION ENGINEERS

Thomas W. Brahms, Executive Director

525 School Street, SW
Washington, DC 20024
(202) 554-8050

Telex: 467943 WSH CI
FAX: (202) 863-5486

Founded: 1930

Standards Staff: 2

Type of Organization

Scientific Society
Standards Developer

Standards Development

300 members participate in standards development
27 active equipment standards and recommended practices

Standards Development	Standards developer since 1945 3,200 members participating in standards activities 79 active standards; 125 active committees Standards are processed through ANSI Draft standards available for review
Standards Designation	ISA-S, Instrument Society of America Standard ISA-RP, Instrument Society of America Recommended Practice
Government Adoption	The Nuclear Regulatory Commission has adopted five Instrument Society of America Standards.
Certification	No certification, qualification, or accreditation programs
Secretariats	Secretariat of ISO/TC 10/SC 3, Graphical Symbols for Instrumentation, IEC SC42L Combustible Gas Detectors and IEC SC65B Elements of Systems. ISA also serves as the administrative secretariat for U.S. TAG for IEC/TC 65, Industrial Projects Measurement and Control and IEC/TC 66 on Electronic Measuring Equipment, and sponsors the U.S. TAG for IEC/TC 31 SC/31G on intrinsic safety.
Scope	Chartered as a nonprofit educational organization, its membership comprises more than 41,000 practitioners, scientists, educators, and students worldwide involved in industrial instrumentation and control technology. Advocates the advancement of the technology of process measurement and control instrumentation through education. Augments the exchange of knowledge and information through a wide variety of publications and by developing consensus industry standards.
Standardization Activities	Prepares and promotes national and international standards which are competent, unbiased, widely applicable, and authoritative. Standards and practices committees span a wide spectrum of industries and technical interests dealing with measurement and control instrumentation. Topics include symbology, computer hardware and software, intrinsic safety, thermocouples, flowmeters, transducers, rotameters, face-to-face dimensions of control valves, control valve sizing, control valve capacity test procedures, manifold designs, pneumatic circuits, annunciators, dynamic response testing, specification forms, piping and instrument drawings, instrumentation for nuclear and fossil fuel power plants, installation practices, terminology, composition analyzers, environmental conditions for digital systems, strain gages, liquid level gages, batch control, combustible and toxic gas detectors, programmable electronic systems, fire

detection instruments, and continuous weighing instrumentations.

Availability Distributed directly and through ANSI, IHS, and Global

Keywords instrument; measurement; process measurement; control telemetry; metrology; analysis; automatic controls; scientific instrumentation; valves; industrial equipment;

INSULATED CABLE ENGINEERS ASSOCIATION

E. E. McIlveen, Secretary-Treasurer

P.O. Box 440
South Yarmouth, Massachusetts 02664
(508) 394-4424

Founded: 1925

Type of Organization Trade Association/Technical Society
Standards Developer

Standards Development Standards developer since 1925
100 members participating
30 active standards
Some standards processed through ANSI

Standards Designation ICEA, ICEA/NEMA, or ICEA/IEEE prefix

Government Adoption FAA, GSA, Air Force, Navy, Rural Electrification Administration, and others

Certification No certification, qualification, or accreditation programs

Scope An international nonprofit association of cable engineers which develops and publishes standards for electrical power, control, instrumentation, communications, and portable cables. The principal standards writing authority for industrial and utility cables in North American and recognized throughout the world. Membership confined to engineers who are on the technical staffs of concerns engaged in the manufacture of insulated electrical wires and cables, and who are qualified by technical training or experience to contribute to the Association's activities.

Standardization Activities Publishes recommended practices and treatises resulting from engineering research conducted by the Association. Publication on cable amperages recognized as joint standards by the National Electrical Manufacturers

Association (NEMA), Institute of Electrical and Electronic Engineers (IEEE) and the American National Standards Institute (ANSI).

Availability Distributed through designated Secretariats. Listings available from Headquarters.

Formerly Insulated Power Cable Engineers Association

Keywords electrical cable; insulated cable; electrical equipment, communications; cable;

INSULATED STEEL DOOR SYSTEMS INSTITUTE

Allen P. Wherry, Managing Director

30200 Detroit Road
Cleveland, Ohio 44145
(216) 899-0010

Telex: 98-5559

Founded: 1975

Standards Staff: 3

Type of Organization

Trade Association
Standards Developer

Standards Development

Seven member companies participate in standards development
Nine active standards including three ANSI Standards

Government Adoption

The ISDSI standards have been adopted by numerous government agencies.

Certification

No certification, qualification, or accreditation programs

Scope

A national trade association representing U.S. companies engaged in the manufacture of insulated steel door systems (consisting of door, frame, and total perimeter seal) which are specially designed and marketed for the residential market and tested to the Institute standards.

Standardization Activities

Promulgates minimum standard specifications for the manufacture of insulated steel door systems to assure quality products for the residential market. Works closely with numerous government agencies including Department of Housing and Urban Development, Department of Navy, Corps of Engineers, and the Farmers Home Administration. Also cooperates with various code organizations and with the National Association of Home Builders, the Door & Hardware Institute, and Builders Hardware Manufacturers Association.

Availability Distributed directly

Keywords doors; buildings;

INTER-SOCIETY COLOR COUNCIL

Dr. Dan C. Rich, Secretary

c/o Applied Color Systems
Post Office Box 5800
Princeton, New Jersey 08540
(609) 924-2189

Founded: 1933

Type of Organization Technical Society
Works through other organizations to develop standards

Scope Coordinates work leading to the description and specification of color, and promotes the practical application of such work to color problems arising in science, art, and industry. Membership consists of 24 delegates from national societies and individual members, all with a common interest in color.

Standardization Activities Not a standardizing body, but many of the results of its work are incorporated by its member bodies into standards which they issue or sponsor. This work is carried out by subcommittees of the ISCC Problems Committee.

Examples of preliminary work done within the ISCC include the ISCC-NIST Method of Designating Colors and a Dictionary of Color Names (NIST Circular 553); designations of filters for theatrical lighting; definitions of color terms; recommendations for illuminating and viewing conditions in the colorimetry of reflecting materials; standard methods for mounting textile samples for colorimetric measurement; standard practice for the visual examination of small color differences; the determination of sets of maximally different nonfluorescent colors; identification of pigments in use in artists' paint leading to a method for lightfastness determination and an artists' paint specification.

Keywords color; colorimetry; instruments; testing;

INTERNATIONAL ASSOCIATION OF ELECTRICAL INSPECTORS

W. I. Summers, Executive Director

930 Busse Highway
Park Ridge, Illinois 60068
(312) 696-1455

Founded: 1928

Standards Staff: 2

Type of Organization

Trade Association
Works through other organizations to develop standards

Representation

20 members and 20 alternates on the National Electrical Code promulgated by the National Fire Protection Association. Also participates on the ANSI C80, C73 and ANSI C2 committees; The UL Standards Review Council; and NFPA committees 70A, 70B, 70E, and 79.

Certification

Member of the National Board of Governors for the certification of electrical inspectors, administered by the Educational Testing Service, Princeton, New Jersey.

Scope

Promotes cooperation between inspectors, the electrical industry, and the public. Collects and disseminates information relative to the safe use of electricity. Over 20,000 members including inspectors, contractors, electricians, consulting engineers, utilities, and testing labs. Seventy-five percent of its meetings and publication programs are devoted to standardization activities. Maintains liaison in its code activities with its members in Canada and Japan.

Standardization Activities

Cooperates in the formulation of standards for the safe use of electrical materials, devices, and appliances. Also promotes the uniform understanding and application of the National Electrical Code, as well as other electrical codes and standards. Maintains liaison with the federal government in many standardization activities, particularly for the use and application of the National Electrical Code. Cooperates with the Department of Housing and Urban Development, the Consumer Product Safety Commission, as well as with the Occupational Safety and Health Administration (OSHA) of the Department of Labor. Also serves on various NFPA, ANSI, and UL standards writing committees.

Keywords

electrical code; inspection; safety; building;
government officials;

INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS

Ed Wachteit, Executive Director

20001 Walnut Drive South
Walnut, California 91789
(714) 595-8449

Founded: 1926

Standards Staff: 1

**Type of
Organization
organizations**

Trade Association
Standards Developer and works through other
to develop standards

**Standards
Development**

Product and Installation standards are processed
through IAPMO's Annual Conference
Four Z124 standards are processed through ANSI
Draft standards are available for review
57 standards are currently published

**Standards
Designation**

PS, IAPMO Product Standards
IS, IAPMO Installation Standards

**Government
Adoption**

The Uniform Plumbing Code is used in over 2,500
jurisdictions in the United States and is the mandatory
code for 13 states.

Certification

A monthly listing of 10,000 products certifies that
products have been tested and meet the requirements of
applicable standards and the Unified Plumbing Code.
Certification must be updated and renewed annually and
manufacturers are subject to reinspection during the
year of listing.

Secretariats

ANSI Committee Z124

Scope

Established by and for inspection officials of cities,
counties, and states with the goal of bringing about
uniformity in plumbing codes and their interpretation.
Cosponsors the Uniform Mechanical Code with the
International Conference of Building Officials.

**Standardization
Activities**

Presently writes installation and product standards
for conventional plumbing products. Promulgates both
installation and material standards for plumbing in the
mobile home and recreational vehicle industry.
Standardization activities are administered by the
IAPMO Standards Committee and IAPMO Mobile Home
Standards Committee. Works with the Department of
Housing and Urban Development, the Department of Labor,
and the National Institute of Standards and Technology.

Availability

Sold directly

Formerly	Los Angeles Area Plumbing Inspector Association (1926) Plumbing Inspectors Association of Southern California (1929) Plumbing Inspectors Association of California (1930) Pacific Coast Plumbing Inspectors Association (1934) Western Plumbing Officials Association (1945)
Keywords	building code; plumbing code; mobile home; recreational vehicle; safety building; government officials;

INTERNATIONAL ASSOCIATION OF WIPING CLOTH MANUFACTURERS

	Bernard Brill, Executive Vice President 7910 Woodmont Avenue Suite 1212 Bethesda, Maryland 20814 Founded: 1932
Type of Organization	Trade Association Standards Developer
Standards Development	Two active standards
Government Adoption	General Services Administration has adopted Wiping, Cotton, and Cotton-Synthetic dated October, 1981.
Scope	Focuses on common problems and opportunities in the management, promotion, research and development of the wiping materials, used clothing, and textile recycle industry.
Standardization Activities	Publishes Specifications for Wiping Cloths for use by all phases of industry that use wiping cloths in their operation. Specifications cover material, content, and grade of wiping cloths.
Availability	Distributed directly
Formerly	Sanitary Institute of America National Association of Wiping Cloth Manufacturers
Keywords	rags; textiles;

INTERNATIONAL BRIDGE, TUNNEL AND TURNPIKE ASSOCIATION

Neil D. Schuster, Executive Director

2120 L Street, NW
Washington, DC 20037
(202) 659-4620

Founded: 1932

Type of Organization	Trade Association Works through other organizations to develop standards
Representation	National Committee on Uniform Traffic Control Devices National Fire Protection Association
Scope	A nonprofit association serving the needs of toll and tax supported bridges, tunnels, and highways. Concerned with the improvement of highway transportation in general. Members operate over 340 toll facilities with a combined value of approximately \$50 billion.
Standardization Activities	Works closely with the government and allied agencies and associations, such as the National Committee on Uniform Traffic Control Devices and the National Fire Protection Agency, to promote safety and improvement in highway transportation.
Keywords	construction; transportation; tunnels; bridges; highways;

INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS

J.J. Barry, International President

1125 15th Street, NW
Washington, DC 20005
(202) 833-7000

Founded: 1981

Standards Staff: 6

Type of Organization	International Labor Union Works through other organizations to develop standards
Representation	Sixty members active in standards development on committees of NFPA, ANSI, IEEE, ASTM, and other organizations.
Scope	Represents one million workers in all branches of the electrical industry.
Standardization Activities	Members are active on all code panels of NFPA 70, The National Electrical Code, and in other organizations

that develop standards for electricity work.

Although not a standard making body, the IBEW cooperates and participates in the work of standard making bodies which might impact membership.

Keywords union; electrical equipment; electric power;

INTERNATIONAL CARGO GEAR BUREAU

Charles G. Visconti, President

17 Battery Place
New York, New York 10004
(212) 425-2750

Founded: 1966

Type of Organization Trade Association
Works through other organizations to develop standards

Scope A nonprofit membership corporation of makers and users of cargo handling equipment. Provides recognized registration, inspection, certification, documentation, design evaluation, and consultation services throughout the world for materials handling equipment ashore and afloat including shipboard cargo gear, cranes, derricks, cargo containers, road vehicles, and related devices.

Standardization Activities Monitors and participates in standards development activities of international organizations including the International Maritime Organization (IMO) and ISO, ship classification societies, and national standards bodies.

Keywords cargo handling; industrial equipment; transportation;

INTERNATIONAL CITY MANAGEMENT ASSOCIATION

William H. Hansell, Jr., Executive Director

1120 G Street, NW
Washington, DC 20005
(202) 626-4600

Founded: 1914

Type of Organization Professional Association
Standards Developer

Scope	City managers, county managers, municipal administrators, assistants and directors of councils of governments. Provides state-of-the-practice information to local governments through sale of books, reports, and subscription services. Sponsors training.
Standardization Activities	Regularly publishes information on effectiveness and efficiency measures as part of its work in increasing the proficiency of municipal administrators and strengthening the quality of urban government through professional management.
Formerly	International City Managers Association (1969)
Keywords	municipal management; city management; facilities management; government officials;

INTERNATIONAL COALITION FOR PROCUREMENT STANDARDS

Laurel Davis O'Brien, ICPS Coordinator

c/o ASTM
 1916 Race Street
 Philadelphia, Pennsylvania 19103-1187
 (215) 299-5400 FAX: (215) 977-9679

Founded: 1979

Type of Organization	Professional Society Works through other organizations to develop standards
Scope	Brings representatives of national and international purchasing associations and individuals with an interest in purchasing standards together in an effort to communicate, cooperate, and coordinate activities of recognized standards organizations to develop voluntary consensus standards. Promotes and encourages the professional development of its members.
Standardization Activities	Encourages participation by its members in the activities of all consensus standards organizations; initiates, through interaction with these consensus standards organizations, the formulation of specifications, standards, and test methods where none currently exist; aids in the revision and updating of existing specifications, standards, and test methods; and cooperates with other members of the Coalition to avoid duplication of effort.
Keywords	purchasing; procurement;

INTERNATIONAL COMMUNICATIONS INDUSTRIES ASSOCIATION

Kenton Pattie, Executive Vice President

3150 Spring Street
Fairfax, Virginia 22031
(703) 273-7200

Founded: 1939

Type of Organization	Trade Association Works through other organizations to develop standards
Representation	American National Standards Committee PH7
Scope	Commercial trade association for manufacturers, producers, and dealers of audio and visual communications products in the area of projection, as well as video and computers. Membership includes 800 domestic companies and more than 100 international members.
Standardization Activities	Seventy-five members active on working committees, subcommittees and task forces of Committee PH7 on Instructional Audio-Visual Systems Standards. Standards developed through PH7, issued through ANSI.
Formerly	National Association of Visual Education Dealers (1939-1947) National Audio-Visual Association (1947-1983)
Keywords	audio-visual; visual; communications;

INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS

G. David Tayco, Director Administrative Services

5360 South Workman Mill Road
Whittier, California 90601
(213) 699-0541

Founded: 1922

Type of Organization	Professional Association Standards Developer
Standards Development	Developer of 14 codes for all aspects of building construction Invokes nearly 1,000 standards of ASTM, UL, NFPA, ANSI and others
Standards Designation	Uniform Building Codes

Government Adoption	Jurisdictions which enforce the Uniform Building Code and its related documents are located in various states having a combined population of over 89 million, from Michigan and Indiana in the east to the western states including Alaska and Hawaii.
Certification	Provides a voluntary certification program. Code enforcement categories of certification include building inspector, electrical inspector, plumbing inspector, mechanical inspector, combination inspector, rehabilitation/conservation inspector, fire inspector, and plans examiner. Special certification includes reinforced concrete inspection, prestressed concrete inspection, structural masonry inspection, and structural steel/welding inspection.
Secretariats	National Evaluation Service
Scope	Objective is to furnish a complete set of Uniform Codes for state, county, and city administrative authorities responsible for enforcement of building laws to ensure a high level of safety to life from fire, structural, and exit hazards. Maintains and improves the codes on a continuous basis.
Standardization Activities	Publishes the Uniform Building Code, Uniform Mechanical Code, Uniform Fire Code, and related documents setting forth minimum standards for safe construction in buildings and structures. Also develops standards for acceptance of new products through research activities. Issues recommendations to the member jurisdictions in order that manufacturers may obtain uniform recognition of their new products.
Availability	Sold directly
Formerly	Pacific Coast Building Officials Conference (1922) International Conference of Building Officials (1958)
Keywords	building code; mechanical code; fire code; solar; solid fuel; safety; construction; building; government officials; energy conservation; building conservation;

INTERNATIONAL DISTRICT HEATING AND COOLING ASSOCIATION

Clinton W. Phillips, P.E., Director, Technology and Standards Division

1101 Connecticut Avenue, NW
Suite 700
Washington, DC 20036
(202) 223-4922

FAX: (301) 774-0949

Founded: 1909

Standards Staff: 5

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

40 members serve on standards committees of ASTM, ASHRAE, ANSI, AGA, and others.

Scope

Five hundred members, utilities, municipalities, universities, institutions, manufacturers, consultants, engineers, government officials, and others working in the district heating and cooling/cogenerated heat and power (DHC/CHP) industry. Serves worldwide interests in DHC/CHP, particularly in the United States and Canada. Most commercial DHC/CHP systems, operated by investor owned utilities, are members of IDHCA. Provides a principal forum to exchange information and maintains a liaison with federal agencies and related professional organizations.

**Standardization
Activities**

Currently developing 2 IDHCA/ANSI standards: Liquid Thermal Meter Standard and Steam Thermal Meter Standard.

Proposed IDHCA/ANSI Standard: Insulated Piping for District Heating and Cooling.

Publishes and updates the IDHCA code for Steam Metering. Also publishes the District Heating Handbook, a design guide reference for industry personnel that references applicable standards. Publishes guidelines that reference U.S. standards in Principles of Economical Heating, and the Unwin Chart of losses in steam piping systems. Makes comparisons of European and U.S. components for DHC/CHP systems and components.

Two standards committees and ten technical groups - Production, Distribution, Airports/Hospitals/Military Bases, R&D, Cooling, College/University, Measurement/Controls, Economics, and Development - review and comment on applicable standards.

Availability

Distributed directly

Formerly

International District Heating Association

Keywords

heating; cooling; district heating and cooling;
cogenerated heat and power; energy; energy recovery;
utilities;

INTERNATIONAL ELECTRICAL TESTING ASSOCIATION

Mary Jordan, Executive Director

221 Red Rocks Vista Drive
Post Office Box 697
Morrison, Colorado 80465
(303) 467-0526

Founded: 1972

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Acceptance and Maintenance Testing Specifications for electrical power distribution and utilization equipment.

**Standards
Designation**

NETA ATS-1987 Acceptance Testing Specification
NETA MTS-1989 Maintenance Testing Specification

**Government
Adoption**

Specifications adopted by GSA, the Postal Service, and military departments

Certification

The International Electrical Testing Association is responsible for the certification of independent testing organizations and their technical personnel.

Scope

An international organization representing independent electrical power system testing and maintenance companies in areas of common interest, such as specifications for acceptance and maintenance testing, qualifying of technical personnel, qualifying of companies, NFPA and governmental committees, representation, etc.

**Standardization
Activities**

Develops testing guidelines for electrical power transmission and utilization equipment, including: Automatic Reclosures and Sectionalizers, Capacitors, Circuit Breakers, Direct Current Systems, Disconnects, Emergency Systems, Fiber-Optic Cables, Ground Fault Systems, Instrument Transformers, Instrumentation, Metal Motor Control, Network Protectors, Outdoor Bus Structures, Power Cables, Power Transformers, Protective Relays, Rotating Machinery, Safety Equipment, Thermographic Testing, Short Circuit Studies and Overcurrent Coordination Studies, Surge Arrestors, Switchboard Assemblies, Switches, Systems. The specifications are based on ANSI, NEMA, and other industry consensus standards.

Availability

Distributed directly

Formerly

National Electrical Testing Association

Keywords electricity; certification; safety;

INTERNATIONAL FABRICARE INSTITUTE

Charles Riggott, General Manager

12251 Tech Road
Silver Spring, Maryland 20904
(301) 622-1900

Founded: 1972

Standards Staff: 10

Type of Organization Trade Association
Works through other organizations to develop standards

Representation Represented on ASTM Textiles Committee, NFPA
Drycleaning Committee, AATCC Drycleaning Committee, and
ASTM Solvents Committee.

Certification Certifies as drycleanable and/or launderable, fabrics,
garments, draperies, etc., when they pass tests
designated by ASTM, NFPA, and/or AATCC. Certifies new
or used solvents as meeting ASTM specifications.

Scope An international association of 13,000 drycleaners
and/or launderers.

Standardization Activities Interested in, and active on, standards committees
involved in quality control and safety as affects
members and their customers.

Formerly American Institute of Laundering (1883)
National Institute of Drycleaning (1907)

Keywords drycleaning; laundering; textiles; consumer products;

INTERNATIONAL FENCE INDUSTRY ASSOCIATION

Frederick G. Dempsey, Jr., CAE, Executive Vice
President

5300 Memorial Drive
Suite 116
Stone Mountain, Georgia 30083

Founded: 1962

Type of Organization Trade Association
Works through other organizations to develop standards

Representation ASTM Committee F14

Scope	Serves the entire fence industry in North America and 22 foreign countries. Membership includes installer contractors, wholesalers, manufacturers, and related fence industry business.
Standardization Activities	Members work with ASTM and Chain Link Fence Manufacturers Institute (CLFMI) to develop standards and specifications for fence products.
Keywords	fence; construction;

INTERNATIONAL INSTITUTE OF AMMONIA REFRIGERATION

James E. Elsener, Executive Secretary

c/o Smith, Bucklin and Associates
111 East Wacker Drive
Suite 600
Chicago, Illinois 60601
(312) 644-6610 FAX: (312) 565-4658

Founded: 1971

Type of Organization	Trade Association Standards Developer
Standards Development	Standard Developer since 1976 One active standard, ANSI approved Available for review by members and non-members
Standards Designation	ANSI/IIAR 74-2-1984
Government Adoption	City of Columbus, Ohio has adopted IIAR 74-2 as part of the City Building Code.
Certification	No certification, qualification, or accreditation programs
Secretariats	IIAR is the ANSI designated secretariat for ANSI/IIAR 74-2-1984.
Scope	A not-for-profit organization formed to promote education, information and standards for proper and safe use of ammonia as a refrigerant. Introduces and encourages constructive educational efforts in the fields of design, safety, installation, operation, maintenance, application, and other subjects to furnish a better understanding of the use of ammonia as a refrigerant.

Standardization Activities	Developed and maintains ANSI/IIAR 74-2-1984, American National Standard for Equipment Design and Installation of Ammonia Mechanical Refrigeration Systems.
Availability	Distributed directly or through ANSI
Keywords	ammonia; refrigeration; CFC alternative; cooling;

INTERNATIONAL MASONRY INSTITUTE

	Ray Lackey, Executive Vice President
	823 15th Street, NW Washington, DC 20005 (202) 783-3908
	Founded: 1970
Type of Organization	Trade Association Works through other organizations to develop standards
Representation	Participates in the standards activities of ASTM, ACI, ASCE, NFPA, and others.
Scope	Formed through a joint trust agreement between the Mason Contractors Association of America and the International Union of Bricklayers and Allied Craftsmen. Activities include promotion and national advertising for masonry construction, training of craftsmen, and development of areas related to masonry materials, design and construction.
Standardization Activities	Participates on committees involved in the development of standards associated with masonry and masonry construction including ASTM, ACI, ASCE, NFPA, and ANSI. Monitors and recommends changes To the national model codes: BOCA, ICBO, and SSBC.
Keywords	masonry; construction;

INTERNATIONAL MOBILE AIR CONDITIONING ASSOCIATION

	Frank Allison, Executive Director
	2100 North Highway 360 Suite 1300 Grand Prairie, Texas 75050 (214) 988-6081
	Founded: 1958

Type of Organization	Trade Association Standards Developer
Standards Development	25 active standards None processed through ANSI
Standards Designations	IMACA prefix
Government Adoption	IMACA Standard 200 is in use by General Services Administration.
Scope	Serves system manufacturers, parts and service suppliers, distributors, and dealers in mobile air conditioning applications including auto, heavy truck, recreational vehicle, farm and off-highway vehicle, and bus. Programs include sales promotion, engineering standards, monthly magazine, technical papers, and legislative activities.
Standardization Activities	The Engineering Committee administers the standards program, currently consisting of 25 standards in print under the IMACA name. All standards are national in scope. The use of standards is voluntary and promoted through the national trade press and the IMACA monthly magazine.
Availability	Distributed directly
Formerly	Automotive Air Conditioning Association (1970)
Keywords	air-conditioning; mobile air-conditioning; transportation; automotive;

INTERNATIONAL MUNICIPAL SIGNAL ASSOCIATION

Linda Rogers, Technical Training Coordinator

1115 North Main Street
Post Office Box 539
Newark, New York 14513
(315) 331-2182

FAX: (315) 331-8205

Founded: 1896

Type of Organization	Technical Society Standards Developer
Standards Development	42 active standards None processed through ANSI
Standards Designations	IMSA prefix

**Government
Adoption**

IMSA Wire and Cable Specifications have been recognized by the Department of Transportation and the Bureau of Public Roads.

Certification

Offers certification in the Public Safety Fields of Traffic Signal Technician, Fire Alarm Technician, Signs and Markings Specialists, and Radio and Dispatcher certification.

Scope

A nonprofit, technical and educational association. Membership consists of 3,800 members in the United States, Canada, Mexico, and the free countries of the world actively engaged in the engineering, construction, maintenance and operation of electrical, electronic and graphic communication systems used in public safety services, such as fire and police alarms, traffic control, radio communications, street lighting, signs and markings and related systems. Develops standards and manuals for use by the members and industry. Collects and disseminates educational material. Encourages unification in public safety fields for the purpose of improving the efficiency of public safety services.

**Standardization
Activities**

Develops standards for various types of signal and communications wire and cable which must meet the requirements of ASTM and Underwriters Laboratories. Maintains a Cable Committee which updates and revises standards. Participates on Technical Committees of the National Committee on Uniform Traffic Control Devices, the Institute of Transportation Engineers Technical Council Committee, and the National Fire Protection Association. The Federal Communications Commission for Fire and EMS Radio Service recognizes IMSA as the Fire Frequency Coordination Body.

Availability

Distributed directly

Keywords

electrical equipment; wire; cable; safety; communications;

INTERNATIONAL PIPE ASSOCIATION

Sue Lackner, Director of Membership

5411 East State Street
Rockford, Illinois 61108
(815) 399-8700

FAX: (815) 399-7279

Founded: 1983

Type of Organization	Educational Association Standards Developer
Scope	An international education association established to disseminate current and evolving technical information, to improve piping processes and to advance the quality and cost-effectiveness of piping technologies in industry.
Standardization Activities	Voluntary standards on pipe bending are developed by Association Committees.
Availability	Distributed directly
Keywords	pipe bending; pipe fabrication; pipe joining methods;

INTERNATIONAL SLEEP PRODUCTS ASSOCIATION

Russell L. Abolt, Executive Vice President

333 Commerce Street
Alexandria, Virginia 22314
(703) 683-8371

Founded: 1915

Type of Organization	Trade Association Works through other organizations to develop standards
Scope	Represents manufacturers of mattresses, bedsprings, and dual purpose sleep equipment as well as suppliers of machinery, raw and finished materials, components and other supplies, and services necessary to the manufacture of sleep products.
Standardization Activities	Since 1922, instrumental in the development of voluntary "size standards" for bedding products and components. These have included the NIST Simplified Practice Recommendation, R-2 series, issued as ANSI Standards, Z357.1-1981, superceded in 1989 by ISPA voluntary product dimensional guideline. Also co-sponsored Bar Code Marking Standard for the Furnishings Industry.
Formerly	National Association of Bedding Manufacturers
Keywords	bedding; mattresses; consumer products;

INTERNATIONAL SOCIETY OF ARBORICULTURE

William P. Kruidenier, Executive Director

303 West University
P.O. Box 908
Urbana, Illinois 61801
(217) 328-2032

Founded: 1924

**Type of
Organization**

Professional Society
Standards Developer

**Standards
Development**

1 active standard
Processed through ANSI

Secretariats

ANSI Committee Z133.1, Safety in Tree Care Operations

Scope

Individuals engaged in commercial arboriculture; city, state, national government employees, and others interested in shade tree welfare. Conducts research programs.

**Standardization
Activities**

Fosters the use of a standard which provides safety criteria for workers and the public. This standard presents safety requirements for pruning, trimming, repairing, maintaining, and removing trees and for cutting brush and for the equipment used in such operations.

Availability

Distributed through ANSI

Formerly

International Shade Tree Conference

Keywords

arboriculture; horticulture; tree care; safety;

INTERNATIONAL STAPLE, NAIL AND TOOL ASSOCIATION

Bernie J. Mezger, President

435 North Michigan Avenue
Chicago, Illinois 60611
(312) 644-0828

Founded: 1966

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

1 active standard
ANSI approved

**Standards
Designations**

ISANTA SNT prefix

Scope

An organization financed and directed by manufacturers of collated fasteners and power tools for driving them. Membership represents eighty percent of the pneumatic power tools and related fasteners produced in the world. Promotes and furthers the utilization of machine-applied staples, nails and similar fasteners and their power tools.

**Standardization
Activities**

Maintains a Technology Committee which is responsible for the development of standards in performance, safety, code approvals, and technical coordination with government agencies, code bodies, volunteer standards organizations, and other related associations.

Develops standards on tool design and operation and guidelines on performance testing of fastened connections. Representatives participate in standards development of other organizations involving driven fasteners.

Cooperates with federal, state, and local governments in the application of standards and with voluntary public organizations and code bodies in establishing acceptable fastening criteria and product application.

Availability

Sold directly

Formerly

Industrial Stapling and Nailing Technical Association (1975)
Industrial Stapling Manufacturers Institute (1972)

Keywords

fasteners; nails; staples; tools; power fastening; pneumatic fastening; industrial equipment; manufacturing;

INTERNATIONAL TAPE/DISC ASSOCIATION

Henry Brief, Executive Vice President

505 Eighth Avenue
Floor 12A
New York, New York 10018
(212) 643-0620

FAX: (212) 643-0624

Founded: 1970

**Type of
Organization**

Trade Association
Standards Developer

Standards Development	Standards developer since 1978 Five current standards None processed through ANSI
Standards Designations	ITA-A prefix
Scope	An international trade association that represents companies of many nations in the consumer and industrial electronics sector, specifically tape and disc, both audio and video, as well as home entertainment firms related to tape/disc/audio/video.
Standardization Activities	The Audio Technical Committee is responsible for an ongoing standardization program in all aspects of audio and video tapes and discs. Five standards are currently active. These include standards for audio cassettes, 8 track cartridges, splicing tape and duplication guidelines for 8 track and 4 track cartridges, and Minimum Standards of Audio Tape Products. Committee members also participate on IEC, ISO, EIA, AES, SMPTE, and ANSI Committees.
Availability	By written request to the address above
Formerly	International Tape Association
Keywords	tape; cassette; audio; video; disc; communications; acoustics;

INVESTMENT CASTING INSTITUTE

	R. Russell Stratton, Executive Director 8350 North Central Expressway Suite M-1110 Dallas, Texas 75206-1602 (214) 368-8896 Founded: 1950
Type of Organization	Trade Association Works through other organizations to develop standards
Representation	ASTM, SAE
Scope	Provides an organization through which programs can be initiated to accelerate the growth of technology, as well as the market for investment castings. Membership consists of 165 foundries and 85 suppliers.
Standardization Activities	Cooperates with the British Investment Casters Technical Association, as well as the Aerospace

Material Specifications Division of the Society of Automotive Engineers, and the American Society for Testing and Materials. Publishes the Investment Casting Handbook.

Keywords investment castings; materials;

IRRIGATION ASSOCIATION

R.C. Sears, Executive Vice President

1911 North Fort Myer Drive, Suite 1009
Arlington, Virginia 22209
(301) 524-1200

Founded: 1949

Standards Staff: 1

Type of Organization Trade Association
Standards Developer

Standards Development 1,200 members active in standards development

Certification Programs for Irrigation Designers, Contractors and Water Managers

Scope Represents manufacturers, distributors, contractors, and technical personnel involved with agricultural and landscape irrigation systems.

Standardization Activities Engages in standards activities for comparing components through testing. Provides standard developers with the criteria for comparing products. Cooperates with the International Organization for Standardization to insure that international irrigation standards fairly represent products manufactured in the United States. Maintains representation on committees of ANSI, ASAE, and ASME.

Availability Distributed directly

Keywords irrigation; water conservation; sprinklers; agriculture;

JEWELERS VIGILANCE COMMITTEE

Joel A. Windman
Executive Vice President and General Counsel

1185 Avenue of the Americas
New York, New York 10036
(212) 869-9505

Founded: 1912

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Standards developer since 1913

**Government
Adoption**

Adopted by the Department of Commerce and the Federal Trade Commission.

Scope

National organization supported by the jewelry industry, specializes in marking, labeling, terminology, and trade problems.

**Standardization
Activities**

Works with government to assist industry and consumers. Develops voluntary product standards in the areas of precious metals, precious stones, and watches. Standardization work contributed to Federal Trade Commission's development of Guides for the Jewelry Industry. Conducted and revised a standardization study on the National Gold and Silver Stamping Act.

Availability

Distributed directly and through the Federal Trade Commission

Formerly

American Jewelers Protective Association (1943)

Keywords

jewelry; precious metals; precious stones; materials; consumer products;

JOINT NEUROSURGICAL COMMITTEE ON DEVICES/DRUGS

Dr. M. Salcman, Dr. R. Crowell, Cochairmen

c/o American Association of Neurological Surgeons
22 South Washington Street
Suite 100
Park Ridge, Illinois 60068
(312) 692-9500

Founded: 1974

**Type of
Organization**

Professional Society
Works through other organizations to develop standards

Representation

ASTM, AAMI, ANSI, FDA Advisory Panel, World Federation of Neurosurgical Societies

Scope

An educational and advisory group sponsored by the American Association of Neurological Surgeons and the Congress of Neurological Surgeons to assist in the

writing of neurological standards by participating in the activities of standards developing organizations. Also active as an advisory group for such organizations as the American Medical Association, the American College of Surgeons, the FDA, and the U.S. Congress.

**Standardization
Activities**

Coordinates participation in committees developing standards for materials, devices, and practices used by neurosurgeons. Current activities center on ASTM F4.05, Subcommittee on Neurosurgery, and Committees of the Association for the Advancement of Medical Instrumentation (AAMI). Standards of interest include: tissue adhesives, aneurysm clips, carotid clamps, cranial tongs, stereotactic devices, surgical microscopes, RF generators, transcutaneous electrical nerve stimulators, intracranial pressure-monitoring devices, and computed tomography practices. Monitors activities of ISO/TC 150/SC 3 and IEC/TC 62 through ASTM and AAMI.

Formerly

Merger of committees on Materials and Devices of the American Association of Neurological Surgeons and the Congress of Neurological Surgeons (1974)

Keywords

medical devices; neurosurgery; materials;
instrumentation; medical care;

JUVENILE PRODUCTS MANUFACTURERS ASSOCIATION

William L. MacMillan, Executive Director

66 East Main Street
Moorestown, New Jersey 08057
(609) 234-9155

Founded: 1962

Standards Staff: 3

**Type of
Organization**

Trade Association
Works through other organizations to develop standards

Representation

American Society for Testing and Materials

Certification

Sponsors a certification program for play yards, high chairs, walkers, expandable gates and enclosures, carriages and strollers which provides a certification seal and directory listing for all products in compliance with ASTM Safety Specifications.

Scope

Association of manufacturers of juvenile furniture and accessories.

**Standardization
Activities**

Advocates the use of ASTM Standards for performance / requirements for play yards, high chairs, walkers,

expandable gates and enclosures, carriages and strollers, full-sized baby cribs and crib cornerpost extensions.

Keywords juvenile furniture; consumer products;

LABORERS INTERNATIONAL UNION OF NORTH AMERICA

Angelo Fosco, General President

905 16th Street, NW
Washington, DC 20006
(202) 737-8320

FAX: (202) 737-2754

Founded: 1903

Type of Organization Labor Union
Works through other organizations to develop standards

Certification Training facilities are set up throughout North America to gain a high competency level for members who are in the construction industry.

Standardization Activities Active in all model codes with continuous voting representation on the ASME A.40 Committee. Has a specific interest in standards development because of the health and safety of labor workers, as well as the public.

Formerly Prior to 1965 International Hod Carriers, Building and Common Laborers' Union of America

Keywords union; utilities; pipe installation; construction; safety;

LASER INSTITUTE OF AMERICA

Peter Baker, Executive Director

12424 Research Parkway
Suite 130
Orlando, Florida 32826
(407) 380-1553

FAX: (407) 380-5588

Founded: 1968

Standards Staff: 1

Type of Organization Professional Society
Standards Developer

Representation ANSI

Secretariats ANSI Z136 Committee on Laser Safety

Scope	A nonprofit membership organization devoted entirely to the educational advancement and promotion of the technology and applications of lasers. Conducts continuing education courses, seminars and technical symposia nationwide, and offers a variety of educational materials and publications.
Standardization Activities	Develops Standards on the Safe Use of Lasers. Provides guidance in hazard education and control measures to industry and health care facilities, and all personnel involved with lasers in manufacturing, communication, and medical applications. Details laser safety and training programs as well as medical surveillance. Provides protocols for the various conditions of eye and skin exposure and methods for determining the information required for hazard evaluation and control. These consensus standards have been adopted by the national and international federal and state regulatory bodies, including the military, as basic documents or inputs to IEC and WHO Standards dealing with Laser Safety.
Keywords	laser; safety; medical;

LEAD INDUSTRIES ASSOCIATION

Jerome F. Smith, Executive Director

292 Madison Avenue
 New York, New York 10017
 (212) 578-4750 FAX: (212) 684-7714

Founded: 1928

Type of Organization	Trade Association Works through other organizations to develop standards
Representation	75 members active in standardization activities Represented on committees of ASTM, ANSI, NIST, ISO, ACS, NACE, AWS, and others.
Scope	A nonprofit trade association representing all segments of the lead industry. Serves as the industry's market development arm by promoting increased use of lead and its end-products in a cost-effective and environmentally sound manner.
Standardization Activities	Maximizes the effectiveness of its representatives on national standards committees. Participates in developing standards for noise control, radiation protection, waste disposal, waterproofing, ceramics, solder, plastics, and batteries.

Committees monitor and assist the work of standards developing bodies within their areas of interest by designating committee members for liaison and coordination with appropriate code bodies.

Keywords nuclear; noise control; solder; lead; materials;

LIBRARY BINDING INSTITUTE

Sally Brauer, Executive Director

8013 Centre Park Drive
Austin, Texas 78754
(512) 836-4141

Founded: 1935

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

LBI Standard for Library Binding; first produced in 1971 and eighth edition produced in 1986.

Certification

Certification program for members who are commercial library binders.

Scope

An international trade association of library binders, suppliers to the industry and all others interested in preserving the useful life of written materials. Works at providing members with information and services so that they can better serve their customers.

**Standardization
Activities**

Works with ANSI and Z39 Committees. Also has developed interorganizational Library Binding Institute standard for library binding.

Availability

Sold directly

Keywords

library binding; book binding; communications;

LIGHTNING PROTECTION INSTITUTE

Marvin M. Frydenlund, Managing Director

Post Office Box 1039
Woodstock, Illinois 60098
(815) 943-7211

Founded: 1955

Standards Staff: 1

**Type of
Organization**

Trade Association
Standards Developer

Standards Development	Standards developer since 1982 12 members participating in LPI standards development 4 members participating in NFPA standards development None processed through ANSI
Standards Designations	LPI prefix
Certification	Offers product certification for lightning protection systems, as well as in 5 skill areas including, Master Installer, Journeyman Installer, Systems Designer, Systems Inspector, and Systems Designer/Inspector.
Scope	An association comprised of manufacturers and dealers who supply and install components used in lightning protection systems for buildings and other structures.
Standardization Activities	Develops standards designed to cover all materials and components which might be under stress while a lightning protection system is conducting lightning current. Also covers metals from the standpoint of durability for they are subject to weathering and possible damage from corrosion, physical impact, or reaction with dissimilar metals.
Availability	Distributed directly and through LPI manufacturer members
Formerly	Lightning Rod Manufacturers Association (1955)
Keywords	lightning rods; lightning protection; building safety;

MAGAZINE PUBLISHERS ASSOCIATION

see AMERICAN ASSOCIATION OF ADVERTISING AGENCIES

MAGNETIC MATERIALS PRODUCERS ASSOCIATION

Thomas D. Dolan, Executive Secretary

800 Custer Avenue
Evanston, Illinois 60202
(312) 864-8444

Founded: 1959

Type of Organization	Trade Association Standards Developer
Standards Development	20 members participate in standards development

**Government
Adoption**

Department of Defense has adopted 0100-87

Scope

Primary objective is to promote the progress and development of the magnetic materials industry through standardization programs and other activities as may be necessary.

**Standardization
Activities**

The Standards and Engineering Committee of MMPA administers all standardization programs, which comprises approximately 50 percent of all the programs of MMPA. It has published 0100-87, Standard Specifications for Permanent Magnet Materials; PC 100, Standard Specifications for Ferrite Pot Cores; TC 200, Standard Specifications for Ferrite Threaded Cores; UEI 300, Standard Specifications for Ferrite U, E & I Cores. This committee is also conducting work on standard methods for magnetic testing, magnetization, stabilization, and measurement guidelines.

Availability

Sold directly

Formerly

Permanent Magnet Producers Association

Keywords

magnetic materials; cores; electronic; materials;

MANUFACTURED HOUSING INSTITUTE

Jerry C. Connors, President

1745 Jefferson Davis Highway
Arlington, Virginia 22202
(703) 979-6620

Founded: 1936

Standards Staff: 2

**Type of
Organization**

Trade Association
Works through other organizations to develop standards

Representation

The technical staff and membership participate in development of national standards by a consensus committee for manufactured housing and in cooperation with ASHRAE, NFPA, ASTM, NCSBCS, UL, and others endorsed by ANSI.

Secretariats

Secretariat for a consensus committee which makes annual recommendations to the U.S. Department of Housing and Urban Development (HUD), to update the Federal Manufactured Home Construction and Safety Standards.

Scope	A nonprofit trade association comprised of manufacturers and suppliers engaged in producing and servicing manufactured homes. Serves as a liaison to Congress and federal agencies in order to promote and protect the interest of the manufactured housing industry and its consumers. Provides monthly statistical reports on the industry and marketing strategies. Maintains a public relations program and sponsors annual expositions and forums.
Standardization Activities	The standards program is designed to assist members in making the manufactured home a safe, comfortable residence for the owner to live amid attractive surroundings. Advises the U.S. Department of Housing and Urban Development in their maintenance/proponency of the Federal Manufactured Home Construction and Safety Standards and Procedural and Enforcement Regulations (24 CFR 3280, 3282, 3283). These federal standards regulate the design and construction of the homes that are constructed by MHI members.
Formerly	Mobile Home Manufacturers Association (1936)
Keywords	manufactured homes; factory built homes; building;

MANUFACTURERS STANDARDIZATION SOCIETY OF THE VALVE AND FITTINGS INDUSTRY

Olen Thornton, Executive Director

127 Park Street, NE
Vienna, Virginia 22180
(703) 281-6613

Founded: 1924

Type of Organization	Trade Association Standards Developer
Standards Development	Standards developer since 1924 70 members 50 current standards or guidelines documents, all data presented bi-dimensionally
Standards Designation	MSS SP prefix
Government Adoption	One third of SP's have been adopted for government agency use, more expected.
Secretariats	U.S. TAG's for ISO/TC 153 and SC 5, 10, and Working Group 14 of SC 1, in ISO/TC 5.

Scope	Addresses the needs for standardization, specification, and documentation related to industrial valves, fittings, flanges, pipe hangers, and valve actuators.
Standardization Activities	Develops and reviews standards. Published documents available. Maintains informal liaisons with ASME, API, AWWA, ASTM, UL and other committees/organizations.
Availability	Hard copy sold directly; Microform available through IHS
Keywords	valves; fluid controls; industrial equipment; fittings; flanges; pipe hangers; actuators;

MANUFACTURING AUTOMATION PROTOCOL (MAP)

see CORPORATION FOR OPEN SYSTEMS INTERNATIONAL

MANUFACTURING JEWELERS AND SILVERSMITHS OF AMERICA

Matthew A. Runci, Executive Director

100 India Street
 Providence, Rhode Island 02903
 (401) 274-3840 (401) 274-0265

Founded: 1903

Type of Organization	Trade Association Standards Developer
Standards Development	Standards developer since 1933
Standards Designations	FTC rules for the jewelry industry
Government Adoption	Current rules adopted 1957, amended 1959
Secretariats	Jewelers Vigilance Committee
Scope	A national education and information organization for jewelry and silver product manufacturers.
Standardization Activities	Engaged in marking, stamping, nomenclature, precious metals, semiprecious metals, stones, pearls, country origin marks, and related practices. Industry committees agree on proper standards in keeping with the U.S. National Stamping Act. These proposals are submitted to FTC for inclusion into "rules for the jewelry industry." Rules are generally enforced by

FTC, periodic checks of merchandise are made by MJSA and JVC to assure that the standards are being properly followed.

Availability Distributed through the Federal Trade Commission

Keywords jewelry; precious metals; precious stones; gold; silver; materials; consumer products;

MAPLE FLOORING MANUFACTURERS ASSOCIATION

John R. Waxman, Vice President

60 Revere Drive
Northbrook, Illinois 60062
(708) 480-9138 Telex: 910-221-5870

Founded: 1897 Standards Staff: 1

Type of Organization Trade Association
Standards Developer

Standards Development 60 members active in standards activities

Certification Certified products receive the association's written approval. Publishes a list of tested and accepted finishes periodically.

Scope Manufacturers of Northern Maple hardwood flooring. Establishes uniform grades and standards of products. Publishes pamphlets on installation and finishing of hardwood flooring.

Standardization Activities Establishes and enforces uniform grades and standards of products; improves methods of manufacture; and makes the association trademark a symbol of excellence in methods and materials. Establishes grading rules for hard maple, beech and birch flooring signify that the flooring is standardized and guaranteed by the association to be in accordance with the current established grading rules. Adopted specifications for heavy duty and for gymnasium type floor finish products. Revises specifications every three years for the purpose of improving performance characteristics of the heavy duty and gymnasium floor finishes.

Availability Distributed directly

Keywords wood; grading rules; inspection; lumber; flooring; building;

MARBLE INSTITUTE OF AMERICA

Robert Hund, Managing Director

33505 State Street
Farmington, Michigan 48024
(313) 476-5558

Founded: 1907

**Type of
Organization**

Trade Association
Works through other organizations to develop standards

Representation

ASTM C18 Dimension Stone Committee
ANSI A108.1 Installation of Ceramic and Marble Tile;
Installation Materials
ASTM E06 Performance of Building Construction

Scope

Objective is to encourage increased usage of dimension stone in North America. Membership composed of producers, fabricators, importers, exporters, sales agents, distributors, finishers, installing contractors, and those who sell products and services to the industry.

**Standardization
Activities**

Helps establish standards for dimension stone through ANSI and ASTM committees. Promotes quality of workmanship; publishes design manual and quarterly magazine: "Stone Through the Ages."

Formerly

Merger of National Association of Marble Dealers and National Association of Marble Producers (1944)

Keywords

marble; granite; limestone; sandstone; slate;
bluestone; quartzite; dimension stone; building;
furniture; materials;

MARKING DEVICE ASSOCIATION

David G. Lister, Managing Executive

435 North Michigan Avenue
Suite 1717
Chicago, Illinois 60611
(312) 644-0828

Founded: 1910

**Type of
Organization**

Trade Association
Standards Developer

Scope

Manufacturers of marking devices including rubber and metal stamps, name plates, and seals.

Standardization Activities	Prepares standards for various kinds of metal marking tools and dies. Included are standards for size and depth of marking characters, styles of symbol stamps, stock sizes for various stamp blanks. Other standards in use include those for bores and keyway sizes for roll dies, roller die blanks, and type and type holders for interchangeable steel type.
	Develops standard terminology for all kinds of marking devices, including metal marking tools and dies, rubber stamps, seals, stencils, and marking inks.
Availability	Distributed directly
Keywords	marking devices; stamps; stencils; seals; inks; office products; manufacturing;

MASONRY AND CONCRETE SAW MANUFACTURERS INSTITUTE

Allen P. Wherry, Executive Director

30200 Detroit Road
Cleveland, Ohio 44145
(216) 899-0010

FAX: (216) 892-1404

Founded: 1981

Standards Staff: 3

Type of Organization

Trade Association
Standards Developer

Standards Designations

ANSI B7.5

Scope

Membership consists of manufacturers of conventional abrasive blades, masonry saws, concrete saws, diamond wheels, and others.

Standardization Activities

Develops safety standards for the use of masonry and concrete saws. Works with ANSI and promulgates its documents through the Grinding Wheel Institute's Accredited Standards Committee B7.

Developed the ANSI Safety Code for The Construction Use and Care of Gasoline Powered, Hand Held, Portable, Abrasive, Cutting Off Machines.

Availability

Distributed directly and through ANSI

Keywords

abrasive blades; diamond wheels; masonry saws; concrete; industrial equipment;

MATERIAL HANDLING INSTITUTE

A.L. Leffler, Executive Vice President

8720 Red Oak Boulevard, Suite 201
Charlotte, North Carolina 28217
(704) 522-8644

Founded: 1945

**Type of
Organization**

Trade Association
Works through other organizations to develop standards

Representation

ANSI, ASME

Scope

Represents manufacturers of industrial material handling equipment used in plants, plant-yards, piers, terminals, and warehouses.

**Standardization
Activities**

Product Sections, through Engineering Committees, develop source material for adoption as American National Standards under the canvass procedure of the American National Standards Institute, and furnish source materials to the American Society of Mechanical Engineers Standards Department for promulgation under ANSI procedures.

Comments on military specifications of the Naval Sea Systems Command, Army Mobility Command, Naval Construction Battalion Center and the Naval Engineering Center.

Absorbed

Association of Lift and Portable Elevator Manufacturers

Keywords

material handling; industrial equipment;

MATERIALS AND METHODS STANDARDS ASSOCIATION

Harvey J. Powell, President

Post Office Box 332
Grand Haven, Michigan 49417
(616) 842-7844

Founded: 1962

Standards Staff: 5

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

45 members active in standards development

Scope	Establishes standards of quality and performance of materials and methods for installation and use of ceramic tiles.
Standardization Activities	Member of ANSI A108 and ANSI A137-1 Committees; member of Tile Council of America Handbook for Ceramic Tile Installation Committee; issues bulletins on the installation of ceramic tiles.
Availability	Distributed directly
Formerly	Methods and Materials Standards Association
Keywords	tile; mortar; building; materials; ceramic products;

MECHANICAL CONTRACTORS ASSOCIATION OF AMERICA

James R. Noble, Executive Vice President

1385 Piccard Drive
 Rockville, Maryland 20850
 (301) 869-5800 FAX: (301) 990-9690

Founded: 1889

Type of Organization	Trade Association Works through other organizations to develop standards
Scope	A construction trade association of 1600 firms employing approximately 150,000 persons. Members build systems that move both liquid and gas fluids. This includes fabrication and installation of heating, ventilating, air conditioning, plumbing, and process piping systems in multi-residential, commercial, public, and industrial facilities.
Standardization Activities	Participates in national standards development with American National Standards Institute (ANSI); American Society of Mechanical Engineers (ASME); National Safety Council (NSC); Underwriters Laboratories (UL) for development of consensus standards related to heating, ventilating, air conditioning (HVAC), plumbing, piping, welding, safety, and other construction-related topics.
Keywords	heating; piping; ventilating; air-conditioning; plumbing; welding; safety; construction; building;

MECHANICAL POWER TRANSMISSION ASSOCIATION

Robert A. Reinfried, Executive Director

932 Hungerford Drive, Suite 36
Rockville, Maryland 20850
(301) 738-2448

Founded: 1933

Type of Organization

Trade Association
Standards Developer

Standards Development

Standards developer since 1936
Seventeen member companies participate in standards
activities
Standards processed through ANSI

Standards Designation

MPTA and RMA/MPTA prefixes

Scope

Manufacturers of multiple V-belt drive sheaves for
mechanical power transmission machinery.

Standardization Activities

Concerned with the development of standards and other
programs concerning V-belt drive systems and devices,
variable speed drives, synchronous drives, and other
belt drives. Maintains liaison with the Rubber
Manufacturers Association. V-belt and synchronous
drive standards are developed in liaison with RMA.

Availability

V-belt drive standards are available through RMA.

Formerly

Multiple V-Belt Drive and Mechanical Power Transmission
Association

Keywords

belt drives; machinery; industrial equipment;

METAL BUILDING MANUFACTURERS ASSOCIATION

Charles M. Stockinger, General Manager

1230 Keith Building
Cleveland, Ohio 44115
(216) 241-7333

Telex: 980-393

Founded: 1956

Standards Staff: 3

Type of Organization

Trade Association/Industry Voluntary Standards
Standards Developer

Scope

Promotes the uses of metal buildings; deals with
technical and trade promotional problems pertinent to

the industry; compiles and publishes information of benefit to the industry and others interested in metal buildings; cooperates in the adoption and maintenance of standards for metal buildings.

**Standardization
Activities**

A Technical Committee prepares recommendations concerning such projects as methods used in application of design loads, recommended minimum thicknesses of steel used in manufacturing metal buildings in order to assure proper service, and other general recommendations for use by model code bodies in preparing or revising these codes in order to have properly constructed metal buildings. Works in conjunction with the American Iron and Steel Institute, model code bodies, the American Institute of Steel Construction, and other code committees to assure users that proper installations are made.

Availability

Distributed directly

Keywords

metal buildings; building; structures;

METAL LADDER MANUFACTURERS ASSOCIATION

R. L. Werner, Secretary

P.O. Box 580, Osgood Road
Greenville, Pennsylvania 16125
(412) 588-8600

Founded: 1949

**Type of
Organization**

Trade Association
Standards Developer

Scope

Manufacturers of light metal ladder products. Promotes standardization and simplification of products, sizes, and dimensions to eliminate waste and reduce cost. Conducts safety research.

**Standardization
Activities**

Works on ANSI code committees for ladders, stages, and scaffolds. Promulgates safety standards pertaining to products manufactured by its members. Active on ANSI committees for portable metal ladders; mobile scaffolds, ladder towers and telescopic work platforms; construction code; and temporary scaffolding.

Availability

Sold directly and through ANSI

Keywords

metal ladders; ladders; planks; scaffolds; industrial equipment; consumer products;

METAL POWDER INDUSTRIES FEDERATION

Donald G. White, Executive Director

105 College Road East
Princeton, New Jersey 08540

(609) 452-7700

Telex: 510-685-2516

FAX: (609) 987-8523

Founded: 1945

Standards Staff: 3

Type of Organization

Trade Association
Standards Developer

Standards Development

More than 100 active standards
One processed through ANSI

Scope

Serves technical and trade interests of metal powder producing and consuming industries. Composed of the Metal Powder Producers Association, Powder Metallurgy Parts Association, Powder Metallurgy Equipment Association, Refractory Metals Association, Metal Powder Technology Association and Metal Injection Molding Association.

Standardization Activities

Issues material and test standards in the field of power metallurgy dealing with ferrous and nonferrous materials, including self-lubricating bearings and industry practices. Jointly issues safety standard for metal powder compacting presses with ANSI. Maintains a Standards Board and four standards committees to coordinate its activities. Reviews federal specifications issued by the General Services Administration. Participates on ISO Committee TC/119; ASTM and SAE, Metal Powder, and Metal Powder Products.

Availability

Distributed directly

Formerly

Metal Powder Association (1957)

Keywords

metal powder; powder metallurgy; metallurgy; materials; bearings; compacting presses; metal injection molding;

METAL TREATING INSTITUTE

M. Lance Miller, Executive Director

302 Third Street
Suite One

Neptune Beach, Florida 32233
(904) 249-0448

Founded: 1933

Type of Organization	Trade Association Standards Developer
Standards Development	Standards developer since 1975 None processed through ANSI
Standards Designation	MTI-2000, Quality Assurance Specification for Performance of Heat Treating Processes
Scope	Firms engaged in commercial heating of metals, tools, and other metal products. Conducts regional and national meetings for exchange of information; acts for its members in national affairs affecting the industry.
Standardization Activities	Prepared a set of quality assurance standards which outlines a standard of good process and equipment control and provides customers with specific and meaningful criteria for comparing or evaluating equipment, processes, process controls, and record-keeping systems in the heat treating facility where this standard is employed. Also provides procedures which establish a measure of uniformity among its users so that customer surveys may be made more quickly with better comparability and consistency.
Availability	Sold directly
Keywords	metal treating; heat treating; manufacturing; materials;

MINERAL INSULATION MANUFACTURERS ASSOCIATION

Kenneth D. Mentzer, Executive Vice President

1420 King Street
Suite 410
Alexandria, Virginia 22314
(703) 684-0084

Founded: 1933

Standards Staff: 1

Type of Organization	Trade Association Works through other organizations to develop standards
Representation	Members active in ASTM C16 and E6; ASHRAE TC4.4; Model building code organizations; ISO committees concerned with insulation.
Certification	Initiated, with NAHB Research Foundation, programs for the certification of mineral fiber batts, blankets, and loose wool.

Scope	A nonprofit organization rendering services to promote the welfare and development of mineral wool insulation products designed for installation in buildings utilized for human occupancy.
Standardization Activities	Develops standards and specifications, national in scope, referring to mineral wool insulation products. Cooperates with and advises government agencies at all levels on thermal performance standards that will contribute to the conservation of energy. Also advises and consults with other energy suppliers and professional organizations regarding standards, research, applications, and other related matters.
Formerly	National Association of Rock and Slag Wool Industries (1933) National Rock and Slag Wool Association (1936) National Mineral Wool Association (1938) National Mineral Wool Insulation Association (1960) Mineral Insulation Manufacturers Association, Inc. (1978)
Keywords	mineral wool; mineral fiber; rock wool; fiberglass; insulation; energy conservation; building; materials;

MONORAIL MANUFACTURERS ASSOCIATION

	William C. Capps, Executive Director
	8720 Red Oak Boulevard Charlotte, North Carolina 28217 (704) 522-8644 FAX: (704) 522-7826
	Founded: 1933 Standards Staff: 2
Type of Organization	Trade Association Standards Developer
Standards Development	Standards Developer since 1933 Six member companies participate in standards activities Two active standards; both processed through ANSI
Standards Designation	ANSI MH27.1 and ANSI B30.11
Scope	Manufacturers of overhead, underhung, material handling equipment including monorails, stacker cranes, and underhung traveling cranes.
Standardization Activities	Works with ASME, ANSI, American Welding Society, American Foundrymen's Society, and others to develop

design and safety standards and specifications for underhung cranes and monorail systems.

Availability Sold directly and through ANSI

Keywords monorail; underhung crane; industrial equipment;

MO-SAI INSTITUTE

R. C. Robinson, Secretary/Treasurer

P.O. Box 539
Redmond, Washington 98073-0539
(206) 868-1922

Founded: 1940

Type of Organization Trade Association
Standards Developer

Standards Development Standards developer since 1940
Standards for design, manufacture, and quality assurance in the fields of precast and prestressed architectural concrete and glass fiber concrete

Government Adoption Standards cited by GSA, Army Corps of Engineers, Navy Facilities Command.

Certification Through programs of American Concrete Institute, Prestressed Concrete Institute, ASTM

Scope A nonprofit organization that is organized to standardize, improve, and promote the use of precast architectural concrete. Standardization is administered by the Technical Committee.

Standardization Activities Current standards are contained in one publication, Standard Specifications of Mo-Sai Institute. Standards are national in scope and are promoted through market development activities of member companies.

Availability Distributed directly

Keywords concrete; precast concrete; prestressed concrete; building; construction;

MOTOR VEHICLE MANUFACTURERS ASSOCIATION OF THE UNITED STATES

Dr. Fred W. Bowditch, Vice President,
Technical Services

7430 Second Avenue
Suite 300
Detroit, Michigan 48202
(313) 872-4311

Founded: 1913

Type of Organization

Trade Association
Works through other organizations to develop standards

Scope

Manufacturers of passenger and commercial cars, trucks, and buses. Conducts research projects; collects historical facts and figures; compiles statistics; monitors, evaluates and responds to federal and state legislation and regulatory activity dealing with motor vehicles and their use; and coordinates actions on occupational safety and health.

Standardization Activities

The Association is a member of ANSI and participates in standards development related to motor vehicles, workplace health and safety, motor vehicle systems and traffic accident reporting. The Association participates in the Organization Internationale des Constructeurs d'Automobiles on vehicle regulations.

Formerly

Automobile Manufacturers Association, Inc. (1972)
National Automobile Chamber of Commerce

Keywords

automobiles; automotive; trucks; buses; cars; transportation; workplace; accident reporting;

MTM ASSOCIATION FOR STANDARDS AND RESEARCH

James P. O'Brien, Director

16-01 Broadway
Fair Lawn, New Jersey 07410
(201) 791-7720

Founded: 1951

Type of Organization

Technical Society
Standards Developer

Scope

A nonprofit organization primarily engaged in research and training in the field of methods-time-measurement (MTM). Maintains the following committees: Membership; Conference; Public Relations; Technical Services;

Administration and Policy Planning; Research; Member Services; and Finance.

**Standardization
Activities**

Establishes standards for a methodology for deriving a time to perform a given manual task including standardization data for clerical operations, work under the microscope, and work in maintenance areas. Also developed and provides specialized productivity management services such as RX:MedTrol, a system to provide quality healthcare in a cost-effective manner.

Maintains an Association for Standards and Research composed of academicians, individual members and corporate memberships that include various branches of the Government, insurance companies, manufacturing facilities, banks, educational institutions, consultant companies, the Association for the Blind, etc.

Availability

Distributed directly

Keywords

measurement; time management; manufacturing;

MUMPS DEVELOPMENT COMMITTEE

Thomas Salander, Chairman of MUMPS Development Committee

4321 Hartwick Road, Suite 100
College Park, Maryland 20740

(301) 779-6555

**Type of
Organization**

Technical Society
Standards Developer

Representation

ANSI X11.1

Scope

A nonprofit corporation devoted to the advocacy of the MUMPS computer language and facilitation of MUMPS technology as a component of the information processing community. MDC operates as an open membership body using the strictly voluntary efforts of its members. MDC meets three times a year and has approximately 80 member organizations.

**Standardization
Activities**

MDC is officially recognized by ANSI as responsible for developing standards for the MUMPS Computer language. The MDC is engaged in perfecting the MUMPS language specification and determines the technical specifications for binding MUMPS to the surrounding body of standards that must be related to MUMPS. This committee has published three revisions of ANSI X11.1 - in 1977, 1984, and 1990.

Keywords

MUMPS; computers; computer language;

NMTBA - THE ASSOCIATION FOR MANUFACTURING TECHNOLOGY

Anthony M. Bratkovich, Engineering Director

7901 Westpark Drive
McLean, Virginia 22102
(703) 893-2900

FAX: (703) 893-1151
Telex: 710-831-0031

Founded: 1902

Standards Staff: 4

**Type of
Organization**

Trade Association
Works through other organizations to develop standards

Representation

Working through member companies and staff representation on ASME, NFPA, IEEE, EIA, ASTM, AGMA, and others, most of which are ANSI accredited writing organizations.

Scope

Comprised of companies producing over 90 percent of U.S. total machine tool output. Objectives are to be the industry spokesman before the public and the Government; to provide technical, economic, educational, and informational service to its members; and to promote higher technical and safety standards in industry.

**Standardization
Activities**

Promotes and supports industry representation in promulgating standards by sponsoring various machine tool oriented standard writing committees. Cooperates with standardization committees of other trade associations and supports industry representation on committees of the International Organization for Standardization and the International Electrotechnical Commission.

Formerly

National Machine Tool Builders Association (1989)

Keywords

machine tools; manufacturing technology; metal cutting; metal forming; machinery;

**NATIONAL ACCREDITATION COUNCIL FOR AGENCIES SERVING THE BLIND
AND VISUALLY HANDICAPPED**

Dr. James D. McComas, President

79 Madison Avenue
Room 1406
New York, New York 10016
(212) 683-8581

Founded: 1967

**Type of
Organization**

Technical Society
Standards Developer

Scope

Develops standards and administers a voluntary system of accreditation for local, state, and national agencies providing direct services to blind and visually handicapped persons.

**Standardization
Activities**

Develops and updates standards for the management and services for agencies and schools for the blind and visually handicapped and administers a voluntary system of accreditation. Twenty-five sets of standards cover all areas of administration and service delivery for schools, workshops, rehabilitation centers, and other organizations serving blind and visually handicapped persons.

Standards are used as guidelines for reviewing degree of compliance by schools and agencies. Accreditation is awarded relative to compliance with Council standards, which are revised periodically. Public recognition of accreditation is made by the Commission on Accreditation. Accreditation may be granted for maximum of five years or for less than the maximum period. The Commission may grant accreditation, deny it, or postpone a decision.

Availability

Sold directly

Keywords

blindness; rehabilitation; low vision; social welfare;

NATIONAL ARBORIST ASSOCIATION

Robert Felix, Executive Vice President

Route 101, Box 1094
Amherst, New Hampshire 03031-1094
(603) 673-3311 FAX: (603) 672-2613

**Type of
Organization**

Trade Association
Standards Developer

Scope

A trade association of more than 1,000 commercial tree service firms. A strong supporter of the voluntary standards system.

**Standardization
Activities**

Instrumental in the development of ANSI Z133.1, American National Standard for Tree Care Operations - Pruning, Trimming, Repairing, Maintaining, and Removing Trees, and Cutting Brush - Safety Requirements, and all five of its revisions.

Keywords

trees; safety;

NATIONAL ASSOCIATION OF ARCHITECTURAL METAL MANUFACTURERS

A. L. Sisco, Executive Vice President

600 South Federal Street
Suite 400
Chicago, Illinois 60605
(312) 922-6222

Founded: 1937

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Eleven standards
Two processed through ANSI

**Standards
Designations**

NAAMM Standard, NAAMM Recommended Voluntary Standard,
ANSI/NAAMM prefix

Scope

A nationwide association of fabricators of architectural, commercial, residential, ornamental, miscellaneous, and hollow metal products. Promotes mutual interests and cooperation among members of industry; promotes educational and informational activities; compiles and disseminates statistics; furnishes technical information to architects and engineers; maintains and improves technical standards of the industry; conducts studies and surveys to increase the use of the markets for industry products; promotes and assists in the development of new products.

**Standardization
Activities**

Five divisions active in standards activities including Architectural Metal Products Division, Flagpole Division, Hollow Metal Manufacturers Association Division, Metal Bar Grating Division, and Metal Lath/Steel Framing Association Division. Voluntary standards and specifications developed for metal stairs, metal stair railings, pipe railings, flagpoles, hollow metal doors and frames, metal bar grating, metal lath and plaster assemblies and lightgage steel framing which are widely accepted by architects, engineers, specification writers, code groups, and government agencies.

Publishes the Metal Stair Manual, Metal Finishes Manual, Pipe Railing Manual, Metal Flagpole Manual, Guide Specification for Design Loads of Metal Flagpoles, Hollow Metal Manual, Metal Bar Grating Manual, Heavy Duty Metal Bar Grating Manual, Welding

Standard for Fabrication of Metal Bar Grating, Specifications for Metal Lathing & Furring and Lightweight Steel Framing Systems Manual. Also revises and updates standards on a regular basis. Also provides representation to ASTM committees where appropriate to the development of performance and testing standards.

Availability Distributed directly

Formerly National Association of Ornamental Metal Manufacturers. Absorbed the National Steel Door and Frame Association (1962)

Keywords architectural metals; stairs; railings; bar-gratings; flagpoles; doors; door frames; building; light gauge steel framing; metal lath;

NATIONAL ASSOCIATION OF BROADCASTERS

Michael Rau, Vice President - Science & Technology

1771 N Street, NW
Washington, DC 20036
(202) 429-5346

Founded: 1922

Type of Organization Trade Association
Standards Developer

Standards Development Standards developer since 1941

Standards Designations NAB and NARTB prefixes

Certification No certification, qualification, or accreditation programs

Secretariats NAB is the secretariat of the Advanced Television Systems Committee whose purpose is to coordinate the development of voluntary national standards for Advanced Television Systems in the United States. NAB is also secretariat of the National Radio Systems Committee (NRSC) whose purpose is to better the relationship between broadcasters and radio receiver manufacturers through technical improvements.

Scope Represents membership of 5,000 radio and over 900 television stations, including the major networks. Represents the industry before Congress, the White House, and federal regulatory agencies.

Standardization Activities	Maintains standards committees regarding the retention and review of existing NAB standards and practices. As a member of the Joint Committee on Inter-Society Coordination composed of the NAB, EIA, IEEE, NCTA, and SMPTE, the NAB participates in many standards setting committees representing broadcasters and broadcasting interests. Standards pertain to radio and television technical improvements, and producing test records and CDs.
Availability	Distributed directly
Formerly	National Association of Radio and Television Broadcasters (NARTB) (1951-1957)
Keywords	disc recording; tape recording; cartridge tape; cassette tape; broadcast; advanced television systems; NRSC; AM engineering; FM engineering; technical improvement; communications;

NATIONAL ASSOCIATION OF CHAIN MANUFACTURERS

Ross G. Wilcox, Executive Vice President

20 North Wacker Drive
Suite 3318
Chicago, Illinois 60606
(312) 558-1849

Founded: 1932

Type of Organization	Trade Association Works through other organizations to develop standards
Representation	Standards committees of ASTM, ASME, and others.
Scope	Ten manufacturers of welded chain, weldless chain, and tire chains. In addition to standardization, the Association promotes the use of chain and serves as a liaison in contacts with technical and professional groups and federal governmental agencies.
Standardization Activities	The Association has three committees involved in various aspects of standards development and coordination. These are the Engineering Subcommittee, Ad Hoc Committee on Metrication, and Tire Chain Technical Subcommittee. Along with development of industry standards, members of these groups serve on various standards setting bodies.
Formerly	The Chain Institute

Keywords chain; tire chains; industrial equipment;
transportation;

NATIONAL ASSOCIATION OF CORROSION ENGINEERS

Carolyn, Donahoo, Director, Technical Services Division

P.O. Box 218340
Houston, Texas 77218
(713) 492-0535

Telex: 792-310

Founded: 1943

Standards Staff: 3

**Type of
Organization**

Technical Society
Standards Developer

**Standards
Development**

Standards developer since 1969
3,000 members participating in standards activities
70 active standards
None processed through ANSI
Draft standards available for review

**Standards
Designation**

NACE MR, Material Requirement
NACE TM, Test Methods
NACE RP, Recommended Practice

**Government
Adoption**

Several standards are referenced in state and federal regulations.

Certification

Professional recognition program with five categories, each of which is designed to recognize levels in corrosion work; one category is for coating inspectors.

Secretariats

Serves as U.S. Technical Advisory Group Administrator to ISO/TC 35/SC 12, Preparation of Steel Surfaces before Application of Paint and Related Products.

Scope

Assists the public and industrial communities to conserve energy and materials through corrosion control and materials selection. Provides a forum for the presentation of new technology and evaluation of existing technology; publishes literature concerned with the science and engineering of corrosion; supports the needs of other learned societies by supplying information regarding the science and engineering of corrosion control and materials selection; establishes and publishes technical standards and practices to guide producer and user industries; promotes the recognition of corrosion engineering as a profession by means of education, accreditation, and certification programs.

**Standardization
Activities**

Standardization activities accomplished through approximately 350 technical committees which are composed of representatives from industries in which corrosion is a problem. Identifies corrosion problems and solutions and assembles information to define the problems. Develops standards which are reviewed by interested industry parties. Standards represent a consensus of persons substantially concerned with their subjects.

Makes concerted efforts to involve other technical societies in relevant standardization activities through formal liaison.

Primary focus on standardization has been related to development of performance standards. Standards have been proposed regarding performance (resistance to corrosion) of offshore steel platforms, performance of cathodic protection systems, and performance of materials in corrosive environments.

Availability

Distributed directly, and through IHS and American Technical Publishers

Keywords

corrosion; materials degradation; materials;

NATIONAL ASSOCIATION OF COUNTY ENGINEERS

Milton L. Johnson, P.E., Executive Director

326 Pike Road
Ottumwa, Iowa 52501
(515) 684-6928

Founded: 1956

**Type of
Organization**

Professional Society
Standards Developer

Scope

Identifies various technical and management problems common to most counties and documents their solutions. Conducts workshops and holds a Management Research Conference annually. Affiliated with the National Association of Counties.

**Standardization
Activities**

Publishes Action Guide Manuals which emphasize standards for county engineering management and procedures for simplified engineering and technical analysis. Subjects include: organization-personnel purchasing; cost records; advance road programs; county planning; planning county road systems; refuse disposal; county traffic operations; maintenance management; public support; spot safety improvements;

bridge inspection; soil erosion and water pollution prevention; aerial photography; drainage; travel generation; and subsurface soils exploration. Works closely with federal departments, Congressional Committees, the Highway Research Board, and state agencies.

Availability Distributed directly

Keywords county; government officials; construction; facilities management;

NATIONAL ASSOCIATION OF GARAGE DOOR MANUFACTURERS

June G. Fitzgerald, Executive Secretary

655 Irving Park at Lake Shore Drive
Suite 201 Park Place
Chicago, Illinois 60613
(312) 525-2644

Founded: 1968 Standards Staff: 1

Type of Organization Trade Association
Standards Developer

Standards Development One active standard

Scope Promotes the quality and safety of sectional overhead type doors.

Standardization Activities Developed American National Standard, A216.1-1977 (NAGDM 102-1976), Specifications for Sectional Overhead Type Doors. Standard includes performance criteria and test methods for acceptable safety, quality, and durability of sectional overhead type doors intended for residential use and commercial or industrial use on garages, warehouses, service stations, and other places requiring doors generally used for vehicular traffic.

Availability Distributed directly and through ANSI

Formerly Midwest Garage Door Manufacturers Association (1972)

Keywords doors; overhead doors; buildings;

NATIONAL ASSOCIATION OF HOSIERY MANUFACTURERS

Sid Smith, President and CEO

447 South Sharon Amity Road
Charlotte, North Carolina 28211
(704) 365-0913

Founded: 1905

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Designation**

Commercial Standards, CS prefix

Scope

Composed of manufacturers who knit or otherwise process hosiery of any type. Develops standards for hosiery measurement, performance, and quality.

**Standardization
Activities**

Active in technical research leading to standards concerning size systems and terminology for various types of hosiery. NAHM Sizing Standard is an industry standard using body measurements for the sizing of men's, women's, and children's knee-high and shorter hosiery. Developed a simple method for use in describing women's pantyhose in order to provide wearers with proper fitting garments. Instrumental in developing measurement standards.

Availability

Distributed directly

Keywords

sizes; hosiery; clothing; consumer products;

NATIONAL ASSOCIATION OF HOSPITAL PURCHASING MATERIALS MANAGEMENT

Tedd Heckethorn, Acting Executive Director

Post Office Box 1046
Lewiston, Pennsylvania 17044
(717) 242-0106

Founded: 1957

**Type of
Organization**

Professional Society
Standards Developer

Certification

The Professional Development Committee has established guidelines for the certification of hospital purchasing managers.

Scope

A nonprofit professional organization of hospital purchasing directors. Fosters an increased knowledge

of and proficiency in purchasing management; conducts and participates in educational programs and activities; provides media for the interchange of ideas and dissemination of material relative to hospital purchasing management.

**Standardization
Activities**

Establishes standards of performance for individuals and institutions in the various areas of hospital purchasing management through certification and educational conferences and research in hospital purchasing management.

Formerly

National Association of Hospital Purchasing Management
(1968)
National Association of Hospital Purchasing Agents
(1957)

Keywords

hospital management; purchasing; general; health care;

NATIONAL ASSOCIATION OF INDUSTRIAL AND OFFICE PARKS

Sid R. Peters, Executive Vice President

1215 Jefferson Davis Highway
Suite 100
Arlington, Virginia 22202
(703) 979-3400 FAX: (703) 979-3409

Founded: 1967

**Type of
Organization**

Trade Association
Works through other organizations to develop standards

Scope

A trade association of developers of industrial and office parks and others interested in commercial real estate. Aims to stimulate the growth of the office and industrial park industry, to improve the prospects and profits of its members, and to foster establishment and maintenance of standards for the operation of park complexes.

**Standardization
Activities**

Cooperates to develop and utilize standards in the areas of paved streets, utility systems for multiple users, setback or percentage coverage requirements, landscaping, off street parking, and architectural control.

Formerly

National Association of Industrial Parks

Keywords

industrial parks, office parks; building; construction; facilities management;

NATIONAL ASSOCIATION OF JEWELRY APPRAISERS

Richard E. Baron, Executive Director

4210 North Brown Avenue
Scottsdale, Arizona 85251
(602) 941-8088

Founded: 1981

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Developer of Jewelry Appraisal Standards since 1981
700 members participating in standards activities

Certification

Certification of qualified and accredited member appraisers

Scope

A professional association exclusively devoted to the jewelry appraisal profession. The association functions on a national and international basis. Works to disseminate information, improve methods of appraisal valuation, and share opinions on areas of common interest.

**Standardization
Activities**

The standardization activities of the association are directed toward user-defined requirements for the industry and those who require a professional opinion as to value.

Major activities include Appraisal Forms, Related Work Sheets, and Terminology. New areas of standards which are applicable to the industry are being developed and reviewed.

Availability

Distributed directly

Keywords

jewelry appraisers; gems; diamonds; gemology, consumer products;

NATIONAL ASSOCIATION OF MANUFACTURING OPTICIANS

William J. Flannery III, Executive Director

Post Office Box 866428
Plano, Texas 75086-6428
(214) 484-8128

Founded: 1975

**Type of
Organization**

Trade Association
Standards Developer

Scope	A nonprofit trade association of individuals and businesses engaged in the manufacture and production of prescription eyewear or related ophthalmic goods and services.
Standardization Activities	Dedicated to standards development through regulation, legislation, and education of the public. Cooperates with ANSI, the Total Ophthalmic Community Conference, ISO, and the National Association of Wholesaler-Distributors. Developed a bar code for optical products.
Availability	Distributed directly
Keywords	ophthalmology; optician; optics; ophthalmic products;

NATIONAL ASSOCIATION OF NAME PLATE MANUFACTURERS

James A. Kinder, Executive Vice President

1700 East Dyer Road
Suite 165
Santa Ana, California 92705
(714) 261-2591 FAX: (714) 261-2594

Founded: 1951

Type of Organization	Trade Association Standards Developer
Standards Development	Standards developer since 1969
Standards Designation	Nameplate Industry Standards and Practices
Government Adoption	Military Specifications for nameplates
Scope	Membership accounts for approximately two-thirds of the total business volume of the name plate manufacturing industry in the United States. The term "name plate" refers to any metal or plastic plate that has been etched, embossed, stamped, engraved, or imprinted and which is fastened to another object for purposes of identification, instruction, or decoration.
Standardization Activities	Standards represent a relatively small but highly significant portion of the association's activities. In 1969 published Metal Name Plate Industry Standards and Practices, which was updated in 1987 under the name of Name Plate Industry Standards and Practices. This

book is the only set of standards in existence for the industry in the United States. Among the subject areas covered are: nomenclature, finishes, fabrication tolerances, materials, fastening methods, inspection, reject procedure, delivery, and equipment preparation. Copies have been distributed throughout the industry and to customers of the industry in both private and public sectors for their information and use in writing specifications. The Book of Standards Committee is responsible for compiling and coordinating changes.

Availability Sold directly

Formerly National Association of Metal Nameplate Manufacturers (1968)

Keywords nameplates; industrial equipment; office products;

NATIONAL ASSOCIATION OF PHOTOGRAPHIC MANUFACTURERS

Richard Hittner, Manager - Domestic Standards

Eduard R. Scherrer, Manager - International Standards

550 Mamaroneck Avenue
Harrison, New York 10528
(914) 698-7603 FAX: (914) 698-7609

Founded: 1946 Standards Staff: 3 full-time
2 part-time

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

767 members active in standards development
92 active international standards
276 ANSI approved standards

**Standards
Designations**

ASC/PH prefix
ASC/IT prefix

Secretariats

ASC/PH1, Photographic Films, Plates, and Papers
ASC/PH2, Photographic Sensitometry
ASC/PH3, Photographic Apparatus
ASC/PH4, Photographic Processing
ASC/IT7, Instructional Audiovisual Systems Standards
ASC/IT9, Physical Properties and Permanence of Imaging Media
ISO/TC 42, Photography
U.S. Technical Advisory Group ISO/TC 42
U.S. Technical Advisory Group ISO/TC 72

Scope	An association for manufacturers of image technology products. Promotes and encourages a wider understanding and appreciation of image technology, and a greater use of image technology products worldwide.
Standardization Activities	<p>Promotes standardization of all photographic products, and methods of testing product performance. Ensures interchangeability and compatibility of photographic components and materials.</p> <p>Domestic standards committees are accredited by the American National Standards Institute and follow a voluntary consensus system. Proposes programs of work and gives direction and guidance to the various Accredited Standards Committees while maintaining over 276 approved standards. Cooperates with ANSI, ASTM, ANMC, IEEE, NEMA, SMPTE, ISO, and IEC.</p> <p>International activities include developing international photographic standards under ISO procedures, and maintaining close liaison with other international standards developing organizations in allied fields. Promotes participation in the activities of the International Electrotechnical Commission (IEC) through NAPM's domestic and international standards committee secretariats.</p>
Availability	<p>Draft standards distributed directly</p> <p>Published standards distributed through ANSI</p>
Keywords	image technology; photography; photographic products; photographic optics; x-ray; film; photographic accessories;

NATIONAL ASSOCIATION OF PIPE COATING APPLICATORS

	Merritt B. Chastain, Jr., Managing Director
	333 Texas Street 8th Floor Shreveport, Louisiana 71101-3673 (318) 227-2769
	Founded: 1965 Standards Staff: 8
Type of Organization	Trade Association Standards Developer
Standards Development	Standards developer since 1965 One hundred company members participate in standards activities; continuously reviewed and revised None processed through ANSI Draft standards available for review by members

**Standards
Designations**

NAPCA Bulletin

Scope

A trade association for the plant pipe coating application industry. Comprised of companies engaged in the manufacture or sale of materials, supplies, equipment, or services, and those utilizing coating products. Promotes the general welfare of the industry, stimulates the use of coating and related materials, standardizes and improves specifications and materials, aids consumers and manufacturers in their coating material research, cooperates with other industries and organizations, and disseminates information to its members, its customers and the public.

**Standardization
Activities**

Develops and revises pipe coating application specifications, standards, and suggested procedures. Publishes Pocket Edition of National Association of Pipe Coating Applicators Specifications and Plant Coating Guide which contains all current and revised specifications. Most recent revisions completed in 1987.

Availability

Distributed directly

Keywords

pipe coating; corrosion protection; insulation; coating; construction;

NATIONAL ASSOCIATION OF PLUMBING-HEATING-COOLING CONTRACTORS

Robert L. Warren, Director of Technical Services

180 South Washington Street
Post Office Box 6808
Falls Church, Virginia 22046
(703) 237-8100

Founded: 1883

**Type of
Organization**

Trade Association
Works through other organizations to develop standards

Representation

ANSI Committees A119, B16, B31; Z223, Fuel Gas Code; ASTM, IAPMO, GSA, and UL

**Government
Adoption**

Various federal agencies, including the Department of Housing and Urban Development, the Army Corps of Engineers, the Navy, and others, have adopted the National Standard Plumbing Code.

Scope	Advances and encourages better methods and practices in the field of plumbing, hydronic heating, and hydronic cooling; advances sanitation and sanitary laws and techniques in air-conditioning leading to better protection of the health and welfare of the public; improves plumbing appliances and fixtures and heating and cooling equipment and parts; promotes equitable relations between contractors, journeymen, and other employees and between manufacturers and jobbers in supplies used in the plumbing, heating, cooling, gas-fitting, and drainage business. 6,000 members.
Standardization Activities	Maintains a Technical Committee which administers the standardization activities. Developed and published the National Standard Plumbing Code which was adopted by the Department of Housing and Urban Development in 1973.
Availability	Distributed directly
Formerly	National Association of Master Plumbers (1962)
Keywords	plumbing; heating; air-conditioning; building; sanitation;

NATIONAL ASSOCIATION OF PUNCH MANUFACTURERS

	Charles H. Till, Executive Secretary
	1173 West River Parkway Grand Island, New York 14072 (716) 773-5720
	Founded: 1963
Type of Organization	Trade Association Standards Developer
Standards Development	All standards processed through ANSI
Standards Designations	ANSI B94.x
Scope	Devoted to standardization of all punches, dies, and retainers manufactured by various member companies.
Availability	Distributed through ANSI
Keywords	manufacturing; tools;

NATIONAL ASSOCIATION OF PURCHASING MANAGEMENT

R. Jerry Baker, Executive Vice President

2055 East Centennial Circle
Post Office Box 22160
Tempe, Arizona 85252

Founded: 1915

Type of Organization	Professional Society Works through other organizations to develop standards
Certification	Certified Purchasing Manager Program which establishes a standard of competency.
Scope	Provides national and international leadership in purchasing and materials management research and education. Provides opportunities for expansion of professional skill and knowledge. Encourages public understanding of the purchasing and materials management concepts.
Standardization Activities	Promulgates standards through company standardization programs. Sponsors educational programs which are related to the broad field of standardization and simplification. In an effort to further advance sound principles of purchasing and to elevate the purchasing profession, this committee's professional development program publishes a series of handbooks.
Formerly	National Association of Purchasing Agents (1968)
Keywords	purchasing; materials management; business;

NATIONAL ASSOCIATION OF RELAY MANUFACTURERS

D.E. Dangott, Executive Director

P.O. Box 1506
Elkhart, Indiana 46515
(219) 264-9421

Founded: 1947

Type of Organization	Trade Association Standards Developer
Scope	Promotes the standardization of terminology and test procedures in the manufacture and uses of relays. Cosponsors a National Relay Conference to provide engineers and specialists concerned with relays the opportunity to present results of their technical

investigations to representatives of prominent relay manufacturers, users, and academicians.

**Standardization
Activities**

Maintains standards committees which coordinate member activities with relay users and Government agencies in establishing specifications for relays. Cooperates with Electronic Industries Association and others to write standards for reed switches, solid state relays, and mercury displacement relays. Develops other specifications for low carbon and silicon steels, and EMI iron for use in magnetic circuits for relays. Publishes Engineers Relay Handbook which contains specifications relating to terminology and test procedures. It is an all-encompassing engineering reference source, covering all relays from electromechanical to hybrid and solid state. Also publishes the booklet, Definitions of Relay Terms.

Availability

Distributed directly

Keywords

relays; electrical equipment;

NATIONAL ASSOCIATION OF ROCKETRY

James P. Miller, President

1311 Edgewood Drive
Altoona, Wisconsin 54720
(715) 834-8074

Founded: 1958

Standards Staff: 4

**Type of
Organization**

Scientific Society
Standards Developer

**Standards
Development**

Standards developer since 1958
10 manufacturers participate in standards activities
2 active standards

**Government
Adoption**

48 state governments use NAR Safety Certification as a prerequisite for sale.

Certification

See below

Scope

A national hobby service organization for model rocketeers. Provides a monthly magazine, technical materials, liability insurance, and education programs for its members. Sanctions local clubs and local contests. Homologates national model rocket flight records. The U.S. Representative to the FAI CIAM Subcommittee on Space Models where it interacts internationally with other hobby organizations. Chairs the NFPA Committee on Pyrotechnics and works closely with

the HIA to monitor state and national hobby legislation.

**Standardization
Activities**

Certifies model rocket motors for safety prior to their sale in 48 states. Certification is based upon the reliability of the motors, casing temperatures, and the total impulse. Contest certifies model rocket motors prior to their use in Association sanctioned contests.

Recertifies model rocket motors every third year. Established a random sampling program to spot check motors for sale to consumers on hobby shop shelves. Maintains records of motor failures filed by its members, these records are provided to the manufacturers as input for product correction and development.

Availability

Distributed directly

Formerly

Model Missiles, Inc. (1958)

Keywords

pyrotechnics; model rockets; aeromodeling; recreation; space models;

NATIONAL ASSOCIATION OF STATE PURCHASING OFFICIALS

Darrell D. Perry, Executive Secretary

Box 11910 Iron Works Pike
Lexington, Kentucky 40578
(606) 252-2291

Founded: 1947

Affiliated with the State Council of Governors.

See Section 4.1 of this Directory listing state government standardization activities.

NATIONAL ASSOCIATION OF STATE TEXTBOOK ADMINISTRATORS

Becky McConkey, Executive Director

3905 Reedy Creek Road
Raleigh, North Carolina 27606-6441
(919) 733-6015

**Type of
Organization**

Professional Society
Standards Developer

**Standards
Designations**

NASTA prefix

Scope	Directors of state education agencies responsible for the purchase and distribution of textbooks for public schools.
Standardization Activities	Maintains an Advisory Committee which develops specifications for hard cover textbooks and non-consumable softcovered texts. Specifications cover margins, uniform labelling, paper, binding, and stitching. Cooperates with BMI (Book Manufacturer's Institute) and AAP (Association of American Publishers) to develop specifications. Publishes Manufacturing Standards and Specifications for textbooks developed by a commission comprised of NASTA, BMI, and AAP.
Availability	Distributed directly
Formerly	National Association of State Text Book Directors
Keywords	textbooks; book publishing; education;

NATIONAL AUTOMATED CLEARING HOUSE ASSOCIATION

Elliott McEntee, President

607 Herndon Parkway
Suite 200
Herndon, Virginia 22070

Founded: 1974

Type of Organization	Trade Association Standards Developer
Standards Development	Standards developer since 1974
Scope	A national trade association involved in developing payments standards for automated clearing house (ACH) transactions. Processed over 1 billion ACH transactions in 1989 for applications such as direct deposit, preauthorized debits, corporate cash concentration, and electronic data interchange (EDI) payments. Forty-two member associations representing over 16,000 financial institutions.
Standardization Activities	Involved in developing standards for electronic of funds and information. Through Rules and Operations Committee, develops and maintains rules governing the exchange of ACH transactions.
Availability	Distributed directly

Keywords financial; direct deposit; EDI payments; preauthorized debits; corporate trade payments; cash concentration;

NATIONAL AUTOMATIC MERCHANDISING ASSOCIATION

Larry M. Eils, Director, Public Health and Safety
20 North Wacker Drive
Suite 3500
Chicago, Illinois 60606
(312) 346-0370 FAX: (312) 704-4140

Founded: 1936

Type of Organization Trade Association
Standards Developer

Standards Development Standards developer since 1959
One standard

Standards Designations NAMA Standard for the Sanitary Design and Construction of Food and Beverage Vending Machines (as amended, September 1989)

Government Adoption Adopted by many states, counties and municipalities and, by reference, the Army, Air Force, and Navy. Results of evaluation activity are recognized nationwide.

Certification Evaluation and testing are conducted by retained consultants. Reevaluation is conducted annually.

Scope The national association of the vending and contract food service industry. Membership includes national/regional/local operating companies, machine manufacturers, distributors, and product suppliers. Services include legislation, government relations, education, conventions, state affiliate organizations, public relations, publications, and public safety.

Standardization Activities Maintains a 20-member Automatic Merchandising Health Industry Council comprised of representatives from national public health associations, federal regulatory and military agencies, vending operators, machine manufacturers and suppliers. Recommends to NAMA all administrative policies and procedures used in the evaluation program. Works with Underwriters Laboratories on UL standards 541 and 751.

Availability Distributed directly

Keywords vending; vending machine; automatic merchandising; food sanitation; public health;

NATIONAL AUTOMOBILE THEFT BUREAU

Paul W. Gilliland, President

10330 South Roberts Road - 3A
Palos Hill, Illinois 60465
(312) 430-2430

Founded: 1912

Type of Organization

Service Organization
Works through other organizations to develop standards

Scope

The NATB formulates and implements policies for the prevention of vehicle theft, vehicle arson, and vehicle fraud. NATB cooperates with duly constituted public authorities in the prosecution of individuals engaged in vehicle crime and fraud. The Bureau is an agency for the location and identification of stolen vehicles and for the promotion of anti-vehicle theft activities. NATB is a crime prevention organization supported by more than 650 property-casualty insurance companies, providing assistance to law enforcement, insurance and the public.

Standardization Activities

Cooperates with automobile manufacturers in the adoption of a standard vehicle identification number, as well as in a standard method of stamping and affixing such numbers.

Prints and distributes to law enforcement agencies a Motor Vehicle Identification Manual, a Commercial Vehicle Identification Manual, and Manual for the Investigation of Automobile Fires. Services of the bureau are for the benefit, not only of insurance companies and law enforcement agencies, but of the entire motoring public.

Keywords

automobile theft; law enforcement; insurance;
transportation;

NATIONAL BARK AND SOIL PRODUCERS ASSOCIATION

Robert C. LaGasse, Executive Director

13542 Union Village Circle
Clifton, Virginia 22024
(703) 830-5367

Founded: 1971

Type of Organization

Trade Association
Standards Developer

Standards Development	Standards developer since 1972
Scope	Represents producers of bark and soil products in the United States and Canada. Disseminates information about the use of products to horticulture firms, garden shops, and the public.
Standardization Activities	The industry forum for development of bark and soil product standards; works with other organizations, such as the National Conference on Weights and Measures to develop standards. Has defined ten product categories. Grade standards serve as guidelines for producers and are used on product bags as an indication of quality.
Availability	Distributed directly
Formerly	National Bark and Soil Producers Association
Keywords	bark; mulch; soil; agriculture;

NATIONAL BOARD OF BOILER AND PRESSURE VESSEL INSPECTORS

W. L. Garvin, Assistant Executive Director

1055 Crupper Avenue
Columbus, Ohio 43229
(614) 888-8320

Telex: 246-625

Founded: 1919

Type of Organization	Professional Society Standards Developer
Standards Designation	National Board Inspection Code, 1983 (an ANSI Standard); National Board Boiler Blowoff Equipment, 1973; Relieving Capacities of Safety Valves and Relief Valves, 1983.
Certification	All states, municipalities, and Canadian provinces that have boiler and pressure vessel laws recognize the National Board inspector's commission and National Board stamping boilers and pressure vessels as meeting their safety law requirements for new construction. Transfer of such objects between states is implemented by National Board stamping. Relieving capacities of safety valves and pressure relief valves as certified by the National Board is used by various state, municipal, and provincial jurisdictions to determine adequate volumetric relief of the pressurized medium in event of runaway conditions.

Scope	Confines its membership to persons charged with enforcement of the boiler and pressure vessel laws in various states in the United States and the Canadian provinces.
Standardization Activities	Operates in the following areas of standardization: boiler and pressure vessel law enforcement; uniform boiler laws and rules throughout the jurisdiction of its members; uniform qualifications for boiler and pressure vessel inspectors, including identical examinations conducted simultaneously throughout the United States and Canada; uniform stamping of boilers and pressure vessels that are inspected during construction by such boiler and pressure inspectors who hold valid National Board commissions; and uniform relieving capacity ratings of safety valves and pressure relief valves for boiler and unfired pressure vessel service. Works with the American Society of Mechanical Engineers, Boiler and Pressure Vessel Code; the U.S. Department of Labor, Occupational Safety and Health Administration (OSHA); the U.S. Coast Guard; and the U.S. Nuclear Regulatory Commission (NRC) in the development of safety standards, codes, and uniform safety inspections.
Availability	Distributed directly
Keywords	boilers; pressure vessels; safety valves; industrial equipment; government officials;

NATIONAL BUILDING GRANITE QUARRIES ASSOCIATION

Kurt M. Swenson, Secretary

c/o Rock of Ages Corporation
 Post Office Box 482
 Barre, Vermont 05641
 (802) 476-3115

FAX: (802) 476-3110

Founded: 1916

Type of Organization	Trade Association Standards Developer
Standards Development	Standards developer since 1916
Scope	A national trade association of companies involved in the quarrying and manufacture of granite for architectural applications. They represent their members in national and international areas of interest.

Standardization Activities	Publishes Specifications for Architectural Granite annually. Specifications are reviewed and updated annually. Also provides listing of available types of granite from members classified by color, name, quarry location and quarrier. Also provides other assistance on architectural granite upon request.
Availability	Distributed directly
Keywords	granite; building materials; architecture; architectural granite; building granite;

NATIONAL BURGLAR AND FIRE ALARM ASSOCIATION

	Charles B. Lavin, Sr., CAE, Executive Director
	7101 Wisconsin Avenue Suite 1390 Bethesda, Maryland 20814-4805 (301) 907-3202
	Founded: 1948
Type of Organization	Trade Association Works through other organizations to develop standards
Representation	Representatives on NFPA, UL, and ASTM Committees
Scope	Represents 2,400 installing and operating alarm companies, as well as manufacturers and suppliers of alarm equipment services. Maintains liaison with the insurance industry, fire and policy organizations, state and federal agencies, and many special groups.
Standardization Activities	Standards committee monitors all standards of interest to members and distributes information accordingly. Input to consensus standards is provided through members on various committees.
Keywords	burglary; fire alarm; security; alarm system; buildings;

NATIONAL CABLE TELEVISION ASSOCIATION

	James P. Mooney, President
	1724 Massachusetts Avenue, NW Washington, DC 20036 (202) 775-3550
	Founded: 1952

Type of Organization	Trade Association Standards Developer
Scope	Represents the interests of the cable television industry before Congress and federal agencies, in courts of law, and before state regulatory agencies in dialogues with other industries and groups.
Standardization Activities	Maintains an Engineering Department which administers the standardization activities. Issues Engineering Standards which cover the areas of Visual Carrier Level, Amplifier Distortion, Graphic Symbols, the Standards Numbering System, and Noise Level in Cable Systems. The active standards committees and new projects are C-TAC (Cable Television Advisory Committee); EIA/CTSC (Cable Television Systems Communications); NEC (National Electric Code); and the JCIC (Joint Committee on Inter-Society Coordination). Promotes the use of standards through a bulletin and training courses. Participates in subcommittees of the International Electrotechnical Commission and is involved with the Federal Communications Commission.
Availability	Distributed directly
Formerly	National Community Television Association (1969)
Keywords	television; cable television; communications;

NATIONAL CARGO BUREAU

S. Fraser Sammis, Chairman

30 Vesey Street
New York, New York 10007
(212) 571-5000

FAX: (212) 571-5005

Founded: 1952

Type of Organization	Trade Association Standards Developer
Certification	The bureau is authorized by the U.S. Coast Guard to certify the loading of bulk grain cargoes and to approve grain loading plans in accordance with current regulations. The Bureau is officially recognized by the Coast Guard and the Department of Labor as a cargo gear certification agency.
Scope	A nonprofit organization whose membership is comprised of persons prominently identified with steamship management or marine insurance underwriting organizations. Dedicated to the safe loading, stowing,

securing, and unloading of cargo and cargo containers on all vessels, and for the design, strength, safety, and suitability of cargo handling gear and cargo containers, including the security and integrity of containers.

**Standardization
Activities**

Assists the U.S. Coast Guard in administering the provisions of the Dangerous Cargo Act and the applicable regulations in Title 46, of the Code of Federal Regulations, Shipping, with respect to inspection of vessels for suitability for loading dangerous cargo; examination of stowage of dangerous cargo; making recommendations as to towage requirements of dangerous cargo; and issuance of certificate of loading setting forth that the stowage of dangerous cargo is in accordance with the regulations.

Participates in activities of the International Maritime Organization (IMO) by being active on the IMO Maritime Safety Committee, the Subcommittee on Containers and Cargos, and the Subcommittee on the Carriage of Dangerous Goods. This subcommittee revised the international regulations for the carriage of bulk grain.

Formerly

Absorbed Bureau of Inspection of Board of Underwriters of New York; Board of Marine Underwriters of San Francisco (1952)

Keywords

cargo handling; containerization; shipping; insurance; transportation;

NATIONAL CERTIFIED PIPE WELDING BUREAU

Jack Hansmann, Executive Secretary

1385 Piccard Drive
Rockville, Maryland 20850-4329
(301) 869-5800 FAX: (301) 990-9690

Founded: 1944 Standards Staff: 2

**Type of
Organization**

Trade Association
Works through other organizations to develop standards

Representation

20 members represented on standards committees of organizations such as ASME, ANSI, and AWS.

Scope

A department of the Mechanical Contractors Association of America, Inc. Engages in research and educational work; supplies information and data on welding; creates a force of welders uniformly trained and qualified; and

promotes, develops, and maintains the quality of welding in the piping industry.

**Standardization
Activities**

Cooperates with other organizations to provide guidance and input for the standards development process. Works toward development of uniform procedure specifications for welding methods.

Keywords

pipe; welding; manufacturing;

NATIONAL CIVIC LEAGUE

John Parr, President

1601 Grant Street
Suite 250
Denver, Colorado 80203
(303) 832-5615

Founded: 1894

**Type of
Organization**

Technical Society
Works through other organizations to develop standards

Scope

Civic leaders, educators, public officials, civic organizations, libraries, and businesses interested in improving state and local government and techniques of citizen action. Serves as a clearinghouse for information on state constitution, city and county charters, legislative apportionment, fiscal procedures, among others.

**Standardization
Activities**

Model laws devised, published, and distributed by this organization are intended to serve as standards and to stimulate uniformity in state, county, and city legislation. These include a model bond law, budget law, city charter (which provides the council-manager form of government), model county charter, election administration system, model real property tax collection law, registration system, model state constitution, and others.

Formerly

National Municipal League/Citizens Forum on Self-Government

Keywords

model laws; government; officials; community problem solving;

NATIONAL CLAY PIPE INSTITUTE

E. J. Sikora, Vice President

Post Office Box 759
253-80 Center Street
Lake Geneva, Wisconsin 53147
(414) 248-9094

Founded: 1944

Standards Staff: 2

**Type of
Organization**

Trade Association
Standards developer by working through ASTM

**Government
Adoption**

Federal agencies involved directly and indirectly in construction activities have adopted ASTM standards for Vitrified Clay Pipe and its installation.

Secretariats

ASTM Committee C-4.

Scope

An international trade association, representing the major U.S. manufacturers of Vitrified Clay Pipe, with Associate Members in several foreign countries. Renders engineering advisory services to design engineers, Government officials, and others. Conducts scientific research, national advertising, and public relations programs on behalf of the industry at various independent research laboratories and universities.

Publishes the Clay Pipe Engineering Manual for engineers, city and state officials, and architects. Also technical brochures of an educational nature relating to the use of Vitrified Clay Pipe in sanitary sewer systems.

**Standardization
Activities**

Active in the American Society for Testing and Materials. Assists in the development of federal specifications.

Availability

Sold directly

Formerly

National Clay Pipe Manufacturers (1961)

Keywords

vitricified clay pipe; sewers; sanitation; construction;

NATIONAL CLAY POT MANUFACTURERS ASSOCIATION

Stone Manes, President

P.O. Box 485
Jackson, Missouri 63755
(314) 243-3138

Founded: 1956

**Type of
Organization**

Trade Association
Standards Developer

Scope

A nonprofit corporation which acts to stimulate professional and public interest in the uses and advantages of clay flower pots and in modern techniques employed in their production.

**Standardization
Activities**

Develops standard sizes and shapes of clay flower pots manufactured in the United States.

Availability

Distributed directly

Keywords

flower pots; planting; agriculture; horticulture;
floriculture; retail;

NATIONAL COFFEE ASSOCIATION OF THE USA

George E. Boecklin, President

110 Wall Street
New York, New York 10005
(212) 344-5596

Founded: 1911

**Type of
Organization**

Trade Association
Works through other organizations to develop standards

Scope

Green coffee importers, jobbers, brokers, and agents; instant coffee processors; roasters and allied coffee industries. Promotes sound business relations among members of the trade to increase coffee consumption.

**Standardization
Activities**

Representatives from member firms assist in development of ISO standards, Codex Alimentarius standards; U.S. Government and various other standards for purchasing.

Keywords

coffee; agriculture; beverages;

NATIONAL COIL COATERS ASSOCIATION

Kenneth Dickson, Executive Director

1900 Arch Street
Philadelphia, Pennsylvania 19103
(215) 564-3484

Founded 1962

Type of Organization	Trade Association Standards Developer
Scope	Manufacturers of continuously coated metal coil, other than metal plated coil. Fosters development of standard test methods, exchanges technical information, collects statistics, and promotes coated coil.
Standardization Activities	Maintains a Technical Section which works to develop test methods and evaluate new processes. Activities include accelerated testing, physical testing, and standards development in the areas of color, laminate, aluminum, and steel. Supports ASTM, ANSI, and AISI in this work. Publishes a Technical Manual and Bulletins.
Availability	Distributed directly
Keywords	coil coating; metal coating; materials;

NATIONAL COMMITTEE FOR CLINICAL LABORATORY STANDARDS

John V. Bergen, Ph.D., Executive Director

771 E Lancaster Avenue
Villanova, Pennsylvania 19085
(215) 525-2435

Founded: 1968

Standards Staff: 13

Type of Organization	Voluntary Consensus Standards Developer
Standards Development	Accredited by ANSI Over 1,200 scientists participate in 115 projects 81 standards and guidelines available; 20 at approved level, 20 at tentative level, and 41 at proposed level 150 active members (professional organizations, governmental agencies, industrial organizations) 1,050 corresponding members (state agencies, universities, clinical laboratories, international organizations)
Secretariats	Administrator of Technical Advisory Group ISO/TC 76, Technical Equipment for Medical Use. Reporting Secretariat for International Organization of Legal Metrology (OIML). SP 26/SR 5, Measuring Instruments Used in the Field of Public Health/Clinical Laboratory Reference Materials.
Scope	A national nonprofit, educational organization whose purpose is to provide a communication forum for, and to promote the development and use of, national and international standards for the clinical laboratory.

Based on the principle that voluntary consensus standards for clinical laboratory testing are necessary in order to maintain laboratory performance at levels that ensure high quality patient care.

Represents an active membership with balanced representation of the professional sector, government, and industry, including professional organizations, state and federal agencies, trade associations, and individual companies. Members participate in the development of proposed, tentative, and approved NCCLS standards and guidelines.

**Standardization
Activities**

Develops standards in ten areas: clinical chemistry, evaluation protocols, instrument systems, general laboratory practices, immunology, hematology, microbiology, ligand assay, toxicology/drug monitoring, and alternate site testing.

Publications focus on laboratory procedures, bench and reference methodologies, and scientific evaluation protocols, providing realistic standards and guidelines that the clinical laboratory can use in its day-to-day activities. Standards publications include those relating to antibiotic susceptibility testing, blood collection, water purity testing, and clinical laboratory instrumentation. Also administers the National Reference System for the Clinical Laboratory (NRSCL) which provides the scientific basis to ensure that clinical laboratory results can be interchanged within defined limits of accuracy and precision.

Availability

Distributed directly

Keywords

clinical chemistry; medical instruments; laboratory; testing; immunology; hematology; microbiology; ligand assay; toxicology/drug monitoring; public health; reference technology; physician's office laboratory;

NATIONAL COMPUTER GRAPHICS ASSOCIATION

Carl Machover, President

2722 Merrilee Drive
Suite 200
Fairfax, Virginia 22031
(800) 225-NCGA
(703) 698-9600

Founded: 1979

**Type of
Organization**

Trade Association
Standards Developer

Secretariats	ISO/IEC JTC1/SC24/WG1
Scope	Trade association comprised of more than 6,000 computer graphics professionals and 120 corporate members. NCGA is dedicated to developing and promoting the computer graphics industry and improving applications in business, industry, government, science and the arts.
Standardization Activities	NCGA's annual systems integration demonstration showcases the association's commitment to improving productivity through the widespread education and use of computer graphics standards. NCGA is administrator of the IGES/PDES Organization and serves as secretariat for the international committee on computer graphics, ISO/IEC JTC1/SC24/WG1. NCGA also promotes the use, benefits and acceptance of data exchange standards for the geographic information systems (GIS) and mapping industries through the association's Geographic Data Exchange Standards Forum.
Keywords	computer; computer graphics; mapping; IGES/PDES; geographic information systems (GIS);

NATIONAL CONCRETE MASONRY ASSOCIATION

	Kevin D. Callahan, Vice President of Technical Services 2302 Horse Pen Road P.O. Box 781 Herndon, Virginia 22070 (703) 435-4900 Founded: 1920 Standards Staff: 5
Type of Organization	Trade Association Works through other organizations to develop standards
Representation	All national code bodies; ASTM committees and American Concrete Institute standards committee.
Scope	A nonprofit trade association representing concrete masonry manufacturers throughout the United States, Canada, and 21 other countries. Encourages development of the art and science of manufacturing concrete masonry; creates a standard of excellence in manufacturing; develops criteria for the proper use of concrete masonry products and concrete pavers and encourages such use; and facilitates the interchange of practical knowledge among its members and related industries and organizations.

**Standardization
Activities**

Activities of the association are developed by the Technical and Specifications Review Committees and are subject to approval by the Board of Directors. Maintains continuing liaison and participation in the standardization and specification activities of the major national code bodies in the United States, the American Society for Testing and Materials, the American Concrete Institute, ASCE, BSSC, AIA, and CSI. Liaison and product specification assistance conducted on a regular basis with agencies of the federal government including the National Institute of Standards and Technology, Departments of Housing and Urban Development, Defense, Commerce, Agriculture, and with the Corps of Engineers, Department of Veterans Affairs, General Services Administration, National Aeronautics and Space Administration, and the Federal Aviation Administration.

Keywords

concrete masonry; building; construction;

NATIONAL CONFERENCE OF STATES ON BUILDING CODES AND STANDARDS

Robert C. Wible, Executive Director

481 Carlisle Drive
Herndon, Virginia 22070
(703) 437-0100

Founded: 1967

Standards Staff: 5

**Type of
Organization**

Professional Society
Works through other organizations to develop standards

Certification

Participates in National Certification Program for construction Code Inspectors (NCPCCI) examinations.

Scope

Founded by a group of state governors concerned with the need to better coordinate state building code and public safety activities, NCSBCS today represents the fifty states and several territories in the area of building codes and standards. It maintains an Executive Branch Agreement of the National Governors Association and includes as members governor-appointed representatives of each state and territorial government. Also included as members are other state and local building officials, practicing architects and engineers, building contractors, product manufacturers and suppliers, and consumers. NCSBCS promotes intergovernmental reforms in the area of building codes and standards and encourages the establishment of standards and practices which promote the development, introduction, and acceptance of innovative building materials and techniques.

Standardization Activities	50 delegates and 5 standards staff participate in the development, updating, and ongoing maintenance of building codes and standards at the state and federal level. Responsible for the ANSI A225.1 Standard on Manufactured Housing Installations (Manufactured Home Sites, Communities and Set-ups). NCSBCS provides state government with a voice before other standards setting organizations. Some current public safety programs of NCSBCS include: acting as the monitoring and standardization agent for the U.S. Department of Housing and Urban Development in the federal manufactured housing construction and safety program; assisting the states in maintaining and updating their building energy conservation and architectural accessibility requirements; researching and developing models of effective and efficient state building code administration; and development of interstate reciprocity for modular and industrialized buildings.
Keywords	building codes and standards; manufactured home installations; state government; heating; safety; energy; building; government officials;

NATIONAL CORRUGATED STEEL PIPE ASSOCIATION

Type of Organization	<p>Venlo J. Wolfsohn, Executive Director</p> <p>2011 Eye Street, NW Washington, DC 20006 (202) 223-2217 FAX: (202) 457-9121</p> <p>Founded: 1955</p>
Standards Development	<p>Trade Association Standards Developer</p> <p>Standards developer since 1956 74 member companies participating in standards activities 5 active standards None processed through ANSI</p>
Standards Designation	CSP prefix
Scope	A national trade association that represents corrugated steel pipe fabricators, steel suppliers, and manufacturers of related products. Improves and expands the use of corrugated steel pipe and plate for culverts, sewers, bridges, subdrains, and other drainage facilities.

Standardization Activities	Maintains an active Technical Advisory Committee which develops CSP standards along with participating in and monitoring the work of other technical bodies such as ASTM, AASHTO, and AISI. Engineering organizations, specifying agencies, and users of corrugated steel pipe use standards. Widespread activities of the association make it possible for county, state, Federal, city, consulting and other engineers, as well as construction personnel, to become thoroughly acquainted with design, use, installation, and acceptance of corrugated steel pipe throughout the United States.
Availability	Distributed directly
Formerly	National Corrugated Metal Pipe
Keywords	culverts; sewers; bridges; construction;

NATIONAL COTTON COUNCIL OF AMERICA

Phillip C. Burnett, Executive Vice President

P.O. Box 12285
 Memphis, Tennessee 38182
 (901) 274-9030

Founded: 1938 Standards Staff: 4

Type of Organization	Trade Association Works through other organizations to develop standards
Representation	Members provide input or serve on various committees of standards developers, such as ASTM, ISO, AATCC, ACGIH, OSHA, CAL/OSHA, CPSC, EPA, and ANSI.
Secretariats	Joint Cotton Industry Bale Packaging Committee (JCIBPC). NCCA is one sponsor of the International Cotton Calibrations Standards Committee.
Scope	The National Cotton Council is the central organization of the U.S. cotton industry representing growers, ginner, warehousemen, merchants, cooperatives, manufacturers, and cottonseed crushers. It serves its members through programs of technical services, foreign operations, communications services, economic services, and legislation.
Standardization Activities	Works with industry and government agencies in developing needed fiber/textile test methods, product standards, and safety/health environmental standards affecting the cotton industry. Develops specifications to improve the quality and protection of the American

cotton bale and to improve its appearance and saleability in domestic and foreign markets. Sets cotton bale standards to guide handlers and processors in evaluating and communicating bale conditions. Through the JCIBPC, develops specifications for acceptable cotton bale packaging materials. These are adopted by reference by the Commodity Credit Corporation as a requirement for CCC loan eligibility.

Keywords cotton; bale packaging; fiber testing; cottonseed; textiles; safety environment; agriculture;

NATIONAL COTTONSEED PRODUCTS ASSOCIATION

Allen Ater, Executive Vice President

P.O. Box 12023
Memphis, Tennessee 38182-0023
(901) 324-4417 FAX: (901) 324-4421

Founded: 1897 Standards Staff: 2

Type of Organization Trade Association
Standards Developer

Standards Development 244 members actively participate in the use of NCPA Trading Rules.

Scope Virtually all contracts between members and between members and non-members are subject to the provisions of the Trading Rules of the National Cottonseed Products Association.

Standardization Activities Trading Rules provide for handling, sampling, and analysis of cottonseed and cottonseed products and for handling normal variation in quality and in actual delivery weights. Trading rules, such as those for cottonseed oil trading rules, relate final compensation to yield or out-turn of refined oil from the crude oil.

Availability Distributed directly

Keywords cottonseed; edible oil; food; agriculture;

NATIONAL COUNCIL ON RADIATION PROTECTION AND MEASUREMENTS

J. Spahn, Staff Assistant

7910 Woodmont Avenue
Suite 1016
Bethesda, Maryland 20814
(301) 657-2652

Founded: 1964

**Type of
Organization**

Scientific Society
Standards Developer

**Standards
Development**

Recommendations developed since 1928
75 published reports which contain recommendations

Scope

A nonprofit corporation which seeks to promulgate information and recommendations based on leading scientific judgment on matters of radiation protection and measurement and to foster cooperation among organizations concerned with these matters.

**Standardization
Activities**

Collects, analyzes, develops, and disseminates in the public interest information and recommendations about protection against radiation and radiation measurements, quantities, and units, particularly those concerned with radiation protection. Provides a means by which organizations concerned with scientific and related aspects of radiation protection and of radiation quantities, units, and measurements may cooperate for effective utilization of their combined resources. Develops basic concepts about radiation quantities, units, and measurements about the application of these concepts and about radiation protection. Cooperates with the International Commission on Radiological Protection, the International Commission on Radiation Units and Measurements, and other national and international organizations, governmental and private.

Maintains seventy-seven Scientific Committees to draft proposed recommendations.

Availability

Distributed directly

Formerly

National Committee on Radiation Protection and Measurement
Advisory Committee on X-Ray and Radium Protection

Keywords

radiation protection; radiation measurement;
environmental; safety;

NATIONAL DIMENSION MANUFACTURERS ASSOCIATION

Steven V. Losser, Executive Director

1000 Johnson Ferry Road
Suite A-130
Marietta, Georgia 30068
(404) 565-6660

Founded: 1929

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Standards Developer since 1929
All members participate in standards development

**Standards
Designation**

NDMA

Scope

Objectives are to establish and maintain the rules and standards for the industry; conduct and stimulate trade promotion activities for the industry; and to hold educational plant tours and meetings that promote exchange of manufacturing techniques and ideas in the industry among its members.

**Standardization
Activities**

Cooperates with all lumber, furniture, cabinet and related wood using manufacturers/associations in bringing about standardization programs on grading rules for wood component products. Publishes the "NDMA Rules and Specifications for Dimension and Woodwork." These Rules are recognized by the National Hardwood Lumber Association, and are considered international in scope.

Formerly

Hardwood Dimension Manufacturers Association

Availability

Sold directly

Keywords

wood products; trim; stairs; furniture; cabinetry;
woodwork; moulding; inspection;

NATIONAL EASTER SEAL SOCIETY

John Garrison, President

70 East Lake Avenue
Chicago, Illinois 60601
(312) 726-6200

Founded: 1919

**Type of
Organization**

Technical Society
Works through other organizations to develop standards

Representation

ANSI, CARF, ACA, ASHA, JCAH, ACDD, NHC, BBB, and NCIB

Scope

Represents 160 state and local affiliates serving persons with disabilities. Programs include legislative advocacy and the maintenance of standards

for programs in occupational, physical and speech therapy, recreation, and other rehabilitation services.

**Standardization
Activities**

Works to develop standards which ensure effective and efficient treatment and services for persons with disabilities as well as their integration into the education, housing, employment, and other community services. Representatives serve on Boards of national accrediting organizations and the ANSI Secretariat for the Standard for making Buildings Accessible to the Physically Handicapped. Involves consumers, designers, code officials, manufacturers, and representatives of federal regulatory agencies in its activities. Promotes the ANSI specification for accessibility to ensure one uniform standard for reference in building codes, laws, and regulations.

Keywords

disabled; physically handicapped; accessibility; codes; buildings; public health; social welfare;

NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION

Charles H. Williams, Manager of Codes and Standards

7315 Wisconsin Avenue, 13th Floor
Bethesda, Maryland 20814
(301) 657-3110

Founded: 1901

**Type of
Organization**

Trade Association
Standards developer and works through other organizations to develop standards

**Standards
Development**

Developed and maintains workmanship standard

Representation

The Correlating Committee and all of the code making panels of the National Electrical Code Committee. Also represents electrical contractors for the development of the National Electrical Safety Code, which is concerned with electrical outdoor construction. Serves on standards committees of ANSI, IEEE, NFPA, UL, and others.

**Standards
Designation**

NECA Standard of Installation

Scope

A nationwide trade association representing the electrical contracting industry. Provides management services and labor relations programs. Sponsors research and educational programs; compiles statistics; conducts seminars.

Standardization Activities	Sets basic standards for electrical equipment and materials and methods of their installation. The NECA Technical Service maintains competent representation on interindustry and other standards agencies. NECA's Standard of Installation defines good workmanship and has been an authoritative guide to determine the "neat and workmanlike manner" requirements of the National Electrical Code. Prevents and reduces accidents by providing continuing information to its members on OSHA requirements.
Availability	Distributed directly
Keywords	electrical construction; energy management; lighting; power distribution; building; construction;

NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION

	Frank K. Kitzantides, Manager, Engineering Department
	2101 L Street, NW Washington, DC 20037 (202) 457-8479
	Telex: 904077 NEMA WSH FAX: (202) 457-8411
	Founded: 1926 Standards Staff: 14
Type of Organization	Trade Association Standards Developer
Standards Development	Standards developer since 1926 630 members participating in standards activities 170 current standards 20 standards recognized by ANSI 5 standards endorsed by EEMAC Draft standards distributed for user review
Standards Designation	NEMA Standard, Suggested Standard for Future Design, Authorized Engineering Information, Official Standards Proposal.
Government Adoption	Several standards have been adopted as federal standards.
Secretariats	28 ANSI committees dealing with electrical equipment IEC/TC 72/SC/2J, SC/15C, ISO/TC 184/SC 5
Scope	A trade association of manufacturers of equipment and apparatus used for the generation, transmission, distribution, and utilization of electric power. Membership comprises 630 electrical manufacturing companies in the United States. Membership is limited to domestic corporations, firms, and individuals

engaged in the manufacture or promotion of products included within 70 NEMA product subdivisions. Products include transformers, wire and cable, switchgear, industrial control and systems, lighting, building equipment, diagnostic imaging and therapy systems products and industrial automation equipment.

**Standardization
Activities**

Standards are designed and written to eliminate misunderstandings between manufacturers and users of electrical products and to provide for safety in the application of these products. Involves all interested parties in standards development and review. Cooperates with organizations such as the American Society for Testing and Materials, National Fire Protection Association, Underwriters Laboratories, the Institute of Electrical and Electronics Engineers, and others. Also cooperates with federal agencies.

Supports ANSI and has representation on standards committees and sponsors several of them. Also represented on ANSI Standards Boards and the Organizational Member Council. Participates in the International Electrotechnical Commission (IEC), the IEC System for Conformity Testing to Standards for Safety of Electrical Equipment (IECEE), and in the International Organization for Standardization (ISO).

NEMA also participates in the development of safety standards affecting electrical equipment. Cooperates with other branches of the industry in an effort to secure acceptance throughout the country of the National Electrical Code and the National Electrical Safety Code. Members also cooperate in an independent advisory capacity with the Underwriters Laboratories in the development of electrical safety standards.

Availability

Sold directly by NEMA and through IHS, American Technical Publishers Ltd., and Global

Formerly

Formed by merger of Electrical Power Club and Associated Manufacturers of Electrical Supplies (1926)

Keywords

electrical equipment; safety; machinery; medical equipment; industrial automation;

NATIONAL ELEVATOR INDUSTRY

Edward A. Donoghue, Manager-Codes and Safety

600 Third Avenue, 9th Floor
New York, New York 10016
(212) 730-2124

Founded: 1934

Standards Staff: 2

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Standards developer since late 1950's
100 members participating in Code and Standards
activities pertaining to elevators, escalators,
dumbwaiters, and moving walks
Two active standards
None processed through ANSI

**Standards
Designation**

Suggested Minimum Passenger Elevator Requirements for
the Handicapped
Vertical Transportation Standard (formerly Elevator
Engineering Standard Layouts)

**Government
Adoption**

Suggested Minimum Passenger Elevator Requirements for
the Handicapped has been adopted by numerous
jurisdictional authorities and model building codes.

Secretariats

U.S. TAG for ISO/TC 178, Lifts and Escalators

Scope

Promotes the interests of its members by acting as
representative in collective bargaining with the
International Union of Elevator Constructors and other
labor organizations; advancing sound engineering
practices within the industry in cooperation with
government agencies in activities related to elevator
codes and the installation, service, and maintenance of
elevators and related products; compiling and furn-
ishing statistical information, including figures on
accident reduction and employee safety.

Standardization Actively participates with code and standards
Activities organizations and enforcing authorities in developing,
maintaining, and applying safety codes and standards that pertain to eleva-
tors, dumbwaiters, escalators, and moving walks. Develops requirements for
the handicapped using vertical transportation, codes for personnel
elevators, personnel and material hoists, model building codes, electrical
codes, requirements for elevator fire doors, and metric codes.

Promotes the adoption of new state and local elevator
codes, revises existing elevator safety codes and
secures uniform interpretation of the Safety Code for
Elevators and Escalators ANSI/ASME A17.1.
Representatives of the NEII Central Code Committee are
members of ASME A17, NFPA 70, 80 and 101, BOCA, SBCC,
ICBO, and ASTM.

The Standards Committee is responsible for the
development of industry standards for elevators,
dumbwaiters, and escalators. The Vertical
Transportation Standard gives architects and building

owners standard dimensions from which they can produce building layouts.

The International Standards Committee coordinates the Activities of the U.S. Technical Advisory Group for ISO/TC 178 Lifts and Escalators.

Availability	Distributed directly
Formerly	National Elevator Manufacturers Industry (1969)
Keywords	elevators; escalators; dumbwaiters; moving walks; lifts; building; safety; physically handicapped;

NATIONAL ENVIRONMENTAL BALANCING BUREAU

William C. Abernathy, Co-Administrator

8224 Old Courthouse Road
Vienna, Virginia 22180
(703) 784-3840

Founded: 1971

Type of Organization	Trade Association Standards Developer
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Standards Development	3 procedural standards publications
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Government Adoption	Procedural Standards for Testing, Adjusting, and Balancing of Environmental Systems is referenced in Federal Guide Specifications.
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Certification	NEBB offers certification for firms that meet all requirements established for Performance of Air Systems, Performance of Hydronic Systems, and Sound and Vibration Measurement.
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Scope	A nonprofit organization sponsored by the Mechanical Contractors Association of America (MCAA) and Sheet Metal and Air Conditioning Contractors National Association (SMACNA).
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Standardization Activities	Works in conjunction with other organizations to develop industry procedural standards for testing, adjusting, and balancing (TAB) of environmental systems in buildings. Represented on the American Society for Heating, Refrigerating and Air conditioning Engineers (ASHRAE) 111 Committee, Testing, Adjusting, Balancing. Develops manuals that provide a comprehensive set of systematic procedures representing the state-of-the-art of TAB work. Manuals cover air/hydronic TAB and sound
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and vibration measurement procedures for environmental systems in buildings.

Availability

Distributed directly

Keywords

balancing; sound; vibration; air handling; hydronic systems; HVAC Systems; environmental systems; acoustics; building;

NATIONAL ENVIRONMENTAL HEALTH ASSOCIATION

Nelson Fabian, Executive Director

720 South Colorado Boulevard
Suite 970
Denver, Colorado 80222
(303) 756-9090

Founded: 1937

**Type of
Organization**

Professional Society
Standards Developer

Certification

Offers professional registration for environmental health and protection personnel either by reciprocity from a state or by examination. Also certifies environmental health technicians.

Scope

A national, nonprofit professional and educational organization for people who work in controlling environmental hazards for the betterment of human health and well being.

**Standardization
Activities**

Publishes a state-of-the-art manual for on-site wastewater management, a peer review journal, a trends report, and various model ordinances such as a model ordinance for the regulation and certification of swimming pool service companies, and swimming pool technicians and apprentices. Promotes educational and performance standards for environmental health practitioners.

Availability

Distributed directly

Keywords

public health; sanitation; environment;

NATIONAL FASTENER DISTRIBUTORS ASSOCIATION

Mary Ann Langholz, Executive Director

1348 Haddon Road
Columbus, Ohio 43209
(614) 237-0252

FAX: (614) 237-3898

Founded: 1968

**Type of
Organization**

Trade Association
Works through other organizations to develop standards

Representation

The Association is a member of ANSI, ASME, ASTM, the American National Metric Council, and the Industry Bar Code Alliance.

Scope

209 manufacturers and distributors in the fastener industry with members located in 41 states employing 18,000 people.

**Standardization
Activities**

An information gathering group that disseminates data to the proper standards committees. Writes specifications only if the situation cannot be handled by an existing standards developing organization. Currently developing a bar code standard

Keywords

fasteners; manufacturing;

NATIONAL FEDERATION OF ABSTRACTING AND INFORMATION SERVICES

John Schnepf, Chairman
Common Practices and Standards Committee

1429 Walnut Street
Philadelphia, Pennsylvania 19102
(215) 563-2406

FAX: (215) 563-2848

Founded: 1958

**Type of
Organization**

Technical Society
Works through other organizations to develop standards

Representation

65 members active in standardization activities including involvement in ANSC-Z39, ANSC-X3, ISO/TC 46, UNESCO's UNISIST Project, Federal Information Processing Standards (FIPS), AAP's Electronic Publishing Subcommittee, and others.

Scope

A nonprofit federation of organizations involved in abstracting and indexing services, operating information centers, or conducting research in information science. Improves the extent and quality

of the documentation and use of the world's literature through research programs, publications, and seminars. Concerned with developing communications, cooperation, and coordination among all segments of the information processing and dissemination community including primary publishers, libraries, commercial and industrial abstracting and indexing services, data analysis centers, information dissemination centers, and teachers and researchers in the field. Also serves as a communication forum for its members through meetings, workshops, committee activities, and publications.

Standardization Activities

Although NFAIS is not a standards-setting body, it works within the voluntary standards community to foster the development and use of standards relevant to its membership. Because NFAIS members are involved in various aspects of the processing and disseminating of information, their interest in standards ranges widely. Relevant standards may pertain directly to abstracting and indexing practices. Also of interest are standards dealing with information science, primary publishing, library work, data processing, and computer readable information transfer. Relevant standards may also arise from individual subject areas or disciplines with which the information deals, such as engineering, biology, philosophy, or art.

NFAIS, through its Common Practices and Standards Committee (CP&S), serves as a communications link between the voluntary standards-setting community and the information publishing and distribution community. The CP&S Committee coordinates the NFAIS response to ballots or requests for comments pertaining to draft standards. This is accomplished by polling the NFAIS membership and, in some cases, by resolving minority votes on specific standards. By the same mechanism, NFAIS recommends and votes on qualified individuals to run for office or to serve on committees in standards-setting bodies.

Further, NFAIS encourages the active participation of its members on standards-setting bodies. Through its members and officers, NFAIS plays a role in the work of such standards setting bodies as: ANSI Committees X3-Information Processing and Z39-Library and Information Sciences and Related Publishing Practices; ISO Committees TC 46-Documentation and TC97-Computers and Information Processing; UNESCO through its UNISIST and ISDS (International Serials Data System) agencies; IFLA (International Federation of Library Associations); ICSU-AB (International Council of Scientific Unions - Abstracting Board); FIPS; and the AAP Electronic Publishing Subcommittee.

In addition to its support for the development of voluntary standards, NFAIS also encourages the general adoption of those standards considered most applicable and useful to the information processing and distribution community. Periodically, NFAIS surveys the implementation of standards by its members in order to determine which standards are being used and the ways in which they are used. Such surveys also provide information on the common practices and the de facto standards of members which may be candidates for formal standardization.

Formerly National Federation of Science Abstracting and Indexing Service (NFAIS), 1972.

Keywords abstracting; indexing; information services; on-line searching; bibliographic data bases; information processing; communications;

NATIONAL FEDERATION OF STATE HIGH SCHOOL ASSOCIATIONS

Bruce B. Durbin, Executive Director

11724 Plaza Circle
Kansas City, Missouri 64153
(816) 464-5400

Founded: 1920

Type of Organization Academic Federation
Standards Developer

Standards Development Prepares rules and standards for 13 interscholastic sports.

Scope Represents 20,000 high schools and 10 million secondary school students, primarily to secure proper adherence to the rules of various state high school associations during interstate competition. Establishes standards for sanctioning domestic athletic events.

Standardization Activities Publishes and distributes playing rules for domestic competition in interscholastic sports: baseball, basketball, football, gymnastics, soccer, swimming and diving, track and field, volleyball, ice hockey, wrestling, field hockey. Sixty-six rules related publications are published including 28 rule books and 13 rule examinations. Provides national interpretation of the rules and advocates safety standards which are incorporated in the rule publications.

Availability Distributed directly

Formerly National Federation of State High School Athletic Associations (1970)

Keywords athletic competition; sports; safety; recreation;

NATIONAL FERTILIZER SOLUTIONS ASSOCIATION

James B. Boillot, Executive Vice President

339 Constor Drive
Manchester, Missouri 63011
(314) 256-4900

Founded: 1955 Standards Staff: 1

Type of Organization Trade Association
Standards Developer

Standards Development Standards developer since 1974
4 active standards, all processed through ANSI

Scope A national trade association representing the fluid fertilizer industry worldwide. Consists of 950 member companies in the United States and 16 foreign countries including retail fertilizer dealerships, fertilizer manufacturers, equipment manufacturers, and distributor/jobbers. Serves its membership through support programs in research, technical services, education, legislative action, public relations, and publication services.

Standardization Activities Develops guidelines for regulatory authorities writing their own regulations. Assists individuals working with equipment and materials covered by the standards.

Availability Sold directly and through ANSI

Keywords fertilizer; nitrogen; phosphoric acid; storage; safety; agriculture;

NATIONAL FIRE PROTECTION ASSOCIATION

Arthur E. Cote, Assistant Vice President
and Chief Engineer

Batterymarch Park
Quincy, Massachusetts 02269
(617) 770-3000 Telex: 200250
FAX: (617) 770-0200

Founded: 1896 Standards Staff: 30

Type of Organization	Technical and Educational Organization Standards Developer
Standards Development	Standards developer since 1896. 3,000 individuals serve on 200 NFPA Technical Committees which develop new standards and continually monitor existing documents. National Fire Codes, 1989 Edition, includes 270 fire protection, prevention and suppression codes, standards, recommended practices, guides, and manuals. Approximately 200 NFPA documents are ANSI standards Draft documents and revisions are published for public review and comment
Standards Designation	NFPA prefix
Government Adoption	NFPA documents are referenced by the Occupational Safety and Health Act (OSHA); adopted by Congress for recipients of Medicare and Medicaid; and adopted by Coast Guard; Departments of Veterans Affairs, Health and Human Services, and Housing and Urban Development.
Certification	Administers Certificated Marine Chemist program
Secretariats	Conference of Fire Protection Associations (international) Joint Council of National Fire Service Organizations (U.S.)
Scope	An independent, nonprofit organization with approximately 50,000 individual members and 150 national trade and professional association members worldwide. Activities are technical and educational in nature. Gathers and analyzes fire statistics; performs on-site investigation of significant fires; works on anti-arson projects; and operates five Field Services -- Electrical, Flammable Liquids, Gases, Marine, and Safety to Life. National sponsor of Fire Prevention Week.
Standardization Activities	Active Standards Council which administers standardization activities of 200 technical committees. Standards widely used as the basis of legislation and regulation at all levels of government; many referenced by the federal government and used by insurance authorities for risk evaluation and premium rating.
Availability	Distributed directly and through NSA, IHS, and Global
Keywords	fire prevention; fire protection; fire code; safety;

NATIONAL FIRE SPRINKLER ASSOCIATION, INC.

John A. Viniello, President

P.O. Box 1000
Patterson, New York 12563
(914) 878-4200

Founded: 1914

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

64 representatives and 54 committees active in standards development.

Scope

A national trade association of fire sprinkler manufacturers and installers. Advances the art of automatic control of fire through automatic sprinklers, and the conservation of life and property from fire.

**Standardization
Activities**

Cooperates with national technical bodies in the preparation of standards and fire protection sections of building codes and ordinances. Sets standards for design, installation, inspection, and maintenance of automatic sprinklers.

Cooperates with the American Insurance Association, Insurance Services Office, Underwriters Laboratories (UL), and Factory Mutual Engineering and Research in the formulation of standards, specifications, and regulations for fire apparatus and their use.

Officially represented on sectional committees functioning under the procedure of the American National Standards Institute (ANSI) engaged in the development and revision of code for pressure piping, pipe threads, and pipe flanges and fittings.

The NFSA is a member of the Southern Building Code Congress, the International Conference of Building Officials, and Code Administrators International. Maintains consistency between codes and standards and coordinates the industry's activities in the model code field with those in the standard making bodies, including National Fire Protection Association, American Society for Testing and Materials, American National Standards Institute, Underwriters Laboratories, Factory Mutual System, and others.

Formerly

National Automatic Sprinkler and Fire Control Association

Availability

Distributed directly

Keywords fire protection; safety; sprinkler;

NATIONAL FISHERIES INSTITUTE

Roy Martin, Vice President of Science and Technology

2000 M Street, NW
Suite 580
Washington, DC 20036
(202) 295-5170

Founded: 1945

Type of Organization Trade Association
Works through other organizations to develop standards

Scope A national trade association that represents U.S. companies engaged in seafood processing, shipping, and distribution.

Standardization Activities Works with Department of Commerce, National Marine Fisheries Service to assist in their development of standards.

Keywords fish; seafood; marine resources; food;

NATIONAL FLUID POWER ASSOCIATION

Shirley C. Seal, Manager of Standards Development
Industry/National

3333 North Mayfair Road
Suite 311
Milwaukee, Wisconsin 53222
(414) 778-3344 FAX: (414) 778-3361

Founded: 1953 Standards Staff: 3

Type of Organization Trade Association
Standards Developer

Standards Development Standards developer since 1953
380 members participating in standards activities
160 active standards
105 promulgated through ANSI

Standards Designation NFPA Recommended Standards, and ANSI/B93.x

Certification None.

Secretariats	ANSI/B93, Fluid Power Systems and Products ISO/TC 131, Fluid Power Systems
Scope	A nonprofit trade association serving manufacturers of fluid power (hydraulic and pneumatic) products with 180 corporate members nationwide.
Standardization Activities	Standards activities account for half of the total association programs. Administered through a technical board, under which are organized 16 committees and 150 project groups. Standards cover dimensions, specifications, methods of testing or rating, terminology, symbols, and procedures for systems, as well as individual components, including fluid power cylinders, valves, pumps, motors, sealing devices, conductors, fittings, filters, fluids, servovalves, accumulators, and pneumatic logic devices. Solicits technical input from all affected interests. Committees and staff participate in standards programs of ANSI, SAE, ASME, ASTM, ISA, and ASLE. Currently developing a certification program for pressure and fatigue rating of fluid power components.
Availability	Sold directly and through ANSI, Global, and IHS
Keywords	fluid power; hydraulic; pneumatic; valves; pumps; seals; fittings; machinery; industrial equipment;

NATIONAL FOOD PROCESSORS ASSOCIATION

	John R. Cady, President 1401 New York Avenue, NW Suite 400 Washington, DC 20005 (202) 639-5900 Founded: 1907
Type of Organization	Trade Association Works through other organizations to develop standards
Scope	A national trade association established to help members maintain and improve product quality. Operates research laboratories in Washington, DC; Berkeley, CA; and Seattle, WA. Represents 600 member companies which pack processed-prepared fruits, vegetables, meats, fish and specialty products, including canned, frozen, dehydrated, and other processed food products. Also includes companies that provide equipment, supplies, and services to food processors.

Standardization Activities	Maintains liaison with the National Conference on Weights and Measures for the purpose of developing constructive and uniform laws and regulations on the state level. Also maintains liaison with the U.S. Technical Advisory Group and delegates to meetings of ISO/TC 52 and its subcommittees on international standards for metal cans for food.
Formerly	National Canners Association
Keywords	food processing; food; packaging; food safety; food labeling; pesticide use;

NATIONAL FOREST PRODUCTS ASSOCIATION

Barry Cullen, President

1250 Connecticut Avenue, NW
Washington, DC 20036
(202) 463-2765

Founded: 1902

Standards Staff: 5

Type of Organization	Trade Association Standards Developer
Standards Development	Active in 27 committees 22 active standards and guides
Government Adoption	Specifications adopted by the Departments of Housing and Urban Development and Veterans Affairs; Farmers Home Administration, Department of Defense, General Services Administration, Department of Health and Human Services, and the Council of American Building Officials.
Scope	Forest product manufacturers and federation of 30 North American forest industry associations. Represents the industry on national issues concerning timber growth and product manufacture.
Standardization Activities	<p>Develops and distributes 6 recommended specifications and standards for the use of lumber and wood products and 16 general construction data guides. Serves on standards committees of ANSI, ASTM, and the National Fire Protection Association.</p> <p>Standards activity includes development of wood structural design data, design values for wood construction, span tables for joists and rafters, the design of wood frame structures, and permanent wood foundations.</p>

Availability	Sold or distributed directly
Formerly	National Lumber Manufacturers Association (1965)
Keywords	wood; lumber; construction; building;

NATIONAL HARDWOOD LUMBER ASSOCIATION

Ernest J. Stebbins, Executive Manager

Box 34518
Memphis, Tennessee 38134-0518
(901) 377-1818

Founded: 1898

Type of Organization	Trade Association Standards Developer
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Standards Designations	NHLA prefix
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Certification	The association maintains qualified inspectors in the principal hardwood markets and producing districts of the United States and Canada who are authorized to issue certificates of inspection of hardwood lumber and cypress, the correctness of the grades and measurements shown on the certificate being guaranteed by the financial resources of the association. This official inspection service is available to the members and nonmembers on federal, state or local government contracts. Extensive use of this service has been made by the U.S. Defense Supply Agency.
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Scope	United States and Canadian hardwood lumber and veneer manufacturers, distributors, and consumers. Inspects measures, and certifies hardwood lumber.
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Standardization Activities	One of the principal functions is the maintenance of standards for the grading of hardwood lumber, and an inspection staff for the official application of the standards.
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Issues biennially a new edition of the Rules for the Measurement and Inspection of Hardwood Lumber, Cypress, and Thin Lumber. NHLA's grade rules are recognized as standard throughout the world.

Maintains a school in Memphis, Tennessee for training hardwood inspectors.

Availability	Distributed directly
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Keywords wood products; lumber; inspection; grading rules; building;

NATIONAL INFORMATION STANDARDS ORGANIZATION

Patricia Harris, Executive Director

Post Office Box 1056
Bethesda, Maryland 20827
(301) 975-2814

Telex: 197674 NIST UT
FAX: (301) 975-2128

Founded: 1939

Standards Staff: 3

**Type of
Organization**

Professional Association
Standards Developer

**Standards
Development**

500 members serve on NISO standards committees
More than 50 published standards

**Standards
Designation**

Z39

**Government
Adoption**

Some NISO-developed standards have been adopted by DoD
or as FIPS standards.

Secretariats

ISO/TC, 46/SC 4 Automation in Documentation and
Information

Scope

A professional association which develops technical
standards used in libraries, information services and
systems, and publishing.

**Standardization
Activities**

NISO standards address the communication needs of
information services, libraries, publishing, and the
book trade in such areas as: communication formats and
information transfer, transliteration, preservation of
materials, forms and records, identification systems,
publication formats, and library equipment and
supplies. NISO is designated by ANSI as the U.S. TAG
to ISO/TC 46 Computer Applications in Information and
Documentation.

Availability

Distributed by Transaction Publishers; draft standards
available directly from NISO

Keywords

library; publishing; information services; books;
communications;

NATIONAL INSTITUTE OF BUILDING SCIENCES

David A. Harris, President

1201 L Street, NW
Washington, DC 20005
(202) 289-7800

Founded: 1978 Standards Staff: 25

**Type of
Organization**

Scientific Society
Standards Developer

Secretariats

Building Seismic Safety Council
Building Thermal Envelope Coordinating Council
Wood Protection Council

Scope

Congressionally authorized, nonprofit, nongovernmental scientific/technical institution. Functions and responsibilities relate to building regulations in the following four areas: (1) development, promulgation, and maintenance of nationally recognized performance criteria, standards, and other technical provisions for maintenance of life, safety, health, and public welfare suitable for adoption by building regulating jurisdictions and agencies, including test methods and other evaluative techniques relating to building systems, subsystems, components, products, and materials with due regard for consumer problems; (2) evaluation and prequalification of existing and new building technology; (3) conduct investigations in direct support of building regulations and evaluation of new technology; and (4) assembly, storage, and dissemination of technical data and other information directly related to the preceding areas.

**Standardization
Activities**

Improves the regulatory environment and facilitates the introduction of new and existing products and technology into the building process. Advises both the public and private sectors of the economy with respect to the use of building science and technology in achieving nationally acceptable standards and other technical provisions for use in federal, state, and local housing and building regulations. Publications and services are available to all those who procure, design, construct, use, operate, maintain, and retire physical facilities. Services of the Institute are also useful to other public and private organizations which perform related research and other tasks on which building standards and regulations are based.

The members of the Institute elect a 36-member Consultative Council which provides a direct line of communications with all appropriate trade, professional

and labor organizations, private and public standards, code and testing bodies, public regulatory agencies and consumer groups. The Council is responsible for overseeing the consensus procedures and conduct of consensus activities of the Institute.

Using Compact Disc-Read Only Memory (CD-ROM) technology, the Institute publishes the Construction Criteria Base (CCB). The CCB contains guide specifications, design and construction criteria and standards developed and used by various federal construction agencies. Many of the public and private standards referenced in the guide specifications, including model codes, are contained in the CCB which is available on a subscription basis.

Availability	Distributed directly
Keywords	housing; building; performance criteria; technology; regulations; guide specifications;

NATIONAL INSTITUTE OF INFANT SERVICES

John A. Shiffert, Executive Director

Diaper Service Accreditation Council
2017 Walnut Street
Philadelphia, Pennsylvania 19103
(215) 569-3650

Founded: 1938

Type of Organization	Scientific Society Standards Developer
Certification	Sponsors an autonomous professional Diaper Service Accreditation Council which has promulgated standards for plant sanitation, customer service, and marketing practice. The council accredits diaper service applicants who go through self-evaluation and inspection by an independent site committee for evaluation against the standards. Accredited members must maintain all standards as they may be changed in annual review by the council.
Scope	Conducts research into the requirements of diaper processing to meet the sensitivity of infant skin.
Standardization Activities	Standards are established through a process by which an independent accredited medical laboratory under the supervision of a clinical pathologist conducts microbiological and patch test studies on infants to establish standards. The laboratory then devises

testing procedures by which random sample diapers can be tested routinely against the prescribed standards.

Standards are raised from time to time as new knowledge is revealed by the continuing research program. The diaper test now include five major areas: (1) a sanitary score, awarded on the basis of microorganisms found on the sample; (2) a pH test by the calorimetric procedure, to show that the sample meets the acceptable range of 4.5 to 6.5; (3) evidence of impregnation of the sample with an EPA-approved bacteriostat; (4) a softness test with freedom from stiffness or spilling; and (5) an absorbency test so that water added drop by drop enters the fabric immediately. A diaper service must meet these standards in order to establish qualification and maintain membership.

Availability	Distributed directly
Formerly	Merger of the Diaper Service Industry Association and the National Institute of Diaper Services (1971)
Keywords	infant service; public health; consumer products;

NATIONAL INSTITUTE OF OILSEED PRODUCTS

Janet M. Esary, Executive Secretary

2600 Garden Road
Suite 208
Monterey, California 93940
(408) 649-1204

Founded: 1934

Type of Organization	Trade Association Standards Developer
Certification	Chemists Certification Program requires annual successful completion of the American Oil Chemists' Society Smalley Check Sample Series.
Scope	A nonprofit organization devoted to promoting the vegetable oils and vegetable oil products industry. Informs members of the uses and economic conditions affecting vegetable oil products -- their manufacture, distribution, and sale.
Standardization Activities	Maintains and publishes annually, uniform trading rules containing standard terms and conditions for which the products may be traded. These rules cover product grade and quality specifications, quantity specifications, sampling and chemical analysis

procedures, adjustments and settlement of disputes by arbitration.

Cooperates with the International Association of Seed Crushers (Europe), Philippine Coconut Oil Producers Association, Philippine Copra Exporters Association, and the U.S. Department of Agriculture in efforts to improve product quality and establish higher standards of trade practices, which are then incorporated in the rules.

Availability Distributed directly

Keywords oil seed; vegetable oil; food; agriculture;

NATIONAL KEROSENE HEATER ASSOCIATION

Diane G. Thorne, Administrative Director

First American Center, #15
Nashville, Tennessee 37238
(615) 254-1961

Founded: 1981

Type of Organization Trade Association
Standards Developer

Standards Development 2 active standards

Certification A certification seal program has been developed that requires listing to Underwriters Laboratories Standard 647 and compliance with additional standards developed by the NKHA.

Scope A not-for-profit association of 80 member firms dedicated to consumer education and high product standards. It establishes and updates technical, labelling, and safety standards.

To be a "Regular" member, a firm must be "engaged in manufacturing, trading, and/or national or international marketing of kerosene heaters or kerosene which meets the minimum safety standards established by the Association." Their kerosene heaters must also be in compliance with UL 647 - Standard for Unvented Kerosene-Fired Room Heaters and Portable Heaters.

Association programs include ongoing public affairs programs to educate and assist lawmakers, fire and safety agencies, other public officials, and the general public on the benefits and safe use of kerosene

heaters. The Association updates members on regulatory issues, industry trends, technological advances, and safety matters.

**Standardization
Activities**

Kerosene heaters manufactured or sold by NKHA members must meet minimum safety standards adopted by the NKHA Board of Directors.

The NKHA Standards and Technical Committee reviews safety standards and testing procedures and evaluates worldwide technical developments and data related to kerosene heaters. Only those heaters incorporating advanced technology and state-of-the-art safety features conform to NKHA standards.

The Association campaigns for comprehensive product safety standards and legislation and has recommended more stringent standards in evaluating the safety of kerosene heaters.

Currently two standards are in effect: Standard for Marking of Portable Kerosene Heaters, and Standard for Marking of Kerosene Containers.

Availability

Distributed directly

Keywords

heating; energy; safety; consumer products;

NATIONAL LEAGUE FOR NURSING

Mary F. Liston, Ed.D., Acting Executive Director

10 Columbus Circle
New York, New York 10019
(212) 582-1022

Founded: 1952

**Type of
Organization**

Professional Society
Standards Developer

**Government
Adoption**

The National League for Nursing is officially recognized as the national accrediting agency for nursing education by the U.S. Department of Education.

Scope

Individuals in nursing and other health professions, nursing educational institutions, hospitals, home and community health agencies, and providers of nursing and other health care services. Works to assess nursing needs, improve organized nursing services and nursing education, and foster collaboration between nursing and other health and community services. Develops and promotes criteria for self-evaluation of hospital and

other institutional nursing services.

**Standardization
Activities**

Develops and improves the standards of quality nursing education, nursing service, and health care delivery in the United States. Administers accreditation of educational programs in nursing. Officially recognized as the national accrediting agency for nursing education by the Council on Postsecondary Accreditation (COPA) and by the U.S. Department of Education.

Criteria for educational programs are developed and approved by nurse educators and address the program's organization, administration, students, faculty, curriculum, resources, facilities, and services. Standards for community and home health agencies, approved by leaders in the field of community health, address community assessment, organization and administration, program, staff, evaluation, and future plans.

Availability

Distributed directly

Formerly

American Society of Superintendents of Training Schools for Nurses (1893)
National League of Nursing Education (1912)
National Organization of Public Health Nursing and the Association of Collegiate Schools of Nursing (1952)

Keywords

nursing; public health; education;

NATIONAL LIME ASSOCIATION

Kenneth A. Gutschick, Technical Director

3601 North Fairfax Drive
Arlington, Virginia 22201
(703) 243-5463 FAX: (703) 243-5489

Founded: 1902

**Type of
Organization**

Trade Association
Work through other organizations to develop standards

Representation

Active in ASTM, AWWA, and other organizations in developing standards

Secretariats

ASTM C7 on Lime; ASTM C12 on mortar; AWWA lime specification committee

Scope

An association of commercial producers of quicklime and hydrated lime. Members provide about 85% of the commercial lime used in the United States - for steelmaking; water, sewage and waste treatment; sulfur

dioxide removal from flue gasses; industrial chemicals; stabilization for road and airfield construction; mortar and plaster, etc.

**Standardization
Activities**

Engages in committee work with American Society for Testing and Materials, American National Standards Institute, American Road and Transportation Builders Association, American Water Works Association, Air Pollution Control Association, Construction Specifications Institute, etc., in standards related to lime. Instrumental in working to develop specifications which will be reasonable and helpful to the hundreds of users of lime and lime products.

Publications include guidelines for using lime for Water Supply and Treatment; Lime Handling, Application & Storage in Treatment Processes; Lime Stabilization Construction Manual; Flexible Pavement Design Guide; Effective Use of Lime in Asphalt; Specifications for Lime and Its Uses in Plastering Stucco, Unit Masonry, and Concrete; Map of Commercial Lime Producers.

Keywords

lime; calcium oxide; calcium hydroxide; magnesium oxide; magnesium hydroxide; burnt lime; quick lime; hydrated lime; high calcium lime; dolomitic lime; mortar; soil stabilization; flue gas desulfurization; neutralization;

NATIONAL LUBRICATING GREASE INSTITUTE

Duane J. Fike, General Manager

4635 Wyandotte Street
Kansas City, Missouri 63112
(816) 931-9480 FAX: (816) 753-5026

Founded: 1933

**Type of
Organization**

Trade Association/Technical Society
Standards Developer

**Standards
Development**

200 members active in standards development

**Standards
Designation**

NLGI

Certification

NLGI Reference Systems available for use as research tools in the development and evaluation of lubricating grease formulations.

Scope

A technical society whose objectives are the development of better lubricating greases for the

consumer and better grease lubricating engineering service to the industry. Collects and disseminates technical data.

**Standardization
Activities**

Develops standards within ASTM and Recommended Practices with SAE. Also maintains liaison with other groups including API, STLG, Independent Lubricant Manufacturers Association (ILMA), National Petroleum Refiners Association (NPRA), and Petroleum Packaging Committee (PPC). Maintains Technical Committee charged with developing data pertinent to the manufacture, standardization, and application of industry products. Works with ISO to develop standardized definitions. Developed NLGI Chassis and Wheel Bearing Service Classification System. NLGI consistency numbers recognized worldwide as the measure of one important grease characteristic. Cooperates with various Government agencies including DoD, NIST, FTC, and ICC.

Availability

Distributed directly

Formerly

National Association of Lubricating Grease Manufacturers, Inc. (1936)

Keywords

greases; lubricants; petroleum products; consistency number; materials;

NATIONAL MARINE ELECTRONICS ASSOCIATION

Robert H. Sassaman, Executive Director

Post Office Box 50040
2756 Dauphin Island Parkway
Mobile, Alabama 36605
(205) 473-1793 FAX: (205) 473-1669

Founded: 1957

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Standards Committee composed of design engineers, representing manufacturers and service dealers of marine electronic communication and navigation equipment. Committee membership is on a voluntary basis and functions at the direction of the association Board of Directors.

**Standards
Designation**

NMEA 0180, NMEA 0182, NMEA 0183

Representation

IEC/TC 80/WG 6

Scope	A nonprofit trade association of companies involved in the manufacture, distribution, sales and service of ship-board marine electronic devices for communications, navigation, automation and acoustics. Aims to distribute industry information, contribute to U.S. and international rules and regulations and provide leadership to improve quality of industry.
Standardization Activities	Beginning in 1980, established standard interface formats for transmission of data communications between marine electronic equipments to eliminate incompatibility among manufacturers and facilitate the ability of sellers and purchasers to interchange devices regardless of brands. Standards in use throughout the worlds by voluntary application. In 1988, a working group (WG 6) was established by TC 80 of the IEC to produce a draft standard for digital interface for navigation equipment within a ship. NMEA, working through ANSI, is now the technical committee representing the United States. With the NMEA 0183 Standard as a basis, a final standard will be adopted as an official international standard.
Availability	Distributed directly
Keywords	marine electronics; navigation; data transmission; telecommunications;

NATIONAL MODEL RAILROAD ASSOCIATION

	Deborah Z. Millard, Office Manager
	4121 Cromwell Road Chattanooga, Tennessee 37421 (615) 892-2846
	Founded: 1935
Type of Organization	Service Organization Standards Developer
Standards Development	Has developed standards since 1936
Standards Designation	NMRA Standards NMRA Recommended Practices
Certification	Grants an NMRA Conformance Warrant to products conforming to NMRA standards.
Scope	Advances the hobby of scale model railroading through the development, adoption, and regulation of standards; promotes cooperation and understanding between

producers and users of hobby materials; and increases opportunities for fellowship among model railroaders. Membership comprises about 27,000 persons active in the field in the United States and throughout the world.

**Standardization
Activities**

Establishes and maintains design standards for the manufacture of components for use in the hobby. These are intended to insure interchange between items produced by various sources and to improve performance. Adopted in 1936, specifications have been followed continuously by producers of scale railroad models and parts since that time, including refinements as the state of the art progressed.

Standards define track and wheel relationships, electrical power specifications, and clearance dimensions between rolling stock and trackside structures. NMRA recommended practices cover desirable characteristics other than those necessary for physical interchange and are intended to enable manufacturers to improve their product in a manner most suited to the user's needs. A General Engineering Committee is charged with responsibility for development of standards and recommended practices, and a separate Conformance-Inspection Committee checks manufactured products for compliance. Items meeting the standards and specifications are granted an NMRA Conformance Warrant which may be used in advertising as long as continued compliance is indicated by repeat inspections.

Availability

Distributed directly

Keywords

scale models; railroads; hobby; recreation;

NATIONAL OAK FLOORING MANUFACTURERS ASSOCIATION

Walter Whitley, Executive Vice President

22 North Front Street

660 Falls Building

Post Office Box 3009

Memphis, Tennessee 38103

(901) 526-5016

FAX: (901) 526-5016

Founded: 1909

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Standards developer since 1920

Standards Designation	Official Floor Grading Rules; OFI/NOFMA
Certification	Members whose products comply may use NOFMA/OFI trademark.
Scope	Manufacturers of hardwood flooring. Promotes standardization; conducts grade labeling and inspection services; maintains research program in grading, handling, packaging, and installation. Compiles statistics and sponsors installation school. An affiliate of the National Forest Products Association. Works with the VA, FHA, and other Government agencies dealing with housing, also the National Association of Home Builders, and the National Lumber and Building Material Dealers Association.
Standardization Activities	Standardization and simplification activities carried on by its Grading, Milling, and Inspection Committee. Adopted official rules on oak, birch, beech, hard maple, and pecan flooring which cover in detail the grades and sizes of quartered and plain sawn stock. Cooperates with the federal government in the formulation of the federal specification for hardwood flooring (Lumber and Timber: Hardwood, MM-L-736C), which includes references to the grading rules of the association. Maintains rigid supervision of species, manufacturing, kiln drying, bundling, and other features pertaining to oak, birch, beech, and hard maple so that sizes and grades will be maintained. Use of the association's registered trademark "NOFMA" has been granted to members whose stock of oak flooring has been found to comply with the association's official grading rules. Maintains a reinspection service available to retail dealers who purchase products of member companies in the event there is doubt concerning the quality of stock purchased.
Availability	Sold directly
Formerly	Oak Flooring Manufacturers of United States (1930) Southern Oak Flooring Industries (1933)
Keywords	oak; grading rules; inspection; flooring; wood floors; lumber; building; wood products;

NATIONAL OFFICE PRODUCTS ASSOCIATION

Martha H. Wahoski, Director
Industry Information Systems

301 North Fairfax Street
Alexandria, Virginia 22314-2696
(703) 549-9040 or (800) 542-6672/(800) 642-6672 in VA

Founded: 1904

Standards Staff: 33

Type of Organization Trade Association
Standards Developer

Representation ANSI X12, FACT

Scope A national trade association of companies involved in the manufacturing, distribution and sale of office products and office furniture.

Standardization Activities Focuses on standards involved with the implementation of business automation technologies. Provides publications on standards dealing with bar code technology and business documents such as Universal Product Code, Interleaved 2 of 5, Furniture Industry Bar Code Standard and Electronic Data Interchange.

Keywords office supplies; office furniture; office equipment;

NATIONAL OILSEED PROCESSORS ASSOCIATION

Sheldon J. Hauck, President

1255 23rd Street, NW
Washington, DC 20037
(202) 452-8040

FAX: (202) 833-3636

Founded: 1930

Type of Organization Trade Association
Standards Developer

Certification Provides certification for Official Weighmasters; Automatic Sampler Installation at Vessel Loading Facilities; and Automatic Sampler Installation at Barge Loading Transfer Facilities.

Scope Fourteen regular member firms engaged in the actual processing of oilseeds; 22 associate member firms who are consumers of vegetable oil or oilseed meal, including some refiners and mixed feed manufacturers. Promote the domestic and international marketing of all types of oilseed products through development of equitable trading rules for buyers and sellers of such products; foster intense research activity aimed at improving and increasing yields and productivity of oilseed crops; promote the sale of oilseed products internationally; and educate domestic and international consumers to the benefits of utilizing oilseed products.

Standardization Activities Adopts standard specifications for crude, domestic soybean oil covering quality, grade, and methods of

analysis. Establishes recommended soybean oil and meal trading rules. Helps establish product definitions for the formula feed industry.

Availability Sold directly

Keywords soybean meal; soybean oil; agriculture;

NATIONAL OPERATING COMMITTEE FOR STANDARDS IN ATHLETIC EQUIPMENT

Glen Meredith, Executive Director

11724 Plaza Circle
Kansas City, Missouri 64153
(816) 464-5470

Type of Organization Trade Association
Standards Developer

Scope Trade association of secondary school athletics administrators.

Standardization Activities Develops, publishes and distributes standards for athletic equipment used by secondary school students.

Keywords athletic equipment; sports; safety;

NATIONAL PARTICLEBOARD ASSOCIATION

William H. McCredie, Executive Vice President

18928 Premiere Court
Gaithersburg, Maryland 20879
(301) 670-0604

Founded: 1960

Type of Organization Trade Association
Standards Developer

Standards Development Active Standards:
4 active standards
2 ANSI standards

Standards Designation NPA or ANSI prefixes

Government Adoption The U.S. Department of Housing and Urban Development references 2 standards.

Certification Certification of products for particleboard and medium density fiberboard producers.

Secretariats	ANSI A 208, standards developed by the canvass method
Scope	Represents manufacturers of particleboard and medium density fiberboard to governmental agencies, sponsors voluntary standards development activities, compiles industry statistics, coordinates product and application research, and publishes technical and promotional literature.
Standardization Activities	Eighteen member companies and 40 non-NPA companies, agencies, and interested parties participate in standards activities. NPA currently sponsors four industry standards: ANSI A208.1-1989 Wood Particleboard; ANSI A208.2-1986 Medium Density Fiberboard For Interior Use; NPA 9-87 Voluntary Standard for Formaldehyde Emission From Medium Density Fiberboard (MDF); NPA 1-82 Standard for particleboard Mobile Home Decking.
Availability	Sold directly and through ANSI
Keywords	particleboard; fiberboard; formaldehyde; wood products; wood panels

NATIONAL PEST CONTROL ASSOCIATION

George Rambo, Director of Research, Education & Technical Resources

8100 Oak Street
Dunn Loring, Virginia 22027
(703) 573-8330

Founded: 1933

Type of Organization	Trade Association Works through other organizations to develop standards
Representation	ASTM, NIBS, DOD, HOD, USDA
Scope	Represents the urban pest control industry in the United States. Member firms engage in control of insect, weed, and certain vertebrate pests. These pests left to multiply in urban or suburban centers would damage stored food, wood based dwellings, or actively transmit organisms that result in fatal or debilitating human disease. Although NPCA has many international members its major function is to represent domestic urban pest control interests.
Standardization Activities	Publishes specific guidelines such as Statements of Good Practice and various reference procedures that are developed by technical and/or management committees and formally approved in some cases by vote of the entire

membership or by vote of its executive management board. NPCA works actively on ASTM committee E-35 and D225 and committees of the National Institute of Building Sciences, particularly Indoor Air Quality. Both organizations promulgate standards that involve aspects of urban pest management.

Keywords pest control; vector control; insect control; rodent control; structural protection; subterranean termite control; indoor air quality; public health; sanitation;

NATIONAL PRINTING INK RESEARCH INSTITUTE

C/O NAPIM
47 Halstead Avenue
Harrison, N.Y. 10528
(914) 835-5650

J. M. Fetsco, Technical Administrator

Sinclair Lab Building #7
Lehigh University
Bethlehem, Pennsylvania 18015

Founded: 1946

Type of Organization Scientific Society

Scope Engages in projects to investigate problems of mutual interest to the printing ink and printing industries.

Standardization Activities Publishes raw material data handbooks on materials used in manufacturing printing ink. Coordinates with ASTM on developing test methods used within the printing ink industry. Develops monographs on subjects of interest to the printing ink industry.

Availability Distributed through NAPIM.

Keywords ink; printing ink; communications;

NATIONAL PROPANE GAS ASSOCIATION

Hal M. Faulconer, Vice President, Technical Resources

1600 Eisenhower Lane
Lisle, IL 60532
(708) 515-0600

FAX: (708) 515-8774

Type of Organization Trade Association for the Propane Industry.
Works through other organizations to develop standards.

Representation	Representatives on Standards Committees of ANSI, ASTM, NFPA, ASME and API.
Scope	A vertically structured national trade association of companies and individuals involved in the production, transportation, distribution, and marketing of liquefied petroleum gas.
Standardization Activities	Provide input to and representation on various standards making organizations. Focus is on standards associated with the safe handling and use of LP-Gas and the associated equipment and material.
Keywords	energy; safety; liquified petroleum gas; LP-Gas;

NATIONAL RETAIL MERCHANTS ASSOCIATION

James R. Williams, President

100 West 31st Street
New York, New York 10001
(212) 244-8780

Founded: 1911

Type of Organization	Trade Association Standards Developer
Standards Development	Participates in the development of standards in cooperation with ANSI No NRMA standards are processed through ANSI Standards are developed by committees of the membership
Scope	The nations largest trade association representing the general merchandise retail industry with 4,500 individual corporate members operating approximately 45,000 department, chain, specialty and independent stores in the United States and an additional 1,000 stores in 50 nations abroad. NRMA members' aggregate domestic sales are in excess of \$150 billion annually and they employ more then three million workers. Devoted to the exchange of information among retailers and to research and education. Takes an active part in the formulation of standards and specifications relative to retail store organization, retail trade terminology, business practices, and specifications for commodities used in the trade. Cooperates actively with ANSI and other technical and trade organizations and the government.
Standardization Activities	Endorsed the Universal Product Code (UPC) for uniform merchandise identification acceptable to both general merchandise retailers and vendors. Developed, made available and maintains standard color and size codes

for common usage between retailers and manufacturers. Participates in the General Merchandise and Apparel Implementation Committee of the Uniform Code Council (secretariat for the UPC) in standards definition and approval for merchandise marking, shipping, container labeling and identification and definition of standards for ANSI X.12 Electronic Data Interchange (EDI) fields, usage and transaction sets. Is active on the EDI Advisory Committee of the Uniform Code Council and in the Federation of Automated Coding Technologies (FACT). Offers the Standard Color and Size Code Handbook.

Initiated programs for the establishment of several Simplified Practice Recommendations under the auspices of the National Institute of Standards and Technology (NIST). Formerly cooperated with NIST in the revision of several Simplified Practice Recommendations, and cooperates actively with NIST in the establishment of standard sizing of all apparel.

Formerly National Retail Dry Goods Association (1958)

Keywords merchandise; retailing; merchandise identification; sizes; business; consumer goods;

NATIONAL RIFLE ASSOCIATION OF AMERICA

J. Warren Cassidy, Executive Vice President

1600 Rhode Island Avenue, NW
Washington, DC 20036
(202) 828-6000

Founded: 1871

Type of Organization Educational and Sports Association
Standards Developer

Representation The Association is represented on the National Health and Safety committee of the Boy Scouts of America and on various Committees and the Board of Directors of the National Safety Council.

Certification Standards for paper targets are enforced through a licensee process. When the specified standards are met, an "Official NRA Target" designation is given to the manufacturer for printing on the target. The NRA certifies marksmanship and firearm safety instructors and referees, and approves, when certain standards have been met, training courses and qualification courses for police departments, military and civilian rifle and pistol clubs.

Secretariats	The NRA, as the National Governing Body for the shooting sports in the United States, represents all U.S. shooters to the International Shooting Union (ISU) and has input to standards for targets and ranges, in addition to rules for international and Olympic competition.
Scope	Nonprofit membership organization with more than 2.7 million members and 12,000 affiliated local clubs and state organizations all interested in firearms or the shooting sports.
Standardization Activities	Prepares and provides standard construction plans for a large variety of shooting ranges for different guns and events. Also standardized are paper and metal targets used in training and competition. These standards are researched and established by various specialized program committees and channelled through NRA's Competition Rules and Programs Committee and Board of Directors. Standards are included in annually revised competitive rule books, in annual meeting reports, and special shooting range literature and program outlines and manuals.
Availability	Distributed directly
Keywords	shooting ranges; targets; safety; recreation; sports;

NATIONAL ROOF DECK CONTRACTORS ASSOCIATION

	Craig Cox, President
	600 South Federal Street, Ste. 400 Chicago, IL. 60605 (312) 922-6222
	Founded: 1959
Type of Organization	Trade Association Works through other organizations to develop standards
Scope	Promotes the welfare of the structural roof deck systems industry by analyzing and informing the membership of conditions affecting the industry, informing the membership of improved operating methods and procedures, and conducting education and research activities.
Standardization Activities	Develops or assists in the development of standard tests and test methods for industry products. Participate in model code development and with other government and public bodies involved with building, construction, and the installation of structural roof deck systems.

Formerly Gypsum Roof Deck Foundation Association (1980)
Keywords built-up roofing; building;

NATIONAL ROOFING CONTRACTORS ASSOCIATION

William A. Good, Executive Vice President

6250 River Road, Suite 8030
Rosemont, IL. 60018
(312) 318-6722

Founded: 1886

Type of Organization Trade Association
Standards Developer
Works with other organizations to develop standards

Scope Contractors applying asphalt, asbestos, coal tar pitch, elasto/plastic, slate, tile, metal, and wood roofs. Sponsors instruction for roofing superintendents and holds management institutes.

Standardization Activities Dedicated to the improvement of systems standards for all roofing systems. Studies materials and application procedures and standards through various technical committees. Has joint liaison groups with various materials manufacturer organizations and government bodies. Conducts test programs with other industry organizations on a joint basis. Aims to enhance the development of improved material and application standards for the roofing industry.

Produced a Roofing and Waterproofing Manual that provides recommended procedures, practices and evaluative comments on roofing specifications, construction details, and roofing materials. Cooperates with the National Institute of Standards and Technology to conduct technical conferences. Also conducts an international symposium on roofing technology every five years.

Availability Distributed directly

Keywords roofing; building;

NATIONAL SAFE TRANSIT ASSOCIATION

Ellis Murphy, Executive Director

43 East Ohio
Chicago, Illinois 60611
(312) 645-0083

Founded: 1948

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

3 Preshipment Test Procedures

Certification

Certifies laboratories' ability to perform testing services in accordance with NSTA procedures so that they, in turn, can certify that packages tested meet approved criteria and be designated "NSTA Safe Transit Tested."

Scope

A voluntary, cooperative program which aims to reduce in-transit damage through a standardized program of preshipment testing, certification, and identification.

**Standardization
Activities**

Committee research and discussion leading to the standards for the preshipment testing of packaged products. Activity covers both testing procedures and performance levels.

Availability

Sold directly

Formerly

National Safe Transit Committee

Keywords

packaging; containerization; transportation;

NATIONAL SAFETY COUNCIL

Robert Currie, Standards Administration

444 North Michigan Avenue
Chicago, Illinois 60611
(312) 527-4800 Telex: 25-3141

Founded: 1913

Standards Staff: 1

**Type of
Organization**

Technical Society
Works through other organizations to develop standards

Representation

Representatives on more than 50 standards committees of ANSI, ASTM, NFPA, ASME, and ASAE

Secretariats

ANSI A10, D16, L1, Z16, Z41, Z244

Scope	A nonprofit, nongovernmental public service organization. Aims to determine and evaluate methods and procedures that prevent accidents and mitigate injury and economic loss resulting from accidents, and to provide leadership to expedite the adoption and use of those methods and procedures that best serve the public interest. Functions in the areas of occupational safety and health, traffic safety, motor transportation safety, product safety, and consumer safety.
Standardization Activities	Focuses on standards concerned with safety of products or systems and with accident/injury record systems. In its materials and publications, references all of the appropriate codes and standards adopted by nationally recognized consensus standard producing organizations. Represented on ANSI's Organizational Member Council, the Safety and Health Standards Board, and the ANSI/OSHA Coordinating Committee.
Keywords	safety; accident prevention; occupational health; traffic safety; consumer products; social welfare;

NATIONAL SANITATION FOUNDATION

	James G. Kendzel, Manager Standards Development
	P.O. Box 1468 NSF Building 3475 Plymouth Road Ann Arbor, Michigan 48106 (313) 769-8010
	Founded: 1944 Standards Staff: 3
Type of Organization	Voluntary Research, Standards, and Testing Organization Standards Developer
Standards Development	Standards developer since 1944 40 active standards and criteria Voluntary program involving the active cooperation of the manufacturer, the user, and the regulatory officials Accredited by ANSI Five processed through ANSI
Government Adoption	Many U.S. regulatory jurisdictions require by law, regulations, or department policy, products which comply with NSF standards or criteria.
Certification	Products determined in compliance with NSF standards or criteria by NSF Certification Services are authorized for listing and display the NSF Mark.

Scope	A noncommercial, not-for-profit standards, research, testing, and educational organization. Seeks answers in environmental health, and establishes public and environmental health standards with the cooperation of all concerned.
Standardization Activities	Involves approximately 1,400 domestic and foreign manufacturers who use the NSF Mark on products meeting the applicable standard or criteria. Publishes and distributes a list of available standards as well as annual listings covering food service equipment, plastic piping system components and materials, swimming pool equipment, drinking water direct and indirect additives, and special categories, including plumbing components for mobile homes and recreational vehicles, water and wastewater treatment devices, biohazard cabinetry, and flexible membrane liners.
Availability	Distributed directly
Keywords	food equipment; plastic pipe; swimming pool; mobile homes; recreational vehicles; water; waste; environment; public health; sanitation; building; drinking water additives;

NATIONAL SASH AND DOOR JOBBERS ASSOCIATION

Robert T. O'Keefe, Executive Vice President

2400 E. Devon Avenue, Suite 314
Des Plaines, Illinois 60018
(708) 299-3400

Founded: 1964

Type of Organization	Trade Association Works through other organizations to develop standards
Scope	Promotes the use and increased consumption of stock millwork and related building products, including new products; advocates and promotes the sale of such products through sash and door jobbers; promotes the growth of the industry.
Standardization Activities	The association supports the development of standards related to window and door products. In cooperation with the National Wood, Window and Door Association (NWWDA), helped prepare and further commercial standards relating to double hung casement, awning, and single hung wood window units which have been incorporated into NWWDA's Industry Standard 2.

Initiated and developed Voluntary Product Standard PS 32-70 for wood interior hinged door units which was promulgated by the Department of Commerce in 1970. To maintain the existence of a nationally recognized standard, NSDJA has developed the Recommended Product Standard for Interior Pre-hung Door Units (PS 1-79).

Formerly

Formed by the merger of the Northern Sash and Door Jobbers Association (1935) and the Southern Sash and Door Jobbers Association (1935)

Keywords

windows; doors; sash; millwork; building; wood products;

NATIONAL SCHOOL SUPPLY AND EQUIPMENT ASSOCIATION

Tim Holt, Executive Vice President

2020 N. 14th Street, Suite 400
Arlington, Virginia 22201
(703) 524-8819

Founded: 1916

**Type of
Organization**

Trade Association
Works through other organizations to develop standards

Certification

Issues certification when operable and folding walls are tested for sound transmission loss in accordance with ASTM E90.

Scope

Manufacturers and distributors of school supplies, equipment, and instructional materials. Operating Divisions address the needs of manufacturers and users of auditorium, theatre, bleacher, and classroom seating, as well as play ground equipment, and operable partitions.

**Standardization
Activities**

Operable Partition Section of NSSEA has endorsed ASTM E557-77 which provides a standard for the application and installation of operable partitions. Also issues testing procedures for measuring sound transmission loss.

Availability

Distributed Directly

Formerly

National School Service Institute (1958)

Keywords

partitions; school equipment; noise control; education; buildings;

NATIONAL SLAG ASSOCIATION

William E. Mattison, President

300 South Washington Street
Alexandria, Virginia 22314
(703) 549-3111

Founded: 1918

Standards Staff: 2

**Type of
Organization**

Trade Association
Works through other organizations to develop standards

Representation

Represented on technical committees of the American Society for Testing and Materials, American Concrete Institute, Association of Asphalt Technologists, Highway Research Board, American Railway Engineering Association, American Society of Civil Engineers.

Scope

A technically-oriented organization representing companies processing over 95% of the steel-industry slag used in the USA. Conducts technical meetings and disseminates information from world-wide sources concerning the production, processing, properties, and use of steel-industry slags. Represents members on a large number of national, state, and local specification and standardization organizations. Provides information and technical consulting services to members, architects, engineers, contractors, and other organizations.

**Standardization
Activities**

Cooperates actively with specification-writing organizations at national and state levels in formulating and revising aggregate specifications and in developing standards covering test procedures. Standardization of aggregates is further promoted by research dealing with aggregates and their end-use products, conducted in the association's laboratory located in Youngstown, Ohio.

Keywords

slag; aggregate; construction; materials;

NATIONAL SOCIETY TO PREVENT BLINDNESS

Michael L. Weamer, Executive Director

500 E. Remington Road
Schaumburg, Illinois 60173
(708) 843-2020

Founded: 1908

**Type of
Organization**

Scientific Society
Standards Developer

Representation	ANSI K61, Z80, Z87 ASTM F8.57
Secretariats	ANSI Z87 Committee
Scope	The oldest voluntary health agency nationally engaged in the prevention of blindness through a comprehensive program of community service, public and professional education, and research.
Standardization Activities	With advice and guidance of professional scientific advisory committees, develops standards for vision screening of preschool and school age children, for eye safety programs in schools and industry, for glaucoma screening, and for services providing low vision aids to the partially sighted.
Availability	Sold directly and through ANSI
Formerly	Formed by Merger of New York State Committee for the Prevention of Blindness and the American Association for the Conservation of Vision (1918) National Committee for the Prevention of Blindness (1927)
Keywords	blindness prevention; eye protection; public health; social welfare;

NATIONAL SOFT DRINK ASSOCIATION

William L. Ball, III., President

1101 16th Street, NW
Washington, DC 20036
(202) 463-6732

Founded: 1919

Type of Organization	Trade Association Standards Developer
Standards Development	Three active standards
Standards Designation	VPS, ANSI/VPS, and VS prefixes
Government Adoption	PS 73-89 Carbonated Soft Drink Bottles (1989)
Scope	Provides manufacturers of soft drinks throughout the United States and others interested in the welfare of the industry a forum to discuss matters of common interest, provides a medium for improving soft drink

plant operating procedures, conducts research on problems relating to the industry, and provides informational and educational services in the interest of the consumer.

Standardization Activities	Instrumental in the development of voluntary standards or guide lines, designed for the betterment of the consumer and the bottling and packaging activities of the industry.
Availability	Sold directly, through Government Printing Office, and ANSI
Formerly	American Bottlers of Carbonated Beverages (1967)
Keywords	soft drinks; beverages; packaging;

NATIONAL SOLID WASTES MANAGEMENT ASSOCIATION

John A. Legler, Deputy Director, Equipment and Risk Management

1730 Rhode Island Avenue, Suite 1000
Washington, DC 20036
(202) 659-4613 FAX: (202) 775-5917

Founded: 1964

Type of Organization	Trade Association Standards Developer
Standards Designation	ANSI Z245.x
Certification	Waste Equipment Manufacturers Institute Stationary Compactor Safety Certification Program
Secretariats	ANSI Z245 on Refuse Processing, Collection, and Disposal
Scope	2,500 companies
Standardization Activities	Develops safety standards primarily associated with the solid waste management industry. Includes procedures for the manufacturing, installation, and operation of equipment and facilities. Standards Committee includes manufacturers, distributors, end users or operators, government regulation and/or enforcement agencies, and special purpose or trade associations.
Availability	Distributed through ANSI
Formerly	Absorbed the Incinerator Institute of America (1974)

Keywords solid waste; refuse; public health; sanitation;
industrial equipment; recycling; resource recovery

NATIONAL SPA AND POOL INSTITUTE

Carvin Di Giovanni, Technical Director

2111 Eisenhower Avenue
Alexandria, Virginia 22314
(703) 838-0083

FAX: (703) 549-0493

Founded: 1956

Type of Organization Trade Association
Standards Developer

Scope A national trade association comprised of approximately 4,300 swimming pool builders, pool equipment manufacturers and suppliers, architects, engineers, public officials, and others allied with the pool industry. Sets guidelines for pool builders and works toward better pool building and the maintenance of high ethical standards.

Standardization Activities Develops standards for residential and public swimming pools, hot tubs and above-ground pools. Cooperates with the American Public Health Association, National Safety Council, Underwriters Laboratories, National Sanitation Foundation, National Electrical Code, International Association of Plumbers and Mechanical Officials, Consumer Product Safety Commission, and the Young Men's Christian Association of the United States. Provides information and assistance to a number of Government agencies and maintains liaison with other international swimming pool and spa organizations. Follows accreditation procedures of ANSI. Administers a Technical Council which maintains committees in the areas of design, accessory equipment, chemical treatment, circulation systems and publications.

Availability Distributed directly

Keywords swimming pools; spas; hot tubs; consumer products;
safety; sanitation;

NATIONAL STANDARDS EDUCATORS ASSOCIATION

Walter J. McGee, Executive Director

P.O. Box 773
Placentia, California 92670
(714) 447-8382

Founded: 1987

Standards Staff: 3

Type of Organization Industrial education association
Works through other organizations to develop standards.

Representation 15 members represented on standards committees of organizations such as ASME, ANSI, and ISO.

Scope A nonprofit organization of 100 industrial executives, managers, engineers, technicians, educators, and students that promotes, within U.S. industrial and educational societies, the significance and expert knowledge of those standards in common use within American industry.

Standardization Activities The association promotes the concept of "management by accountability." This concept fosters the use of certification, accreditation, registration, and licensure to combat the plague of standards illiteracy in America. It has warned industry that a nation that cannot relate to its own standards will not long be competitive in a global market requiring compliance to foreign and international standards. The association promotes testing of our industrial work force on proficiency in those standards and specifications common to their line of work.

The association has initiated its campaign for proficiency testing of the American work force in the field of dimensional metrology. In conjunction with the American Society of Mechanical Engineers, they have focused on the Y14 and B89 standards for its first personnel certification programs.

Keywords education; quality assurance; management; general;

NATIONAL STONE ASSOCIATION

R.G. Bartlett, President

1415 Elliot Place, NW
Washington, DC 20007
(202) 342-1100

Founded: 1918

Standards Staff: 1

Type of Organization Trade Association
Works through other organizations to develop standards

Representation One staff member represents NCSA on committees of ASTM, ACI, and AREA along with other technical societies such as the Transportation Research Board of the National Research Council, Asphalt Paving Technologists, and ASCE.

Scope	A nonprofit trade association supported by producers of stone and manufacturers of plant equipment and supplies used by the crushed stone industry. Serves the quarrying industry.
Standardization Activities	Cooperates with national technical organizations in standardizing specifications, test methods, and recommended practices involving the use of stone. Represented on technical committees of the American Society for Testing and Materials dealing with concrete and concrete aggregates, road and paving materials, and mortars for unit masonry. Participates in technical committee work concerned with the development of recommended practices of the American Concrete Institute, the American Railway Engineering Association, and the Transportation Research Board of the National Research Council. Participates in a joint committee composed of representatives of the National Sand and Gravel Association and the National Slag Association to work on problems of mutual interest.
Keywords	aggregates; materials; construction; stone;

NATIONAL TERRAZZO AND MOSAIC ASSOCIATION

	Edward A. Grazzini, Executive Director 3166 Des Plaines Avenue, Suite 24 Des Plaines, Illinois 60018 (312) 635-7744 (800) 323-9736 Founded: 1923	FAX: (312) 635-9127 Standards Staff: 5
Type of Organization	Trade Association Standards Developer	
Standards Development	25 active standards	
Government Adoption	All technical manuals and design catalogs are accepted by Government agencies.	
Scope	Contractors who install terrazzo and mosaic work and firms which produce or manufacture materials. Provides information to building owners, architects, builders, and terrazzo contractors. Conducts research on installation methods.	
Standardization Activities	Maintains a Technical Committee and Quality Control Committee active in standards development. Publishes Technical Data Book which contains 25 standard national	

specifications for the installation of both cementitious and resinous terrazzo. Also develops standards on various application and grinding techniques.

Availability Distributed directly

Keywords terrazzo; mosaic; construction; building; materials;

NATIONAL TIRE DEALERS AND RETREADERS ASSOCIATION

Gurnie Hobbs, Director
Membership Services Division

1250 I Street, NW
Suite 400
Washington, DC 20005
1-(202) 789-2300
1-(800) 876-8372 or 1-(800) 87-NTDRA

Founded: 1921

Type of Organization Trade Association
Standards Developer

Scope An organization of 5,000 independent tire dealers and retreaders in the United States, Canada, and abroad. Concerned with matters which affect the tire dealer and his ability to do business including product development, marketing, legislation, new tires, retread, service, and after market areas.

Standardization Activities Heavily committed to retreading, NTDRA maintains a field force of six highly qualified plant inspectors, inspecting 800 retread plants annually. Also provides recommended industry standards to keep the science of retreading at a high level.

Availability Distributed directly

Formerly National Association of Independent Tire Dealers
Absorbed the Tire Retreading Institute (1978)

Keywords tire; automotive service; automobile parts; retread; transportation;

NATIONAL WATER WELL ASSOCIATION

Jay H. Lehr, Ph.D, Executive Director

6375 Riverside Drive
Dublin, Ohio 43017
(614) 761-1711

FAX: (614) 761-3446

Founded: 1948

Type of Organization	Technical Society Works through other organizations to develop standards
Representation	American Water Works Association; American Society for Testing and Materials;
Certification	Offers a voluntary Certification Program for both ground water contractors and ground water scientists and engineers. Contractor certification includes one general and 12 specific examinations.
Scope	An organization of water well drilling contractors, manufacturers, wholesale suppliers and professional geologists, hydrologists, and engineers interested in the problems of locating, developing, and utilizing underground water supplies. Objectives of the association include the promotion of scientific development and the advancement of the science of ground water hydrology.
Standardization Activities	Specification Committee cooperates with various organizations in developing standards for well construction and the sampling and monitoring of ground water resources. The National Ground Water Information Center, a service of the Association, maintains an on-line data base of standards applied throughout the ground water industry.
Keywords	wells; water wells; hydrology; public health;

NATIONAL WHOLESALE HARDWARE ASSOCIATION

Patricia A. Lilly, Associate Director

1900 Arch Street
Philadelphia, Pennsylvania 19103
(215) 564-3484

Founded: 1894

Type of Organization	Trade Association Standards Developer
Scope	A trade association for distributors of hardware products and related lines.
Standardization Activities	Maintains a comprehensive standardized forms program and as a result has issued Standardization of Forms and Information Flow Used in Ordering, Shipping and Billing of Merchandise within the Hardgoods Industry.
Availability	Distributed directly

Keywords hardware; forms; data processing;

NATIONAL WOOD WINDOW AND DOOR ASSOCIATION

John W. Shoemaker, Executive Vice President

1400 E. Touhy Avenue
Des Plaines, Illinois 60018
(312) 299-5200

Founded: 1926

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Standards developer since early 1920's
8 product standards; 9 test methods

**Standards
Designation**

Industry Standards, I.S.

**Government
Adoption**

HUD, Farmers Home Administration, DoD, and others

Certification

Wood Flush Door, Window, Sliding Patio Door, and Water
Repellent Preservative Programs.

Scope

Represents over 100 manufacturers and material
suppliers in the wood window and door industries.

**Standardization
Activities**

Active in product standard research and development.
Works with ASTM and ASHRAE in the development of
standards for the industry. NWMA standards are
referenced by the federal government, architects,
specifiers, builders, and building product suppliers.

Availability

Sold directly

Formerly

National Woodwork Manufacturers Association (1986)

Keywords

windows; doors; millwork; building; wood products;

NATIONAL WOODEN PALLET AND CONTAINER ASSOCIATION

John J. Healy, Executive Vice President

1625 Massachusetts Avenue, NW, Suite 200
Washington, DC 20036
(202) 667-3670

Founded: 1947

Type of Organization	Trade Association Standards Developer
Scope	Manufacturers and distributors of pallets, pallet containers, boxes, crated, shook, and skids.
Standardization Activities	Publishes standard specifications covering the construction of hardwood, softwood, and plywood pallets. These standards provide minimum requirements for a series of nine quality grades covering various wooden pallets.
Availability	Distributed directly
Formerly	Merger of National Wooden Box Association and National Wood Pallet Manufacturers Association (1947)
Keywords	pallets; containers; packaging

NORTH AMERICAN DIE CASTING ASSOCIATION

Derek L. Cooks, Technical Director

2000 North Fifth Avenue
River Grove, Illinois 60171-1992
(312) 452-0700 FAX: (312) 452-0147

Founded: 1954

Type of Organization	Trade Association Works through other organizations to develop standards
Scope	A not-for-profit organization which serves the interests of its members with the overall objectives of improving industry technology productivity and profitability. Member services include providing information and statistics for managers, administrators and engineers. The association has active research and educational programs and produces a considerable number of publications of both technical and managerial nature.
Standardization Activities	The association maintains close links with organizations which set (or are involved with) standards pertaining to the die casting industry. These include the American National Safety Institute, the American Society for Testing Materials, Occupational Safety & Health Administration and the Environmental Protection Agency.
Formerly	Consolidation of American Die Casting Institute and the Society of Die Casting Engineers
Keywords	die casting; cast metals; net shape; metals;

NORTHEASTERN LUMBER MANUFACTURERS ASSOCIATION

Stephen S. Clark, Executive Vice President

272 Tuttle Road
P.O. Box 87A
Cumberland Center, Maine 04021
(207) 829-6901

Founded: 1933

**Type of
Organization**

Trade Association
Standards Developer

Scope

A nonprofit, private organization that promotes the welfare and advancement of the interests of northeast lumber producers.

**Standardization
Activities**

Maintains a Grading Committee which develops Standards and NELMA Grading Rules. Also serves as the rules writing agency for the northeast for the American Lumber Standards Committee Board of Review.

Availability

Distributed directly

Keywords

lumber; timber; grading rules; inspection; wood; building;

NORTHERN TEXTILE ASSOCIATION

see **ELASTIC FABRIC COUNCIL**
and **FELT MANUFACTURERS COUNCIL**

OPTICAL LABORATORIES ASSOCIATION

George A. Chase, Ph.D., Director
Technical Services Department

P.O. Box 2000
Merrifield, Virginia 22116-2000
(703) 849-8550

Founded: 1939

Standards Staff: 1

Type of Organization

Trade Association
Works through other organizations to develop standards

Representation

Represents its American members to both ASTM and ANSI by providing relevant data and input to the creation of consensus standards which affect manufacturer, laboratory, professional, and consumer.

Secretariats

ANSI Committee Z80, Ophthalmic Standards

Scope

An association for independent ophthalmic prescription eyeglass and contact lens fabricators located in the United States and Canada.

Standardization Activities

Its primary objective is the creation and maintenance of voluntary standards which meet the safety and effectiveness needs of the consumer by providing products which perform within the current state of the manufacturing art.

Participates with industry and professions in the maintenance of existing standards to eliminate design in favor of performance requirements wherever possible, and to keep industry standards in line with advances in technology. As new technologies develop, the Association assumes an active role in the assessment of proper performance standards and testing techniques.

Formerly

Central States Wholesalers Association (1939)
Association of Independent Optical Wholesalers (1942)
Optical Wholesalers Association (1962)
Optical Laboratories Association (1977)

Keywords

ophthalmic products; eyeglass; spectacle; contact lens;
optical laboratory; low vision aids; intraocular
lenses; ophthalmic instruments;

OPTICAL PRODUCT CODE COUNCIL

Administrator: Optical Manufacturers Association
6055A Arlington Boulevard
Falls Church, Virginia 22044
(703) 237-8433

Founded: 1984

Type of Organization	Trade Association Works with others to develop standards
Representation	Central management and information center for manufacturers and users of bar code system.
Secretariats	ANSI; ASCII
Scope	An association of manufacturers of frames, lenses, and contact lenses in the United States who are users of a standard ordering system for the efficient transfer of product from component manufacturers to processing laboratories.
Standardization Activities	The primary objective is the creation and maintenance of voluntary standards for computerized product coding using bar code and data transmission specifications.
Availability	Distributed directly
Keywords	optical frames; lenses; ophthalmic products;

OPTICAL SOCIETY OF AMERICA

Evelyn Roberts, Technical Activities Manager

2010 Massachusetts Avenue NW
Washington, DC 20036
(202) 223-8130

Founded: 1916

Type of Organization	Scientific Society Standards Developer
Scope	Primary purpose is to increase and diffuse the knowledge of optics in all its branches, pure and applied; to promote the mutual interests of investigators of optical problems, of designers, manufacturers, and users of optical instruments and apparatus of all kinds; and to encourage cooperation among them.
Standardization Activities	Standardization and specification work handled by technical committees which publish reports in the society's journal on visual sensitometry; colorimetry; photometry; standard wavelengths; nomenclature and standards; photography; radiometry; and spectrophotometry. The latest and most elaborate of these technical reports appeared as a book, The Science of Color, and as a set of uniformly spaced color

samples. Cooperates with other technical organizations in standardization within the various branches of optics. Has a standing committee for review of ISO standards. Cooperates actively with the International Commission for Optics, the International Commission on Illumination and the American National Standards Institute. Maintains representation on boards or committees of the American Institute of Physics, the National Research Council, the American Association for the Advancement of Science, and the Inter-Society Color Council.

Availability Sold directly

Keywords optics; optic instrumentation; colorimetry; photography

ORTHOPEDIC SURGICAL MANUFACTURERS ASSOCIATION

Robert F. Games, President

1450 Brooks Road
Memphis, Tennessee 38116
(901) 396-2121 Fax: (301) 396-9929

Founded: 1955

Type of Organization Trade Association
Works through other organizations to develop standards

Representation ASTM, ISO, and ANSI

Scope Manufacturers and distributors of orthopedic devices and instrumentation used in reconstructive surgery done by orthopedic surgeons. Established to promote the patient's best interest by standardization of materials and sizing. Develops guidelines, fosters research, disseminates knowledge and information relating to scientific and practical problems, cooperates with professional health associations, interfaces with governmental agencies, and promotes high ethics in all phases of the surgical supply industry.

Standardization Activities Twenty-four member firms have employees active in development of medical device standards. Representatives serve as officers and members of various standards development organizations including ASTM, ISO, and ANSI. They participate in policy making decisions and in the content of test methods and standards pertaining to medical devices.

Keywords orthopedic surgery; medical devices;

OUTDOOR POWER EQUIPMENT INSTITUTE, INC.

Dennis C. Dix, Executive Director

341 South Patrick Street
Alexandria, Virginia 22314
(703) 549-7600

Founded: 1952

Standards Staff: 3

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Standards developer since 1956.
70 members participate in standards activities.
All OPEI sponsored standard are developed under ANSI's
Canvass Procedures. All draft standards are available
for review.

Certification

Through the services of an independent testing
laboratory, OPEI conducts a 3rd party voluntary
certification program for each of the OPEI sponsored
voluntary standards approved and published by ANSI.

Secretariats

For each of the standards listed above and U.S.
Technical Advisory Group to ISO/TC 23/SC 13, Powered
Lawn and Garden Equipment.

Scope

A national trade association representing the domestic
manufacturers of power lawn mowers, snow throwers,
rotary tillers, commercial turf care equipment, garden
tractors and related equipment and attachments.

**Standardization
Activities**

Developed ANSI B71.1 Power Lawn Mowers; B71.3, Snow
Throwers; B71.4, Commercial Turf Care Equipment; B71.5,
Sound Test Method; B71.6, Shredder/Grinders; B71.7, Log
Splitters; and B71.8, Tillers.

Availability

Published standards may be obtained through ANSI.
Draft proposed standards may be obtained directly.

Formerly

Lawn Mower Institute, Inc.

Keywords

lawn equipment; lawn mowers; snow throwers; shredders;
log splitters; rotary tillers; garden tractors;
agriculture; acoustics; consumer products;

PACKAGING MACHINERY MANUFACTURERS INSTITUTE

Claude S. Breeden, Jr., Executive Director

1343 L Street, NW
Washington, DC 20005
(202) 347-3838

Type of Organization	Trade Association Works through other organizations to develop standards
Scope	A voluntary nonprofit association of U.S. companies manufacturing packaging machinery and packaging-related converting machinery. Seeks to solve problems of the packaging machinery industry and provides information and services to member companies, users of packaging and converting machinery, the government, and the general public.
Standardization Activities	Maintains Product Safety and Technical Information Committees. A member of the American National Standards Institute and supports its work with the International Organization for Standardization. Works with the Occupational Safety and Health Administration to publish a safety standard for the Card, Use, and Construction of Packaging Machinery. Cooperates with associations such as the Fibre Box Association and the Adhesives Manufacturers Association of America in promoting recommended practices on the storage, maintenance, and application of adhesives used in conjunction with automatic packaging machinery.
Keywords	packaging; machinery;

PAINTING AND DECORATING CONTRACTORS OF AMERICA

Vincent R. Sandusky, Executive Director

3913 Old Lee Highway, Suite 33B
Fairfax, Virginia 22030
(703) 359-0826

Founded: 1884

Type of Organization	Trade Association Works through other organizations to develop standards
Scope	Represents painting and decorating contractors throughout the United States. Endeavors to maintain high standards of workmanship and safety in the painting, decorating, drywall, wallcovering, and coating industries. Committee activities involve labor, public, and government relations.
Standardization Activities	Works with the National Safety Council, OSHA, ANSI, and other organizations such as Associate Specialty Contractors, American Subcontractors Association to develop standards for wall covering, scaffolding and ladders, and general safety in the industry.

Keywords painting; wallcovering; safety;

PAPERBOARD PACKAGING COUNCIL

S. Edward Iciek, President

1101 Vermont Avenue, NW, Suite 411
Washington, DC 20005
(202) 289-4100

Founded: 1967

**Type of
Organization**

Trade Association
Develops recommended practices

Scope

A nonprofit national trade association representing companies in the production and conversion of paperboard into folding cartons and packages. Functions include marketing information and statistics, industrial relations, safety, technical and production, and government relations.

**Standardization
Activities**

Maintains a Technical and Production Committee, and special ad hoc groups established for the administration of standards activities.

Issues Guidelines and Standards for the Paperboard Packaging Industry, as a set of voluntary industry standards and specifications recommended for users and suppliers of folding paper cartons. Cooperated with the federal government in the development of Simplified Practice Recommendations for margarine cartons, rectangular ice cream cartons, and bacon carton. Involved in standards for printing nutritional labeling and Universal Product Code symbols on fluid milk cartons. Also cooperates with the government in reviewing and commenting on federal specifications.

Availability

Distributed directly

Formerly

Merger of several groups including the Folding Paper Box Association and The Institute for Better Packaging.

Keywords

packaging; containers; cardboard;

PERLITE INSTITUTE

Paul J. Julius, Managing Director

600 South Federal Street
Chicago, Illinois 60605
(312) 922-2060

Telex: 297213 HAUR

Founded: 1949

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Standards developer since 1949
65 members participating in standards activities
20 active standards
None processed through ANSI
Draft standards not available for review

**Standards
Designation**

PI prefix

**Government
Adoption**

Various government agencies have adopted ASTM standards on perlite including GSA, FHA, and VA.

Scope

A national and international nonprofit trade association which sponsors research leading to standardization of specifications and methods of testing perlite and perlite products. Collects data, initiates and correlates research, and develops specifications and test methods. Cooperation with technical and engineering societies, other trade associations, and government agencies interested in standards.

**Standardization
Activities**

Activities are directed toward fulfilling ore producer, expander and customer requirements. Works closely with Underwriters Laboratories (UL), International Conference of Building Officials (ICBO), Southern Building Code Conference International (SBCCI), National Institute of Standards and Technology (NIST), Building Officials and Code Administrators (BOCA), and other agencies and industry organizations.

Publishes test methods and related standards containing test methods for evaluating quality of expanded perlite, and American Society for Testing and Materials specifications applicable to perlite. Publishes standards for perlite products used in building, industrial, and horticultural industries.

Availability

Distributed directly

Keywords

perlite; insulation; aggregate; abrasives; materials;

PHARMACEUTICAL MANUFACTURERS ASSOCIATION

John Beary, M.D., Senior Vice President
for Science and Technology

1100 15th Street, NW
Washington, DC 20005
(202) 835-3400

Founded: 1958

Telex: TWX-7108229494-PMA-WSH

**Type of
Organization**

Trade Association
Works through other organizations to develop standards

Representation

Participates in standards developing activities of the food and Drug Administration, the United States Pharmacopoeia, the National Formulary, AAMI, ANSI, ASTM, NCCLS, European Committee for Clinical Laboratory Standards (ECCLS), and other public and private standards setting organizations.

Scope

A nonprofit scientific and professional organization representing firms that discover, develop, and produce prescription drugs, biological products, and diagnostic products. The Association's members produce most of the prescription drugs and a large part of the world's medical devices and diagnostic products. The Association's principal objectives are: (1) to encourage high standards in the research, development, production and marketing of drug products and diagnostic products; (2) to develop and disseminate information about the pharmaceutical industry to the public, all levels of government, the media, international organizations, and other groups; (3) to help keep industry abreast of government actions and public concerns; and (4) to work with member companies, other health related organizations, government and consumer entities, and the public to advance medical science and improve health-care services.

**Standardization
Activities**

Participates in developing methods of analysis and standards for drugs and biologicals and methods of testing and standards for in vitro diagnostic products. Participation is either by staff (approximately one to two person years per year) or representatives of member companies drawn from PMA's Biological, Medical, Production, Engineering and Materials Management, Quality Control, and Research and Development Sections.

Formerly

American Drug Manufacturers Association and American Pharmaceutical Manufacturers Association (merged in 1958)

Keywords

drugs; pharmaceuticals; biologicals; medical devices;
in vitro diagnostic products; health care;

PHOTO CHEMICAL MACHINING INSTITUTE

Judith Ginsberg, Executive Director

4113 Barberry Drive
Lafayette Hill, Pennsylvania 19444
(215) 825-2506

Founded: 1968

Type of Organization

Trade Association
Standards Developer

Standards Development

5 active standards

Standards Designation

PCMI prefix

Scope

Association of companies connected with industries producing metal parts by photo chemical machining, such as photo etching or companies that are suppliers to the industry such as metals, resists, etc.

Standardization Activities

Develops standards applicable to photo chemical machining, including terms and definitions, dimensional tolerances, photoresists, and master artwork design.

Availability

Distributed directly

Keywords

photo chemical machining; manufacturing; materials;
photo etching;

PHOTOGRAPHIC SOCIETY OF AMERICA

Terry S. Stull, Operations Manager

3000 United Founders Boulevard, Suite 103
Oklahoma City, Oklahoma 73112
(405) 843-1437

Founded: 1933

Standards Staff: 10

Type of Organization

User Association
Standards Developer

Standards Development

3 active technical standards
8 active uniform practices

Standards Designations

PSA Technical Standards
PSA Uniform Practices

Scope	A nonprofit organization, international in scope. Promotes the arts and sciences of photography and furthers public education in the field. Interests of members include the uses of all types of photographic materials, their applications, and characteristics of their manufacturer.
Standardization Activities	Through its Technical Standards Committee, formulates technical standards. Affiliated with ANSI and has representatives on PH sectional committees on photography, as well as membership on the Photographic Technical Advisory Board. Representatives selected to represent its interests are chosen on the basis of their competence as users and their technical knowledge in the field. Establishes practices and requirements for judging and exhibition, safe handling, and other rules which contribute to the success of international photographic and camera events on a worldwide basis.
Availability	Distributed directly
Formerly	Associated Camera Clubs of America
Keywords	photography; camera; film;

PIPE FABRICATION INSTITUTE

Lois A. Moore, Executive Director

P.O. Box 173
 612 Lenore Avenue
 Springdale, Pennsylvania 15144
 (412) 274-4722

Founded: 1913

Type of Organization	Technical Society Standards Developer
Scope	Producers and designers of high pressure/high temperature piping systems for chemical plants, refineries, central power stations, and ships; concerned with technical and economic problems of the piping industry.
Standardization Activities	The standards and technical bulletins developed by the Engineering Committee cover the design, fabrication and erection of industrial and high pressure/high temperature piping to meet the requirements of power plants including nuclear, fossil, chemical, petroleum, and process piping. Through its members, the institute is officially represented on various code bodies and national engineering societies.

Availability Distributed directly and through IHS

Keywords pipe; pipe fabrication; industrial equipment;

PIPE LINE CONTRACTORS ASSOCIATION

Hailey A. Roberts, Managing Director

1700 Pacific Avenue, Suite 4100
Dallas, Texas 75201-4675
(214) 969-2700

Founded: 1947

Type of Organization Trade Association
Works through other organizations to develop standards

Representatives Four contractor members serve on the API-AGA 1104 Joint Welding Committee composed of industry representatives sponsored by the American Petroleum Institute and the American Gas Association.

Scope Association of contractors, equipment manufacturers, suppliers, and dealers of main-line pipe line. Represents the industry in labor negotiations. Promotes cooperation, efficiency, and safety in the main-line pipe line construction industry.

Standardization Activities Reviews and revises API Standard 1104, Standard for Welding Pipelines and Related Facilities.

Keywords petroleum pipe lines; construction;

PLASTICS PIPE INSTITUTE

A division of The Society of the Plastics Industry, Inc.

Stanley A. Mruk, Executive Director

Wayne Interchange Plaza II
155 Route 46 West
Wayne, New Jersey 07470
(201) 812-9076

Founded: 1949

Type of Organization Trade Association
Standards Developer

Scope A division of the Society of the Plastics Industry, Inc. (1275 K Street, NW, #400, Washington, DC, 20005). Dedicated to creating broader markets and market opportunities for plastics pipe and related products.

**Standardization
Activities**

Maintains a Technical Committee which represents its members in Standards Writing and Code Writing organizations, including: ASTM F-17, Thermoplastic Piping Systems; ANSI B31.3, Chemical and Petroleum Piping Code; American Petroleum Institute, (oil and gas production piping); American Water Works Association, (water distribution piping); the National Sanitation Foundation (potable water quality).

Maintains a Hydrostatic Stress Board which writes standard policies and procedures for the forecasting of the long-term strength of plastic piping products and plastics piping thermoplastic materials. The Board also issues listings of Hydrostatic Design Stress recommendations for thermoplastics materials. These recommendations are referenced by many ASTM and other standards.

The Fuel Gas Division develops educational material used by gas companies and federal and state agencies for the training of operators and inspectors in proper and safe use of plastics gas piping; maintains close liaison with Department of Transportation and other government agencies which regulate the use of plastics piping for fuel gas; maintains close liaison with user group technical committees such as those of the American Gas Association and the American Petroleum Institute.

The Municipal and Industrial Division develops technical information, guides and manuals related to the use of plastics piping for municipal and industrial applications; it represents members before appropriate associations and organizations.

The Municipal and Industrial Division assists AWWA in development of appropriate standards and maintains liaison with key government agencies including EPA, HUD, etc.

Availability

Distributed directly

Keywords

plastic pipe; pipe; building; construction; gas distribution; water distribution; sewer and waste; industrial;

PLUMBING AND DRAINAGE INSTITUTE

Sol Baker, Executive Director

1106 W 77th Street, South Drive
Indianapolis, Indiana 46260-3318
(317) 251-6970

Type of Organization	Trade Association Standards Developer
Standards Development	9 active standards 7 processed through ANSI
Standards Designations	PDI-G, PDI-WH, and ANSI prefixes
Government Adoption	Used extensively by General Services Administration, Department of the Army, Coast Guard, and Department of Veterans Affairs.
Certification	Provides certified testing, rating, and installation procedures for grease interceptors and water hammer arresters. Testing equipment is maintained by independent laboratories. Furnishes certification seals which provide evidence that a product has met PDI performance standards.
Scope	An association of manufacturers of plumbing and drainage products. Promotes the advancement of plumbing engineering and the plumbing industry through public relations, research, and product standardization.
Standardization Activities	Maintains an Engineering Committee which engages in product certification and standards development in the areas of backwater valves, hydrants, floor and roof drains, plumbing fixture supports, and cleanouts. Cooperates with the American Society of Mechanical Engineers in the development of ANSI standards.
Availability	Distributed directly and through ASME
Formerly	Plumbing and Drainage Manufacturers Association (1954) Plumbing Manufacturers Association (1949)
Keywords	plumbing; drainage products; building; sanitation;

POLYURETHANE MANUFACTURERS ASSOCIATION

Richard Church, Executive Director

800 Roosevelt Road, Building C
Suite 20
Glen Ellyn, Illinois 60137
(708) 858-2670

Founded: 1971

Type of Organization	Trade Association Standards Developer
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Scope	A private, nonprofit trade association of companies involved in the manufacture of solid polyurethane thermosetting elastomers and their related chemical and equipment suppliers. Promotes and maintains an organization for the mutual advancement and welfare of its members and the polyurethane industry.
Standardization Activities	Maintains a Standards Committee whose purpose is to select and standardize physical test procedures suitable for use with solid polyurethane elastomers, and to promote and disseminate these recommended practices throughout the industry. The two phase program consists of evaluation and selection of existing specifications suitable for use with solid polyurethane; and modification of new test procedures suitable for use as an educational tool. Specifications booklet being revised to include new standards for cast urethanes and specifications for RIM processing of urethanes.
Availability	Distributed directly
Keywords	polyurethane; materials;

PORCELAIN ENAMEL INSTITUTE

	John C. Oliver, Executive Vice President
	1101 Connecticut Avenue NW, Suite 700 Washington, DC 20036
	Founded: 1930
Type of Organization	Trade Association Standards Developer
Standards Designation	PEI, ASTM, and ANSI prefixes
Scope	Manufacturers of major appliances and sanitaryware with porcelain enamelling facilities contract porcelain enamel companies and suppliers to the industry. Conducts market development programs, develops test methods for evaluation of porcelain enamel properties.
Standardization Activities	Works primarily through the voluntary standards development system utilizing the committee system of ASTM and ANSI. Also develops and maintains standards and specifications for specialized sectors of the porcelain enameling industry. In addition, serves as conduit of industry input into government-initiated standards.
Availability	Distributed directly

Keywords porcelain enamel; appliances; plumbing fixtures;
cookware; materials;

PORTABLE POWER EQUIPMENT MANUFACTURERS ASSOCIATION

Donald E. Purcell, President

4720 Montgomery Lane
Suite 812
Bethesda, Maryland 20814
(301) 652-0774

Founded: 1977

Type of Organization Trade Association
Works through other organizations to develop standards

Certification No certification, qualification, or accreditation
programs

Secretariats ANSI B175 Committee
U.S. TAG for ISO/TC 23/SC 17

Scope A nonprofit industry organization representing
manufacturers of gasoline and electrically powered
chain saws and their component parts.

Standardization Activities PPEMA standardization programs are confined to partici-
pation in the development of standards under the
auspices of national and international voluntary
standards setting organizations, and in cooperation
with federal and state government agencies. These
programs include not only those sponsored or initiated
by PPEMA and its members but also those recommended by
government agencies. Participated in the development
of ANSI B175.1 Safety Requirements for Gasoline Powered
Chain Saws, 1979; and B175.1a, Supplement to Safety
Requirements for Gasoline Powered Chain Saws, 1983.

Formerly Chain Saw Manufacturers Association

Keywords chain saws; saws; industrial equipment;

PORTABLE SANITATION ASSOCIATION

T.C. Anderson, Executive Director

7800 Metro Parkway, Suite 104
Bloomington, Minnesota 55425
(612) 854-8300

Founded: 1971

Standards Staff: 2

Type of Organization	Trade Association Standards Developer
Standards Developer	Standards developer since 1976 3 active standards 35 members participating in standards activities Processed through ANSI Draft standards available for review
Certification	No certification, qualification, or accreditation programs
Secretariats	ANSI Z4.1, 24.3, 24.4
Scope	An international trade association that represents U.S. and foreign firms engaged in the leasing, renting, selling, and manufacturing of portable sanitation equipment, services and supplies for construction, recreation, emergency, and other uses. Devoted to the proper handling of human waste by the most modern, sanitary means, giving the greatest concern to the preservation of an unspoiled environment.
Standardization Activities	<p>Develops standards directed toward providing clean, sanitary restroom facilities for any gathering of people that do not have adequate permanent facilities close at hand. Assists manufacturers supplying the industry in market research and types and kinds of equipment which will fill these needs.</p> <p>Recommends standards to BOCA, SBCCI, OSHA, Council of American Building Officials (CABO), IAPMO, and various other state, county, and local health departments.</p> <p>Standards include minimum sanitation requirements for temporary labor camps to protect the health and safety</p>

of persons residing in the camps or in the vicinity of the camps. Also provides standards for adequate toilet facilities in places of employment.

Availability Distributed through ANSI

Keywords sanitation; toilets; public health;

PORTLAND CEMENT ASSOCIATION

John P. Gleason, Jr., President

5420 Old Orchard Road
Skokie, Illinois 60077
(312) 966-6200

Founded: 1916 Standards Staff: 11

Type of Organization Trade Association
Works through other organizations to develop consensus standards

Representation Staff members are active in three model codes organizations and eight standards organizations, serving on seventy committees of ASTM, ANSI, ACI, ASCE, AASHTO, AREA, NFPA, ASHRAE, and others.

Certification Construction Technology Laboratories (CTL), a contract research facility wholly owned by PCA, provides compliance certifications to clients in the form of test and/or investigative reports on a project by project basis. CTL does not have a product labeling program, nor associated product qualification programs.

Secretariats Secretary for the American Concrete Institute's (ACI) 318 Committee which writes the Building Code Requirements for Reinforced Concrete referenced in building codes throughout the nation and used by all structural design professional.

Scope Represents the cement manufacturing industry. Serves the industry by extending and improving the uses of cement and concrete through research and development, market promotion, educational programs, and public affairs activities including representation with government. Cooperates with other concrete industry associations and national organizations representing business and industry. Provides a range of services to its members as well as to those private and public segments of the economy that serve the needs of the construction community in the United States and Canada.

Standardization Activities Develops new standards and updates existing standards to reflect the latest findings in scientific research

and test programs in the fields of cement and concrete technology, advanced engineering developments in all areas of concrete design and construction, and results of structural investigations and field experiences in the uses of concrete.

Does not write proprietary standards, but works with national standards-writing organizations to develop building codes, design standards, and material and test standards. The Research and Development/Construction Technology Laboratories group, and the Market Development group of PCA participate in this activity.

Keywords cement; concrete; test laboratories; fire protection;

POST-TENSIONING INSTITUTE

Clifford Freyermuth, Executive Director/RETD

1717 West Northern Avenue, Suite 218
Phoenix, Arizona 85021
(602) 870-7540

Founded: 1976

Standards Staff: 1

Type of Organization Trade Association
Works through other organizations to develop standards.

Representation ACI, AASHTO

Scope Membership consists of post-tensioning material fabricators, manufacturers of prestressed steel, concrete construction organizations, professional engineers, and architects. Promotes the use of post-tensioning materials through research

Standardization Activities Publishes "Guide Specifications for Post-Tensioning Materials" and "Recommendations for Grouping of Post-Tensioned Prestressed Concrete Members." Generally works through committees of the American Concrete Institute and American Association of State Highway Officials for standards development.

Availability PTI publications; ACI 318 Standard Building Code; AASHTO Specifications for Highway Bridges.

Formerly Post-Tensioning Division of the Prestressed Concrete Institute

Keywords construction; concrete; post-tensioning; prestressed concrete;

POWDER ACTUATED TOOL MANUFACTURERS INSTITUTE, INC.

James A. Borchers, Executive Director

1000 Fairgrounds Road, Suite 200
St. Charles, Missouri 63301
(314) 947-6610 Fax: (314) 946-2157

Founded: 1952

Type of Organization Trade Association
Works through other organizations to develop standards

Representation ANSI, ISO

Certification Certification is through each individual manufacturer on their particular tool.

Scope Furthers the development of a powder actuated systems industry; encourages the safe use and effective application of powder actuated fastening systems; encourages research; cooperates with organizations engaged in similar work.

Standardization Activities Participates on ANSI A10.3 Committee for Safety Requirements for Powder Actuated Fastening Systems. Serves on the ISO/TC 29 Subcommittee for; standard power loads used in powder actuated fastening systems.

Keywords fastenings; tools; construction; safety;

PRECAST/PRESTRESSED CONCRETE INSTITUTE

Thomas B. Battles, President

175 West Jackson Boulevard
Chicago, Illinois 60604
(312) 786-0300 Fax: (312) 786-0353

Founded: 1954

Type of Organization Trade Association
Standards Developer

Certification The Plant Certification Program certifies a plant's capability to produce architectural precast and prestressed concrete of the highest quality. Recognized as a Quality Assurance Inspection Agency by the Council of American Building Officials (CABO).

Scope A trade association representing the manufacturers of precast, prestressed concrete products used as structural and architectural elements in building,

bridges, and other structures. The professional membership helps develop working documents, such as, handbooks, design guides and manuals, guide specifications, and state-of-the-art reports to assist other professional use the product in a correct and economical manner.

**Standardization
Activities**

Develops guide specification, design guides, and other documents in which standards of the ASTM, ACI, ANSI, AASHTO, AREA, etc., are cited to aid the engineer or architect in designing and specifying industry products.

Availability

Distributed directly

Formerly

Prestressed Concrete Institute

Keywords

concrete; prestressed concrete; construction; architectural precast concrete; glass fiber reinforced concrete; erection; buildings; bridges;

PRESSURE SENSITIVE TAPE COUNCIL

Glen R. Anderson, Executive Vice President

104 Wilmot Road, Suite 201
Deerfield, Illinois 60015
(708) 940-8800

Founded: 1953

**Type of
Organization**

Trade Association
Standards Developer

Scope

An organization of American manufacturers of pressure sensitive tape (excluding surgical tape and label stock). Works with code and specification writing agencies.

**Standardization
Activities**

Maintains research on test methods and standards of nomenclature, and on characteristics of products under all conditions of temperature and humidity. Publishes Test Methods booklet consisting of thirty-one testing procedures for pressure sensitive tapes. Each test has been developed, revised, and edited by the Technical and Safety Committee of the Council in cooperation with interested government agencies over an extended period of time.

Also publishes an annual tape products directory designed to inform industrial, commercial and retail consumers of the variety of pressure sensitive tapes and the applications in which they have been successfully used. The tapes are listed by company,

giving the tape identification number, description, principle uses, and manufacturer's values. The values given are in accordance with the PSTC Test Methods are for tensile strength, adhesion, thickness and elongation.

Availability Distributed directly

Keywords tape; packaging;

PRINTING INDUSTRIES OF AMERICA

Ray Roper, CAE; President and CEO

1730 North Lynn Street
Arlington, Virginia 22209
(703) 841-8100

Founded: 1887

Type of Organization Trade Association
Standards Developer

Scope Represents the graphic arts industry as a federation of national, state, and regional associations. Performs a primary role in industrial relation, management development, public relations, and government affairs for its industry.

Standardization Activities Maintains a continuing interest in the development of standards for promoting technical progress and production efficiencies. Activities include development of industry specifications for production and inventory control applications; computer specifications for inter-industry communication and electronic data interchange; publication of Virgin Vinyl and Related Standards for Loose Leaf Binders through its affiliate, Binding Industries of America; preparation of standards for printing plate sizes through its National Association of Lithographic Platemakers Section; participation with Magazine Publishers Association and others in the development of standard specifications for advertising reproduction material for magazine web offset printing; and others through its Graphic Communications Association and International Business Forms Industries affiliates.

Availability Distributed directly

Formerly United Typothetae of America (1945)
Printing Industry of America, Inc. (1965)
Absorbed: Lithographers and Printers National Association (1964)

Keywords printing; lithography; communications; paper;
information; processing;

PROJECT MANAGEMENT INSTITUTE

Richard Colosi, Executive Director

P.O. Box 43
Drexel Hill, Pennsylvania 19026

Founded: 1969

Type of Organization Professional Society
Works through other organizations to develop standards

Representation ANSI

Scope A nonprofit organization devoted exclusively to the field of project management. Foster recognition of the need for professionalism in project management; provides a forum for free exchange for project management problems, solutions, and applications; coordinates industrial and academic research efforts; develops common terminology and techniques to improve communications; provides interface between users and suppliers of hardware and software systems; and provides guidelines for instruction and career development in the field of project management.

Standardization Activities Functions are performed through the Professional Liaison Committee which coordinates with the Technology, Research Policy and Education Committees. Participates in national activities through the American National Standards Committee XK36.3 and internationally, through liaison with an appointed observer to Internet. Does not deal with the federal government directly. Several members are federal employees in agencies involved with project management.

Keywords management; business; information processing;

RACK MANUFACTURERS INSTITUTE

John B. Nofsinger, Managing Director

The Material HANDling Institute
8720 Red Oak Boulevard, Suite 201
Charlotte, NC 28217
(704) 522-8644

Fax: (704) 522-7826

Founded: 1958

Standards Staff: 1

Type of Organization	Trade Association Standards Developer
Standards Development	Standards developer since 1958. 33 member companies participating in standards activities. 4 active standards. Two being processed through ANSI.
Scope	Consists of firms engaged in the design and manufacture for sale of industrial steel storage racks. Active in standardization and fire protection of high rack storage areas.
Standardization Activities	Publishes standards and nomenclature including - Specification for the Design, Testing and Utilization of Industrial Steel Storage Racks; Minimum Design Standards for Pallet Stacking Framer; Manual of Safety Practices; and Stacker Rack Nomenclature.
Availability	Distributed directly and through the Material Handling Institute, Inc.
Keywords	storage racks; material handling; stacker racks; industrial equipment;

RADIO TECHNICAL COMMISSION FOR AERONAUTICS

David S. Watrous, Executive Director

One McPherson Square
1425 K Street NW, Suite 500
Washington, DC 20005
(202) 682-0266

Founded: 1935

Standards Staff: 7

Type of Organization	Voluntary Consensus Standards Developer
Standards Development	Standards developer since 1935. Approximately 2,000 participants in standards development. 59 active standards. One document accepted as the international standard for airborne equipment environmental testing.
Standards Designation	Minimum Operational Performance Standards (RTCA/DO-XXX).
Government Adoption	The Federal Aviation Administration has adopted the majority of the airborne equipment standards as Technical Standard Orders (TSO).

Certification	None
Scope	<p>An association of aeronautical organizations of the United States from both government and industry representing the commercial and private airspace users, aircraft manufacturers, and airborne and ground electronic system manufacturers.</p> <p>Active in the field of aviation electronics and telecommunications, and other closely allied fields. Areas of interest include: determination of common operational requirements; state-of-art developments and applications; Minimum Operational Performance Standards for airborne systems; environmental test procedures for airborne equipment; operational and technical characteristics of systems; aeronautical frequency spectrum utilization; and other problems associated with air traffic control, navigation, communications and efficient use of airports and airspace.</p>
Standardization Activities	<p>Seeks solutions to problems involving the application of electronics and telecommunications to aeronautical operations. These solutions are frequently in the nature of recommended technical standards and common operational requirements which are acceptable to government, industry, and users. Cooperates with European Organizations for Civil Aviation Electronics (EUROCAE).</p>
Availability	Sold directly, and distributed through IHS, NSA, and Avionics Magazine.
Keywords	avionics; aeronautical; telecommunications; MOPS; electronics.

RADIO TECHNICAL COMMISSION FOR MARITIME SERVICES

W.T. Adams, President

P.O. Box 19087
 Washington, DC 20036
 (202) 639-4006

Founded: 1947

Type of Organization	<p>Technical Society</p> <p>Standards Developer</p>
Standards Development	<p>Standards cover all aspects of maritime telecommunications. None Processed through ANSI</p> <p>Draft standards not available for review by non-RCTM members</p>

Standards Designations	RTCM Recommendations, usually with designator Special Committee (SC) Report Number
Government Adoption	RTCM Recommendations, where appropriate, are adopted by cognizant government agencies such as FCC and U.S. Coast Guard.
Certification	No certification, qualification, or accreditation programs
Scope	160 member organizations active in all aspects of maritime telecommunications including any transmission, emission, or reception of signs, signals, writing, images, and sounds, or intelligence of any nature by wire, radio, optical, and other electromagnetic and visual systems.
Standardization Activities	Standardization activities are primarily focused on user-defined requirements for maritime telecommunications. Special Committees formed to address standards areas are open to participation by all RTCM members and government agencies. Liaison is maintained with appropriate national and international organizations working in similar areas.
Availability	Distributed directly
Formerly	Radio Technical Commission for Marine Services
Keywords	maritime; shipping; boating; radio; electronics; telecommunications; radiodetermination; radionavigation; radiolocation; radar; transportation; communications; electronics;

RADIOLOGICAL SOCIETY OF NORTH AMERICA

Delmar J. Stauffer, Executive Director

1415 West 22nd Street
Oak Brook, Illinois 60521
(312) 571-2670

Founded: 1915

Type of Organization	Professional Society Works through other organizations to develop standards
Representation	A member of the Medical Devices Standards Board, ANSI, and the National Council of Radiation Protection and Measurements.

Scope	A professional society which promotes the study and practical application of radiology, radium, electricity, and other branches of physics related to medical science.
Standardization Activities	Supports activities of the organizations listed above and reports to its members annually on standards activities.
Keywords	radiology; radiation; medical devices

RAILWAY TIE ASSOCIATION

Raymond R. Wingard, Executive Director
 910 Sheraton Drive, Suite 430
 Mars, Pennsylvania 16046
 (412) 772-1790

Founded: 1919

Type of Organization	Trade Association Standards Developer
Standards Development	3 standards
Standards Designation	Specifications for Cross Ties and Switch Ties Wood Tie Fastener Performance Specification SelectTie economic analysis model for alternative ties in track
Scope	Membership consists of those interested in the manufacture, procurement and chemical preservation of wood railroad crossties. Cooperates with government agencies in conservation of forest products. Collects statistics, promotes standardization of cross ties, and provides models for economic analysis.
Standardization Activities	Administered by an Executive Committee, a Committee on Research and Development, and other active committees. Active in international activities through its Canadian membership. Cooperates with government agencies on cross tie specifications. Works with the Association of American Railroads Research Center and several railroads in Research & Development and in-track testing of ties, including tests at Pueblo, Colorado Test Track Center.
Availability	Distributed directly
Formerly	National Association of Railroad Tie Producers
Keywords	railway ties; cross ties; transportation;

RECORDING INDUSTRY ASSOCIATION OF AMERICA

Jason S. Berman, President

1020 19th Street, NW, Suite 200
Washington, DC 20036
(202) 775-0101

Founded: 1952

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

4 active standards

Certification

No certification, qualification, or accreditation programs

Scope

A nonprofit trade association for the U.S. sound and video recording industry. Promotes mutual interests of recording companies and the betterment of the industry. Initiates and sponsors programs and activities geared to the needs and problems of the recording industry.

**Standardization
Activities**

The Engineering Committee provides an ongoing review to maintain high technical standards for phonograph records, prerecorded audio tapes, videodiscs and videocassettes, and digital audio discs to insure uniformity and compatibility. Cooperates with ANSI, IEC, and EIA, and has drafted its own dimensional standards to facilitate equipment design and assure interchangeability.

Availability

Distributed directly

Formerly

Record Industry Association of America (1952)

Keywords

phonograph records; cassettes; videodiscs;
videocassettes; recording; communications;

RECREATION VEHICLE INDUSTRY ASSOCIATION

Bruce A. Hopkins, Vice President, Standards

1896 Preston White Drive
Reston, Virginia 22090
(703) 620-6003

Founded: 1963

Standards Staff: 7

**Type of
Organization**

Trade Association
Standards Developer

Standards Development	3 active standards
Secretariats	ANSI Committee A119, Recreation Vehicles and Recreation Vehicle Parks; ANSI EGS-1, Standard for Engine Generator Sets for Recreation Vehicles; Standard for Park Trailers
Scope	Manufacturers and suppliers of recreational vehicles. Provides the industry a base from which to communicate with legislators, government agencies, the media, and the general public.
Standardization Activities	Coordinates state activities, inspection services, and standards development. Establishes minimum requirements for installation of plumbing, electrical, and other safety related systems in recreation vehicles, park trailers, and for design and construction features for recreation vehicle parks and campgrounds. Monitors state agencies; does compliance inspections on member manufacturers; provides educational programs on compliance standards. Monitors proposed standards and keeps industry informed of changes. Requires that manufacturers comply with existing standards as a condition for membership. Representation on standards committees of ANSI and NFPA.
Availability	Distributed directly
Formerly	American Institute of Travel Trailer and Camper Manufacturers (1968) Recreation Vehicle Institute (1974)
Keywords	recreation; transportation; recreational vehicles;

REDWOOD INSPECTION SERVICE

A division of California Redwood Association

Keith Lanning, General Manager

405 Enfrente Drive, Suite 200
Novato,, California 94949
(415) 382-0662

Founded: 1961

Standards Staff: 5

Merged into the CRA in 1986

Type of Organization

Trade Association
Standards Developer

Standards Development

Developed standard for California Redwood Lumber through authorization of the American Lumber Standards Committee and PS-20-70.

Standards Designation	Standard Specifications for Grades of California Redwood Lumber
Certification	Adopts official grademarks signifying that products so marked have been graded in accordance with standard specifications of the Redwood Inspection Service. Grademarks are applied by qualified graders of member companies or by cooperating grading agencies operating within requirements established by the American Lumber Standards Committee.
Scope	A non-profit organization for the primary purpose of establishing uniform grades of redwood lumber, consultation with government agencies concerning grades and grading of redwood and other species of lumber. Promulgates rules for the redwood lumber industry. Membership includes 85 percent of the redwood producers. Rules are developed by a Quality Standards Committee and approved by Board of Directors.
Standardization Activities	Adopts standard specifications for grades, sizes, patterns, and grademarks for redwood lumber; planing mill products; special purpose uses for redwood lumber including tank stock, stadium seat stock, foundation sills, structural grades, structural glue laminating grades, and miscellaneous products including railroad ties, cooling tower material, shingles and shakes. Cooperates with other lumber organizations and with the American Lumber Standards Committee in keeping current the American Lumber Standards set forth in the US Department of Commerce Product Standard 20-70. Grading rules for redwood lumber are in accordance with these standards and approved by ALSC.
Availability	Sold directly
Keywords	wood products; shingles; grading rules; inspection; lumber; building; railway ties;

REFRATORIES INSTITUTE

Charles G. Marvin, Vice President

301 Fifth Avenue, Suite 326
Pittsburgh, Pennsylvania 15222
(412) 281-6787

Founded: 1951

Type of Organization	Trade Association Works through other organizations to develop standards.
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Representation	Active in ASTM Committee C-8 on Refractories and ISO Committee TC-33 on Refractories.
Scope	A national trade association representing a large segment of the refractories industry which is comprised of over 130 companies, operating more than 250 establishments and employing more than 20,000 hourly workers throughout 37 states. Primary purposes are to promote demand for the industry's products, to conduct and stimulate research aimed at improving products and processes, to aid in the development of new product applications, to keep its members abreast of new developments and to work cooperatively with government agencies involved with the industry.
Standardization Activities	Cooperates with national technical associations test methods for refractories. Informs member companies of U.S. and international standardization activities regarding refractories.
Keywords	refractories; fireclay; firebrick; insulating refractories; dolomite; materials;

RESILIENT FLOOR COVERING INSTITUTE

	Walter D. Anderson, Managing Director
	966 Hungerford Drive, Suite 128 Rockville, Maryland 20850 (301) 340-8580 Fax: (301) 340-7283
	Founded: 1929
Type of Organization	Trade Association Standards Developer
Standards Development	Standards developer since 1929
Standards Designation	RFCI prefix
Scope	Represents resilient floor covering producers of tile and sheet vinyl flooring products in the United States.
Standardization Activities	Developed standards for tile and sheet vinyl products, including adhesives and installation and maintenance instructions. Works with the federal government in developing standards for resilient tile and sheet vinyl for use by the government.
Availability	Distributed directly
Keywords	floor covering; vinyl tile; building

RESISTANCE WELDER MANUFACTURERS ASSOCIATION

Meg Morgan, Executive Director

1900 Arch Street
Philadelphia, Pennsylvania 19103
(215) 564-3484 Fax: (215) 564-2175

Founded: 1931

**Type of
Organization**

Trade Association
Standards Developer

Scope

A trade association representing North American companies engaged in manufacturing resistance welding machines, electrodes and components (controls, transformers, etc.) Engages in a varied program of activities embracing the development of standard specifications for numerous types of resistance welding equipment, research and development work and cooperation with other associations and industries with mutual or parallel interests and problems.

**Standardization
Activities**

Developed specifications for resistance welding machines: spot, press, portable, seam, upset butt, flashbutt, etc.; electrode alloy materials; nomenclature, definitions, etc. Developed standard classification for resistance welding electrode alloys, stating minimum permissible physical and electrical qualities. Identified and classified trade names and numbers. Also developed standards for spot welding electrode holders welding electrodes (spot and seam), together with recommended electrode alloys for spot welding of similar and dissimilar metal combinations. Developed standard nomenclature and definitions on resistance welding equipment and techniques. Cooperates with the National Electric Manufacturers Association and the American Welding Society to develop standards.

Availability

Distributed directly

Keywords

resistance welding; manufacturing; spot welding;
welding electrodes;

RICE MILLERS ASSOCIATION

David Graves, President

1235 Jefferson Davis Highway, Suite 302
Arlington, Virginia 22202
(703) 920-1281 Fax: (703) 521-5814

Founded: 1899

Type of Organization	Trade Association Standards Developer
Scope	A national, nonprofit association of independent rice milling companies and farmer-owned cooperative rice milling firms. Collects and compiles statistics, acts as a liaison between industry and government, arbitrates disputes, assists in establishment of standards, and generally promotes the rice milling industry.
Standardization Activities	Establishes standard contract terms and conditions for trade in rice and rice products. Prescribes standard forms of sales contracts for use in the United States, Puerto Rico, and export markets. Adapts and uses grade and quality standards of the U.S. Department of Agriculture.
Keywords	rice; grain; rice milling; agriculture; food;

ROBOTIC INDUSTRIES ASSOCIATION

James M. Prange, Director of Standards Development

900 Victors Way
P.O. Box 3724
Ann Arbor, Michigan 48106
(313) 994-6088 Fax: (313) 994-3338

Founded: 1974

Type of Organization	Trade Association Standards Developer
Standards Development	Standards developer since 1982 Over 250 representatives participate in the seven R15 Standards Subcommittees. Most of RIA standards are processed through ANSI Subcommittees. Draft Standards available for review.
Standards Designation	RIA/R15.x
Government Adoption	The Occupational Safety and Health Administration references ANSI/RIA R15.06-1986 in its <u>Guidelines for Robotic Safety</u> .
Secretariats	Domestic: R15.01, R15.02, R15.03, R15.04, R15.05, R15.05WG1, R15.06, and R15.07 International: USTAG/ISO/TC 184/SC 2

Scope	The Robotic Industries Association provides leadership for the responsible advancement of the entire robotics industry in North America. Some of the Association's objectives include providing mutual communications and organization of groups within the robotic industry to initiate and pursue programs of common technical, marketing, or management interest; and developing robotic industry and robotic system standards which will enhance the use and application of automation equipment.
Standardization Activities	Standardization in the field of robotics, including activities within the following technical committees: Electrical Interface (R15.01), Human Interface (R15.02), Mechanical Interface (R15.03), Communication/Information (R15.04), Performance (R15.05), Reliability (R15.05-WG1), Safety (R15.06), and Simulation/Offline Programming (R15.07).
Availability	Draft standards available from RIA. ANSI-approved standards available from RIA and ANSI.
Keywords	robotics; robot systems; flexible manufacturing system; automation;

RUBBER MANUFACTURERS ASSOCIATION

	Steven Butcher, Secretary, Hose Technical Committee
	1400 K Street, NW Washington, DC 20005 (202) 682-4818
	Telex: 892666 Rubber Club Washington
	Founded: 1915
	Standards Staff: 5
Type of Organization	Trade Association Standards Developer
Standards Development	200 member companies participate in standards development. Some standards are submitted to ANSI canvassing procedures. Draft standards are available for review by interested organizations.
Standards Designation	RMA; Joint RMA/MPTA/RAC (Mechanical Power Transmission Association/Rubber Association of Canada); Joint RMA/TFI (The Fertilizer Institute); Joint RMA/CGA (Compressed Gas Association).
Government Adoption	Some RMA documents are cited by some federal regulatory agencies, e.g., OSHA.

Certification	No certification, qualification or accreditation programs.
Secretariats	ISO/TC 45/SC 1 - Hoses - ISO/TC 45/SC 1/Working Group 1 - Industrial, Chemical, and Petrochemical Hoses - ISO/TC 41/SC 4 - Synchronous Belt Drives - ASTM Subcommittee D11.31 - Rubber Hose - International Rubber Quality and Packing Conference -
Scope	A national trade association of the rubber industry, representing over 200 member companies which manufacture finished rubber products. Operates on state, national and international levels and represents its members before legislative and regulatory bodies, as well as in other standards-writing forums.
Standardization Activities	Committees review and make recommendations on governmental standardization proposals and participate in the standard programs of ANSI, SAE, ASTM, DOT, OSHA, DOD, DOC and others. Develops standards and specifications for hose, conveyor belting, power transmission belting, sealing products, molded and extruded products, protective linings, roll coverings, and coated materials.
Availability	Distributed directly, through member companies, and through ANSI.
Formerly	New England Rubber Club (1909) Rubber Club of America (1917) Rubber Association of America (1929)
Keywords	rubber; elastomeric; hose; conveyors; transmission belts; industrial equipment; seals; coated materials; materials;

SAFETY GLAZING CERTIFICATION COUNCIL

Robert L. Brown, President

ETL Testing Lab Inc.
Industrial Park 3933 Route 11
P.O. Box 2040
Cortland, New York 13045-0950

Founded: 1971

Type of Organization	Certification Organization
Certification	Products complying with established safety characteristics can be marked with a label signifying

certification by the SGCC. A number is also assigned to the safety glazing material.

Scope	A not-for-profit organization of manufacturers of safety glazing products, building code administrators, and others. Established and maintained a program to administer periodic testing related to the Consumer Product Safety Commission standard for safety glazing in buildings (16 CFR 1201), and as outlined in ANSI Z97.1-1984. Also approves and registers the manufacturers label with the ability to withdraw certification if deemed appropriate.
Standardization Activities	Administers a safety glazing certification program which is operated in compliance with ANSI Practice for Certification Procedures and the Code of Federal Regulations. Uses independent testing laboratories to sample and evaluate products. Publishes Certified Products Directory which lists all certified products, label requirements, and procedural guidelines for manufacturers seeking certification.
Availability	Distributed directly
Keywords	glazing; tempered glass; glass; materials; building;

SALT INSTITUTE

Bruce M. Bertram, Technical Director

700 North Fairfax Street, Suite 600
Alexandria, Virginia 22314
(703) 549-4648

Founded: 1914

Standards Staff: 1

Type of Organization	Trade Association Works through other organizations to develop standards
Scope	A nonprofit association supported by the world's major salt producers. Its 8 U.S. members produce 95% of the dry salt produced in the United States. Activities include information services, government relations, member services, and field services.
Standardization Activities	Serves as the national and the international standards representative for the salt industry. Cooperates with the National Academy of Sciences and the Department of Labor, General Services Administration, and the U.S. Army Natick Laboratories. Also works with the American National Standards Institute, the American Society for Testing and Materials, the American Water Works Association, the United States Pharmacopeia, the American Association of State Highway and

Transportation Officials, and the American Feed Manufacturers Association.

Formerly The Salt Producers Association (1963)
Keywords salt; sodium chloride; materials;

SCAFFOLDING, SHORING AND FORMING INSTITUTE

John H. Addington, Managing Director
1230 Keith Building
Cleveland, Ohio 44115-2180
(216) 241-7333

Founded: 1960

Type of Organization Manufacturing Trade Association
Professional Society Standards Developer

Standards Development 13 standards prepared
None processed through ANSI

Scope Fourteen manufacturers of scaffolding, suspended powered scaffolding, shoring and forming. Establishes recommended criteria and inspection procedures for the proper and safe use of scaffolding to support formwork in concrete construction.

Standardization Activities Provides recommended safety requirements for shoring concrete formwork and scaffolding including flying deck forms, rolling shore brackets, horizontal shoring beams, single post shores, steel frame shoring. Also provides recommended scaffolding erection procedure.

Availability Sold directly

Formerly Steel Scaffolding and Shoring Institute

Keywords scaffolding; shoring; suspended powered scaffolding; forming; construction; safety;

SCALE MANUFACTURERS ASSOCIATION

Raymond J. Lloyd, Executive Director

932 Hungerford Drive #36
Rockville, Maryland 20850
(301) 738-2448 Fax: (301) 738-0076

Founded: 1945

Type of Organization Trade Association
Standards Developer

Standards Development	Standards developer since 1945. 34 members in association. 5 active standards. 1 processed through ANSI.
Standards Designation	SM prefix
Certification	No certification, qualification or accreditation programs.
Scope	A national trade association that represents U.S. manufacturers of scales, balances and major weighing elements.
Standardization Activities	Directed toward fulfilling user-defined requirements of the industry and its customers through participation in both national and international standardization efforts.
Availability	Distributed directly
Keywords	scale; weighing machines; instruments;

SCREEN MANUFACTURERS ASSOCIATION

June G. Fitzgerald, Executive Secretary

655 Irving Park at Lake Shore Drive
Suite 201 Park Place
Chicago, Illinois 60613
(312) 525-2644

Founded: 1955

Standards Staff: 1

Type of Organization	Trade Association Standards Developer
Standards Development	Six active standards

Standards Designation	SMT, SMA, and ANSI prefixes
Scope	Manufacturers of metal window, patio, door, and porch screens; sponsors research programs; compiles statistics.
Standardization Activities	Develops and maintains testing procedures and specifications for metal and solar screens.
Availability	Sold directly
Keywords	screens; building;

SEALED INSULATING GLASS MANUFACTURERS ASSOCIATION

	J. Dollart Carey, Executive Vice President
	111 East Wacker Drive, Suite 600 Chicago, Illinois (312) 644-6610
	Founded: 1963
Type of Organization	Trade Association Works through other organizations to develop standards
Representation	Works with ASTM
Scope	Manufacturers of insulation glass and suppliers to the industry. Compiles statistics, provides government liaison, publishes information on test methods.
Keywords	insulating; glass; building;

SEMICONDUCTOR EQUIPMENT AND MATERIALS INTERNATIONAL

	William A. Brown, Manager, International Standards
	805 East Middlefield Road Mountain View, California 94043-2295 (415) 964-5111 Fax: (415) 967-5375 Easylink: 62819945
	Founded: 1970 Standards Staff: 7
Type of Organization	Trade Association Standards Developer
Standards Development	Standards developer since 1974 230 active standards Draft Standards available for review None processed through ANSI

Standards	C Chemicals and Gases
Designations	E Equipment Automation/Hardware, Equipment Automation/ Software
	G Packaging
	M Materials
	P Micropatterning
	S Facilities and Safety

Scope With 1,350 corporate members, SEMI serves the international semiconductor community by fostering the advancement of knowledge about equipment, materials, and services distinct to the production and use of semiconductor devices. Founded in 1970 to develop the SEMICON trade shows, SEMI activities have expanded to include technical symposiums, market research seminars, trade issues, and standards development.

Standardization Activities The SEMI Standards Program encompasses virtually every facet of semiconductor manufacturing and has established specifications and test methods in six critical areas: chemicals, equipment (including automation and communications), materials, packaging, micropatterning and safety. Emphasis in standards development is placed upon: communication between producers and users; interchangeability of products and components; technology transfer; safety; and efficiencies in design, production, and inventory.

Nearly 3,000 engineers, scientists, and technicians volunteer to serve on standards setting technical committees in Japan, Europe, and the United States. Many committees have established a liaison with one or more of the following standards organizations: ASTM, ANSI, CGA, JEDEC, IEEE, and NIST. Membership in SEMI standards programs is open to all interested companies.

A balloting procedure designed to allow maximum fair participation precedes the approval of any specification. Procedural reviews of all standards ensure that the formal balloting process has been properly performed.

The SEMI Standards, a six-volume publication, is revised annually for publication in April.

Availability Distributed directly and through IHS

Keywords semiconductors; high technology; manufacturing; chemicals; equipment; materials; packages; photomasks; automation; communications; integrated circuits; gases; micropatterning;

SFI FOUNDATION INC.

Arnold S. Kuhns, President

15708 Pomerado Road, Suite N208
Poway, California 92064
(619) 451-8868

Founded: 1978

**Type of
Organization**

Standards Developer

Certification

Manufacturer self-certification program for various products used in automotive aftermarket.

Scope

An international standards setting organization involved with companies worldwide in the areas of motorsports, road wheels and consumer products.

**Standardization
Activities**

Activities are directed towards fulfilling user defined requirements of the motorsports, road wheels and consumer products industries. Standards are minimum performance in nature and compliance with the specifications enables the user to self certify product.

Formerly

SEMA Foundation, Inc.

Keywords

Motorsports; road wheels; consumer products;

SHEET METAL, AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION

W. Davis Bevirt, Director of Technical Research

8224 Old Courthouse Road
Vienna, Virginia 22180
(703) 790-9890

Founded: 1944

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

16 active standards
None processed through ANSI

Scope

A nonprofit trade association dedicated to the advancements of the sheet metal, heating, ventilating, air-conditioning, industrial sheet metal, and roofing industries. Activities and services are carried out in four department: technical, labor relation, legislative affairs, and business management.

**Standardization
Activities**

The Technical Services Department administers standards activities. Although some standards are developed for labor relations and safety practices, the majority fall into two categories: duct construction and architectural sheet metal.

Publishes Accepted Industry Practice for Industrial Duct Construction, Architectural Sheet Metal Manual, Ducted Electric Heat Guide for Air Handling Systems, Energy Conservation Guidelines, Energy Recovery Equipment and Systems Air-to-Air, Fibrous Glass Duct Construction Standards, Fire, Smoke and Radiation Damper Guide for HVAC Systems, Guide for Steel Stack Design and Construction, Guidelines for Roof Mounted Outdoor Air-Conditioner Installation, HVAC Air Duct Leakage Test Manual, HVAC Duct Construction Standards-Metal and Flexible, HVAC Systems-Duct Design, HVAC Systems-Duct Design Tables and Charts, HVAC Systems-Applications, HVAC Systems-Testing, Adjusting and Balancing, Indoor Air Quality Manual, Installation Standards for Residential Heating and Air Conditioning Systems, Management Change Order Manual, Managers Guide for Welding, Rectangular Industrial Duct Construction Standards, Retrofit of Building Energy Systems and Processes, Round Industrial Duct Construction Standards, Thermoplastic Duct (PVC) Construction Manual, Welding Guidelines/Troubleshooting Chart, Standards Practice in Sheet Metal Work, Environmental Systems Technology, Sound and Vibration in Environmental Systems, Procedural Standards for Measuring Sound and Vibration, Procedural Standards for Testing, Adjusting, and Balancing of Environmental Systems, Procedural Standards for Certified Testing of Cleanrooms, and Testing, Adjusting, Balancing Manual for Technicians.

Availability

Distributed directly

Formerly

Sheet Metal Contractors National Association (1956)

Keywords

air-conditioning; air handling; indoor air quality;

SILVER INSTITUTE

John H. Lutley, Executive Director

1026 16th Street, NW, Suite 101
Washington, DC 20036
(202) 331-1227

Telex: 904233

Founded: 1971

Standards Staff: 1

**Type of
Organization**

Trade Association
Standards Developer

Standards Designations	Unified Number Designations
Government Adoption	Government use, not adoption
Certification	No certification programs, supplier self certification
Secretariats	ASTM Committee B-2, Section on Unified Numbering System Designations for Precious Metals.
Scope	An international trade association of miners, refiners, fabricators, and bullion dealers. Extends the market for the use of silver through publications, seminars, joint symposiums with technical organizations, and trade shows.
Standardization Activities	Develops standard alloy designations for silver alloys for Unified Numbering System for Metals and Alloys issued by the Society of Automotive Engineers (SAE) and the American Society for Testing and Materials.
Availability	Distributed directly and through ASTM and SAE
Keywords	silver; precious metals; bullion; alloys; materials;

SMALL MOTOR MANUFACTURING ASSOCIATION

Elizabeth Bevington-Chambers, Executive Director

P.O. Box 378
 Sherborn, Massachusetts 01770
 (508) 655-4409

Founded: 1975

Type of Organization	Trade Association Standards Developer
Standards Development	Standards developer since 1975 120 member companies participate in standards activities 10 active standards plus 1 under development
Certification	No certification, qualification, or accreditation programs
Scope	An international industry organization representing original equipment manufacturers, users, suppliers, and other interested parties involved in the manufacture of fractional and subfractional horsepower motors.

Standardization Activities	The Technical and Standards Committee works with Underwriters Laboratories, Canadian Standards Association, government agencies and other associations in developing standards. Topical areas include tachometers, general motor terminology, permanent magnet motors, permanent split capacitor motors, universal motors, shaded pole motors, and technical reference information for brushes, contacts, and magnets. Promotes manufacturer/user interface.
Availability	Distributed directly
Keywords	electrical equipment; tachometers; industrial equipment; motors; magnets;

SNELL MEMORIAL FOUNDATION

	Suzanne A. Snively, M.D., President
	P.O. Box 493 St. James, New York 11780 (516) 862-6440 Fax: (516) 862-6545
	Founded: 1957
Type of Organization	Nonprofit research corporation Standards developer
Certification	Approves manufacturers products meeting its standards and other criteria for certification under contractual agreements, providing, among other matter, ongoing random sample testing of helmets taken from dealer shelves.
Secretariats	ANSI Z90, Vehicular Head Protection
Scope	A nonprofit corporation whose primary purpose is to conduct research in brain trauma and head protective devices and to develop and utilize advanced techniques for related critical measurements. Establishes upper level standards for protective devices, maintains an ongoing research program in head injury and a program in education related to vehicular safety. Linked with European counterpart, Snell Memorial Foundation (UK).
Standardization Activities	Promulgated in 1959 the first standard for road user crash helmets in the United States. Its helmet Standards are generally recognized as carrying the most stringent safety performance requirements for road user protective headgear in the world today. Has also established standards of safety performance criteria for skier, bicyclists, and equestrian protective helmets. Standards are not minimum standards but, rather, represent the upper levels of protective

criteria which the manufacturing are is capable of meeting, and as that capability increases, the level of the standard is raised. Through its certification program, the Foundation is able to keep in the forefront of improvements in the state of the manufacturing art, both as to methodology and materials, and to obtain data useful in its research program and its development of more sophisticated test procedures.

Availability Distributed directly

Keywords helmets; head protection; vehicular safety; brain trauma; skiers; bicyclists; motorcyclists; equestrians; safety; social welfare; sports;

SNOWMOBILE SAFETY AND CERTIFICATION COMMITTEE

R.W. Muth, Chairman

3975 University Drive, Suite 310
Fairfax, Virginia 22030
(703) 273-9606

Founded: 1974 Standards Staff: 1

Type of Organization Trade Association
Standards Developer

Standards Development Standards developer since 1974
3 manufacturers participate in standards activities
29 active standards
Standards processed by SAE
Draft standards available for review

Standards Designations SSCC/10, Safety Standards for Snowmobile Product Certification

Government Adoption All or portions of the standard accepted by Connecticut, Maine, Maryland, Massachusetts, Michigan, Minnesota, Montana, New Hampshire, Oregon, Pennsylvania, Rhode Island, Vermont, Wisconsin and Canada.

Certification Certification program administered since 1975. Each conforming machine bears a Certification Label which signifies that the United States Testing Company, has independently confirmed that the vehicle has been manufactured in compliance with SSCC safety standards. In the area of operator education, provincial and state safety training programs are certified by the SSCC as being in compliance with uniform standards. To date, the instructional programs of sixteen states and provinces have been certified.

Scope	A nonprofit membership association organized to promote, foster, and encourage by any and all lawful means safe, enjoyable opportunities for snowmobiling through operator safety training and education programs; safe trail, use area and facility development; development of voluntary snowmobile machine safety standards and the independent certification thereof.
Standardization Activities	Has established a comprehensive machine standards program for snowmobile manufacture. Since February 1, 1975, all snowmobiles produced by participating manufacturers conform to the minimum safety standards for snowmobile product manufacture in effect on the date of their manufacture. Incorporated in the standards are requirements for seats, controls, brake and fuel systems, shields and guards, electrical and lighting systems, reflectors, hand grips, general hazard requirements and emergency starting.
Availability	Sold directly
Keywords	snowmobile; safety; acoustics; recreation;
<u>SOCIETY FOR EXPERIMENTAL MECHANICS, INC.</u>	
	Kenneth A. Galione, Managing Director
	7 School Street Bethel, Connecticut 06801 (203) 790-6373
	Founded: 1943
Type of Organization	Scientific Society Standards Developer
Standards Development	Standards developer since 1980 Forty firms participate in standards activity One active standard pending through ANSI
Standards Designation	Strain Gage Bridge Designation and Color Code of Terminal Connections for Portable Strain Indicators
Certification	No certification, qualification, or accredited programs in United States. SEM is affiliated with the British Society for Strain Measurements which does certify and accredit.
Scope	Specialists in experimental mechanics in this country and overseas active in academic, government, and industrial research and development and include engineers, manufacturers, consultants, user and vendors

of plant equipment, services, and systems. Maintains close contact with professional groups in Europe, Japan, Korea and in the United States through joint meetings and combined memberships.

**Standardization
Activities**

Represents a broad range of activities in experimental mechanics. Various Technical Division Committees serve professional interests in areas such as composite materials, fracture, modal analysis, structural testing, residual stresses, optical methods, strain gages, and transducers. Members active in non-destructive testing are currently part of the Modal Analysis Committee but are expected to form an independent unit.

Availability

Distributed directly

Formerly

Society for Experimental Stress Analysis

Keywords

structural stress; material stress; experimental mechanics; testing;

SOCIETY FOR INFORMATION DISPLAY

Lawrence E. Tannas, Jr., President

8055 West Manchester Avenue, Suite 615
Playa del Rey, California 90293
(213) 305-1502

Founded: 1962

**Type of
Organization**

Technical engineering professional society.
Volunteer professional organization devoted to the understanding of displays

**Standards
Development**

Joint standards with Electronic Industries Associations through joint committees with SID writing standards and EIA administering standards written by SID. SID Definitions and Standards Committee maintains liaison with other standards formulating groups within the industry.

**Standards
Designation**

SID/EIA prefixes

Scope

SID is international in scope with membership in academic, commercial and government organizations. Display theory, display device and systems development and psychological and physiological effects of displays are all within the area of activities performed by the society.

Standardization Activities	Flat panel, cathode-ray and other display devices and systems definitions, test methods and tutorial documents. Two joint SID/EIA committees are currently active in writing standards. These are JT20 for Cathode-Ray Display Devices and JT33 for Flat Panel Displays.
Availability	Directly through EIA or SID
Keywords	displays; definitions; characterization; viewability; data processing; electronics; television; communications;

SOCIETY FOR TECHNICAL COMMUNICATION

	William C. Stolgitis, Executive Director 901 N. Stuart Street Arlington, Virginia 22206 (703) 737-0035 Founded: 1957
Type of Organization	Technical Society Standards Developer
Scope	A nonprofit, educational membership organization whose purpose is to advance the theory and practice of technical communication in all media. It has chapters in the United States, Canada, and other countries. Activities include chapter programs, an annual international technical communication conference, publication of a journal, and standards and reference material used in technical documentation, manuals, reports, and writings.
Standardization Activities	Maintains a Standards Council which is interested primarily in guidelines which bear directly upon the profession of technical communications, and data and procedural standards for science, engineering, and the arts that must be applied, interpreted, or referenced in technical communication. Cooperates with the American National Standards Institute, the Metric Association, and others concerned with publication of technical information.
Formerly	Merger of Association of Technical Writers and Editors, and Society of Technical Writers (1957)
Keywords	technical writing; technical information; communications; metric;

SOCIETY OF AUTOMOTIVE ENGINEERS

Herb Kaufman, Manager, Land and Sea Technical Division
Bill Wagner, Manager, Air and Space Technical Division

400 Commonwealth Drive
Warrendale, Pennsylvania 15096
(412) 776-4841 Telex: 866-355
Fax: (412) 776-0002

Founded: 1902

Type of Organization

Professional Society
Standards Developer

Standards Development

Standards developer since 1902
14,000 members participating in standards activities
1,300 ground vehicle documents published in SAE Handbook
1,700 aerospace documents published in looseleaf form
2,200 Aerospace Material Specifications published in looseleaf form and microfiche
Approximately 500 documents annually are processed through ANSI

Standards Designations

J-Reports, Ground Vehicle Industry Standard,
Recommended Practice and Information Report
AMS, Aerospace Material Specification
MAM, Metric Aerospace Material Specification
AS, Aerospace Standard
MA, Metric Aerospace Standard
ARP, Aerospace Recommended Practice
MAP, Metric Aerospace Recommended Practice
AIR, Aerospace Information Report
HIR, Hydrospace Information Report

Government Adoption

The Department of Defense has adopted 1,300 SAE documents. SAE standards are recognized in government publications as methods for measuring or testing for minimum technical requirements in areas where government regulatory control has been established.

Accreditation

SAE operates several accreditation programs under the sponsorship of industry and government. The Lubricants Review Program and Oil Labelling Assessment Programs are operated for the U.S. Army. The JGES Verification Program operated under a contract for NIST. A new Defense Contractor Accreditation (NADCAP) program will audit and approve suppliers to the aerospace industry.

Secretariats

Sponsors several U.S. Technical Advisory Groups for ISO Technical Committees and Subcommittees including ISO/TC 20, TC 22, TC 127 and TC 96.

Scope

A not-for-profit educational, scientific, and engineering society dedicated to advance the arts, sciences, standards, and engineering practices connected with the design, construction, and utilization of self-propelled mechanisms, prime movers, components thereof, and related equipment to preserve and improve the quality of life.

Prime objectives are to provide educational opportunities for engineers and to provide a medium through which they can advance the arts and science of engineering and promote public welfare. There are only individual memberships in SAE. Therefore, members perform their SAE functions as individuals, not as representatives of their employers. SAE interfaces with every agency of the government concerned with the design, manufacture, or regulation of vehicles. Because of the government's interest in regulatory activities relating to transportation equipment, and as a large volume purchaser of vehicles of all types, government agencies have historically drawn upon SAE and its Cooperative Engineering Program for information and assistance.

Develops and publishes technical literature and formulates engineering standards, specifications, and test procedures that are used in the design and manufacture of ground and aerospace vehicles.

Standardization Activities

Engages in technical standardization work for the motor vehicles, aircraft, airline, space vehicles, farm tractor, earthmoving, and roadbuilding machinery, and other manufacturing industries using internal combustion engines. Standards are the product of 600 Technical Committees. The SAE Handbook includes more than 1,300 ground vehicle industry standards. Standards are revised as needed to keep them up to date with new engineering developments. Obsolete standards are discontinued. Standards in the SAE Handbook include safety performance test codes, material specifications, and dimensional requirements on such subjects as vehicle lighting, tires, brakes, ride and vibration, steels, non-metallic materials, screw threads, and involute splines. Although voluntary, SAE standards are widely used throughout industry and many federal and state regulations reference them for minimum performance on safety items.

SAE Aerospace Standards, Recommended Practices, and Information Reports are design and/or parts standards applicable to missile, airframe, ground-support equipment, propulsion, propeller, accessory equipment, and airline industries. Aerospace Recommended Practices give dimensional, design and/or performance recommendations intended as guides for standard

engineering practice. The Aerospace Information Reports contain useful engineering data and information.

SAE Aerospace Material Specifications cover materials, material tolerances, quality control procedures and processes. They list chemical composition, detailed technical requirements, and cross-reference similar specifications and materials for corrosion and heat resistant steels, wrought low-alloy steels, cast iron and low-alloy steels; aluminum, magnesium, copper, titanium and miscellaneous nonferrous alloys; nonmetallics, special property materials, and refractory and reactive materials.

Availability	Distributed through ANSI, IHS, Global, NSA, American Technical Publishers, and Navy Publications and Forms Center
Formerly	Society of Automobile Engineers (1905)
Keywords	vehicles; automobiles; trucks; buses; aircraft; aerospace; engines; tractors; farm equipment; construction equipment; ground support equipment; fuels; lubricants; material; metals; alloys; refractories; defense; materials; transportation;

SOCIETY OF FIRE PROTECTION ENGINEERS

D. Peter Lund, Executive Director

60 Batterymarch Street
Boston, Massachusetts 02110
(617) 482-0686

Founded: 1950

Type of Organization	Professional Society Works through other organizations to develop standards
Representation	592 representatives serve on technical committees of the National Fire Protection Association
Scope	Multinational professional society of fire protection engineers with more than 3,500 members.
Keywords	fire safety;

SOCIETY OF MOTION PICTURE AND TELEVISION ENGINEERS

Lynette Robinson, Executive Director
Sherwin G. Becker, Director of Engineering

595 W. Harsdale Avenue
White Plains, New York 10607
(914) 761-1100

Founded: 1916

Type of Organization

Technical Society
Standards Developer

Standards Development

Standards developer since 1916
650 members participating in standards activities
50% processed through ANSI
Draft standards available for review

Standards Designation

SMPTE/RP prefix; ANSI PH22.x; ANSI V98.x

Government Adoption

DoD adopts these standards regularly

Certification

No certification, qualification, or accreditation
programs

Scope

A nonprofit organization concerned with the engineering
aspects of motion pictures, television,
instrumentation, high-speed photography, and the allied
arts and sciences. Develops technical standards for
motion picture engineering and television.

Standardization Activities

Activities divided among eight parent technology
committees. Cooperates with national and international
organizations such as AES, EIA, IEEE, International
Radio Consultative Committee (CCIR), and major foreign
national standards bodies.

Availability

Distributed directly or through ANSI

Formerly

Society of Motion-Picture Engineers

Keywords

motion pictures; television; video recording;
photography; communications;

SOCIETY OF NAVAL ARCHITECTS AND MARINE ENGINEERS

Robert G. Mende, Executive Director

601 Pavonia Avenue, Suite 400

Jersey City, New Jersey 077306

(201) 798-4800

Telex: 126394 (AEGIS NYK)

Fax: (201) 798-4985

Founded: 1893

Type of Organization

Professional Society

Works through other organizations to develop standards

Representation

ASTM F-25

Scope

A technical, professional society of individual members serving the maritime and offshore industry and its suppliers. Activities include all aspects of research, design, production, maintenance and operation of ships, submersibles, yachts, boats, offshore and ocean bottom structures, and other advanced marine vehicles. Provides a forum for exchange of technical information and administers a research program involving 100 individuals as voluntary members and permanent staff in cooperation with government and regulatory agencies, scientific and research laboratories, academic institutions, and the marine industry.

Standardization Activities

Although not a standards developing organization, one of its technical panels has the responsibility of initiating standards and specification for the Shipbuilding Standards Committee F-25 of the American Society for Testing and Materials (ASTM). This is Panel SP-6 (Standards and Specifications) of the Ship Production Committee. In this way, SNAME interfaces directly with the F-25 standards development activity. F-25 draws upon the expertise in the SNAME Technical and Research Program by soliciting the need for certain shipbuilding standards and by using these same panels when conducting the necessary consensus review under the ASTM process. These standards are published periodically by ASTM.

Standards developed to date include various shipbuilding parts, such as cable brackets, hangars, pipe fittings and flanking, certain containers, angle irons, etc. Panel SP-6 is also involved in a program for the redrawing of selected Naval military specifications into commercial ASTM standards. SNAME members are called upon to review much of this standards writing along with the standards committees of ASTM.

Certain panels of the Society are also called upon to comment on the Standards development for small boats undertaken by Underwriters Laboratories (UL).

Keywords

marine; shipbuilding; boats; transportation;

SOCIETY OF THE PLASTICS INDUSTRY

Larry L. Thomas, President

1275 K Street, NW, Suite 400
Washington, DC 20005
(202) 371-5200

Founded: 1937

**Type of
Organization**

Trade Association
Standards Developer

Certification

Vinyl windows complying with ASTM D4099 are listed in the Vinyl Window and Door Institute Certified Products Directory.

Scope

A trade and technical society of 1,200 companies in the plastics industry interested in quality standards, research, uniform accounting, traffic rates, wage rate survey, tariffs, codes, public relations, informative labeling, safety, fire prevention, and food packaging. Membership consists of injection, compression, and transfer molders; laminators; extruders; fabricators; calenderers; printers; embossers; reinforced plastics processors; raw material suppliers; machinery and equipment manufacturers; tool, die and mold makers; research, development; and testing laboratories.

**Standardization
Activities**

Cooperates and supports the preparation of standards for plastics products through organizations such as the American Society for Testing and Materials, the American National Standards Institute, and the National Sanitation Foundation. Financially supports ANSI which holds the secretariat to International Organization for Standardization, ISO/TC 61, Plastics, and participates in its activities

Two divisions of the society have their own standardization programs: the Vinyl Siding Institute, and the Vinyl Window and Door Institute. These organizations develop product performance standards, and test methods which are processed through the American Society for Testing and Materials. These activities maintain liaison with code and regulatory agencies and work to have vinyl building components accepted as generic products in code standards.

Keywords plastic; laminate; molding; machinery; materials;
building products;

SOLAR RATING AND CERTIFICATION CORPORATION

Scott Sklar, Executive Director

777 North Capitol Street, #805
Washington, DC 20002
(202) 408-0306

Founded: 1974

Type of Organization Rating and Certifying Body

Standards Designations SRCC prefix

Certification The Solar Rating and Certification Corporation (SRCC) certifies several independent testing laboratories for solar collector and solar domestic hot water systems tests, SRCC randomly selects equipment for testing, interprets test data, and publishes a certified product rating directory.

Scope Manufacturers and installers of solar energy systems and components, and distributors, contractors, and engineers whose purpose is to accelerate and foster commercialization of solar energy conversion for economic purposes. Compiles statistics and offers computerized services.

Standardization Activities The Solar Rating and Certification Corporation develops solar industry certification standards for heating and cooling equipment. Members are also involved in international standards development activities.

Approximately 25-50 member companies are involved at different times in several standards organizations.

Availability Distributed directly

Keywords solar collectors; heating; air conditioning; testing; energy;

SOUTHERN BUILDING CODE CONGRESS INTERNATIONAL

W. J. Tangye, P. E., Chief Executive Officer

900 Montclair Road
Birmingham, Alabama 35213
(205) 591-1853

Founded: 1940

Standards Staff: 10

**Type of
Organization**

Professional Society
Standards Developer

**Standards
Development**

Standards developer since 1945
5,500 members active in standards activities

**Standards
Designations**

The Standard Building, Plumbing, Mechanical, Gas, Fire
Prevention and Housing Codes

**Government
Adoption**

These codes have been adopted by reference by some
2,200 communities primarily in the Southwest, South,
and Southeast.

Certification

Provides educational and certification programs for
persons involved in the administration and enforcement
of building codes.

Scope

Promulgates codes that will assure the minimum
acceptable level of life safety in the building
environment. These cover the entire scope of the
construction industry as related to buildings and
structures occupied by the public. Also provides
technical, educational and computer support to users of
the codes.

**Standardization
Activities**

Holds public hearings to update codes. Any interested
party may submit proposes changes and participate in
the public hearings, two of which are held each year.
Subsequent to the second public hearing a letter ballot
is sent to all governmental members for final approval
of code changes.

Availability

Distributed directly

Formerly

Southern Standard Codes

Keywords

building code; mechanical code; gas code; fire code;
safety; housing code; safety; construction; building;

SOUTHERN CYPRESS MANUFACTURERS ASSOCIATION

Susan M Regan, Executive Vice President

2831 Airways Boulevard, Suite 205
Memphis, Tennessee 38132
(901) 346-2222

Founded: 1905

**Type of
Organization**

Trade Association
Standards Developer

Scope	Producers, wholesalers and distributors of cypress lumber and manufacturers of other cypress products.
Standardization Activities	Publishes grading rules for cypress lumber.
Availability	Distributed directly
Keywords	wood products; grading rules; lumber; cypress;

SOUTHERN FOREST PRODUCTS ASSOCIATION

Karl W. Lindberg, President

P.O. Box 52468
New Orleans, Louisiana 70152
(504) 443-4464

Founded: 1915

Type of Organization	Trade Association Works through other organizations to develop standards
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Scope	An association of 42 southern pine companies with 138 mills located from Texas to Virginia conducting marketing research and public affairs programs and a biennial machinery exposition.
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Standardization Activities	Standards developed through organizations like the Southern Pine Inspection Bureau, National Forest Products Association, American Wood Preservers Association, and the American Society for Testing and Materials are used extensively in SFPA marketing efforts. These include span tables, recommendations for end use applications, treating specifications, metric conversions, model building codes, and other similar activities dealing with lumber applications.
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Formerly	Southern Pine Association
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Keywords	lumber; wood products;
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SOUTHERN PINE INSPECTION BUREAU

Tom S. Jones, President

4709 Scenic Highway
Pensacola, Florida 32504
(904) 434-2611

Founded: 1940

Standards Staff: 8

Type of Organization	Service Bureau Standards Developer Works through other organizations to develop standards
Standards Development	Standards developer since 1940 350 subscribers representing 70% of Southern Pine production Five active standards
Standards Designation	SPIB prefix
Government Adoption	The Departments of Defense and Veterans Affairs, Federal Housing Administration, and various state and local regulatory agencies have adopted and recognized the Southern Pine Inspection Bureau Grading Rules.
Certification	Maintains a certification program in which it licenses subscribers to use its registered grade-mark when subscribers meet the necessary qualifications. The Bureau maintains a similar program for companies that treat lumber by a pressure process for protection against insect and decay attack with approved chemicals in accordance with the standards of the American Wood Preservers Association.
Scope	<p>An autonomous nonprofit agency and the recognized organization in the Southern Pine industry for the formulation and maintenance of grading standards. Has carried on a standardization program since 1940 developing grading rules for Southern Pine lumber in conformance with the American Lumber Standards Voluntary Products Standard PS 20-70 published by the National Institute of Standards and Technology.</p> <p>Certified as a supervisory grading agency by the board of review of the American Lumber Standards Committee.</p>
Standardization Activities	<p>Actively participates in the formulation and maintenance of the American Lumber Standards for Softwood Lumber. Maintains representation on the Committee on Wood of the American Society for Testing and Materials and American Wood Preservers Association. Member of ANSI.</p> <p>Maintains standards of size and grade classifications for the benefit of the lumber using public and the lumber manufacturing industry. These include domestic and export grade rules and standards for glued lumber and machine stress rated lumber. Provides inspection facilities. These inspection facilities are used not only as a means of adjudicating disputes between buyers and sellers but also for the certification of Southern Pine lumber before shipment from the mill. Grading and manufacture are under the supervision of Bureau Quality</p>

Supervisors. Those mills which prove their proficiency in grading and agree to maintain the established standards of size and grade moisture content are licensed to grade-mark their lumber with a Bureau mark.

The quality of treatment of lumber treated by the pressure process is also under the supervision of Bureau Quality Supervisors and those treating plants which prove their proficiency and capability of maintaining the required level of treatment are licensed to quality mark their lumber with a Bureau mark indicating the quality and symbolizing such supervision.

Availability

Sold directly

Keywords

wood products; grading rules; lumber; wood preservation; inspection;

SOUTHWEST RESEARCH INSTITUTE

Joseph S. Kittle, Director

Program Development Office

Post Office Drawer 28510

San Antonio, Texas 78284

(512) 684-5111

Telex: 244846

**Type of
Organization**

Nonprofit Research Institute

Works through other organizations to develop standards

Representation

ANSI, ASME, API, ASTM, IEEE, NFPA, SAE, National Marine Manufacturers Association

Scope

Performs contract research and development for commercial, industrial and governmental agencies in a wide range of technologies. Some of this work specifically supports development of standards.

**Standardization
Activities**

Works with SAE and API under sponsorship of the Coordinating Research Council, Inc. in the development of rating standards used to subjectively rank the results of an engine oil test. These rating standards evaluate sludge, varnish, rust, and other visible phenomenon, such as ring sticking, scuffing, and wear. These standards are the only recognized subjective rating techniques used by industry in the evaluation of engine lubricants. In a similar capacity, develops standardized test procedures and performs certification testing to evaluate two-cycle engine lubricants for the National Marine Manufacturers Association. Worked with ASTM and automobile manufacturers in the development of the industry-recognized Sequence Tests for diesel and gasoline engine lubricants. Participated in

development of standards for electromagnetic compatibility which resulted in SAE J1338 and J1113.

Keywords

certification; lubrication; engines; testing; EMC; electrical equipment; materials;

SPARC INTERNATIONAL (SCALABLE PROCESSOR ARCHITECTURE, INC.)

Robert W. Duncan, Chairman and CEO
Gregory Leonard, Executive Director

1250 Oakmead Parkway, Suite 210
Sunnyvale, California 94088
(408) 737-7272 Fax: (408) 746-3630

Founded: 1989

**Type of
Organization**

Vendor Consortium
Standards Developer

**Standards
Development**

Development of the SPARC microprocessor architecture standard and compliance definitions and testing suites

**Government
Adoption**

Government agencies world-wide are evaluating adoption of next generation 32-bit RISC (reduced instruction set computer) architectures, including SPARC.

Certification

SPARC International provides certification testing against the SPARC Compliance Definition for chip, systems and software vendors, and administers the licensing of the SPARC trademark to vendors of compatible products.

Scope

An international not-for-profit vendor consortium dedicated to the expansion of the SPARC UNIX, real-time, embedded systems and ISV software markets, and to the promotion of the SPARC architecture as an open standard. Member companies participate in decisions affecting the evolution of the architecture, and contribute to establishing the SPARC architecture as the only open 32-bit microprocessor standard.

**Standardization
Activities**

Focuses on activities that support the growth of the SPARC market infrastructure and expand opportunities for SPARC vendors. Develop and evolve compatibility testing suites and procedures for use by SPARC vendors. Cooperate with other standards organizations whose activities further SPARC International goals.

Keywords

SPARC; RISC; UNIX systems; embedded control; real-time systems; open systems; information processing;

SPECIAL LIBRARIES ASSOCIATION

David Bender, Executive Director

1700 18th Street, NW
Washington, DC 20009
(202) 234-4700

Founded: 1909

Standards Staff: 1

Type of Organization Professional Society
Works through other organizations to develop standards

Representation Represented on ANSI committees concerned with development of standards in the following areas: library/information science and publishing practices, photographic reproduction, and library equipment.

Scope An international organization of more than 12,000 librarians and information managers. Serves industry, business, government agencies, research, educational, and technical institutions requiring or providing specialized information.

Standardization Activities Participates in the work of ANSI accredited organizations including PH5, Photographic Reproduction of Documents; Z39, Library/Information Science and Related Publishing Practices; Z85, Library Equipment and Supplies. The SLA Standards Committee provides guidance in these areas. Publishes "Objectives for Special Libraries" which sets forth standards for objectives, staff, collection, services, physical facilities, and budgets for special libraries.

Keywords library equipment; library science; information processing; office products;

SPONGE AND CHAMOIS INSTITUTE

Jules Schwimmer, Executive Secretary

60 East 42nd Street
New York, New York 10165
(212) 867-2290

Founded: 1933

Type of Organization Trade Association
Standards Developer

Scope Represents dealers and suppliers of natural sponges and genuine chamois. Seeks to increase public awareness of the distinctive properties and qualities of genuine chamois.

Standardization Activities	Works with the government and other organizations to develop standard characteristics for genuine chamois. Developed Chamois Standard CS 99-1970, which defines the general and performance characteristics of genuine chamois skin.
Availability	Distributed directly
Keywords	sponge; chamois; materials; consumer products;

SPORTING ARMS AND AMMUNITION MANUFACTURERS INSTITUTE

	Robert T. Delfay, Executive Director
	555 Danbury Road Wilton, Connecticut 06897 (203) 262-5463
	Founded: 1926 Standards Staff: 1
Type of Organization	Trade Association Standards Developer
Standards Development	Standards developer since 1926 41 representatives active in standards activity Draft standards available for review
Standards Designation	ANSI/SAAMI and SAAMI prefixes
Government Adoption	Used by Department of Defense in relation to manufacturing, testing, and performance specifications of commercial ammunition purchased by the U.S. government.
Scope	Serves the mutual interests of the U.S. sporting firearms and ammunition industry with emphasis on activities to assure safe use of these products by sportsmen and others having a lawful need for them.
Standardization Activities	Maintains a Technical Committee which reviews industry test methods, procedures, and recommended manufacturing safety practices; two subcommittees work in the areas of ammunition and firearms. Establishes definitive proof loads recommended for factory testing of U.S. made sporting firearms, thus assuring greater safety to the user of such arms. Maintains liaison with the Department of Defense in relation to manufacturing, testing, and performance specifications of commercial ammunition purchased by the government
Availability	Sold directly and through ANSI

Formerly The Society of American Manufacturers of Small Arms and
Ammunition (1918-1926)

Keywords ammunition; firearms; defense; safety; sports;

SPORTS CAR CLUB OF AMERICA

Nicholas Craw, President

9033 E. Easter Place
Englewood, Colorado 80112
(303) 694-7222

Founded: 1944

Type of Organization Recreational/Technical Society
Standards Developer

Scope A nonprofit organization with 52,000 members. Sanctions national and regional races and ten major professional racing series listed on the International Calendar. Sanctions rallies (precision driving tests over a given route at an exact speed), solo events (intricate driving maneuvers in a cleared area), concours d'elegance (rating cars by a correlation of age, condition, and equipment of the vehicle), and numerous international events and world championship races.

Standardization Activities Develops safety standards for competitions, and standards and procedures for speed events for automobiles which may take part in events, for issuance of competition licenses, and for the organization and conduct of its events. These standards and procedures are published in General Competition Rules; Rally and Solo Rules; and Professional Racing Regulations.

Participates in American National Standards Committee Z90, Vehicular Head Protection, concerned with safety requirements for head protection for automobile drivers engaged in high hazard activities or occupations, as well as crash helmets for motorcyclists, American National Standard Z90.1.

Availability Distributed directly

Keywords sports; automobile racing;

STANDARDS COMMITTEE FOR HI-LOK, HI-TIGUE, AND HI-LITE PRODUCTS

Michael M. Schuster, Chairman

2600 Skypark Drive
Torrance, California 90509
(213) 326-8110 Telex: 67-4406

**Type of
Organization**

Trade Association
Standards Developer

Certification

Licensees are under surveillance and approval by the Committee

Scope

Actively engages in standardization activities for fasteners. Membership includes and is open to licensees of Hi-Shear Corporation, users of products, and government standardization representatives.

**Standardization
Activities**

Develops, publishes, and maintains hundreds of proprietary product standards, specification, and process procedures for the proprietary Hi-Lok, Hi-Tigue, and Hi-Lite fasteners. Holds three official meetings each year, one of which is an international meeting held in Europe. Solicits input from all members.

Availability

Distributed directly

Keywords

fasteners; manufacturing;

STANDARDS ENGINEERING SOCIETY

Francine W. Rickenbach, CAE, Executive Director

11 W. Monument Avenue, Suite 510
P.O. Box 2307
Dayton, Ohio 45401-2307
(513) 223-2410

Founded: 1947

**Type of
Organization**

Professional Society

Representation

Approximately 50% of the members are active in standardization activities of a standards developers ranging from international organizations to trade associations.

Certification

Certification program exists in Standards Engineering; over 200 members currently certified.

Scope	A professional technical society of 800 standards practitioners for companies and government agencies. Members are organized into 20 local sections throughout the United States and Canada. Objectives include providing a forum for the interchange of information in the field of standardization and promoting the knowledge and use of national and international standards.
Standardization Activities	SES does not generally develop standards as a society but members represent their organizations on numerous national and international standards-making committees. However, the Society is developing a proposed American National Standard for designations, titles, keywords, abstracts and formats for standards, as well as a proposed American National Standard for standards indexes and catalogs.
Formerly	Standards Engineers Society (1980)
Keywords	standards profession; general; social welfare; standards users;

STEEL DECK INSTITUTE

Bernard E. Cromi, Managing Director

P.O. Box 9506
Canton, Ohio 44711
(216) 493-7886

Founded: 1936

Standards Staff: 2

Type of Organization	Trade Association Standards Developer
Standards Development	Standards developer since 1939 Active in AISI, AISC and ASCE None processed through ANSI
Representation	Technical personnel of member firms serve on standards committees and subcommittees of organizations such as AISI, AISC and ASCE.
Certification	Provides to its members, as well as non-members, a product certification service by independent engineers at appropriate charges.
Scope	Manufacturers of steel roofs and steel floor decks. Formulates technical recommendations for improvement of metal deck construction and develops standard design

practices. Promotes proper building regulations. Conducts research on earthquake construction and fire and wind resistance. Compiles statistics.

**Standardization
Activities**

Periodically publishes the Steel Deck Institute Design Manual for Composite Decks, Form Decks, and Roof Decks. It contains: Specifications and Commentaries, the Code of Recommended Standard Practice, Roof Deck Construction, Suggested Architect's Specifications, SDI Standard Load Tables, Roof Deck Fire Resistance Ratings, and Cantilever Criteria. Also publishes the Steel Deck Institute Diaphragm Design Manual.

Formerly

Metal Roof Deck Technical Institute

Keywords

steel decks; roofs; building;

STEEL DOOR INSTITUTE

Allen P. Wherry, Managing Director

30200 Detroit Road
Cleveland, Ohio 44145
(216) 899-0010

Telex: 98-5559

Founded: 1954

Standards Staff: 3

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Standards developer since 1954
12 member companies participating in standards activities
Seventeen active standards including three ANSI standards

**Government
Adoption**

SDI standards have been adopted by numerous government agencies.

Certification

No certification, qualification, or accreditation programs

Scope

A nonprofit trade association of U.S. companies engaged in the production for sale of swing type steel doors and frames in the construction industry.

**Standardization
Activities**

Administered by its Technical Committee, standardization activities represent a large percentage of the Institute's total program. Maintains liaison with numerous federal agencies including General Services Administration, Corps of Engineers, Department of Defense, Department of Housing and Urban Development, Federal Housing Administration and the Department of Veterans Affairs. Works closely with

various code groups and has been instrumental in establishing and promulgating a great number of standards helpful to the construction industry, including standardized specifications for steel doors and frames, standardized hardware locations and hardware preparation, building code improvements, and establishment of performance specifications.

Availability Distributed directly

Keywords steel doors; frames; building;

STEEL FOUNDERS SOCIETY OF AMERICA

Malcolm Blair, Technical and Research Director

Cast Metals Federation Building
455 State Street
Des Plaines, Illinois 60016
(312) 299-9160

Founded: 1902 Standards Staff: 2

Type of Organization Trade Association
Standards Developer

Standards Development Standards developer since 1964
134 members participating in standards activities
14 specifications on foundry raw materials

Standards Designation SFSA prefix

Certification No certification, qualification, or accreditation programs

Secretariats U.S. Subcommittee Advisory Group to ISO/TC, 17/SC 11, Steel Castings

Scope Manufacturers of steel castings. Compiles statistics and conducts research programs.

Standardization Activities Develops own standards for foundry raw materials and works through other organizations to develop standards for the manufacture and use of carbon, low alloy and high alloy steel castings. Also participates in ASTM, ANSI, NACE, API, MSSVFI, ASME standards activities.

Availability Distributed directly

Formerly Alloy Casting Institute (1970)

Keywords steel; castings; high alloy; foundry; materials;

STEEL JOIST INSTITUTE

E. T. E. Sprague, Managing Director

1205 48th Avenue North, Suite A
Myrtle Beach, South Carolina 29577
(803) 449-0487

Founded: 1928

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Standards developer since 1928

Certification

Established certification procedures are required for member companies.

Scope

A nonprofit organization of manufacturers engaged in the manufacture and distribution of steel joists. Objectives are to establish and standardize methods of design and construction for steel joists, to provide test and research data for public dissemination, to assist in the development of appropriate building code regulations and to publish information relative to the proper use of steel joists in the interest of safety and public welfare.

**Standardization
Activities**

Current standard specifications are recognized throughout the industry and include Load Tables for Open Web, Longspan, and Deep Longspan Steel Joists comprising K-Series, LH-Series and DLH-Series. In addition, the Institute has developed standard specification and weight tables for Joist Girders, which are primary structural members.

Availability

Sold directly

Keywords

joist; steel joists; building;

STEEL MANUFACTURERS ASSOCIATION

Jim Collins, Executive Vice President

815 Connecticut Avenue, NW
Washington, DC 20006
(202) 331-7027

Founded: 1911

**Type of
Organization**

Trade Association
Works through other organizations to develop standards

Representation	ASTM
Scope	A voluntary trade association involved with the solution of operational problems in electric furnace steel-making and rolling of bar products to accepted standards.
Standardization Activities	<p>Standards activities, primarily in the development of bar standards in billet, rail, and axle steel, are undertaken on a cooperative basis with the American Society for Testing and Materials and other standards groups.</p> <p>The Technical Committee, the Permanent Rail Steel Committee, and the Product Quality Committee of the Plant Operations Division maintain ongoing work in standards. Cooperates with Canadian standards organizations and the National Institute of Standards and Technology.</p> <p>Does not issue standards but sponsors American Society for Testing and Materials Standards A616, A617 Rail and Axle Steel, Concrete Reinforcing Bars, and a Standards Specification for Hot Rolled Steel Fence Posts. Additional counsel and committee activity with ASTM are also undertaken by the association.</p>
Formerly	Rail Steel Bar Association (1968)
Keywords	steel; steel bars; materials;

STEEL PLATE FABRICATORS ASSOCIATION

	<p>Ward A. Gill, Executive Director</p> <p>2400 S. Downing Avenue Westchester, Illinois 60154 (708) 562-8750</p> <p>Founded: 1933</p>
Type of Organization	<p>Trade Association</p> <p>Works through other organizations to develop standards</p>
Representation	Representatives of member companies are appointed to serve on standards committees of AWWA, ASME, ANSI, API, AWS, NFPA and others.
Scope	A national trade association representing companies engaged in the fabrication and erection of all types of weldable metal plate into pressure and nonpressure

tanks, processing and storage vessels, heat exchangers, penstocks, weldments, and other products for industries worldwide.

Standardization Activities Works with standards developing organizations to update accepted standards in order to keep current with continuing improvement in materials and techniques.

Keywords steel fabrication; steel plate; manufacturing; industrial equipment;

STEEL SERVICE CENTER INSTITUTE

Andrew G. Sharkey, President

1600 Terminal Tower
Cleveland, Ohio 44113-2229
(216) 694-3940 Telex: 297632
 Fax: (216) 694-3940

Founded: 1909

Type of Organization Trade Association
Works through other organizations to develop standards

Representation Two safety specialists from member companies serve as voting delegates on ANSI B11 Committee.

Scope A voluntary trade association representing the interests of some 80 percent of the metal service center industry which serves the metal supply needs of some 300,000 manufacturers and fabricators through 1,000 outlets.

Standardization Activities Participates in the development of safety standards for powerdriven machines used by the industry as developed through Committee B11.

Formerly American Iron, Steel, and Heavy Hardware Association (1909)
American Steel Warehouse Association (1934)
Steel Service Center Institute (1959)

Keywords metal; steel; distribution; materials;

STEEL SHIPPING CONTAINER INSTITUTE

Malcolm M. Anderson, Executive Director

2204 Morris Avenue
Union, New Jersey 07083
(201) 688-8750

Founded: 1944

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

SSCI serves as the Secretariat for the American National Standards Institute's ANSI MH2 Committee on new steel drums and pails. The current standards are issued in ANSI MH2-1985 which contains 24 separate standards for steel containers in common use.

**Standards
Designation**

ANSI MH2-1985

**Government
Adoption**

By reference in military and federal specifications

Secretariat

ANSI Committee MH2, Steel Drums and Pails

Scope

The Steel Shipping Container Institute is the Secretariat for this committee which comprises representatives of groups directly affected by the consensus standards for steel drums and pails. These groups include carriers, manufacturers, user groups and regulators who agree on the rules and regulations which are covered by these standards. Public canvass is conducted by ANSI after the committee agrees to content. Once any comments resulting from the canvass are resolved, the edited standards are published by ANSI showing the members of the committee including the SSCI Secretariat.

Availability

Distributed through ANSI

Keywords

packaging; pails; drums;

STEEL STRUCTURES PAINTING COUNCIL

Dr. Bernard R. Applemer, Executive Director

4400 Fifth Avenue
Pittsburgh, Pennsylvania 15213
(412) 268-3327

Founded: 1950

Type of Organization	Technical Society Standards Developer
Standards Development	Standards developer since 1950 85 active standards No current standards processed through ANSI Draft standards available for review
Standards Designation	SSPC prefix
Government Adoption	27 standards adopted by DoD
Certification	Painting Contractor Certification Program
Scope	Determines and outlines the best methods developed for cleaning and painting steel; issues specifications covering practical and economical methods of surface preparation and painting of steel structures; and evaluates through long-range research programs involving field and laboratory work the various methods, coatings, and costs necessary to prevent or reduce corrosion on steel structures.
Standardization Activities	35 committees with 1,000 members participating in standards activities. Assimilates the newest technology into usable and effective specifications for the coatings industry. Develops standards through a comprehensive voluntary consensus process. Issues standards for surface preparation, paint application, painting systems, and paints. Surface preparation specifications describe hand and power tool cleaning, chemical cleaning, and all levels of blast cleaning. Develops visual standards for surface appearance after cleaning as an optional supplement to the surface preparation specifications. Paint application specifications include standards for shop, field, and maintenance painting; measurement of paint film thickness, guides for safety in paint application, and a guide for maintenance repainting. Also has visual standards for evaluating the degree of rusting on painted steel surface.
Availability	Distributed directly and through IHS and Global
Keywords	protective coatings; anti-corrosion; painting; paint; steel; materials;

STEEL TANK INSTITUTE

Brian Donovan, Vice President

728 Anthony Trail
Northbrook, Illinois 60062
(312) 498-1980

Founded: 1916

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Designations**

sti prefix

**Government
Adoption**

The STI-P3 specification is referenced in the final technical requirements (40 CFR 280) for underground storage, as promulgated by the U.S. Environmental Protection Agency.

Certification

No certification, qualification, or accreditation programs, although manufacturers are "licensed" to fabricate in accordance with sti-P3 specifications. Strict quality assurance programs are administered by STI.

Scope

A trade association representing steel tank manufacturers and suppliers in the United States and Canada. Functions primarily on a national level, representing its members in a wide range of technical, code, and related areas.

**Standardization
Activities**

Developed STI-P3 standards for exterior corrosion protection of underground steel storage tanks. A limited number of recommended practices also developed by the institute for both underground and aboveground tanks.

Availability

Distributed directly

Keywords

steel tanks; underground storage; corrosion protection; industrial equipment; construction; aboveground storage;

STEEL WINDOW INSTITUTE

John H. Addington, Executive Secretary

1230 Keith Building
Cleveland, Ohio 44115
(216) 241-7333

Founded: 1920

Type of Organization	Trade Association Standards Developer
Standards Designation	SWI Recommendations
Scope	A trade association composed of American steel window manufacturers. Through research and interchange of ideas among its members, develops and makes available to the building trade better products and services. Conducts surveys to determine usage data.
Standardization Activities	Issues Recommended Specifications for Steel Windows after performing simplification studies to identify preferred types and sizes. Circulates recommendations to members and interested parties.
Availability	Distributed directly
Formerly	Metal Window Institute
Keywords	windows; steel windows; building;

STUCCO MANUFACTURERS ASSOCIATION

Robert F. Welch, Executive Secretary

14006 Ventura Boulevard, Suite 204
Sherman Oaks, California 91403
(213) 789-8733

Founded: 1957

Type of Organization	Trade Association Standards Developer
Scope	Promotes the use of colored stucco finish coats in building construction. Increases industry's service to contractors, architects, and the public.
Standardization Activities	Develops standards as needed. Publishes Exterior Colored Stucco Guide Specification. Although national in scope, standard variations are recognized because of geographic differences in climate, skilled manpower, and material availability.
Availability	Distributed directly
Keywords	stucco; masonry;

SUMP AND SEWAGE PUMP MANUFACTURERS ASSOCIATION

Pamela W. Franzen, Managing Director

P.O. Box 298
Winnetka, Illinois 60093
(312) 535-8911

Founded: 1956

**Type of
Organization**

Trade Association
Standards Developer

Certification

Provides a certification and labeling program for all products which conform to specified standards.

Scope

A national trade organization representing the manufacturers of domestic sump sewage and effluent pumps, together with component and accessory suppliers. Activities include development and promulgation of quality standards, spelling out design and performance criteria for sump sewage and effluent pumps used in homes; development and dissemination of statistical information designed to describe market size and activity; promotion of improved provisions in building codes on the use of such pumps; and education efforts designed to encourage proper and safe installation, maintenance, and use of domestic sump sewage and effluent pumps.

**Standardization
Activities**

Developed the Domestic Sump Effluent and Sewage Pump Standards which are national in scope and designed to supply the purchaser and user with accurate performance data and to assist in the determination of proper application and selection of this equipment. They provide a uniform method of testing and rating, and include a specification system covering basic materials of construction for all major components. They also detail minimum specifications for motors, nameplate data, service cords, and control switches.

Availability

Distributed directly

Formerly

Sump Pump Manufacturers Association (1981)

Keywords

pumps; buildings; industrial equipment;

TECHNICAL AND OFFICE PROTOCOL (TOP)

see CORPORATION FOR OPEN SYSTEMS INTERNATIONAL

TECHNICAL ASSOCIATION OF THE PULP AND PAPER INDUSTRY

William L. Cullison, Executive Director

Technology Park/Atlanta
P.O. Box 105113
Atlanta, Georgia 30348
(404) 446-1400

Founded: 1915

Standards Staff: 2

Type of Organization

Technical Society
Test Method Developer

Standards Development

Test methods developer since 1915
268 Official, Provisional, and Classical Test Methods

Standards Designations

T -- Official, Provisional, and Classical Test Methods
UM -- Useful Test Methods, which are published by TAPPI but have not been through the regulated review process; no new UMs will be published after 1989.

Scope

Purposes are to further the application of the sciences in the pulp and paper industry; to promote investigation, research, and interchange of ideas among its members in the field of pulp and paper manufacture and use; to promote education in the science and practice of pulp and paper manufacture; to arrange for the collection and dissemination of information; to provide technical facts, data, and testing procedures fundamental to pulp and paper manufacture and use; to promote the professional, social, and economic welfare of its members.

Standardization Activities

Publishes testing procedures which include Official, Provisional, Classical, and Useful Methods prepared by technical committees and approved by the various divisions of TAPPI in accordance with rules and regulations prescribed by the Test Methods Management Committee. Classical Methods are former Official or Provisional methods which have been superseded by advanced technology. Useful Methods are those found useful in the industry but not worthy of consideration as Official or Provisional Methods.

Cooperates with the American Society for Testing and Materials, the Intersociety Color Council in developing color standards, and the American National Standards Institute in promoting American and International Standards.

Availability

Distributed directly and through IHS, and Global

Keywords

pulp; paper; forest products; wood products; corrugated container; packaging;

TECHNICAL CERAMICS MANUFACTURERS ASSOCIATION

Richard C. Byrne, Secretary

25 North Broadway
Tarrytown, New York 10591
(914) 332-0040

Founded: 1978

**Type of
Organization**

Trade Association
Standards Developer

Scope

Manufacturers of kiln fired ceramic compositions which results in ceramic products of many uses that withstand high temperature, long use, great mechanical, electrical and chemical stresses.

**Standardization
Activities**

Develops standards for general test methods, inspection sampling, loss factor tests, resistance to thermal extremes, and other technical characteristics.

Availability

Distributed directly

Formerly

Dry Process Manufacturers Association
Ceramic and Steatite

Keywords

ceramic products; materials;

TEST BORING ASSOCIATION

Bette Katz, Executive Director

P.O. Box 5126
Old Bridge, New Jersey 08857
(201) 679-9666

Founded: 1941

**Type of
Organization**

Trade Association
Standards Developer

Scope

Promotes and furthers the interests of contractors and others engaged in test boring and core drilling, and engages in activities which enhance the progress of the test boring and core drilling industry.

**Standardization
Activities**

Developed and has available a Recommended Standard Boring Specification for Cased Borings.

Availability

Distributed directly

Formerly Test Boring and Core Drilling Contractors Association
Test Boring Contractors Association (1969)

Keywords test boring; earth drilling; construction;

TEXTILE RENTAL SERVICES ASSOCIATION OF AMERICA

John J. Contney, Executive Director

1130 East Hallandale Beach Boulevard
P.O. Box 1283
Hallandale, Florida 33009
(305) 457-7555

Founded: 1913 Standards Staff: 3

Type of Organization Trade Association
Standards Developer

Standards Development Standards developer since 1978 in health care linen service and for linen, towels, and garments
2,200 members participating in standards activities
28 active standards
None processed through ANSI
Draft standards available for review

Standards Designation TRSA Guidelines For Healthcare Linen Service
TRSA Voluntary Purchasing Standards

Certification No certification, qualification, or accreditation programs

Scope A national trade association representing companies world-wide engaged in the rental and commercial laundering/linen field. TRSA member companies provide laundry and linen service to all areas of U.S. hospitals and all types of commercial establishments.

Standardization Activities Directed toward fulfilling user defined requirements of the industry and its health care customers. Works closely with the American Hospital Association and the Joint Commission on Accreditation of Hospitals. TRSA relate to processing, delivery, cleanliness, sanitation, and management standards of textile rental service. Technical input is solicited from throughout the hospital industry and its related trade associations and accrediting agencies.

Availability Distributed through TRSA member companies worldwide and directly

Formerly Linen Supply Association of America (1978)

Keywords laundry; linen service; hospital; textiles; sanitation; public health;

THERMAL INSULATION MANUFACTURERS ASSOCIATION

Frank J. Rauscher, Ph.D., Executive Director

29 Bank Street
Stamford, Connecticut 06901
(203) 324-7533 Fax: (203) 324-5132

Founded: 1942

Type of Organization Trade Association
Works through other organizations to develop standards

Certification No certification programs

Secretariats ISO/TC 163/WGI, Thermal Insulation Terminology

Scope A nonprofit trade association of manufacturers of industrial and commercial types of thermal insulation. Fosters energy conservation, develops application and performance standards, and disseminates information. Conducts health studies related to man-made mineral fiber insulation. Represents manufacturers of calcium silicate, fibrous glass, mineral wool, ceramic fiber, foamed glass, urethane, and other thermal insulations.

Standardization Activities Assisted ASTM in preparation of test methods and product standards relating to thermal insulating products. Sponsors research in thermal and mechanical testing, and fire testing. Membership in ASTM, ASHRAE, NFPA, NIBS, and ISO/TC 163.

Formerly National Insulation Manufacturers Association

Keywords thermal insulation; building; materials;

TILE COUNCIL OF AMERICA

Robert J. Kleinhans, Executive Director

P.O. Box 326
Princeton, New Jersey 08542
(609) 921-7050

Founded: 1946

Type of Organization Trade Association
Standards Developer

Standards Development	17 active standards Processed through ANSI
Scope	A trade association of ceramic tile manufacturers dedicated to expansion of the ceramic tile industry in the United States through advertising, promotion, and research on tile installation methods.
Standardization Activities	Maintains contact with government agencies and other national organizations to assist with development and interpretation of standards and specification for installation of ceramic tile. Annually publishes the guide specification Handbook for Ceramic Tile Installation. This covers all accepted ceramic tile installation methods and references installation and material standards applicable to the methods.
Availability	Distributed directly and through ANSI
Keywords	tile; ceramic products; building;

TIN RESEARCH INSTITUTE, INC.

William B. Hampshire, Executive Vice President and General Manager

1353 Perry Street
Columbus, Ohio 43201
(614) 424-6200

Founded: 1949

Standards Staff: 2

Type of Organization	Professional Society Works through other organizations to develop standards
Scope	Develops the use of tin and promotes the scientific and technical study of the metal, its alloys and compounds, and of industrial processes which use tin or may provide markets.
Standardization Activities	Participates in the development of standards and specifications for tin ingots, tinplates, tin alloys, bearings, solders, pewter and tin, and tin alloy coatings. Membership is held in committees of the International Organization for Standardization (ISO), American Society for Testing and Materials, Institute of Printed Circuits, American Welding Society, American Pewter Guild, and coordination committees for federal specifications.
Keywords	tin; tinplate; solder; pewter; materials;

TIRE AND RIM ASSOCIATION

J. F. Pacuit, Executive Vice President and Secretary

175 Montrose West Avenue
Copley, Ohio 44321
(216) 666-8121

Founded: 1903

Standards Staff: 3

**Type of
Organization**

Technical Standardizing Organization
Standards Developer

**Standards
Development**

Standards developer since 1917
None processed through ANSI
Draft standards not available for review

**Standards
Designations**

Tire and Rim Standard

Secretariats

U.S. Technical Advisory Group for ISO/TC 31, Tires,
Rims, and Valves.

Scope

The technical standardizing body of the tire, rim, and
related parts manufacturers for the United States.

**Standardization
Activities**

Serves as the primary standards developing organization
in areas such as tire loads, tire inflations, tire
dimensions, recommended rims, dual spacings, rim
dimensions, valve and valve hole dimensions for tire
and rim equipment used on passenger cars, bicycles,
motorcycles, motor scooters, trucks, buses,
recreational vehicles, trailers, earthmovers, road
graders, agricultural tractors and implements,
industrial vehicles, mobile homes, and aircraft.

Availability

Distributed directly

Keywords

tires; rims; valves; transportation; consumer products;

TOY MANUFACTURERS OF AMERICA

David Miller, President

200 Fifth Avenue
New York, New York 10010
(212) 675-1141

Founded: 1916

**Type of
Organization**

Trade Association
Standards Developer

Standards Designations	ANSI Z315.1, Safety Requirements for Tricycles; ASTM-F963-86, Voluntary Product Safety Standard for Toys.
Secretariats	U.S. Technical Advisory Group for ISO/TC 181, Toy Safety (observer)
Scope	<p>The trade association for domestic producers and importers of toys, games, and holiday decorations with 230 members which together account for about 90 percent of the toy industry's total sales. The Association is recognized by government, the trade, the media, and consumers alike as the authoritative voice of the U.S. toy industry.</p> <p>Helps toy makers meet the many challenges of the toy manufacturing marketplace. Its programs assist member companies in safety and quality control, credit and collection, distribution management, import/export trade, legal advice, public relations, statistics, consumer information, media relations, and advertising guidelines.</p>
Standardization Activities	<p>The Association actively participates, on both domestic and international levels, in the drafting of safety standards; cooperates closely with governmental, safety, health, and consumer organizations in the development and application of standards for the safe use of playthings.</p> <p>The industry's Voluntary Safety Standard ASTM F963-86 includes more than 100 separate testing and design specifications to assure that normal use and abuse of toys will not result in a hazard that could cause an injury.</p>
Availability	Distributed directly and through ANSI and ASTM
Keywords	toys; consumer products; safety;

TRAFFIC AUDIT BUREAU

Ken Sammon, President

114 E. 32nd Street
New York, New York 10016
(212) 213-9640

Founded: 1933

Type of Organization	Professional Society Standards Developer
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Scope Consists of advertisers, advertising agencies, and operators of outdoor advertising plants. Furtheres the joint interests of its membership and the general public.

Standardization Activities Establishes standard practices with respect to the circulation, evaluation, and visibility of outdoor advertising; supervises and directs practices in connection with the collection, recording, and authentication of traffic and other data related to outdoor advertising; and prepares and issues standardized factual statements of the circulation values of outdoor advertising plants.

Availability Distributed directly

Keywords advertising; communications;

TRAILER HITCH MANUFACTURERS ASSOCIATION

Lawrence F. Henneberger, Executive Secretary and Counsel

1050 Connecticut Avenue, NW, Suite 500
Washington, DC 20036
(202) 857-6087

Founded: 1967

Type of Organization Trade Association
Works through other organizations to develop standards

Scope Represents domestic manufacturers of trailer hitches and tow bars. Reports on and represents its membership concerning all matters of federal, state, and local interest with emphasis on safety regulation.

Standardization Activities Works closely with the Recreation Vehicle Industry Association and state motor vehicle organizations; supports state adoption of Vehicle Equipment Safety Commission Regulation V-5 for trailer hitches.

Keywords trailer hitch; tow bar; recreation; transportation;

TRUCK MIXER MANUFACTURERS BUREAU

Raymond F. Wisniewski, Jr., Secretary

900 Spring Street
Silver Spring, Maryland 20910
(301) 587-1400

Founded: 1945

Type of Organization	Trade Association Standards Developer
Certification	Rating plates are affixed to all mixers meeting Bureau standards.
Scope	Represents manufacturers of concrete truck mixers.
Standardization Activities	Participates with government in the development and interpretation of specifications. Cooperates with the National Ready Mixed Concrete Association to develop standards. Standards cover truck mixers and agitators, whether truck or trailer mounted. Publishes Truck Mixer and Agitator Standards.
Availability	Distributed directly
Keywords	concrete; concrete mixers;

TRUCK TRAILER MANUFACTURERS ASSOCIATION

Donald W. Vierimaa, Vice President

1020 Princess Street
Alexandria, Virginia 22314
(703) 549-3010

Founded: 1941

Type of Organization	Trade Association Standards Developer
Standards Development	Developed 59 recommended practices and 44 technical bulletins since 1961. 90 trailer manufacturing companies participate in development None processed through ANSI Draft recommended practices and technical bulletins available for review
Standards Designation	Recommended Practices and Technical Bulletins are by Number
Certification	No certification, qualification, or accreditation programs
Scope	An international trade association that represents the manufacturers of truck pulled trailers, cargo tanks, and intermodal containers, and manufacturers supplying components and parts to the trailer, tank, and container manufacturing industry.

**Standardization
Activities**

Recommended practices are issued as suggested solutions to design, specification, and manufacture or tests of truck trailers and their components. Examples include trailer hitches and connections, air brake system tests, lighting devices, and weld finishes for tank vehicles.

Technical bulletins are issued to aid carriers or shippers in the operation of truck trailers or to improve the serviceability or use. Examples include brake performance test methods, tank venting, corrosion prevention, and electrical wiring.

Works with organizations such as ANSI, ISO, the American Trucking Association, the Association of American Railroads, the Society of Automotive Engineers, American Petroleum Institute, U.S. Department of Agriculture, U.S. Environmental Protection Agency, National Fire Protection Association, U.S. Department of Labor (OSHA), and others.

Availability

Distributed directly

Keywords

trailers; containers; tractor-trailers; transportation; cargo tanks;

TRUSS PLATE INSTITUTE

Charles B. Goehring, Managing Director

583 D'Onofrio Drive, Suite 200
Madison, Wisconsin 53719
(608) 833-5900

Founded: 1961

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

15 members active in standards development

**Standards
Designations**

TPI, PCT, DSB, and QST prefixes

Certification

Provides an in-plant inspection service for manufacturers of metal plate connected wood trusses in accordance with Uniform Building Code (UBC) Standards under its Quality Control Inspection Program. TPI is recognized as an approved quality control agency for the inspection of metal plate connected wood trusses.

Scope	A nonprofit organization of manufacturers engaged in the production and distribution of metal connector plates for the trussed rafter industry; maintains the industry on a sound engineering basis by establishing methods of design and construction for wood trussed rafters using metal connector plates; provides test and research data for public dissemination; assists in the development of proper building code regulations; and disseminates information relative to the proper use of wood trussed rafters in the interest of safety and public welfare.
Standardization Activities	Develops design standards for metal plate connected wood trusses, metal plate connected parallel chord wood trusses, and temporary bracing of metal plate connected wood trusses. Publishes a quality control standard, and a commentary on handling, installation and bracing of wood trusses. Promotes product acceptance with code authorities. Also publishes design criteria.
Availability	Distributed directly
Keywords	wood trusses; wood rafters; wood products; building; metal connector plates; truss plates;

TUBE COUNCIL OF NORTH AMERICA

	Ted Klein, Executive Secretary
	740 Broadway, Suite 903 New York, New York 10003 (212) 477-9007
	Founded: 1957
Type of Organization	Trade Association Standards Developer
Standards Development	Published six standards
Scope	Manufacturers of collapsible metal tubes (e.g., toothpaste tubes), united to further the use of their products.
Standardization Activities	Publishes standards for nomenclature; standard neck and orifice sizes, American Standard thread form; modified buttress thread form; thermoset cap sizes; thermoplastic cap sizes; standard length, wall, and shoulder sizes.
Availability	Distributed directly
Formerly	The Metal Tube Packaging Council of North America

Keywords tubes; packaging; consumer products;

TUBULAR EXCHANGER MANUFACTURERS ASSOCIATION

Richard C. Byrne, Executive Director

25 North Broadway
Tarrytown, New York 10591
(914) 332-0040

Founded: 1939

Type of Organization Trade Association
Standards Developer

Scope Manufacturers of shell and tube heat transfer equipment; establishes and maintains high-level design and manufacturing standards. Sponsors research programs and provides a forum for exchange of technical information.

Standardization Activities TEMA standards are prepared in 10 sections which clarify and expand material, thermal, and physical properties of fluids and other information related to various classes of exchangers. Three TEMA Engineering Software programs are also available.

Availability Distributed directly

Keywords heat transfer; industrial equipment;

TUBULAR RIVET AND MACHINE INSTITUTE

Richard C. Byrne, Administrator

25 N. Broadway
Tarrytown, New York 10591
(915) 332-0040

Type of Organization Trade Association
Standards Developer

Scope Represents U.S. companies engages in the manufacture of rivets and rivet setting machines in technological areas.

Standardization Activities Works within the voluntary standards system to coordinate industry standards activities and acts as an industry voice. Ten members active in standards development. Distributes Metric Dimensional Standards for General Semi-Tubular Rivets. Is represented on industry standards and ANSI committees.

Availability	Distributed directly
Formerly	Tubular and Split Rivet Council
Keywords	rivets; fasteners; manufacturing;

ULTRASONIC INDUSTRY ASSOCIATION

Bette Katz, Executive Director

c/o Penn Michael Management
P.O. Box 5126
Old Bridge, New Jersey 08857
(201) 679-9666

Founded: 1956

Type of Organization	Trade Association Standards Developer
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Scope	Manufacturers of ultrasonic equipment and component parts. Promotes the industry; cooperates with government on legislation; researches the use and safety of products.
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Standardization Activities	Developed definitions covering basic industry terminology designed to promote a common language and facilitate understanding between manufacturers and users. Developed a standard rating covering ultrasonic generators.
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Cooperates with the American National Standards Institute, the Institute of Electrical and Electronics Engineers, National Safety Foundation, Acoustical Society of America, National Electrical Manufacturers Association, and American Society for Testing and Materials. Provides assistance to various government agencies such as the Departments of the Navy and Air Force, and maintains standardizing liaison with other government agencies, such as the Federal Communications Commission.

Availability	Distributed directly
Formerly	Ultrasonic Manufacturers Association (1973)
Keywords	ultrasonic equipment; industrial equipment;

UNDERWRITERS LABORATORIES, INC.

Frances M. Newell, Managing Engineer, Standards
Department

333 Pfingsten Road
Northbrook, Illinois 60062
(312) 272-8800
Washington, DC
(202) 638-2323

Telex: 201227
Fax: (708) 272-8129

Founded: 1894

Standards Staff: 51

**Type of
Organization**

Independent, Not-for-Profit Corporation Testing for
Public Safety
Developer of Standards for Safety

**Standards
Development**

Standards developer since 1903
570 published and 42 proposed Standards for Safety
431 ANSI approved, 151 being processed through ANSI
procedures
Activities open to participation by interested parties

**Standards
Designation**

UL Standards for Safety

**Government
Adoption**

The Department of Defense has adopted more than 100
Underwriters Laboratories Inc. (UL) Standards for
Safety. In addition, other government agencies,
including the General Services Administration and the
United States Coast Guard, either require compliance
with UL Standards for Safety or accept UL certification
as constituting compliance with applicable regulations.

Representation

UL personnel contribute to standards and code-making
activities by serving as members of over 500 committees
of national and international organizations including
ANSI, NFPA, ASTM, IEC, ISO, and others.

Certification

UL offers five services by which products or systems
may be identified as complying with the requirements of
UL or other organizations or regulating agencies, or as
otherwise having been investigated by UL in accordance
with specified methods or procedures. These services,
their applicability, and the method of identification
are:

1. Listing -- Products that have been investigated with
respect to reasonable foreseeable risks to life and
property and for which the risks have been reduced
to an acceptable degree. Products are identified by
the UL Listing Mark.

2. **Classifications** -- Products that have been investigated with respect to one or more of the following: (a) specific risks only, (b) performance under specified conditions, (c) regulatory codes, or (d) standards of organizations other than UL, including international standards. This service is generally applicable to industrial and commercial products. Products are identified by the UL Classification Marking.
3. **Recognition** -- Products that have only been investigated for use as components of equipment Listed or Classified by UL. Products are identified by the manufacturer's identification and a model number or the equivalent. Products may also be identified by the UL Recognized Component Mark.
4. **Certificate** -- Products that comprise a field installed system investigated at a specific location, or specific quantities of certain products, under such conditions that it is impractical to apply the Listing Mark or Classification Mark to each product. Products or systems are identified by a Certificate issued by the manufacturer or installer under UL's authorization.
5. **Registered Firm** -- Facility Quality Assurance Systems, by means of assessment and subsequent surveillance, providing assurance of a firm's capability of working to their specifications. Facilities so registered are permitted to use the Registered Firm Mark in advertising, but not in connection with any product.

As an integral part of each of these five services, UL maintains a Follow-Up Service under which UL conducts factory inspections and counterchecks of manufacturers' inspection and test procedures for determining continued compliance with the requirements under which the product or system was initially investigated.

In cooperation with EIA, UL serves as the National Supervising Inspectorate (NSI) of the IEC Quality Assessment System for Electronics Components (IECQ-System) for the United States. The IECQ-System is designed to encourage international trade in electronic components. It is intended that components certified by an approved manufacturer in one participating country be acceptable to users in other participating countries without further testing. The NSI is the national organization responsible for the surveillance of all quality assessment necessary for the system, including

these responsibilities: approval of manufacturers, independent distributors, and independent laboratories; supervision of the Certificate of Conformity; and audit testing of approved components.

Secretariats

ANSI C101.1, Leakage Current for Electrical Appliances
IEC/SC 31A, Flameproof Enclosures
IEC/SC 31H, Apparatus for Use in the Presence of Ignitable Dust
IEC/TC 61, Safety of Household and Similar Electrical Appliances
IEC/TC 61D, Appliances for Air Conditioning for Household and Similar Purposes
IEC/TC 61/WG9, Temperature limits for Supplementary and Reinforced Insulation Under Abnormal Operation Conditions
IEC/TC 74, Safety of Data Processing Equipment and Office Machines

Scope

Objectives are to evaluate products and systems or to conduct scientific investigations, studies, experiments, and tests to determine the relation of various materials, devices, construction, and methods to life, fire, and casualty hazards; to ascertain, define, and publish standards, classifications, and specifications for materials, devices, constructions, and methods affecting such hazards; and to provide other information tending to reduce or prevent damage from fire, crime, and casualty.

Standardization Activities

The primary business of UL is product safety through Facility Registration Product Certification, and UL's Standards for Safety play an important part of this process of investigation, identification, and audit. Each of UL's engineering departments has prepared standards for use in this work. A catalog listing all available UL Standards for Safety is published twice yearly. Members of UL's five Engineering Councils assist and advise UL engineers in an effort to provide safety requirements that reflect realistic considerations of field experience and practical judgements, as well as sound engineering technology. UL Engineering Councils currently serve in the areas of Burglary Protection, Casualty, Electrical, Fire, and Marine.

The Consumer Advisory Council members advise UL in establishing levels of safety for consumer products. They also provide additional user field experience and information in the area of product safety and assist in educating the general public in the limitations and safer use of specific consumer products.

UL Standards for Safety are developed under procedures that provide for participation, review, and comment

from industry, government, insurance groups, consumers, other interested parties, and the general public. These procedures take into consideration the needs and opinions of a wide variety of interests concerned with the subject of the standard and afford due process to all those who will be affected by the standard.

UL's Technical Assistance to Exporters (TATE) program offers help to exporters in getting information about international and foreign national standards and information about foreign laboratories and certification programs. UL will investigate a product in accordance with a published foreign national standard or an international standard. UL-generated data may then be submitted to a foreign test station for considerations as a part of their investigation. UL also maintains a Technical Information Center (TIC) for providing access to information about standards, regulations, and submission procedures of foreign countries. The Technical Information Center also includes selected translations of foreign specifications.

Availability

Distributed directly and through ANSI, Global Engineering Documents, the British Standards Association, and the Standards Association of Australia. Translations of some UL Standards for Safety into languages other than English are available from the following organizations: French -- AFNOR; Japanese -- JMI Institute and the Japan Standards Association; and Korean -- Korea Institute of Machinery and Metals. UL Standards for Safety are available in three microform formats from IHS and NSA.

Formerly

Underwriters Electrical Bureau (1901)

Keywords

safety; certification; testing; burglary; casualty; marine; electrical equipment; fire protection; recreation; general; industrial equipment; consumer products; air handling; plastics; commercial equipment; building material;

UNITED LIGHTNING PROTECTION ASSOCIATION

Nina Lancaster, Secretary

2 Richey Avenue
Collingswood, New Jersey 08107
(609) 854-7005

Founded: 1935

Type of Organization	Trade Association Works through other organizations to develop standards
Representation	100 members active in lightning protection activities of standards developers such as UL and NFPA.
Scope	Provides reliable educational materials on the hazards of lightning and what constitutes proper lightning protection. Members must conform to the highest standards of lightning protection systems, engineering, installation, and service to maintain membership.
Standardization Activities	Members serve on numerous committees and in other key roles in helping to establish various standards and codes, such as the Lightning Protection Code of the National Fire Protection Association and the Lightning Protection Installation Requirements Code of Underwriters Laboratories. Consulted frequently by building supply manufacturers, insurance firms, safety groups, and power companies to advise on potential hazards and proper lightning protection.
Keywords	lightning protection; building; safety;

UNITED SHIPOWNERS OF AMERICA

William P. Verdon, President

1627 K Street, NW
Suite 1200
Washington, DC 20006
(202) 466-5388

Telex: TWX 7108221163

Founded: 1977

Standards Staff: 1

Type of Organization	Trade Association Works through other organizations to develop standards
Representation	ANSI MH5 ISO/TC 104
Scope	Supports development of a statutory and regulatory framework within which all ocean carriers in the international trade of the United States will compete on an equal basis and the promotion of U.S. flag shipping through close cooperation with shippers, government agencies, and various international organizations, such as the International Chamber of Shipping and the Maritime Consultative Organization.
Standardization Activities	Participates in domestic and international standards development involving multi-modal cargo containers and related equipment. Representatives are active on ANSI

committee MH5, U.S. TAG to ISO/TC 104, American Bureau of Shipping, and other relevant organizations.

Formerly

Committee of American Steamship Lines (1952)
American Institute of Merchant Shipping (1969)
Council of American-Flag Ship Operators (1978)

Keywords

transportation; ships; containers; intermodal;

UNITED SKI INDUSTRIES ASSOCIATION

Chris Stoddard, Committee Administrator

20 Maple Street
P.O. Box 2883
Springfield, Massachusetts 01101
(413) 781-4732 Fax: (413) 781-6105

Founded: 1989 Standards Staff: 2

**Type of
Organization**

Trade Association
Standards Developer

**Standards
Development**

Standards developer since 1963

**Government
Adoption**

U.S. Department of Agriculture Forest Service, and
states where skiing exists.

Secretariat

ANSI B77.1

Scope

A trade association of ski area operators, manufacturers, and suppliers of ski equipment. Twelve hundred members located in all states and several foreign countries. Aims are to promote skiing and safety in skiing, to protect natural resources in meeting the needs of the skiing public and ski area operators, and to ensure legitimate interests of ski area operators.

**Standardization
Activities**

Maintains committee composed of operators, users, authorities having jurisdiction, designers, and manufacturers of aerial tramways. Developed American National Standard B77.1, Safety Requirements for Passenger Tramways and Lifts, Surface Lifts, and Tows. Promotes this safety standard for the ski lift industry, used by ski lift manufacturers, ski area personnel, ski area insurance programs, and state and federal authorities having jurisdiction.

Availability

Distributed directly and through ANSI

Keywords

aerial tramways; cable cars; cableways; ski lifts;
sports; skiing; recreation;

UNITED STATES COUNCIL FOR INTERNATIONAL BUSINESS

Abraham Katz, President

1212 Avenue of the Americas
New York, New York 10036
(212) 354-4480

Telex: US COUNCIL 14-8361 NYF
Fax: (212) 575-0327

Founded: 1945

**Type of
Organization**

Trade Association
Works through global business organizations to develop
international standards

Representation

U.S. National Committee of the International Chamber of
Commerce (ICC)
U.S. Committee of the International Organization of
Employers (IOE)

Secretariats

U.S. Secretariat for the Business and Industry Advisory
Committee (USA-BIAC) to the Organization for Economic
Cooperation and Development (OECD); U.S. Secretariat
for the U.S. Coordinating Group on European Community
Affairs (USICG)

Scope

A trade association of 300 U.S. based multinational
corporations. Represents its members by keeping them
informed of international business development having a
major impact on their operations.

**Standardization
Activities**

Works with ICC to harmonize trade practices and
terminology resulting in Universal Standards and the
Uniform Customs and Practice for Documentary Credits.
Serves as the business voice in the International Labor
Organization which is active in establishing
international labor standards in the form of
conventions, which are binding on states which ratify
them, and nonbinding recommendations. Works with OECD
to provide models for national legislation, such as tax
provisions, and voluntary standards of behavior for
multinationals.

Keywords

labor standards; social welfare; business; trade
facilitation standards;

UNITED STATES CUTTING TOOL INSTITUTE

Charles M. Stockinger, Secretary/Treasurer

1230 Keith Building
Cleveland, Ohio 44115-2180
(216) 241-7333

Founded: 1988

Type of Organization	Trade Association Works through other organizations to develop standards
Representation	ASME TC 6/Milling Cutter Bodies
Scope	A trade association of companies which produce cutting tools. Aims to reduce manufacturing costs through standardization and eliminate waste, while encouraging competition. Encourages advances in engineering and manufacturing techniques, research and safety in the industry. function as an industry voice in matters of business and national concern.
Standardization Activities	Promotes the standardization of sizes, dimensions and tolerances in cooperation with ANSI, ASME and other national and international engineering organizations. Actively participates in technical and advisory committees of major national standardizing bodies. Promulgates American National Standards on twist drills, reamers, taps and milling cutters which form the basis of federal specifications and individual company standards, as well as reflecting current United states industry practice in the formulation of ISO standards. Publishes the Metal Cutting Tool Handbook and pamphlets such as Drilled Holes for Tapping, Tolerances for Twist Drills and Reamers, and Standards and Dimensions for Taps and Dies.
Formerly	Cutting Tool Manufacturers of America; Metal Cutting Tool Institute.
Keywords	cutting tools; metal; manufacturing;

UNITED STATES GOLF ASSOCIATION

David B. Fay, Executive Director

Golf House
P.O. Box 708
Far Hills, New Jersey 07931-0708
(201) 234-2300

Founded: 1894

Type of Organization	Trade Association Standards Developer
Scope	Membership consists of regularly organized golf clubs and golf courses. Serves as a governing body for golf in the United States. Promotes scientific work in green

keeping and turf management. Provides data on rules, handicapping, tournament procedure, and other related topics.

**Standardization
Activities**

Developed standards for golf balls and golf clubs. In Rules of Golf, specifications concerning style and make of clubs, and size, weight, and velocity of golf balls are included. These specifications are applicable to equipment and balls used in connection with tournaments conducted by the association or under its rules.

Availability

Distributed directly

Keywords

golf; golf equipment; sports;

UNITED STATES HIDE, SKIN AND LEATHER ASSOCIATION
A division of the American Meat Institute

Jerome J. Breiter, President

1700 N Moore Street, Suite 1600
Arlington, Virginia 22209
(703) 841-5485 Fax: (703) 841-9656

Founded: 1980

**Type of
Organization**

Trade Association
Standards Developer

Scope

A national trade association representing the hide and skin trade. Members include meat packers, hide processors, brokers and dealers, and exporters. Organized to promote and improve relational and conditions in the hide industry. Maintains liaison with allied trades as well as the government.

**Standardization
Activities**

Primarily concerned with developing a descriptive package to protect buyers and sellers of hides and skins. Standards describe the product and deal with delivery, trim, grading, weight loss in shipment, and tolerances with an emphasis on exporting.

Availability

Distributed directly

Formerly

National Hide Association
American Association of Hides, Skins and Leather Traders

Keywords

animal hide; leather; materials;

U.S. METRIC ASSOCIATION

Valerie Antoine, Executive Director

10245 Andasol Avenue
Northridge, California 91325
(818) 368-7443

Founded: 1916

Type of Organization	Professional Society Works through other organizations to develop standards
Representation	1,000 members participate in standards activities of the major standards developers.
Certification	USMA has a Certified Metrication Specialist (CMS) program that is administered by the USMA CMS Board. The CMS award is made after applicant passes a stringent examination.
Scope	A nonprofit organization representing 2,000 members from many industries. Provides metrication information to companies; provides consumer and educational services.
Standardization Activities	Involved primarily in promulgating correct SI metric usage in cooperation with ANSI, ASME, ANMC, NAS, and other societies in order to draft metric standards and help determine correct usage of metric units.
Keywords	metrics; metric conversion; education; general;

UNITED STATES PHARMACOPEIAL CONVENTION

Jerome A. Halperin, Executive Director

12601 Twinbrook Parkway
Rockville, Maryland 20852
(301) 881-0666

Founded: 1820

Standards Staff: About three dozen scientists totally involved, not counting administrative support.

Type of Organization	Nonprofit Scientific Society Standards Developer
Standards Development	Standards developer since 1820 113 members of the General Committee of Revision plus about 500 persons in Expert Advisory Panels 1,250 USP Reference Standards 3,200 Articles available

1,000 under development
None processed through ANSI
Draft standards available for review

**Standards
Designations**

USP, United States Pharmacopeia
NF, National Formulary

**Government
Adoptions**

The Food, Drug and Cosmetic Act makes USP and NF standards enforceable by the Food and Drug Administration. Comparable acts exist in most states. Canada and other countries recognize USP-NF in their laws and/or regulations.

Certification

USP is not a certifying agency. FDA is required by law to certify each batch of insulin against USP standards before manufacturers release it.

Scope

Recognized authorities in medicine, pharmacy, and allied sciences. Revises and publishes the U.S. Pharmacopeia (USP) and the National Formulary (NF), the legal compendia of drug standards. Maintains continuous current consensus of appropriate drug use information for health professionals and patients, published as USP D1.

**Standardization
Activities**

Defines articles (i.e., drug substances, drug dosage forms, inactive ingredients, medical devices, and diagnostic agents); states standards for dietary supplements, strength, quality and purity; provides test methods to determine if articles meet standards; establishes packaging and labeling requirements. The elected volunteers of the Committee of Revision with the aid of Advisory Panels make the decisions. The employed staff coordinates these activities. Cooperates with the World Health Organization, the Japanese Pharmacopoeia, the British Pharmacopoeia, and the European Pharmacopoeia. Also with the Foods Chemicals Codex, National Committee on Clinical Laboratory Standards, American Chemical Society, and ASTM. Publishes, bimonthly, the Pharmacopeial Forum, which is the drug standards development journal.

Availability

Subscriptions to USPXX11-NFXV11 and to Pharmacopeial Forum are available directly, as are USP Reference Standards and USP D1 print and electronic publications.

Keywords

drugs; medical devices; diagnostic agents;
pharmaceuticals; pharmacopeias; chemicals; medicines;
medical; drug information; patient drug use
information; reference standards;

UNITED STATES TELEPHONE ASSOCIATION

Paul K. Hart Executive Director, Technical Disciplines

900 19th Street, NW, Suite 800
Washington, DC 20006
(202) 835-3100

Founded: 1897

**Type of
Organization**

Trade Association
Works through other organizations to develop standards

Representation

Members participate on their own behalf in committees of the IEEE, EIA, and ANSI. In some cases the Association is represented directly.

Secretariats

Protection Engineers Group (PEG)

Scope

USTA is the association of the United States wireline telephone companies. Until 1983, membership of the Bell Companies was not permitted by the Association's by-laws and the fact that the Bell operating companies were part of AT&T. With divestiture the Association has dropped the word "independent" from its name and the seven regional telephone companies created after divestiture have joined the Association.

**Standardization
Activities**

While not currently a standards developer the Association reserves the right to sponsor standardization activities which it may deem necessary. With formation of the Exchange Carriers Standards Association, USTA will likely support those efforts. The PEG secretariat will not be affected. The association and its members participate at the working group level of various standards developing organizations and provide the secretariat for the Protection Engineers Group which is a standards developer.

Formerly

United States Independent Telephone Association

Keywords

telephone; network; communications; transmission;

U.S. TENNIS COURT AND TRACK BUILDERS ASSOCIATION

Carol T. Shaner, CAE, Executive Director

113 W. Franklin Street
Baltimore, Maryland 21201
(301) 752-3500

Founded: 1965

Type of Organization	Trade Association Standards Developer
Certification	The association has developed a voluntary Builder Certification Program. To become a certified builder, a member must pass a written examination that demonstrates a high level of knowledge of tennis court construction.
Scope	Represents tennis court and track builders in the United States and internationally. Members include builders of tennis courts, game courts, and running tracks; manufacturers of court and track surface materials, fencing, lighting systems, and court accessories; and professionals involved in the tennis and track industries.
Standardization Activities	<p>Developed Tennis Court and Running Track Guide Specifications. Maintains technical committees to draft and update specifications. Also publishes a maintenance and Repair Specification Guide for tennis courts and Lighting and Fencing Specifications.</p> <p>The latest publications program includes a series of technical data bulletins on tennis court dimensions (with metric equivalents), windscreens, and site investigation for tennis courts and tracks. The series also includes site preparation, earthwork drainage, base/court construction, guidelines for reconditioning fast-dry tennis courts, tennis court orientation, and soil sterilization; also covers color finish systems for tennis courts and resurfacing of asphalt courts. A track data series has also been initiated. The first bulletin covers the conversion of 440 yard tracks to 400 meters. Publishes a 400 meter even track markings layout in cooperation with the National Federation of State High Schools Association.</p> <p>Participates in liaison committees with the U.S. Tennis Association, National Tennis Association, National Sporting Goods Association, Illuminating Engineers Society, National Federation of State High Schools Association, and the U.S. Track & Field Federation.</p>
Keywords	tennis courts; game courts; running tracks; sports;

UNITED STATES TESTING COMPANY

Diane Fuller, Vice President

1415 Park Avenue
Hoboken, New Jersey 07030
(201) 792-2400

Founded: 1880

**Type of
Organization**

Independent Test Laboratory
Standards Developer

Certification

Conducts testing for certification and labeling to assure products meet specified standards.

Scope

An independent commercial laboratory engaged in product testing for quality assurance.

**Standardization
Activities**

Develops standard test procedures including instrumentation for consumer appliances, toys, home entertainment equipment, garden and lawn equipment, recreational goods, textiles, chemicals, cosmetics, drugs, paint, construction materials, plastics, paper, metals, and foods. Cooperates with ASTM and ANSI. Assists government agencies, manufacturers, and trade associations by product testing to ascertain whether specifications and standards are met and to establish national standards.

Formerly

Also known as Nationwide Consumer Testing Institute, Inc.

Keywords

quality assurance; testing; consumer products; materials; food; textiles;

VACUUM CLEANER MANUFACTURERS ASSOCIATION

Clifford J. Wood, Executive Secretary

P.O. Box 2642
North Canton, Ohio 44720
(216) 499-5998

Founded: 1913

**Type of
Organization**

Trade Association
Works through other organizations to develop standards

Scope

Formed to promote the common business interests of vacuum cleaner manufacturers. Services include government affairs, industry statistics, engineering/technical and publicity.

**Standardization
Activities**

Individual member companies of the association, along with general interest representatives, develop United States vacuum cleaner standards through the ASTM F-11 Vacuum Cleaner Committee. Individual member companies also work with the Canadian Standards Association. Maintains a representative on the vacuum

cleaner technical committee of the International Electrotechnical Committee involved in the development of international standards.

Keywords vacuum cleaners; floor care; appliances; consumer products;

VALVE MANUFACTURERS ASSOCIATION OF AMERICA

Malcolm E. O'Hagan, President

1050 17th Street, NW, Suite 701
Washington, DC 20036
(202) 331-8105

Founded: 1938

Type of Organization Trade Association
Works through other organizations to develop standards

Representation Members active in MSSVFI, API, AWWA, SME, ISA, NACE, ANSI, and ISO

Scope Represents the flow control industry. Members comprise 85 percent of U.S. production of industrial valves and actuators used in oil and gas, power, chemical, construction, water, and process industries.

Standardization Activities Although not a standards making body, VMA is a member of ANSI and a strong advocate of U.S. and international standards. Members of the industry are active in a variety of standards activities. VMA is represented on ASME B-16, ISO/TC 153, AWWA C504, and develops standards policy through its Technical Committee and Product Committees.

Keywords valves; actuators; flow control; industrial equipment;

VARIABLE RESISTIVE COMPONENTS INSTITUTE

Stan J. Kukawka, Executive Director

P.O. Box 1070
Vista, California 92083
(619) 727-3011 Fax: (619) 727-6555

Founded: 1960 Standards Staff: 1

Type of Organization Trade Association
Standards Developer

standards Development	Standards developer since 1960 35 member companies participating in standards activities 5 active standards Draft standards available to VRCI members and applicable organizations
standards Designation	VRCI and ANSI prefixes
Certification	No certification, qualification, or accreditation programs
Scope	An international trade association representing manufacturers and users of variable resistive devices such as precision potentiometers, trimmers, and panel potentiometers.
Standardization Activities	Has made significant contributions to the field of standardization and the improvement of quality of variable voltage or resistive devices used in consumer, industrial, and military type applications. Standards cover wirewound and non-wirewound precision, trimming, and industrial potentiometers, potentiometer mounted switches, and surface mount trimming potentiometers.
Availability	Distributed directly and through ANSI
Keywords	potentiometers; resistive devices; electronic components; trimmers;

VINYL SIDING INSTITUTE

See SOCIETY OF THE PLASTICS INDUSTRY

VINYL WINDOW AND DOOR INSTITUTE

See SOCIETY OF THE PLASTICS INDUSTRY

WATER POLLUTION CONTROL FEDERATION

Quincalee Brown, Ph.D., CAE, Director

601 Wythe Street
Alexandria, Virginia 22314-1994
(703) 684-2400 Fax: (703) 684-2492

Founded: 1928

Type of Organization	Technical Professional Society Works through other organizations to develop standards
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Scope	Federation of 65 state, regional, and foreign associations and technical societies. Advances fundamental and practical knowledge of the water environment with emphasis on the technology, design, construction, operation, and management of water quality control systems and facilities. Seeks to: disseminate technical knowledge and information through publications and conferences; promote good public relations and sound regulations aimed toward proper water quality improvements; and improve the status of those working in this field.
Standardization Activities	In cooperation with the American Public Health Association and the American Water Works Association, produces Standard Methods for the Examination of Water and Wastewater. Develops and publishes education, training, design and operation and maintenance materials on: wastewater collection; wastewater treatment; sampling and testing; safety; hazardous waste; microbiology; disinfection; wetlands; air pollution; industrial wastes; financing; sludge processing and handling; regulations.
Keywords	environment; wastewater; pollution; water pollution; industrial wastes; hazardous wastes; air pollution; solid waste; safety;

WATER QUALITY ASSOCIATION

Joseph F. Harrison, P.E., Technical Director

4151 Naperville Road
Lisle, Illinois 60532
(708) 505-0160

Founded: 1948

Type of Organization	Trade Association Standards Developer
Standards Designations	S-100 S-200
Certification	Certifies water softeners and filters complying with Association standards. Sponsors voluntary certification programs for water treatment specialists and water treatment equipment installers.
Scope	A trade association of water conditioning equipment manufacturers and suppliers to the water conditioning industry. Conducts a national public relations program, and serves as the industry's liaison with the public, private, and government sectors. Fosters the

further development of equipment, products, and services in the industry.

**Standardization
Activities**

Developed two equipment standards, S-100 for Household, Commercial and Portable Exchange Water Softeners, and S-200 for Household and Commercial Water Filters. A testing program for both standards is conducted by an independent testing laboratory, and certification is made through the association following laboratory validation. These standards have national application, and the voluntary testing program is open to manufacturers of water softeners and water filters. In addition to intra-industry promotion of the use of the equipment validation program, the association uses its public relations channels to inform consumers of the integrity of certified equipment. S-100 and S-200 have been developed through consultation with the National Institute of Standards and Technology; U.S. Department of Commerce; Federal Housing Administration; and other government agencies, as well as quasi-public and private organizations concerned with equipment standards. The association is currently developing standards for reverse osmosis and chemical feeding equipment.

Availability

Distributed directly

Formerly

Water Conditioning Foundation (1974)

Keywords

consumer products; industrial equipment; water quality; water treatment;

WATER SYSTEMS COUNCIL

Charles G. Stolberg, Executive Director

600 S. Federal Street, Suite 400
Chicago, Illinois 60605
(312) 922-6222

Founded: 1932

**Type of
Organization**

Technical Society
Standards Developer

**Standards
Development**

6 active standards

Scope

Represents and serves leading manufacturers of domestic and farm water systems equipment.

Standardization Activities	Develops Testing and Rating Standards which are established in the public interest, and are designed to supply the purchaser and user of automatic, electric water systems with accurate performance data and to assist in the determination of proper application and selection of this equipment. The standards cover shallow well water system pumps; deep well water system pumps; deep well submersible pump motor standards; and hydropneumatic tank volume standards.
Availability	Distributed directly
Formerly	National Association of Domestic and Farm Pump Manufacturers
Keywords	pumps; motors; water systems; wells; building;

WEST COAST LUMBER INSPECTION BUREAU

Ray L. Todd, Executive Vice President

P.O. Box 23145
Portland, Oregon 97223
(503) 639-0651

Founded: 1911 Standards Staff: 2

Type of Organization	Trade Association Standards Developer
Standards Development	Develops lumber grading rules Drafts not available for review
Standards Designation	West Coast Lumber - Standard Grading Rules, No. 16
Certification	Provides official grade stamps to mark lumber conforming to West Coast Grading Rules.
Scope	An industry owned, nonprofit corporation that provides lumber quality control services at its approximate cost. Serves the area west of the summit region of the Cascade Mountains in the States of Washington and Oregon and the entire State of California. Services available to any producer, user, distributor, or dealer handling West Coast lumber products. Maintains uniform standards of lumber grading and manufacture, promotes the use of grade stamped lumber as an assurance to the buyer, seller, and consumer that the interests of each are fully protected, and assists in the efficient use of West Coast lumber products.

**Standardization
Activities**

One of the three major rules writing agencies in the United States, in addition to the Western Wood Products Association and Southern Pine Inspection Bureau. Responsible for the principal part of all the quality control programs for softwood lumber production in the United States. Supervises or grades four and one-half to six billion feet of lumber per year, which is the bulk of all production west of the Cascades.

Bureau activities include the publication and distribution of West Coast Grading Rules, supervision of the grading manufacturing practices of subscriber plants, grade stamping of West Coast lumber with official Bureau stamps, certificate inspection of lumber shipments, reinspection of lumber in dispute at destination, and assistance to specification agencies, buyers and consumers of West Coast products. Participates in ASTM and Department of Commerce Voluntary Product Standard Programs.

Availability

Distributed directly

Formerly

West Coast Lumbermen's Association

Keywords

wood products; grading rules; inspection; lumber; building;

WESTERN WOOD PRODUCTS ASSOCIATION

Howard A. Roberts, President

Yeon Building
522 SW Fifth Avenue
Portland, Oregon 97204-2122
(503) 224-3930

**Type of
Organization**

Founded: 1964 (predecessors early 1900)
Trade Association
Standards Developer

**Standards
Development**

Standards developer since early 1900's
Prepared under the umbrella of the National Institute of Standards and Technology Voluntary Product Standard PS 20-70 and the American Lumber Standards Committee.

**Standards
Designation**

Western Lumber Grading Rules
Machine Stress-Rated Western Lumber C/QC Procedures 102.86
Glued Products C/QC Procedures 101.86
North American Export Standard for MSR Lumber

Government Adoption	All building code writing and purchasing agencies (federal and state and local) accept lumber graded pursuant to WWPA grading rules. Additionally, WWPA rules are accepted world wide.
Certification	WWPA and its Western Lumber Grading Rules are approved by the Board of Review of the American Lumber Standards Committee. WWPA provides member companies with grade stamps to mark lumber graded under Association rules and supervision. A symbol indicates that the piece is graded under WWPA rules and the provisions of NIST Voluntary Products Standard PS 20-70.
Scope	WWPA consists of member companies throughout the 12 contiguous Western states. WWPA maintains a lumber grade inspection bureau to assure grading standards on a uniform basis. WWPS provides promotion, advertising, technical, safety, export and statistical services; promotes forest conservation.
Standardization Activities	Writes rules for Western lumber that conform to the National Institute of Standards and Technology Voluntary Product Standard PS 20-70, American Softwood Lumber Standard. Also writes rules for machine stress-rated lumber and glued lumber products in accordance with PS 20-70. Supervises member company grading procedures and practices through periodic sampling inspections of company graded lumber. Actively involved in writing and reviewing standards approved by the American Society for Testing and Materials (ASTM) and CEN Standards (European Community for Standardization).
Availability	Sold directly
Keywords	wood products; lumber; grading rules; inspection; building; machine stress-rated; finger joint;

WIRE REINFORCEMENT INSTITUTE

	Milton R. Sees, President
	1760 Reston Parkway, Suite 403 Reston, Virginia 22070 (703) 709-9207
	Founded: 1930
Type of Organization	Trade Association Works through other organizations to develop standards
Representation	ASTM A-1, C-13

Scope	An association of producers of welded wire fabric, wire reinforcement, and wire products for the reinforcement of concrete and other construction materials. Purpose is to advance industry through scientific research, educational activities, engineering, product development, and general construction technology.
Standardization Activities	Codes and Standards Committee works through ASTM to develop specifications for wire and wire welded fabric. Makes recommendations to ASTM Committee A-1 on steel and C-13 on concrete pipe.
Keywords	reinforcement; concrete; wire fabric; materials; construction;

WOOD AND SYNTHETIC FLOORING INSTITUTE

	Patricia H. Keating, Executive Vice President
	4415 W. Harrison Street, Suite 242-C Hillside, Illinois 60612 (312) 449-2993
	Founded: 1954
Type of Organization	Trade Association Standards Developer
Standards Development	14 active standards
Scope	Comprised of flooring contractors throughout the United States. Represents the industry in matters of interest to its membership.
Standardization Activities	Publishes standards for all types of floors and floor surfaces. Develops programs for estimating of flooring installations and investigating fire safety of synthetic surfaces. Operates a continuing program of updating specifications.
Availability	Distributed directly
Formerly	Wood Flooring Institute (1970)
Keywords	flooring; safety; wood products; building;

WOOD HEATING ALLIANCE

Gary T. Satterfield, Technical Director

1101 Connecticut Avenue, NW, Suite 700
Washington, DC 20036
(202) 857-1181

Founded: 1974

**Type of
Organization**

Trade Association
Standards Developer

Certification

The Alliance maintains a certification program for wood heater performance and accredits laboratories to run tests according to Alliance standards.

Scope

A national trade association for the solid fuel (wood and coal) home heating industry. Members include manufacturers, distributors, retailers, laboratories, manufacturers representatives, and chimney sweeps. Represents members in government affairs, code and technical areas. Services include statistical reports, trade information, newsletters, and conferences.

**Standardization
Activities**

Concentrates on standardizing methods to measure the heating performance of fireplaces, wood stoves, and fireplace inserts.

Availability

Distributed directly

Formerly

Fireplace Institute
Wood Energy Institute

Keywords

wood; solid fuel; heating; fireplaces; wood stoves;

WOOD MACHINERY MANUFACTURERS OF AMERICA

Don White, Executive Vice President

1900 Arch Street
Philadelphia, Pennsylvania 19103
(215) 564-3484

Founded: 1899

Standards Staff: 1

**Type of
Organization**

Trade Association
Standards Developer

Secretariats

American National Standards Committee 01

Scope	110 manufacturers of machinery and equipment used in the production of lumber, veneer, millwork, and other wood products, but not including hand portable tools and equipment. Serves the industry by providing a forum to address technical and business issues and improve markets for U.S. made machinery.
Standardization Activities	Develops standards that enhance the safety and operability of woodworking machinery. Current publications include the widely recognized Noise Test Code and the Cutting Tool Safety Guidelines. Resources have been applied through ANSI to develop and maintain the voluntary consensus standard Safety Requirements for Woodworking Machinery, ANSI O1.1, which defines standards for safe installation, operation, and maintenance of woodworking machinery and accessory equipment.
Availability	Distributed directly
Formerly	Woodworking Machinery Manufacturers of America
Keywords	woodworking machinery; noise; safety;

WOOD MOULDING AND MILLWORK PRODUCERS

	Bernard J. Tomasko, Executive Vice President
	P.O. Box 25278 1730 Southwest Skyline Portland, Oregon 97225 (503) 292-9288
	Founded: 1963
Type of Organization	Trade Association Standards Developer
Standards Development	7 active standards None processed through ANSI
Standards Designation	WM prefix
Scope	Manufacturers of wood moulding and millwork. Provides promotion, standardization, and marketing information services.
Standardization Activities	Standards are initiated through a standing committee and administered by the association staff. Available standards include the WM/Series Moulding Patterns catalog of accurate, full scale renderings of the most popular wood moulding profiles used nationwide. This may be used as a standard basis for

all U.S. moulding producers. Included in the current catalog are grading rules for standard mouldings and finger joint and priming standards.

Other available standards include: Industry Standard WM 1-79, Wood Interior Door Jambs and Frames; WM 2-82, Vinyl Wrapped Interior Moulding and Millwork Products standard; WM 3-79, Exterior Wood Door Frames; WM 4-85, Wood Moulding Requirements; WM 5-81, Standard Certified Non-Structural Laminated or Finger Jointed Wood; and WM 8-89, Industry Standard 20-Minute Fire-Rated Wood Door Frames.

Availability Distributed directly and through members

Keywords wood products; moulding; millwork; grading rules; lumber; building;

WOODWORK INSTITUTE OF CALIFORNIA

Bernard B. Barber, Jr., Executive Secretary

P.O. Box 11428
1833 Broadway
Fresno, California 93773
(209) 233-9035 Fax: (209) 237-7304

Founded: 1951 Standards Staff: 5

Type of Organization Trade Association
Standards Developer

Certification The W.I.C. has established a Certification Licensing Procedure available to firms in California and Nevada.

Scope A statewide trade association in California and Nevada of independent and competing producers of millwork and allied products, the particular purpose of which is the development and dissemination of information relative to uses, advantages, and utility of wood products.

Standardization Activities Standards have been developed for materials and methods of fabrication for all types of architectural woodwork in California by the Woodwork Institute since 1951. The standards are developed by a Technical Committee and approved by the Board of Directors. Standards designation is the Manual of Millwork, M/M. Several governmental agencies have adopted the Woodwork Institute's Standards.

Availability Distributed directly

Keywords wood products; millwork; building;

3. FEDERAL GOVERNMENT

3.1 FEDERAL VOLUNTARY STANDARDS POLICY (OMB CIRCULAR A-119)

On October 26, 1982, the Office of Management and Budget (OMB) issued Circular A-119, entitled "Federal Participation in the Development and Use of Voluntary Standards." This establishes a policy for all federal executive branch agencies concerning the use of voluntary standards and participation of federal employees in their development. It sets forth "the policy of the federal government in its procurement and regulatory activities to rely on voluntary standards, both domestic and international, whenever feasible and consistent with law and regulation pursuant to law." Voluntary standards should be adopted and used by federal agencies "in the interests of greater economy and efficiency" and should be given preference over non-mandatory government standards unless use of such voluntary standards would adversely affect performance or cost, reduce competition, or have other significant disadvantages.

Participation by federal agency employees in voluntary standards activities is encouraged when it would be "in the public interest and is compatible with agencies missions, authorities, priorities, and budget resources." Such participation should be aimed at contributing to the development of voluntary standards that will eliminate the necessity for the development and maintenance of separate government standards.

The Circular requires the coordination of agency participation so that (1) the most effective use is made of agency resources and representatives, and (2) the views expressed by those representatives are in the public interest, and, at minimum, do not conflict with the interests and established views of the agencies. Agencies must establish procedures to ensure that their representatives who participate in voluntary standards activity "will, to the extent possible, ascertain the views of the agency on matters of paramount interest, and will, as a minimum, express views that are not inconsistent or in conflict with established agency views."

The Circular also requires that agencies responsible for developing Government standards review their existing standards at least every five years and cancel those for which adequate and appropriate voluntary standards can be substituted.

3.2 ROLE OF INTERAGENCY COMMITTEE ON STANDARDS POLICY

The Interagency Committee on Standards Policy was established in 1968 to encourage coordination and liaison among federal agencies on matters relating to standards. In response to the provisions of OMB Circular A-119, it is composed of policy-level representatives of the 13 federal cabinet departments, 12 independent federal agencies, and two offices in the Executive Office of the President, including the Office of Management and Budget. The National Institute of Standards and Technology provides the Chairman and the Secretariat.

The Committee meets at least once a year to establish new task groups of standards experts from agencies with specific interest in selected topics and to review work carried out by similar, previously established ad hoc groups. Recommendations are generally in the form of guideline documents and are transmitted to the Secretary of Commerce for distribution to the heads of agencies and departments represented on the Committee. They may also be published in the Federal Register. Typical task group assignments cover participation in international standardization activities, certification programs, and other standards-related activities.

3.3 FEDERAL GOVERNMENT ORGANIZATIONS

This section includes 77 entries for federal departments, agencies, and other organizational elements, most of which are standards developers. It should be noted that some federal standards are voluntary, though the majority are mandatory by reason of being referenced in legislation or regulations, or are invoked in contracts as a condition of sale to Government agencies. Many nongovernment standards are mandated in the same way.

Government organizations were asked to cite the means by which their standards are implemented or promulgated. Usually this is accomplished by incorporating the standards in applicable Parts of the Code of Federal Regulations (CFR). How the agency usually applies standards is summarized in the paragraph "Application." Authority for an agency's standardization activity is also included and is usually a citation of the United States Code (U.S.C.), a Public Law (P.L.), or a Part of the CFR. Most organizations have indicated the extent to which they adopt nongovernment standards and participate in government and private sector standards committees.

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DEPARTMENT OF AGRICULTURE

AGRICULTURAL MARKETING SERVICE

Administrator
Room 3071 South Building
P.O. Box 96456
Washington, DC 20250
(202) 447-5115 FAX: (202) 447-8477

Authority

Agricultural Marketing Service (AMS) carries out standardization activities under the Agricultural Marketing Act of 1946, the U.S. Cotton Standards Act of 1923, the Tobacco Inspection Act of 1935, the Federal Seed Act of 1939, and the Egg Products Inspection Act (EPIA).

Implementation

U.S. grade standards for food and farm products are contained in the Code of Federal Regulations, Section 7. Standards for cotton, lintens, wool, tobacco, live animals, raisins, turpentine, fresh fruits and vegetables, processed fruits and vegetables, dairy products, meat, poultry, and poultry products are promulgated under 7 CFR, Part 26-209.

The purpose of the standards is to identify the degrees of quality in food and farm products and thereby aid in marketing by establishing the usability or value of these products.

The standards, in most cases, are for voluntary use by industry. There are 39 standards for cotton, Upland cotton, 7 for Pima cotton and 8 for lintens; 13 standards for dairy products; over 150 standards for fresh fruits, vegetables, nuts, and specialty products; over 150 standards for processed fruits and vegetables, honey, and miscellaneous processed products; 7 standards for meat; 11 standards for live animals and wool; 7 standards for shell eggs; one standard for poultry and rabbits; and 15 standards for tobacco and naval stores. Within each standard, there are a number of levels of quality-grades- for the product.

AMS sets standards for agricultural and vegetable seed purity, germination, and variety certification. The standards are found in 7 CFR, Part 201.

Under the EPIA, AMS specifies the conditions under which egg products and "restricted eggs" are handled.

Application

Grading, inspection, or classing services, to certify the quality of products according to the U.S. grade standards, are provided by Department of Agriculture (USDA) to producers, packers, wholesalers or others, on

request, and usually for a fee to cover the cost of the service.

Egg products plants must operate under continuous inspection of USDA, and these plants must apply for the service, submit blueprints of their plant, complete any necessary remodeling and equipment installation, submit labels, and have their water supply approved. Egg products plants are those which manufacture liquid, frozen, or dried egg products.

Businesses that handle shell eggs must register with USDA. They must also destroy eggs that are in any way unsuitable for human consumption eggs. Dirty eggs and eggs with cracked shells but with the contents not leaking, must be shipped only to officially inspected egg products processing plants for proper segregation and processing.

In addition, AMS approves or disapproves for importation egg products from foreign countries.

AMS has cooperative agreements with each state to regulate interstate commerce for agricultural and vegetable seeds. Under these agreements, the States refer apparent violations of the Federal Seed Act interstate provisions to AMS for verification and appropriate action. In addition, AMS conducts a voluntary seed certification program.

**Qualification,
Certification,
or Calibration**

Services to certify the quality of products according to the U.S. grade standards are provided for a fee to cover the cost of the service. The Tobacco Inspection Act provides for free and mandatory inspection of tobacco based on official grades, after a referendum in which two-thirds of the growers supplying an auction market vote approval. Tobacco may also be inspected on a voluntary, fee-for-service basis.

**Committee
Activity**

AMS officials participate in committees of trade, technical, and academic organizations -- both national and international --related to AMS commodities and functions as appropriate.

**Standardization
Activities**

Standardization specialists in each commodity area develop new U.S. grade standards and revise current standards as necessary to promote orderly marketing. Market surveys and other studies are conducted, and proposed standards and revisions are published for public comment before implementation.

Availability

Information on the AMS activities described here is available from the AMS, Information Staff, P.O. Box 96456, Room 3510-S, Washington, DC 20090-6456.

Keywords

food; farm products; agriculture; grading; seed testing; cotton classing; U.S. grade standards; egg products inspection;

DEPARTMENT OF AGRICULTURE**FEDERAL GRAIN INSPECTION SERVICE**

Standards and Procedures Branch
Field Management Division
Room 1661-South
P.O.Box 96454
Washington, DC 20250
(202) 382-0252 FAX: (202) 447-4628

Authority

The Federal Grain Inspection Service (FGIS) carries out standardization activities under the U.S. Grain Standards Act (USGSA), as amended (P.L. 94-582) and under the Agricultural Marketing Act of 1946 (AMA), as amended.

Implementation

Standards for grains are promulgated under 7 CFR, Part 810. Standards for rice, dry beans, lentils, and dry peas are promulgated under 7 CFR, Part 68. Standards for hay and straw are promulgated under 7 CFR, Part 57.

Nineteen U.S. Standards are currently in effect. Use of the standards under the USGSA is mandatory for grain exports, except to Mexico and Canada, by land carriers. Inspections of grains moving in domestic commerce are voluntary. As provided by the AMA, all inspection services (including export) are voluntary on the part of the trade.

Application

The amended U.S. Grain Standards Act requires FGIS to provide: (1) mandatory inspection and weighing services at export ports by federal or delegated state agency personnel; and (2) permissive inspection and weighing services at domestic locations by designated state and private agency personnel. The USGSA also requires FGIS to supervise all official inspection and weighing activities whether performed by federal personnel. Further, on a request basis, federal personnel perform inspection of rice and related commodities under the AMA and provide nationwide appeal inspection services.

**Qualification,
Certification,
or Calibration**

The Standards and Procedures Branch within the Field Management Division develops and implements grain inspection procedures to assure uniformity and reliability.

The Research and Development and Quality Control

Branches, of the Quality Assurance and Research Division, conducts research to develop, evaluate, approve, and monitor new grain inspection methods and equipment.

**Committee
Activity**

The Division participates in the following standards related committees:

- FGIS Advisory Committee
- Codex Committee on Cereals, Pulses and Legumes
- International Organization for Standardization
- National Conference on Weights and Measures
- NC-151 Committee
- Rice Millers' Association -- Grades Committee
- American Dry Pea and Lentil Association -- Grades Committee
- National Dry Bean Council -- Grades Committee
- National Grain and Feed Dealers Association -- Grades Committee
- PNW Grain Standards and Quality Committee
- Grain Elevator and Processing Society -- Grades Committee
- National Alfalfa Hay Quality Committee
- Western Regional Coordinating Committee for Predicting Nutritive Value of Alfalfa Hay
- National Infrared Reflectance Project on Forages
- National Sunflower Association -- Grades Committee
- American Soybean Association -- Grades Committee
- American Farm Bureau Federation -- Wheat Advisory Committee
- North American Export Grain Association, Inc. -- Grades Committee
- National Hay Association -- Grades Committee

**Standardization
Activities**

FGIS standardization activities aid orderly marketing of grain, oilseeds, rice, and related commodities. This is accomplished through the development, promulgation, and uniform application of new and revised U.S. standards for grain, oilseeds, rice, dry beans, dry peas, lentils, hay, straw, hops, and related processed commodities. Activities include establishment, review, and revision of U.S. Grain Standards to reflect the latest inspection techniques and marketing needs. The agency also evaluates instruments and equipment used in the inspection and weighing process to ensure accuracy. In addition, the agency maintains an international monitoring program which interacts with foreign governments and trade teams to exchange information and to respond to complaints concerning quality and quantity of grain shipments.

Availability

Copies of the standards are available through the Management Improvement and Information Programs Branch, Department of Agriculture (USDA), FGIS, Room 1626,- South Building, 1400 Independence Avenue, SW,

Washington, DC 20250, telephone (202) 475-3428.

Keywords

grain inspection; grain standards; grain weighing;
commodity inspection; grain marketing; agricultural
grading; food; agriculture;

DEPARTMENT OF AGRICULTURE

FOOD SAFETY AND INSPECTION SERVICE

Office of the Administrator
331-E Administration Building
Washington, DC 20250
(202) 447-8217 FAX: (202) 472-4437

Authority

- (1) 21 U.S.C. 601-695, March 4, 1907, the Federal Meat Inspection Act, as amended in 1967, to authorize the examination of animals and meat products used in interstate or foreign commerce, and inspection of slaughter and packing establishments.
- (2) 21 U.S.C. 451-469, August 28, 1957, the Poultry Products Inspection Act, as amended in 1968, to provide for the compulsory inspection of poultry and poultry products at slaughter and processing plants.
- (3) 7 U.S.C. 1901-1906, the Humane Slaughter Act, to require humane methods of slaughter in federally inspected plants.

Implementation

9 CFR, III-A and C, Parts 301-335 and 381, Mandatory Meat Inspection and Mandatory Poultry Products Inspection.

Application

Mandatory continuous on-site inspection of domestic meat and poultry. Periodic reviews of foreign country inspection systems eligible to export meat and poultry to the United States.

**Qualification,
Certification,
or Calibration**

Standards have been developed to cover the ingredients, methods of processing, and labeling of meat and poultry products; the materials and design of plant facilities and equipment; inspection methods; and chemical compounds permitted in the formulation, packaging or processing of meat and poultry products.

In FY 1988, 154,570 labels were approved; 3,783 plant blueprints were reviewed; 3,861 equipment drawings were reviewed; 11,051 packaging materials and compounds were reviewed; and the inspection systems of 29 countries that export products to the United States were reviewed.

**Committee
Activity**

Standards are developed by appropriate staffs within the program in consultation with the National Meat and Poultry Inspection Advisory Committee.

**Standardization
Activities**

The Food Safety and Inspection Service (FSIS), Department of Agriculture (USDA), administers a comprehensive inspection system to assure that meat and poultry is safe, wholesome, and accurately labeled. Inspection begins with review of a slaughtering or processing plant's plans for facilities, equipment, and procedures to assure that the plant will have a safe and sanitary operation. Animals are inspected both before and after slaughter. Veterinary supervisors monitor the procedures and work with the inspectors to assure uniformity in the inspection process and to provide expertise in detecting animal diseases. Inspection also includes examination for drug and chemical residues, and inspectors regularly take tissue samples from slaughtered animals and send them to FSIS laboratories. FSIS reviews the procedures, recipes, and labels used to manufacture processed meat and poultry products to assure they will be safe to eat and accurately labeled.

More than 7,600 inspectors and veterinarians oversee inspection in 6,910 plants nationwide. Scientific testing to support the inspection program is carried out in three field laboratories, augmented by certified state and private laboratories. FSIS compliance officers make over 56,000 reviews annually of approximately 10,000 meat and poultry product handlers. FSIS regularly reviews the inspection systems operated by foreign countries to ensure they enforce requirements at least equal to those of the U.S. system. Imported products are re-inspected on a sample basis at the port-of entry.

Availability

Publications sold by Government Printing Office

Keywords

inspection; meat; label; review; food; poultry; import;

DEPARTMENT OF AGRICULTURE

FOREIGN AGRICULTURAL SERVICE

Office of the Assistant Administrator
International Trade Policy, Room 5057 SAG
14th and Independence Avenue, SW
Washington, DC 20250
(202) 447-6887 FAX: (202) 472-4774

Authority	19 U.S.C. 2542 Trade Agreements Act of 1979-Title IV-Technical Barriers to Trade (Standards) Subtitle B-Functions of Federal Agencies, Sec. 412. Establishment and Operation of Technical Offices.
Implementation	7 CFR, Part 2 & E.O. 1218, Sec. 1-103. Final rule published in the Federal Register Vol. 45, No. 242, December 15, 1980-page 82153.
Committee Activity	The Foreign Agricultural Service (FAS), Department of Agriculture (USDA), Technical Office participates in two intra-agricultural committees, the National Agricultural Pesticide Impact Assessment Program (NAPIAP), which is a policy committee, and Technical Advisory Group (TAG), which is an advisory committee to NAPIAP. In addition, the Technical Office is represented on the inter- governmental agency Trade Policy Staff Committee (TPSC) - Subcommittee on Standards. The Technical Office is also involved with two non-governmental committees, the National Agricultural Chemicals Association (NACA) - International Committee and the Association of Official Analytical Chemists (AOAC) Committee on Laboratory Accreditation.
Standardization Activities	<p>Participated in the development of the General Agreement on Tariffs and Trade (GATT) Agreement on Technical Barriers to Trade (Standards Code) and currently participates in twice-yearly Standards Code meetings in Geneva. Receives, through the GATT Secretariat and U.S. diplomatic posts in foreign capitals, notifications of proposed foreign mandatory standards and their requirements concerning agricultural products. Publishes proposed standards in Export Briefs (a weekly trade paper published by FAS) and also notifies them in Agnet (a computerized agricultural reporting system of the University of Nebraska). Comments, when appropriate, are sent to other governments or signatories to the Code on their proposed mandatory standards and related tests or certification systems, when their proposals are seen as potential barriers to trade. Assists in representations to foreign governments on standards-related trade policy activities. Provides information to U.S. exporters on existing standards in foreign countries. Provides advice to state and local governments on foreign trade aspects of their activities.</p> <p>In accordance with provisions of the Trade Agreements Acts, nineteen committees have been established: ten Agricultural Policy Advisory Committees, and nine Agricultural Technical Advisory Committees for Trade. These committees address trade issues in the areas of cotton, dairy, fruits and vegetables, grain and feed,</p>

livestock and products, oilseeds and products, poultry and eggs, sweeteners and tropical products, and tobacco and provide advice to Secretary of Agriculture and U.S. Trade Representative on standards-related trade policy activities of the United States.

Keywords

GATT; Standards Code; inquiry point; international trade; business; food; agriculture;

DEPARTMENT OF AGRICULTURE

FOREST SERVICE

Engineering Staff
3rd floor CEN, Auditors Building
201 14th Street, SW
Washington, DC 20250
(703) 453-9400 FAX: (202) 447-3610

Implementation

The United States Department of Agriculture Forest Service (USDA/FS) prepares standards for internal use; it does not promulgate standards for general use and prefers to reference existing voluntary standards.

Application

Application is usually decided by the sponsoring organization. For example, USDA/FS technical input on the strength of wood members was used by ladder manufacturers and was published by the American National Standards Institute and the National Safety Council. OSHA and CPSC adopt all or parts of these standards.

**Committee
Activity**

USDA/FS technical experts participate in organizations including: ALSC, ASTM, AASHTO, ANSI, NFPA, HUD (FHA), FmHA, etc. They participate as technical authorities and represent the general interest category rather than producer or user.

**Standardization
Activities**

USDA/FS technical experts participate in standards activities as individuals, and occasionally, when required, pay membership dues themselves.

Availability

Standards are obtainable through the sponsoring organization (e.g., ASTM, ANSI).

Keywords

wood; lumber; pulp; paper; glue; lumber grading; strength of wood; wood preservatives; wood adhesives;

DEPARTMENT OF AGRICULTURE

INFORMATION RESOURCES MANAGEMENT

Planning, Review, and Standards Division
Room 447-W Administration Building
Washington, DC 20250-7600
(202) 447-6275 FAX: (202) 382-1031

Authority

PL 89-306 and resulting Federal Information Processing Standards (FIPS PUBS); PL 93-579; PL 96-511; Federal Property and Administrative Services Act of 1949, companion letter of August 14, 1972 from the Administrator of GSA delegating federal telecommunications standards development responsibilities to the Executive Agent of the National Communications System and recently confirmed and amplified by Executive Order 12472.

Implementation

The Office of Information Resources Management (OIRM) is responsible in USDA for standards that cover information processing management and operations for office automation, data processing, data administration and telecommunications environments, related data and security. The specifications are promulgated in the Departmental Directives System, in regulations, and in the Departmental standards and mandatory procedures which must be followed. Voluntary federal and Departmental procedures and guidelines are to be used unless an alternative specification is superior.

Application

The specifications are used in acquisition documents to control products and services brought into the Department's inventory. They apply to all information processing units, resources, and activities in USDA.

Adoption

The majority of the Departmental standards are incorporated from those specified in the FIPS PUBS of the National Institute of Standards and Technology (NIST). A few are from other standards bodies such as the American National Standards Institute (ANSI).

Qualification, Certification, or Calibration

Certification is required of computer software pursuant to the requirements of Office of Management and Budget Circular A-71. Certification is required of all sensitive systems. Conformance of products to FIPS PUBS is tested in accordance with tests or procedures developed by NIST or OIRM.

Committee Activity

OIRM participates in standardization activities (committees, user workshops, etc.) of the National Institute of Standards and Technology, the United Nations, and the National Communication System.

**Standardization
Activities**

OIRM coordinates the review of draft FIPS PUBS by Agriculture agencies, consolidates comments and works with NIST to ensure that standards meet the Department's requirements. New specifications are adopted automatically if they are federal standards and after review if they are procedures or guidelines. OIRM lends assistance to the agencies in developing interim standards to address areas where no formal federal standard exists.

Keywords

ADP; telecommunications; automation; data management; data administration; computers; information resources management; data processing; standards;

DEPARTMENT OF AGRICULTURE

PACKERS AND STOCKYARDS ADMINISTRATION

Livestock Marketing Division
Scales and Weighing Branch
Room 3414, South Agriculture Building
Washington, DC 20250
(202) 447-3140

Authority

7 U.S.C. 181-229, Packers and Stockyards Act; 9 CFR 201.71 and 201.72.

Implementation

Subject livestock dealers, market agencies, stockyards, meat packers and poultry dealers are required by regulations promulgated under the authority of the Packers and Stockyards Act to install, maintain, and use scales which conform to the specifications, tolerances, and other technical requirements set out in NIST Handbook 44.

Application

The Packers and Stockyards Administration monitors the selection, installation, maintenance, testing and use of livestock, monorail, and vehicle scales operated by subject firms to assure that such devices conform to NIST Handbook 44 requirements. The Agency also participates in the testing of such devices when newly installed and in connection with training and investigative activities.

**Adoption of
Nongovernment
Standards**

None

**Qualification
Certification
or Calibration**

Scale testing agencies must be competent and must use properly calibrated test weights in sufficient amounts to properly test scales in accordance with requirements set out in NIST Handbook 44.

Committee Activity	The Packers and Stockyards Administration has a participating membership on the Technical Committee on National Type Evaluation, Weighing Industry Sector, of the National Conference on Weights and Measures.
Standardization Activities	The Packers and Stockyards Administration is an active participant in the National Training Program of the National Conference on Weights and Measures. In that capacity the agency participates in the development of test procedures and instructional material and furnishes instructors to provide training and certification under the National Training Program.
Availability	NIST Handbook 44 is available from the Government Printing Office. Testing and weighing procedure memorandums are available from the Packers and Stockyards Administration.
Keywords	testing; weighing; training; livestock; meat; and poultry;

DEPARTMENT OF AGRICULTURE

RURAL ELECTRIFICATION ADMINISTRATION

Room 4051 South Building
Washington, DC 20250
(202) 382-9540

Authority	7 U.S.C. 901-950b with amendments through October 1988.
Implementation	Through printed bulletins and lists of Rural Electrification Administration (REA) accepted materials and equipment.
Application	Electric and Telecommunications Staff Divisions work with area offices to maintain and make available to borrowers construction, maintenance, and operating standards and lists of materials accepted as meeting those standards.
Adoption of Nongovernment Standards	REA incorporates new and revised nongovernment standards into REA's lists.
Qualification, Certification, or Calibration	Borrowers must submit work plans to REA defining the proposed construction. REA does not become directly involved in bidding and letting contracts to manufacturers, but borrowers have the responsibility of using those on approved list.
Committee Activity	REA sits on appropriate committees with IEEE, ANSI, and others with activities which relate directly to electric and telecommunications borrowers.

**Standardization
Activities**

REA has issued 385 Bulletins detailing requirements for organizing, financing, designing, constructing, and operating electric generation and distribution systems and telephone facilities. Nearly half of these define technical requirements for equipment, materials, design, testing, safety, and maintenance. The remainder include lists of acceptable materials as well as standards for financial and statistical reports, loan agreements, model contracts and related business matters.

Standards and specifications of national standardizing organizations are utilized to the maximum practicable extent. Where they are not adequate or where they do not exist, REA prepares standards and specifications to be used by its borrowers which construct and operate rural electric and telephone systems. Standards and specifications are also prepared where it appears that such specifications and standards will result in reduced costs, improved materials and equipment, or the more effective use of engineering services. Standards and guides are also prepared which relate to the management and operation of rural electric and telephone systems.

REA standards are utilized by 2,000 rural electric and telephone systems to which loans have been made in 47 states, The Virgin Islands, Guam, Puerto Rico, Saipan, Tinian, and Rota. The standards are also utilized by other organizations in this country and abroad.

Availability

Information on REA standards and copies of most standards are available upon request to the Rural Electrification Administration, U.S. Department of Agriculture (USDA), Washington, DC 20250. Several REA publications which include specifications, standard construction drawings and contract forms are available from the U.S. Government Printing Office.

Keywords

electric power; transmission; distribution; generation; energy; electrical equipment; telephone; communications;

DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

Public information Office
Room 2705, FB 3
Washington, DC 20233
(301) 763-4051

Committee Activity	The Bureau of the Census, Department of Commerce (DOC), participates in pertinent standards committees of the following: American Agricultural Economics Association; American National Standards Institute; Office of Management and Budget, Statistical Policy Office, Office of Information and Regulatory Affairs; Department of State, Commission on Cartography; Department of Interior, National Mapping Division, Spatial Data Transfer Standard Technical Review, Board on Geographic Names.
Standardization Activities	The Bureau of the Census is active in development of standards and specifications for definition of metropolitan statistical areas, digitalizing of geographic information, and statistical economic and geographic definitions.
Keywords	cartography; metropolitan statistical areas; economic statistics; digital cartography; digital geographics; data;

DEPARTMENT OF COMMERCE

FEDERAL COORDINATOR FOR METEOROLOGY

6010 Executive Blvd., Room 900
 Rockville, Maryland 20852
 (301) 443-8704

Authority	<ol style="list-style-type: none"> (1) Section 304 of the Department of Commerce (DOC) Appropriation Act of 1963. (2) OMB Circular A-62 dated November 13, 1963 which outlines policies and procedures for the coordination of federal meteorological services. (3) Comptroller General Report to the Congress of the United States dated October 16, 1979, states, "The Federal Weather Program must have stronger central direction."
Implementation	Meteorological program standards and guidelines are developed within the federal interdepartmental committee structure for meteorological services and supporting research. The guidelines, standards and plans are approved by the Interdepartmental Committee for Meteorological Services and Supporting Research (ICMSSR) for implementation by agencies.
Application	The plans, standards, and guidelines are implemented through procurement specifications, approved inter-agency plans and procedures, and through cooperative adoption.

Adoption of Nongovernment Standards	Extensive use is made of general standards and guidelines provided by NIST (Federal Information Processing Standards), DoD, ANSI, ISO, World Meteorological Organization (WMO). They are refined to meet the special needs for meteorological operations, services, and supporting research.
Committee Activity	The ICMSSR and its subsidiary interagency committees and groups are the developers and approvers of meteorological program plans, standards and guidelines. Members of these groups and of the Office of the Federal Coordinator for Meteorology maintain liaison directly and indirectly with other federal and non-federal standards bodies, including international organizations, such as WMO.
Availability	Office of the Federal Coordinator for Meteorology.
Keywords	weather; meteorology; instrumentation; satellites; aviation; space environment; communications; weather reconnaissance; weather radar; solar-terrestrial; data processing;

DEPARTMENT OF COMMERCE

INTERNATIONAL TRADE ADMINISTRATION

Office of Multilateral Affairs/GATT Affairs Division
14th Street and Constitution Avenue, NW, Room 2062
Washington, DC 20230
(202) 377-1810 FAX: (202) 377-5939

Authority	Title IV of the Trade Agreements Acts of 1979 (P.L. 96-39), the U.S. legislation which implements the GATT Agreement on Technical Barriers to Trade (Standards Code) for the United States and establishes rules for federal agencies engaged in standards-related activities.
Implementation	The Standards Code is implemented in the United States by the Interagency Trade Policy Staff Committee, Subcommittee on Standards. Within the Department of Commerce (DOC), International Trade Administration (ITA) shares responsibility with the National Institute of Standards and Technology (NIST) for Standards Code implementation. ITA is primarily responsible for standards trade policy matters while NIST has the lead in Code-related technical and informational activities.
Application	Commerce application of Title IV has centered on three areas: 1) publicity of the Code's rights and benefits to U.S. exporters, particularly of the Code's technical

information network and notification/comment provisions; 2) raising standards-related trading problems of U.S. business in bilateral negotiations with key trading partners under Code auspices; and 3) representing U.S. industry's interests in GATT Standards Code Committee deliberations.

**Committee
Activity**

Represents the Commerce Department in the following committees: Committee on Technical Barriers to Trade of the General Agreement on Tariffs and Trade (GATT); the U.S. Trade Policy Staff Committee, Subcommittee on Standards; and the U.S. Industry Functional Advisory Committee (IFAC) on Standards Trade Policy Matters.

Availability

Information to assist U.S. companies in taking advantage of the benefits of the GATT Standards Code is available from the GATT Affairs Division.

Keywords

GATT; Standards Code; technical barriers to trade; non-tariff barriers; trade; business; general;

DEPARTMENT OF COMMERCE

NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY

National Computer Systems Laboratory (NCSL)
Program Coordination and Support, Bldg. 225, B151
Gaithersburg, Maryland 20899
(301) 975-2833 FAX: (202) 975-2128

Authority

Federal Property and Administrative Services Act of 1949, as amended by the Computer Security Act of 1987, Public Law 100.235.

Implementation

The National Computer Systems Laboratory (NCSL) of the National Institute of Standards and Technology performs computer and related telecommunications research, develops standards and guidelines for computer systems, and provides technical assistance and advisory services to federal government agencies.

Application

NCSL's research and standards activities advance the efficient use of computer technology and support the development of off-the-shelf, commercial products for computer system users. The Computer Security Act specifies NCSL's role in protecting sensitive information that is processed in federal computer systems, and designates NCSL as the lead agency for standards, guidelines, and technology for the security of unclassified, sensitive information throughout the federal government.

**Committee
Activity**

NCSL supports national and international voluntary standards-developing organizations, and broad-based industry and user consortia that complement the voluntary standards process. NCSL staff members participate in technical committees of organizations accredited by the American National Standards Institute, and other groups to foster the development of standards that will meet federal government requirements for applications portability, for the interoperability of hardware, software and communications systems, for the exchange of information between systems, and for the protection of information from threats of all kinds.

**Standardization
Activities**

Standards and guidelines that are developed through government/industry cooperative efforts are issued as Federal Information Processing Standards Publications (FIPS PUBS) to help federal agencies buy off-the-shelf commercial equipment and systems, and to follow accepted good practices in managing information resources.

Major areas of focus include: Open systems interconnection (OSI); user interfaces to operating systems, graphics systems, and database management systems; information security; information exchange formats; computer storage media; programming languages; document and image exchange.

FIPS PUBS include standards, guidelines, and program information documents for hardware, software, data, and computer systems operations. FIPS PUBS are listed in NIST Publications List 58 which is available from NCSL, National Computer Systems Laboratory, Rm. B64, Gaithersburg, Maryland 20899, telephone: (301) 975-3587.

Availability

FIPS are available from the National Technical Information Service, (NTIS) 5285 Port Royal Road, Springfield, Virginia 22161, telephone: (703) 487-4650

Keywords

Federal Information Processing Standards; computer systems; computer security; information processing; information technology;

DEPARTMENT OF COMMERCE

NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY

National Engineering Laboratory
Law Enforcement Standards Laboratory, Bldg. 224, B116
Gaithersburg, Maryland 20899
(301) 975-2757 FAX: (301) 948-7434

Authority

- (1) Title 1, Section 402(b) of the Omnibus Crime Control and Safe Streets Act of 1968, P.L. 90-351
- (2) 42 U.S.C. 3701, Justice System Improvement Act of 1979, P.L. 96-157

Implementation

The Law Enforcement Standards Laboratory (LESL) develops standards for the U.S. Department of Justice, National Institute of Justice (NIJ), and the National Highway Traffic Safety Administration (NHTSA).

The standards developed by LESL are performance oriented insofar as possible. They are not consensus standards but are subjected to extensive technical and editorial review within NIST, as well as other government agencies, manufacturers, users, and independent experts. The standards are given a final review by the sponsor (NIJ or NHTSA) and promulgated by them.

The NIJ has elected to publish all LESL-developed standards as voluntary national standards. Law enforcement agencies are encouraged to use the NIJ standards to achieve cost-effective procurement of equipment through competitive bid. In recent years, under a separate NIJ grant, Aspen Systems Corporation has operated a limited equipment testing program through the Technology Assessment Program Information Center (TAPIC). The TAPIC contracts with two independent testing laboratories to conduct tests of equipment in accordance with NIJ standards. Complete test results are then published by TAPIC in a consumer information report series to assist state and local law enforcement agencies in selecting equipment that is suitable for their needs. Test reports published to date include police body armor, hand-held personal-/portable transceivers, handcuffs, riot and crash helmets, narcotic test kits, batteries for hand-held transceivers, 12-Gauge shotguns, 9 mm and 45 caliber revolvers, vehicle tracking devices, body-worn transmitters, and an annual report of police vehicle test results. Subsequent to publication of the initial test report, manufacturers may have their equipment tested to the NIJ standard by either of the two independent testing laboratories, and TAPIC will issue supplemental data sheets for the new products and retest.

In addition to the TAPIC testing program, certain manufacturers choose to use the NIJ standards as the benchmark for product design and certify compliance to the NIJ standards in their equipment specifications.

Prior to 1983, the NHTSA mandated the use of LESL-developed standards for state and local government procurement of evidential breath testers. Commercial products were tested by the U.S. Department of Transportation Systems Center in accordance with LESL-developed standards, and those devices which passed were placed on the NHTSA qualified products list. In 1983, the LESL-developed standard for speed measuring radar devices was issued by NHTSA as a voluntary model equipment specification. In 1983, the International Association of Chiefs of Police undertook testing of speed measuring radar devices in the same manner as the NIJ equipment testing program and issued a consumer report on the results of those tests. It is anticipated that all future LESL-developed standards for breath alcohol instruments will be promulgated by NHTSA as voluntary model equipment specifications for use by state and local governments, and not mandated as in the past.

The standards that are developed by LESL are scheduled consistent with the priorities of the other-agency sponsors and available funds from those agencies. To ensure that the LESL program is relevant to the needs of the law enforcement community, the NIJ has established, through TAPIC, an advisory council that reviews LESL program plans and recommends research and equipment testing priorities, including the mission of NHTSA.

Application

The standards that are developed by LESL are based upon laboratory evaluation of commercially-available products to devise precise test methods that can be universally applied by any qualified testing laboratories, and to establish minimum performance requirements for each attribute of an item of equipment that is essential to the manner in which it functions. The LESL-developed standards can serve as design criteria for the manufacturers or as the basis for equipment evaluation. The application of the standards, which are highly technical in nature, is augmented through the publication of technical reports and user guides. Individual jurisdictions may use the standards in their own laboratories to test equipment, have equipment tested on their behalf using the standards, or cite the standards in procurement specifications.

Adoption of Nongovernment Standards

To the extent possible, LESL utilizes pre-existing industrial and trade association standards during the development of standards for NIJ and NHTSA, which may be directly cited or adapted to specialized testing methods in the final standard. Nongovernment standards utilized in the LESL program include those of the American Society for Testing and Materials, the

American National Standards Institute, the Institute of Electrical and Electronics Engineers, Electronic Industries Association, and the Society of Automotive Engineers, among others as appropriate.

**Qualification,
Certification,
or Calibration**

In those instances when NIJ and NHTSA sponsor the testing of specific items of equipment, LESL assists in the preparation of the request for proposal from testing laboratories and the evaluation of the resulting bids to tentatively select two independent testing laboratories for each item of equipment. Following the award of the two contracts, LESL, TAPIC/IACP, and members of the National Institute of Standards and Technology (NIST) National Voluntary Laboratory Accreditation Program visit the laboratories for an on-site facility investigation and witness the complete testing of one item of equipment.

When the inspection team is satisfied that the laboratory personnel are proficient in testing to the LESL-developed standards, that all test equipment is properly calibrated, maintained and operated, and that appropriate test records are maintained, the TAPIC/IACP classifies the laboratory as a TAPIC/IACP-certified laboratory for that item of equipment. The laboratory is then allowed to proceed with the main-quantity testing. In the event that a laboratory does not demonstrate appropriate testing proficiency or lacks essential facilities during the on-site inspection, the contract is terminated and another laboratory is selected for the testing program. In those instances when the private sector, state and local government agencies wish to apply the LESL-developed standards in their own laboratories, LESL remains available for consultation on the application of the standards. However, certification or accreditation is not provided.

**Committee
Activity**

The LESL participates in pertinent committees of the American National Standards Institute, the American Society for Testing and Materials, Electronic Industries Association, and the Institute of Electrical and Electronics Engineers.

**Standardization
Activities**

The LESL program includes research in the broad range of equipment that is used by the entire law enforcement community. The NHTSA-sponsored activities are limited to speed measuring devices (radar and vascar).

The NIJ-sponsored activities are part of an overall Technology Assessment Program that includes both the development of standards and other documents and the actual testing of equipment and publication of the test results. The Communication Systems Program has

resulted in the development of standards for nearly all items of such systems -- transceivers, base stations, control heads, digital transmission systems, and tracking devices, to mention a few. The Security Systems Program has developed standards for all components of intrusion alarm systems, and standards for the physical security of door and window assemblies. The Weapons and Protective Equipment Program has developed standards for revolvers and automatic pistols, body armor, protective helmets, and tear gas devices. The Investigative Aids Program has developed standards for weapons and explosives detectors, arson accelerant detectors, and narcotic test kits. Other studies have centered on emergency vehicle warning systems and police clothing.

In addition, LESL has developed reference collections for use by forensic laboratories of automobile paints and synthetic fibers, and standard reference materials (refractive index glass and refractive index silicone liquids).

The LESL provides a complete publication list of documents available from the program upon request. This list is updated periodically as new documents are published. For the past several years, new documents have become available at an average of 10 documents per year, which is expected to continue for the next several years.

Availability

National Technical Information Service; U.S. Government Printing Office; National Criminal Justice Reference Service; Technology Assessment Program Information Center and Law Enforcement Standards Laboratory.

Keywords

alcohol countermeasures; alarm systems; communications; investigative aids; law enforcement standards; police equipment; protective equipment; reference collections; weapons; public safety; transportation;

DEPARTMENT OF COMMERCE

NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY

Technology Services
Gaithersburg, Maryland 20899
(301) 975-4500 FAX: (202) 975-2183

Authority

31 Stat. 1449 as amended, 64 Stat. 371, 15 U.S.C 271-278, P.L. 89-306, P.L. 89-755, and P.L. 94-168.

Implementation

Voluntary Product Standards are developed under Department of Commerce (DOC) procedures (15 CFR, Part 10) for softwood lumber (PS 20-70), construction and industrial plywood (PS 1-83), and carbonated soft drink bottles (PS 73-89).

Application

Voluntary Product Standards are voluntarily used by manufacturers, distributors, purchasers, specifiers, and others in producing, marketing, and specifying products. Voluntary Product Standards are very often adopted as American National Standards (ANS) after being processed under the procedures of the American National Standards Institute (ANSI). Some Voluntary Product Standards are referenced in local and state building codes and are used in product certification programs.

Qualification, Certification, or Calibration

The National Voluntary Laboratory Accreditation Program (NVLAP), associated with the office, provides a voluntary mechanism for evaluating and recognizing the technical expertise and ability of private testing laboratories to perform specific nationally recognized tests for selected product areas or testing. Laboratories must meet minimum requirements for equipment, personnel, and quality control to be accredited under this program.

Committee Activity

Technology Services coordinates and monitors the National Institute of Standards and Technology (NIST) activities in standards committees. NIST staff members hold more than 1,250 memberships on 844 standards committees of some 81 organizations (national as well as international) involved in standards activities. During 1988, 521 trips were taken to domestic standards committee meetings and 124 foreign trips were made. The Institute's staff participate in many standards programs as part of its responsibilities for maintaining and advancing national standards of measurement.

Standardization Activities

Technology Services monitors the Institute's total involvement in private sector standards activities. The Office is the focal point for coordinating standards activities throughout the Department of Commerce, and assists other agencies in implementing federal standards policy as enunciated in OMB Circular A-119. It operates the Interagency Committee on Standards Policy and uses that committee to implement the provisions of Circular A-119 in a uniform and effective manner throughout all federal executive branch agencies.

Technology Services also serves as the principal point of contact between the federal government and the

voluntary standards community. Institute staff persons serve on the boards and councils of many voluntary standards organizations, including ANSI, ASTM, ASHRAE, CBEMA, IEEE, NFPA, and UL, and thereby have the opportunity to influence national standards policy.

There are four major standards-related programs at NIST:

- The National Voluntary Laboratory Accreditation Program provides a mechanism for nationally recognizing the competency of U.S. testing laboratories in evaluating selected products for conformance with specific standards. This program also represents U.S. interests in the International Laboratory Accreditation Conference (ILAC) and provides the basis for bilateral agreements with other countries for acceptance of test data produced in U.S. laboratories.
- The Office of Weights and Measures develops recommendations for performance and test requirements for weighing and measuring devices used commercially and develops test methods to be used in evaluating these devices. This office sponsors the National Conference on Weights and Measures (a national organization made up of federal, state, and local weights and measures officials and appropriate industry representatives), which promotes uniformity in weights and measures programs through the adoption of model laws, regulations, specifications, and tolerances for weights and measures.
- The Standards Management Program manages the U.S. participation in the International Organization for Legal Metrology (OIML), an intergovernmental body concerned with the harmonization of national legal requirements pertaining to measurements in commerce, industry, and public health. This program is responsible for administering the Department of Commerce Voluntary Product Standards Procedures (15 CFR Part 10). Three standards are maintained under these procedures: PS 1-83, Construction and Industrial Plywood; PS 20-70, American Softwood Lumber Standard; and PS 73-89, Glass Bottles for Carbonated Soft Drinks.
- The Standards Code and Information Program is responsible for providing information on 1) U.S. voluntary standards, 2) government regulations and specifications, 3) U.S. certification programs, 4) foreign and international standards, and 5) proposed foreign regulations relating to standards and certification programs. The program operates the

National Center for Standards and Certification Information (NCSCI) (See Sources of Standards and Information); serves as the U.S. "inquiry point" for information on proposed regulations which might significantly affect trade, as sent to and received from the Secretariat of the General Agreement on Tariffs and Trade (GATT), thus complying with the GATT Agreement on Technical Barriers to Trade, the "Standards Code;" and conducts technical office activities for non-agricultural products as required by the U.S. Trade Agreements Act of 1979. Under this program, NIST provides technical standards-related support for the International Trade Administration (Department of Commerce) and other federal agencies engaged in policy-making and negotiations with other governments.

The standardization activities of all NIST units are summarized in a NIST report, issued annually. This publication provides statistical as well as narrative information about the participation of NIST staff in standardization activities.

Availability

Voluntary Product Standards are available from the National Technical Information Service and/or the Government Printing Office.

Formerly

The National Bureau of Standards, Office of Product Standards and Office of the Associate Director for Industry & Standards.

Keywords

voluntary standards; Voluntary Product Standards; ILAC; laboratory accreditation; standards activities; weights and measures; GATT; Standards Code; standards information; inquiry point; business; instruments; testing; general;

DEPARTMENT OF COMMERCE

NATIONAL MARINE FISHERIES SERVICE

Office of Trade and Industry Services
1335 East-West Highway, Room 6490 MOB
Silver Spring, Maryland 20910
(301) 427-2351

Authority

- (1) 7 U.S.C. 1621-1627, Agricultural Marketing Act of 1946, to encourage uniformity and consistency in commercial practices.
- (2) 16 U.S.C. 742e, Fish and Wildlife Act of 1956, to promote fair trade standards.

- (3) 84 Stat. 2090, Reorganization Plan No. 4, which transferred the National Seafood Inspection Program from the Department of the Interior to the Department of Commerce.

Implementation

23 voluntary standards are codified as regulations in 50 CFR, Parts 261-266. They establish U.S. Standards for Grades for fish and fishery products.

Application

Inspectors certify, at the request of the seafood processor, that the product meets the criteria established in these standards. The inspection is conducted at the processing facility.

**Adoption of
Nongovernment
Standards**

No nongovernment standards have been adopted.

**Qualification,
Certification,
or Calibration**

To be eligible to use the official Department of Commerce (DOC) grade or identification marks as specified in 50 CFR Part 260.86, the processor must participate in the voluntary National Seafood Inspection Program. The marks may appear on the product label and/or the certificate. The processor pays for participation in the Program. Seafood processors that do not participate in the Program may use the U.S. Standards for Grades as guidelines but must not display the official marks.

**Committee
Activity**

The following committees of the Codex Alimentarius Commission:

- Committee on Fish and Fishery Products
- Committee on Food Hygiene
- Committee on Food Labeling
- Committee on Pesticide Residues
- Committee on Methods of Analysis and Sampling
- Committee on Residues of Veterinary Drugs in foods

**Standardization
Activities**

The National Marine Fisheries Service (NMFS) is actively involved in the preparation of U.S. Standards for Grades for seafood products which establish the criteria for the measure of quality of those seafood products (U.S. Grade A, B, and C). The standards currently pertain to various fresh and frozen seafood products. These standards, the use of which is voluntary, are prepared at the request of the seafood processing industry and are available to all interested parties in this country and abroad.

This agency's participation on the various committees of the Codex Alimentarius Commission, specifically the Committee on Fish and Fishery Products, is critical to ensure that the recommended international standards which establish a minimum standard of quality are

reflective of this country's commercial practices.

This agency also is responsible for preparing specifications for seafood purchased for USDA's various feeding programs (school children, elderly, needy, American Indians).

Availability National Seafood Inspection Laboratory, National Marine Fisheries Service, P.O. Drawer 1207, Pascagoula, Mississippi 39567-0112.

Keywords fish; fishery products; seafood; quality standards; fish quality; seafood specifications; food safety;

DEPARTMENT OF COMMERCE

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

National Environmental Satellite, Data, and Information Service (NESDIS)
Data Collection and Direct Broadcast Branch
E/SP21, Room 806 World Weather Building
Washington, DC 20233

(301) 763-8325

Authority 15 U.S.C. 3.3, 49 U.S.C. 1483 provides the Secretary of Commerce with the authority to develop an international basic meteorological network.

Implementation Regulations on the administration and operation of a Geostationary Orbiting Environmental Satellite Data Collection System (GOES-DCS) is codified at 15 CFR, Part 911.

Application The National Oceanic and Atmospheric Administration (NOAA) GOES Data Collection System utilizes geostationary satellites to collect environmental data from remote locations. Standards on UHF transmitters and related equipment are established to ensure system integrity.

Qualification, Certification, or Calibration Manufacturers submit plans for in-plant testing of Data Collection Platform Radio Sets. If the plans are approved, a NOAA representative visits the manufacturer's testing facility and witnesses the tests. If a representative unit meets all of the established standards a type certificate is issued to the manufacturer.

Committee Activity National Environmental Satellite, Data, and Information Service (NESDIS) participates in the Coordinating Group for Geostationary Meteorological Satellites (CGMS) to

establish compatible standards for international use. CGMS is sponsored by the World Meteorological Organization (WMO).

**Standardization
Activities**

Periodic meetings with industry are conducted to review the adequacy and applicability of the standards. Revisions to the existing standards are proposed in response to: technological developments; cost effectiveness considerations; operational difficulties observed within the GOES-DCS; and the need to clarify and improve measurement techniques.

Availability

Four standards for self-timed, random reporting, international and interrogated Data Collection Platform Radio Sets are available from: Chief, Data Collection and Direct Broadcast Branch (E/SP21), NOAA/NESDIS, Washington, DC 20233

Keywords

satellites; environment; electronic equipment; data processing; aerospace;

DEPARTMENT OF COMMERCE

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

National Weather Service
Test and Evaluation Division
Route 1, Box 105
8060 13th Street
Sterling, Virginia 22170
(703) 471-5302

Authority

(1) 15 U.S.C. 311 and 313, the original acts establishing the United States Weather Bureau. (2) 49 U.S.C. 1463 and Title 8, Section 803, of the Federal Aviation Act of 1958.

Implementation

Standards for producing weather information are included in the series of federal meteorological handbooks, federal specifications for meteorological equipment, and operational directives from the National Weather Service.

Application

Observers are certified by examination and experience and observatories are certified by periodic on-site inspection. Standards for federal specifications are applied by the purchase orders for the equipment, and Operational Directives are applied by on-site inspection of the affected installation.

**Adoption of
Nongovernment
Standards**

Excluding those that are produced by intergovernmental agreement within the United Nations, nongovernment generated standards are relatively rare within the

field of meteorology. A few such standards produced by organizations such as the American Society for Testing and Materials have been adopted. An effort is now underway to encourage voluntary standards organizations to produce standards for meteorology.

**Qualification,
Certification,
or Calibration**

Meteorological observatories are certified if they conform to the performance standards detailed in federal meteorological handbooks, and National Weather Service operational directives.

**Committee
Activity**

The National Weather Service actively participates in the standardization activities of the World Meteorological Organization, the Office of the Federal Coordinator for Meteorological Services and Supporting Research, and the American Society for Testing and Materials.

**Standardization
Activities**

The development of standard methods for producing meteorological observations and measurements and the development and use of standard test methods for meteorological equipment is being actively pursued by the National Weather Service. Most standards are those produced within the government and contained within the federal meteorological handbooks and by cooperation with other governments as published by the World Meteorological Organization in its guide to good practice. Nongovernment voluntary standards development organizations such as the American Society for Testing and Materials have been encouraged to develop standards for use in the field of meteorology but to date very few such standards exist.

Availability

The federal meteorological handbooks are sold by the Government Printing Office. Federal specifications for equipment and testing are available through the GSA Specification Unit.

Keywords

meteorology; weather; atmosphere; aviation; climatology; test; environment; instruments;

DEPARTMENT OF COMMERCE

**NATIONAL TELECOMMUNICATIONS AND INFORMATION
ADMINISTRATION**

Institute for Telecommunications Sciences
325 Broadway
Room 3020 Radio Building
Boulder, Colorado 80303-3328
(303) 497-3500

Authority

Executive Order 12046, which established NTIA in 1977

Application	The Institute for Telecommunications Sciences (ITS), the research and engineering arm of the National Telecommunications and Information Administration (NTIA), participates and contributes to both national and international standards activities in radio, telecommunications, data transmission, and processing technologies. ITS staff are particularly involved in developing American National Standards and Federal Telecommunication Standards and providing leadership and participating in the development and promulgation of international telecommunication standards.
Committee Activity	ITS participates in the development of voluntary national consensus standards with emphasis on data, voice, and video performance standards, and integrated services digital network (ISDN) standards through the American National Standards Institute (ANSI) committees: Performance Technical Subcommittee; Performance Technical Subcommittee; Services, Architecture, and Signalling Technical Subcommittee; Specialized Subjects Technical Subcommittee; and Information Processing Systems. Internationally, ITS members work to develop Recommendations of the International Telegraph and Telephone Consultative Committee (CCITT) and the International Radio Consultative Committee (CCIR). ITS chairs a U.S. CCIR Study Group: Spectrum Utilization and Monitoring. The Institute also chairs a U.S. CCITT preparatory group: U.S. Study Group B (Switching, Signaling, and ISDN).
Keywords	radio; telecommunications; data processing;

DEPARTMENT OF COMMERCE

U.S. PATENT AND TRADEMARK OFFICE

Assistant Commissioner for Information Systems
 Crystal Park Building 2
 2121 Crystal Drive, Arlington, Virginia 22202
 Mailing Address: Washington, DC 20231
 (703) 557-2982 FAX: (703) 557-6369

Implementation	Federal Register
Application	Voluntary adoption
Committee Activity	ANSI Z39
Standardization Activities	Two projects are underway: 1. A study to develop standards for the form and format

of patent applications to facilitate data conversion to machine-readable form. The proposed standards will cover all elements of an application from bibliographic data and text to the specification for drawings and tabular information, and will specify form and formats conducive to optical character recognition processing of the application.

The standards will permit easy data reduction of thousands of patent applications for automated processing in the Patent and Trademark Office.

2. Development of a proposal for data base and data access standards for chemical structures and related expressions. Standards will cover data base content as well as procedures for expressing chemical compound structures, classifications, indexing, and other search and retrieval standards necessary.

These standards will increase data base scope and facilitate database exchange. They will also make possible joint system and database development with public and private developers of technological databases.

Keywords

patents; optical character recognition; database; information processing;

DEPARTMENT OF COMMERCE

U.S. PATENT AND TRADEMARK OFFICE

Office of the Assistant Commissioner for Patents
Editor, Manual of Patent Examining Procedure
Room 919, Crystal Park Building 2
2121 Crystal Drive, Arlington, Virginia 22202
Mailing Address: Washington, DC 20231
(703) 557-3070 FAX: (703) 557-6369

Authority

- (1) 35 U.S.C. 6 authorizes the Commissioner of Patents and Trademarks to "establish regulations, not inconsistent with law."
- (2) 35 U.S.C. Section 9
- (3) 37 CFR 1.52(b)
- (4) 37 CFR 1.84(b)

Implementation

Manual of Classification, U.S. Patent and Trademark Office (USPTO), a loose leaf book containing a list of all the classes and subclasses of inventions in the USPTO classification system.

Application

This classification is used by the USPTO, and any other user of patent information, to classify and retrieve a

patent or patent related document in the U.S. Classification system.

Committee Activity	The Patent and Trademark Office participates in pertinent committees of the World Intellectual Property Organization, Geneva, Switzerland.
Standardization Activities	Member of Assembly of the Patent Cooperation Treaty in order to provide patent application format and units of weights and measures acceptable in all member countries.
Availability	Published in "Title 37, Code of Federal Regulations" and "Manual of Patent Examining Procedure," both available from U.S. Government Printing Office.
Keywords	patent applications; paper size; metric system; business; general;

DEPARTMENT OF COMMERCE

U.S. PATENT AND TRADEMARK OFFICE

Office of International Patent Documentation
Room 300, Crystal Mall Building 2
1921 Jefferson Davis Highway, Arlington, VA 22202
Mailing Address: Washington, DC 20231
(703) 557-0667

Implementation	Subcommittee H of American National Standards Committee Z39 specializes in patent matters and sets guidance standards therefore.
Application	Voluntary adoption
Adoption of Nongovernment Standards	Z39 meets with representatives of the U.S. Patent and Trademark Office (USPTO) and other related organizations to discuss and set standards to be used by the USPTO on a voluntary basis.
Committee Activity	The USPTO actively participates in Subcommittee H of Z39.
Standardization Activities	Z39 Subcommittee H (Patent Standards) gives special consideration to the publishing policies and practices of the USPTO in the development of U.S. standards as a result of the position of the USPTO as the primary publisher of U.S. patent literature. Z39 Subcommittee H addresses the practices of foreign publishers of patent data and those organizations in the United States who repackage and republish foreign patent data.

Availability American National Standards Institute

Keywords patents; patent standards; business;

DEPARTMENT OF COMMERCE

U.S. PATENT AND TRADEMARK OFFICE

Trademark Examining Operation
Office of the Director
2011 Jefferson Davis Highway, Arlington, Virginia 22202
Mailing Address: Washington, DC 20231
(703) 557-3268

Authority 15 U.S.C. 1112, July 15, 1946, Lanham Act Section 30, gives the Commissioner the authority to establish a system of classification of goods and services.

Implementation 37 CFR 2.85 and Part 6, implement the adoption of the International Schedule of classes for goods and services. Classification is the basis for determining the fee which must be paid per application.

Committee Activity U.S. Patent and Trademark Office (USPTO) is a member of the Committee of Experts which is the acting body established by the Nice Agreement. The Committee of Experts meets periodically to revise the International Classification.

Standardization Activities The classification of specific goods and services is set forth in the Alphabetical List entitled "International Classification of Goods and Services for Purposes of the Registration of Marks Under the Nice Agreement", published by the World Intellectual Property Organization (WIPO). This classification list contains the name of each class and the basic contents of the class. The Alphabetical List also comprises explanatory notes which serve as guidelines for determining the appropriate International Class for a specific product or service.

The primary purpose of the International Alphabetical List is to provide a written source for determining proper identifications and classifications of goods and services. The classification lists consist of:

- (1) a list of classes, together with explanatory notes; and
- (2) an alphabetical list of goods and services with an indication of the class into which each of the goods or services falls.

Availability World Intellectual Property Organization, 34 Chemin des Colombettes, 1211 Geneva 20, Switzerland,

UNIPUB, P.O. Box 433, Murray Hill Station, New York, New York 10016.

Keywords international classification; Nice Agreement; classification list; trademark classification; business; general;

CONGRESS OF THE UNITED STATES

JOINT COMMITTEE ON PRINTING

SH-818 Hart Senate Office Building
Washington, DC 20510
(202) 224-5241 FAX: (202) 224-1176

Authority The Joint Committee on Printing (JCP), created by act of August 3, 1846 (9 Stat. 114), is responsible for establishing specification standards for papers used in public printing and binding (44 U.S.C. 509), including federal government printing procured from the private sector.

Implementation The Government Paper Specification Standards include approximately 85 individual specifications for writing and printing papers, together with testing information, color standards, and acceptance criteria.

Application All the Government Paper Specification Standards must be used by all departments of the federal government and their field activities in the preparation of procurement documents for paper stocks and in specifying paper stocks to be used in printing, binding, copying, and duplicating, unless otherwise authorized by the Joint Committee on Printing.

Standardization Activities Administered by a Committee on Paper Specifications and its Technical Subcommittee, under the chairmanship of a Joint Committee staff member. Participating agencies include U.S. Government Printing Office, General Services Administration, National Institute of Standards and Technology and the Department of Defense.

Availability U.S. Government Printing Office

Keywords paper; colors; office products; printing;

CONSUMER PRODUCT SAFETY COMMISSION

For Information on Mechanical, Electrical, and Thermal Hazard-Related Standards for Consumer Products:

DIRECTORATE FOR ENGINEERING SCIENCES

5401 Westbard Avenue, Room 738
Bethesda, Maryland 20207
(301) 492-6504

For Information on Chemical Hazard-Related Standards for Consumer Products:

DIRECTORATE FOR HEALTH SCIENCES

5401 Westbard Avenue, Room 712
Bethesda, Maryland 20207
(301) 492-6957

Authority

Consumer Product Safety Act (15 U.S.C. 2051 et seq.); Federal Hazardous Substances Act (15 U.S.C. 1261 et seq.); Poison Prevention Packaging Act (15 U.S.C. 1471 et seq.); Flammable Fabrics Act (15 U.S.C. 1191 et seq.); and Refrigerator Safety Act (15 U.S.C. 1211 et seq.).

Implementation

All standards, regulations and policy issuances are to be found within Title 16, Code of Federal Regulations Chapter II, Commercial Practices, Parts 1000 to end. Information on all Consumer Product Safety Commission (CPSC) mandatory product safety standards is published in the Federal Register in Advance Notices of Proposed Rulemaking, Notices of Proposed Rulemaking, and Final Rules.

Application

The Commission enforces all regulations and standards published in 16 CFR Chapter II, Parts 1000 to end. The Directorate for Compliance and Administrative Litigation is the Commission organization responsible for this activity. This Directorate is located at 5401 Westbard Avenue, Bethesda, Maryland. Telephone requests for information on regulatory standards enforcement may be obtained by calling (301) 492-6400. This Directorate is also responsible for enforcement activities under Section 15 of the Consumer Product Safety Act. Reports of information which reasonably supports the conclusion that a product contains a defect which could create a substantial product hazard, as required under Section 15 of the Consumer Product Safety Act, should be made by calling (301) 492-6608 with concurrent notification, in writing, to: Division of Corrective Actions, U.S. Consumer Product Safety Commission, Washington, DC 20207.

**Adoption of
Nongovernment
Standards**

Amendments to the Consumer Product Safety Act, the Federal Hazardous Substances Act, and the Flammable Fabrics Act enacted by Congress in 1981 encourage reliance on voluntary standards developed by industry or other nongovernmental organizations to reduce risks of injury whenever possible, Sec. 15 U.S.C. 2058, 15 U.S.C. 1262(f), and 15 U.S.C. 1193(g).

**Qualification,
Certification,
or Calibration**

Product certification is specifically required by Section 14 of the Consumer Product Safety Act (CPSA) (15 U.S.C. 2063). Manufacturers or private labelers must issue certificates stating that their product meets any applicable consumer product safety standard issued under the CPSA. The Commission may also prescribe testing and labeling requirements by regulation under the authority of Section 14 of the CPSA.

**Committee
Activity**

CPSC participates in a variety of nongovernment and government standardization committees. For specific information on committees with which the Commission is working contact either the Directorate of Engineering Sciences or the Directorate for Health Sciences.

**Standardization
Activities**

The U.S. Consumer Product Safety Commission, an independent federal regulatory agency, was officially activated on May 14, 1973, to implement the Consumer Product Safety Act, P.L. 92-573. The Commission's primary goal is to substantially reduce injuries associated with consumer products. The Act granted broad authority to issue and enforce safety standards for more than 10,000 consumer products.

The Act specifically excludes certain products from the Commission's jurisdiction. Among the excluded products are foods, drugs, cosmetics, boats, aircraft, motor vehicles, and pesticides, most of which are regulated by other federal agencies.

Amendments to the Consumer Product Safety Act enacted in 1981 encourage the development of voluntary consumer product safety standards by industry. The Commission may adopt voluntary standards issued by nongovernmental organizations as mandatory standards or issue mandatory requirements independently. The Commission may ban products which present an unreasonable risk of injury if no safety standard is feasible. The Directorate for Engineering Sciences and the Directorate for Health Sciences serve as the focal points for standards development within CPSC.

Availability

U.S. Government Printing Office

Keywords

consumer products; safety; textiles; general;

DEPARTMENT OF DEFENSE

OFFICE OF THE ASSISTANT SECRETARY OF DEFENSE
(PRODUCTION AND LOGISTICS) (OASD(P&L))

Defense Quality and Standardization Office (DQSO)
Suite 1403
5203 Leesburg Pike
Falls Church, Virginia 22041-3466
(703) 756-2340

Authority	Title 10, U.S. Code, Chapter 145, Cataloging and Standardization and implemented by DoD Directive 4120.3
Implementation	Military and federal specifications, standards handbooks, and engineering practices -- over 37,000. Commercial Item Descriptions (CIDs) -- over 3,900. Adoption of nongovernment standards -- over 4,900.
Application	Department of Defense (DoD) standardization documents are used as procurement documents for all types of equipment and commodities, as well as documents that provide selection criteria for items, equipment, engineering practices, etc., used in new design.
Adoption of Nongovernment Standards	By mid 1990, DoD had adopted over 4,900 nongovernmental standards to be used instead of military documents. These private sector documents were developed by a number of nongovernment standards organization including ASTM, SAE, AIA, UL, and others.
Qualification, Certification, or Calibration	DoD has developed over 1,100 Qualified Products Lists which describe products that have been examined, tested, and approved as meeting the requirements of applicable specifications.
Committee Activity	The Department of Defense participates in numerous intergovernmental and nongovernmental committees to share in the development of both policy and acquisition standardization documents.
Standardization Activities	The Defense Standardization Program (DSP) is a single, integrated defense-wide program to achieve optimum uniformity among the variety of systems, equipment, materials, engineering practices, operations, and manufacturing processes developed for or used by the DoD. Standards and specifications developed by (or in concert with) nongovernment standards groups are utilized to the maximum extent possible. The adoption of nongovernment standards avoids the preparation of duplicative or overlapping military documents. It is DoD policy to cooperate with the standards organizations operating in other government agencies, as well as, those in the private sector.

Standards and specifications are developed in approximately 120 offices of the DoD whose addresses are listed in the Standardization Directory, SD-1, which is available from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4, Section D, Philadelphia, Pennsylvania 19111-5094.

Also see citation for Interdepartmental Screw Thread Committee.

Availability

Naval Publications and Forms Center, IHS, NSA, Global, and various other private distributors and libraries.

Keywords

military equipment; industrial equipment; consumer products; materials; parts; food; clothing; packaging; construction; building; aerospace; medical devices; communications; general; defense;

DEPARTMENT OF ENERGY

ASSISTANT SECRETARY FOR DEFENSE PROGRAMS

DOE, DP-13.1
Washington, DC 20545
(301) 353-3169

Authority

- (1) The Atomic Energy Act of 1954
- (2) Energy Reorganization Act of 1974
- (3) Department of Energy (DOE) Reorganization Act of 1977

Implementation

The implementation of standards activities for Defense Programs is through the policy statement of the Assistant Secretary for Defense Programs (ASDP) dated May 28, 1982, and the individual implementation plans prepared by the DOE field organizations. Responsible program officials also involve the use of standards noted under qualification, certification, or calibration.

Application

Standards are used to qualify High Efficiency Particulate Air (HEPA) filters prior to use in DOE facilities.

**Standards
Qualification,
Calibration**

The following program known as the HEPA filter program is an example of Defense Program requirements **or** (standards) for the qualification, certification, and calibration of a manufactured product important to Defense Program activities:

Calibration standard: F 3-45, Specification for HEPA filters used by DOE Contractors; Certification standard: F 3-43, Quality Assurance Testing for HEPA

filters and canisters; Monitoring and testing: NF 3-42, Operating policy for DOE Filter Test facilities, and NF 3-44, DOE HEPA Test Facilities Quality Control Plans

Standardization Activities The above referenced standards are developed and maintained internal to the Department.

Availability Referenced standards are internal DOE documents.

Keywords HEPA filters; nuclear energy;

DEPARTMENT OF ENERGY

BUILDING TECHNOLOGIES

Building Systems and Materials Division
Room 5E-098
Washington, DC 20585
(202) 586-9445

Authority 42 U.S.C. 6831 et. seq., The Energy Conservation Standards for New Buildings Act of 1976, as amended, requires the Department of Energy (DOE) to issue voluntary performance standards for the design of new commercial, federal and non-federal buildings. Mandatory compliance with the standards is only required for the design of new federal buildings.

Implementation A draft voluntary guideline for energy conservation in manufactured housing was published by DOE and a Notice of Inquiry (NOI) requesting public review and comment was published in the Federal Register May 9, 1983 (48 FR 20866). On February 22, 1984; a draft guide of Affordable Housing Through Energy Conservation (49 FR 6537) was issued as an NOI in the Federal Register. On October 31, 1985; a Notice of Inquiry and public briefing (50 FR 45469) on Modification to Affordable Housing Through Energy Conservation was published in the Federal Register. On August 20, 1986; a Notice of Proposed Interim Rule and Public Hearings and Finding of No Significant Impact (FONSI) (54 FR 4538 et seq.) on proposed Energy Conservation Standards for New Federal Residential Buildings was published in the Federal Register. On May 6, 1987, a Notice of Proposed Rulemaking (NPR) (52 FR 17051 et seq.) was published in the Federal Register announcing DOE's intention to promulgate interim voluntary standards for new federal commercial and multi-family high rise residential buildings and also requesting public review and comment. On August 25, 1988, the Final Interim Rule and Proposed Modification of Final Interim Rule (53 FR 32536) on Energy Conservation Mandatory Performance Standards for

New Federal Residential Buildings was published in the Federal Register. The proposed modifications came as a result of further research that was performed by DOE in response to public comment on the proposed interim standards. On January 30, 1989; the Interim Rule for Energy Conservation Voluntary Performance Standards for Commercial and Multi-Family High Rise Residential Building (54 FR 4538) was published in the Federal Register. These standards are mandatory for new federal buildings. On November 30 1989; the Preliminary Statement of Reasons for Adoption of Standby Loss Criteria for storage water heaters relative to the commercial standards (54 FR 49724) was published in the Federal Register.

Application

The guidelines for energy conservation in new manufactured housing, new non-federal residential, and new commercial buildings are expected to be implemented as a result of voluntary adoption by manufacturers, builders and state and local governments. The guidelines and standards will be applied to new federal buildings by regulations under the Federal Energy Management Program (10 CFR 436).

**Adoption of
Nongovernment
Standards**

The voluntary residential and federal mandatory commercial guidelines and standards that have been developed reference private standards developed by ANSI, ASTM, ASHRAE, and the Illuminating Engineering Society (IES). The mandatory federal residential guidelines and standards that have been developed do not directly reference private standards developed by ANSI, ASTM, ASHRAE, and the Illuminating Engineering Society (IES). However, these standards did influence the development of the federal standard.

**Committee
Activity**

DOE staff participate in several relevant committees of ASHRAE and the American Institute of Architects.

**Standardization
Activities**

DOE is involved in the preparation and review of the full range of guidelines and standards for energy conservation in new buildings. Relevant guidelines and standards established by nongovernment bodies are used, if appropriate.

Availability

DOE and U.S. Government Printing Office.

Keywords

energy conservation; energy efficiency; buildings; manufactured housing; energy;

DEPARTMENT OF ENERGY

BUILDING TECHNOLOGIES

Building Equipment Division, Room 5H-048
Washington, DC 20585
(202) 586-9123

Authority	42 U.S.C. 6291-6309, the Energy Policy and Conservation Act of 1975 (P.L. 940163), as amended by the National Energy Conservation Policy Act of 1978 (P.L. 95-619), the National Appliance Energy Conservation Act of 1987 (p.L. 100-12) and the National Appliance Energy Conservation Amendments of 1988 (P.L. 100-357), provides for implementation of energy efficiency test procedures and standards for at least 13 categories of major household appliances.
Implementation	Test procedures have been established for 13 categories of appliances in 10 CFR Part 430, Subpart B. The 13 categories of appliances are: refrigerators, refrigerator-freezers, and freezers; furnaces; central air conditioners and central air conditioning heat pumps; room air conditioners; water heaters; dishwashers; clothes washers; clothes dryers; direct heating equipment; pool heaters; kitchen ranges and ovens; television sets; and fluorescent lamp ballasts. Standards have been established, by legislation, for 12 of the 13 categories of appliances in 10 CFR Part 430, Subpart C.
Application	The established test procedures are required, under regulations issued by the Federal Trade Commission (FTC), to be used by manufacturers in the preparation of labels and other representations concerning the energy efficiency of covered products. In addition, the manufacturer's certification of compliance with a standard is to be based on manufacturer testing of covered products in accordance with the applicable test procedure. Selective government tests may be performed for enforcement purposes.
Adoption of Nongovernment Standards	The established test procedures adopt, by reference, some nongovernment test procedures; including, but not limited to, procedures established by ANSI, ASHRAE, ASTM, and the Association of Home Appliance Manufacturers (AHAM).
Qualification, Certification, or Calibration	Consumer product manufacturers are responsible for the application of the established test procedures, although FTC or DOE may perform independent tests to verify manufacturers claims.

Committee Activity	The appropriate staff of DOE and the National Institute of Standards and Technology (NIST) participate in several relevant committees of ASHRAE and the Air-Conditioning and Refrigeration Institute (ARI).
Standardization Activities	DOE, with the support of the NIST, is active in the preparation, review, and updating of energy efficiency test procedures for all 13 covered appliances. In addition, DOE in accordance with the law, reviews the standards on a regular basis to determine if updates are justified. With respect to the test procedures, every effort is made to utilize private consensus standards, if appropriate. Federal energy efficiency standards preempt State-established energy efficiency standards. States may apply to DOE for exemptions from this rule.
Availability	DOE and U.S. Government Printing Office
Keywords	energy conservation; energy efficiency; household appliances; buildings; consumer products; energy;

DEPARTMENT OF ENERGY

ENERGY INFORMATION ADMINISTRATION

Office of Statistical Standards (EI-70)
 1000 Independence Avenue, SW
 Washington, DC 20585
 (202) 586-2222

Authority	Both the Federal Energy Administration Act and the Department of Energy Organization Act, which established the Energy Information Administration (EIA) as an independent statistical agency, require that the information collected by the agency be evaluated and assessed internally and that the collection methods used be audited. (See P.L. 93-275 and 95-91).
Implementation	To evaluate the data and procedures used to collect, process and publish the data, performance standards are needed. A standards program has existed since EIA's inception; however, in 1981 it was reorganized and resulted in the adoption of 19 standards and two orders on model documentation and model archiving.
Application	Standards implementation is monitored by the Office of Statistical Standards (OSS) through the various activities of the office, including the forms clearance process, pre-publication reviews, state-of-the-data reports, quality audits, and documentation reviews of data collection and processing systems. OSS monitors order implementation through reviews of

the documentation and model archival packages prior to release, and quality audits.

**Committee
Activity**

OSS participates in pertinent committees of the Office of Management and Budget (OMB), the American Statistical Association, and other statistical organizations.

**Standardization
Activities**

Twenty-four standards have been developed covering various aspects of data collection, processing and dissemination. They are divided into the following groups: interagency, data systems, data collection, and data presentation. Specific standards cover: the adoption of Federal Information Processing and OMB standards; standardized codes, abbreviations, and acronyms; contract clauses for data collection and processing; data systems development; non-response handling; respondent contact records; batch entry procedures; edit message handling; survey performance statistics; publication of energy statistics, revisions and estimates; data accuracy; graphs; nondisclosure; rounding ;freezing data files; and documentation of public use tapes and diskettes. The orders cover proper documentation of EIA models, procedures for preparing model archival packages, and uniform practices for the use of applications support software.

These mandatory standards and orders are intended to assure the quality and consistency of EIA's data and models, increase the efficiency and responsiveness to EIA's data users, and avoid duplication of effort.

These standards and orders will be modified and new ones developed as conditions warrant. (A new standard on model acceptance is currently being tested.) The primary focus is on ensuring compliance with the existing standards and orders and providing technical assistance to offices requesting it.

Availability

Energy Information Administration, Office of Statistical Standards (address above)

Keywords

statistics; data collection; data processing; data documentation; model documentation; data publication; model forecasting; energy;

DEPARTMENT OF ENERGY

ENVIRONMENT, SAFETY, AND HEALTH

Safety and Quality Assurance, Rm 7A-097
1000 Independence Avenue, SW
Washington, DC 20585
(202) 586-4710

Authority	(1) Atomic Energy Act of 1954, as amended (2) Energy Reorganization Act of 1974 (3) Department of Energy Organization Act of 1977
Implementation	Prescribed and recommended Environment, Safety, and Health (ES&H) standards (approximately 300) are listed in Order DOE 5480.4, Attachments 1,2 and 3.
Application	Department of Energy (DOE) Headquarters ES&H program personnel appraise DOE field operations and contractors to evaluate conformance with the prescribed ES&H standards. DOE field operations personnel also evaluate DOE contractors to ascertain compliance with the standards. As appropriate, recommendations for improved conformance are made and ameliorative actions are implemented.
Adoption of Nongovernment Standards	Approximately 65 nongovernment ES&H standards have been adopted as prescribed standards and approximately 135 nongovernment ES&H standards have been adopted as recommended standards. These are primarily from ANSI, NFPA, IEEE, and ANS.
Committee Activity	American National Standards Institute, American Nuclear Society, and National Fire Protection Association
Standardization Activities	Adoption of appropriate voluntary standards for use in DOE activities.
Availability	U.S. Department of Energy Office of Quality and Safety Programs (EH-32) Room G-140, GTN Building 19901 Germantown Rd. Germantown, MD 20545
Keywords	environment; safety; health; nuclear; occupational; emergency; fire; transportation; reactor; explosives; energy;

ENVIRONMENTAL PROTECTION AGENCY

ADMINISTRATOR

401 M Street, SW, Room W1200
Washington, DC 20460
(202) 382-4700 FAX: (202) 382-7883

Authority

- (1) Clean Air Act, P.L. 88-206
- (2) Clean Water Act, P.L. 92-500
- (3) Comprehensive Environmental Response Compensation and Liability Act (CERCLA), P.L. 96-510
- (4) Federal Food, Drug and Cosmetic Act, Stat. 1040
- (5) Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), P.L. 92-516
- (6) Marine Protection, Research and Sanctuaries Act, P.L. 92-532
- (7) Resource Conservation and Recovery Act (RCRA), P.L. 94-580
- (8) Safe Drinking Water Act, P.L. 93-523
- (9) Toxic Substances Control Act (TSCA), P.L. 94-469
- (10) Uranium Mill Tailings Radiation Control Act, P.L. 95-604
- (11) Plus amendments thereto and other acts not listed
- (12) National Environmental Policy Act, (P.L. 91-190)
- (13) Noise Control Act, (P.L. 92-574)
- (14) Medical Waste Tracking Act, (P.L. 100-582)
- (15) Asbestos Hazard Emergency Response Act, (P.L. 99-519)
- (16) Asbestos Information Act, (P.L. 100-577)
- (17) Asbestos School Hazard Abatement Act, (P.L. 98-377)
- (18) Indoor Radon Abatement Act, (P.L. 100-551)

Implementation

Environmental Protection Agency (EPA) standards are published in Part 40 of the Code of Federal Regulations (40 CFR). Some standards are mandatory, others voluntary. State and local governments usually have the right to impose standards that are more stringent than those EPA sets.

Application

Standards are applied in various ways including individual permits establishing emissions or effluent limits, product registration, state and local implementation plans, direct reporting to EPA, recordkeeping, on-site inspections, voluntary adoption, etc.

Adoption of Nongovernment Standards

40 CFR refers readers to nongovernmental standards it accepts in lieu of incorporating the standards in the CFR.

Qualification, Certification, or Calibration

EPA samples products and the environment for compliance with its standards. Examples include monitoring motor vehicle emissions, wastewater discharges, new chemicals

and pesticides, land fills, ambient air, and drinking water systems. The Agency also reviews manufacturers' requests to label products as "certified to EPA standards."

**Committee
Activity**

Advisory Commission on Intergovernmental Relations;
Council on Environmental Quality;
Interagency Testing Committee (ITC);
National Air Pollution Control Techniques Advisory
Committee;
National Drinking Water Advisory Council;
Environmental Committee of the Organization for
Economic Cooperation and Development;
Science Advisory Board;
U.S. Canada International Joint Commission (on air and
water);
Stratospheric Ozone Protection Advisory Committee;
Volatile Organic Chemical Equipment Leak Rule
Negotiated Rule Making Committee;
Biotechnology Science Advisory Committee;
FIFRA Scientific Advisory Panel;

**Standardization
Activities**

EPA environmental standards apply to individuals; businesses; federal, state and local governments; and other organizations. They are intended to ensure clean air and water, safe containment of toxic wastes, protection from excessive radiation, protection of the nation's waters for fish/wildlife and human use, undue exposure to toxic substances, etc. The following offices are directly involved in standards development and application: Office of Air Radiation, (202)382-7400; Office of Pesticides and Toxic Substances, (202)382-2902; Office of Research and Development, (202)382-7676; Office of Solid Waste and Emergency Response, (202)382-4610; Office of Water, (202)382-5700. These Offices exercise responsibility for standards dealing with water quality, solid and hazardous wastes, pesticides and toxic substances, ambient air, research and development practices, and radiation. The Administrative Procedures Act mandates publication of proposed rules (standards) followed by public comment/hearings prior to promulgating the rule. Usually, once a standard is set, states and other jurisdictions must submit, by a certain date, implementation plans for meeting these standards or face the alternative of having EPA write and impose its own plan.

Availability

Part 40 of the Code of Federal Regulations, available from the Government Printing Office, contains all Agency standards; EPA also publishes both the standards and resulting implementation plans in the Federal Register.

Keywords environment; air; water; radiation; pollution; toxic substances; hazardous waste; pesticides; chemicals; materials; sanitation;

EXECUTIVE OFFICE OF THE PRESIDENT

OFFICE OF THE U.S. TRADE REPRESENTATIVE

GATT Affairs Division, Room 513
600 Seventeenth Street, NW
Washington, DC 20506
(202) 395-3063 FAX: (202) 395-3911

Authority Title IV of the Trade Agreements Act of 1979 (P.L. 96-39, July 26, 1979) on approval of the Agreement on Technical Barriers to Trade (Standards Code) which sets forth disciplines on standards-related activities. USTR does not itself develop standards, test methods or rules of certification.

Implementation Through the Trade Policy Committee structure, chaired by the Office of the U.S. Trade Representative (USTR), U.S. Government coordination of the implementation and administration of the Standards Code is achieved. USTR works primarily with the Departments of Agriculture, Commerce, and State in this area.

Application The Trade Policy Staff Committee (TPSC) Subcommittee on Standards meets regularly to approve U.S. positions for meetings of the Committee on Technical Barriers to Trade (established by the Standards Code). The TPSC also approves positions for bilateral standards-related discussions with governments who are signatories to the Agreement on Technical Barriers to Trade.

Adoption of Nongovernment Standards USTR coordinates with the private sector through the Industry Functional Advisory Committee on Standards Trade Policy Matters (IFAC-2) and the Trade Policy Staff Committee (TPSC) Subcommittee on Standards, for coordination of trade policy within the U.S. government.

Qualification, Certification, or Calibration USTR coordinates closely with nongovernmental certification bodies directly and through the IFAC on Standards Trade Policy Matters.

Committee Activity USTR directly participates in the American National Standards Institute's International Standards Council, and the American Society for Testing and Materials, Council on International Standardization.

Keywords Standards Code; GATT; international trade; business; general; 1979 Trade Act;

FEDERAL COMMUNICATIONS COMMISSION

OFFICE OF ENGINEERING AND TECHNOLOGY

1919 M Street, NW
Room 7002B, MST-1
Washington, DC 20554
(202) 632-7060 FAX: (202) 653-5402

Authority	The Communications Act of 1934, as amended (47 U.S.C. 151) established the Federal Communications Commission (FCC) to regulate interstate and foreign commerce in communications by wire and radio in the public interest.
Implementation	The FCC rules and regulations are contained in Title 47 CFR. The standards are located in the various Parts: 0, 1, 2, 5, 13, 15, 17, 18, 19, 21, 22, 23, 25, 31, 33, 34, 35, 41, 42, 43, 51, 52, 61, 62, 63, 64, 66, 67, 68, 73, 74, 76, 78, 81, 83, 87, 90, and 94.
Application	Since there are many different kinds of standards throughout the rules, various methods are used to enforce the rules or standards. The methods used are: on-site inspections, FCC laboratory testing, review of test data submitted by applicants, and self verification.
Adoption of Nongovernment Standards	The Commission has adopted nongovernment standards and will continue to do so whenever it is in the public interest. These standards are referenced in the appropriate parts of the rules, and in many cases voluntary standards become mandatory standards when referenced in the rules and regulations.
Qualification, Certification, or Calibration	Applicants wishing to establish a radio station, whether it be a broadcast, private, common carriers, or experimental, must submit information showing compliance with the rules. If the requirements (standards) are met, a license is issued. As of 1988 the Commission has issued approximately 3 million radio licenses. The Commission also has STGT equipment authorization programs which issue equipment approvals. The Commission issues approximately 6,000 equipment approvals each year.
Committee Activity	The Commission participates in pertinent organizations and committees which deal with telecommunications standards. Some of these are: Institute of Electrical and Electronics Engineers, American National Standards Institute, Electronic Industries Institute, Radio Technical Commission for Aeronautics, Radio Technical Commission for Maritime Services, International Radio

Consultative Committee, CISPR, Safety of Life At Sea Convention, etc.

**Standardization
Activities**

The Commission participates in international and national standards organizations developing communication systems and equipment. The Commission provides technical analysis and testing of systems and equipment.

Availability

U.S. Government Printing Office.

Keywords

frequency allocations; radio frequency interference; electromagnetic compatibility; communications;

FEDERAL TRADE COMMISSION

BUREAUS OF COMPETITION (BC) AND CONSUMER PROTECTION (BCP)

Licensed Occupations, Bureau of Competition
Sixth Street and Pennsylvania Ave., NW, Room 3037 PA
Washington, DC 20580
(202) 326-2904

Service Industry Practices, Bureau of Consumer
Protection
Sixth Street and Pennsylvania Ave., NW, Room 294
Washington, DC 20580
(202) 326-3303

Authority

Federal Trade Commission Act, S5, 15 U.S.C. S45.
Section 5 of the Federal Trade Commission Act declares unfair methods of competition, and unfair or deceptive acts and practices, in or affecting commerce, to be unlawful.

**Adoption of
Nongovernment
Standards**

In preventing unfair or deceptive acts or practices in commerce, the Federal Trade Commission (FTC) may reference standards in trade regulation rules or guides. For example, the Commission incorporated several nongovernment standards by reference in its rule relating to labeling and advertising of home insulation (R-value rule, 16 CFR, part 460).

**Standardization
Activities**

The Commission's Bureau of Competition (BC) and Bureau of Consumer Protection (BCP) investigate standards and certification activities that may unreasonably result in a substantial lessening of competition in violation of the Federal Trade Commission Act. One example would be allegations that a standard or a seal of approval program unreasonably excluded innovative products from the marketplace. They would also investigate allegations that standards or seals of approval are being used deceptively in the sale of products. If the

used deceptively in the sale of products. If the Commission finds reason to believe that the law may have been violated, it may commence a law enforcement action to enjoin such anti-competitive or deceptive activities and to seek such other relief as may be appropriate. The Commission may, under appropriate circumstances: issue advisory opinions as to the legality of standards or certification practices presented for review; participate in relevant interagency or intergovernmental committees; present its views to appropriate legislative, judicial, or industry entities concerning specific standards or certification issues.

Keywords antitrust; restraint of trade; anti-competitive practices; competition; unfair methods; innovation; deception; business; general;

GENERAL SERVICES ADMINISTRATION

INFORMATION RESOURCES MANAGEMENT

Office of Information Resources Procurement
18th and F Streets, NW, Room G-44
Washington, DC 20405
(202) 501-1072

Authority 1. Public Law 89-306: The Brooks Act
2. Public Law 99-500: The Paperwork Reduction Reauthorization Act of 1986

Implementation The Federal Information Resources Management Regulation (FIRMR) establishes federal standards provisions and requirements for the acquisition of ADP and telecommunications resources. The Federal ADP and Telecommunications Standards Index provides terminology to incorporate standards in solicitation documents. It also provides a catalogue of all American National Standards (ANS), Federal Information Processing Standards (FIPS), and Federal Standards (FED-STD).

Application Federal acquisition of ADP and telecommunications resources must be in compliance with established federal standards provisions of the FIRMR.

Committee Activity The GSA is an active voting member of the X3: Information Processing System; ANSI Standards Committee T1, Telecommunications; Federal Telecommunications Standards Committee (FTSC); and the ANSI Information Systems Standards Board (ISSB).

Standardization Activity The GSA serves as a focal point for the government-wide Federal Information Processing and Telecommunications

Standards Program. GSA participates directly in the development of federal standards, and develops terminology to incorporate standards in solicitation documents for acquisition and use of ADP and telecommunications resources. GSA provides advice and assistance to federal agencies and private sector personnel on information systems and telecommunications standards.

Availability The Federal ADP and Telecommunications Standards Index is sold by the Government Printing Office.

Keywords information processing; telecommunications; terminology;

GENERAL SERVICES ADMINISTRATION

FEDERAL SUPPLY SERVICE

Office of Commodity Management, Room 710
Crystal Mall, Building 4
Washington, DC 20406
(703) 557-7901

Authority The Federal Standardization Program was developed in compliance with the Federal Property and Administrative Services Act of 1949, 63 STAT. 377, as amended. The program provides for coordination of civil and military standardization functions, so as to avoid unnecessary duplication, pursuant to the Act and in consonance with the Defense Cataloging and Standardization Act (Secs. 24512456, Title 10, U.S.C., superseding P.L. 436).

Implementation 41 CFR 101-29 describes the standardization program under Federal Product Descriptions. Included are federal specifications, standards, commercial item descriptions, purchase descriptions, and brand-name purchase descriptions. Also included in the program are Qualified Products Lists (QPL's).

Application Federal product descriptions shall be used by all federal agencies in the procurement of supplies and services covered by such descriptions, except as provided in 41 CFR 101-29.402 and 41 CFR 101-29.403.

Adoption of Nongovernment Standards By the end of 1982, the Federal Supply Service (FSS) had adopted approximately 300 nongovernment standards. Approximately 900 nongovernment documents are invoked by reference. The majority of these are standards developed by American Society for Testing and Materials (ASTM), American National Standards Institute (ANSI), Society of Automotive Engineers (SAE), and Underwriters Laboratories (UL).

**Qualification,
Certification,
or Calibration**

The General Services Administration (GSA) Office of Quality and Contract Administration handles the inspection and testing, as necessary, of supplies procured under GSA contracts. Through the five regional control divisions and the one regional laboratory, this program provides assurance that material supplied is in compliance with contract specifications.

**Committee
Activity**

The Federal Supply Service participates in pertinent committees of ASTM and ANSI. In addition, FSS personnel are directly involved in work with 15 other technical organizations.

**Standardization
Activities**

GSA is responsible for establishing policies and procedures, in coordination with other agencies, for the preparation, coordination, approval, issuance, and maintenance of product descriptions in the federal series.

FSS issues and maintains, on a current status, the Federal Standardization Handbook. The Handbook sets forth operating procedures and applicable definitions used in the development of federal product descriptions under the Assigned Agency Plan described therein.

FSS also promulgates and maintains, on current status, the Index of Federal Specifications, Standards, and Commercial Item Descriptions. The Index lists federal product descriptions which have been printed and distributed, including those which are mandatory for use by all federal agencies and identifies the sources from which these documents may be obtained. There are approximately 6,000 federal product descriptions in use, of which 50 percent have been assigned to other agencies.

Availability

GSA Business Service Center, 7th and D Streets, SW, Washington, DC 20407 (202) 472-1804 or any of the other GSA Business Service Centers.

Keywords

federal product descriptions; standards; specifications; commercial item descriptions; qualified products lists; nongovernment documents; general;

GENERAL SERVICES ADMINISTRATION

PUBLIC BUILDING SERVICE

Office of Design and Construction, Room 3318
Eighteenth & F Streets, NW
Washington, DC 20405

(202) 501-1888

Authority	The Architectural Barriers Act of August 12, 1968, (Public Law 90-480, 1976 amendment, Public Law 94-541)
Implementation	The General Services Administration is required as one of the four standard-setting agencies, to "prescribe standards for the design construction, and alteration of buildings (other than residential structures subject to this Act and buildings, structures, and facilities of the Department of Defense and of the United States Postal Service subject to this Act) to insure whenever possible that physically handicapped persons will have ready access to, and use of, such buildings."
Application	The General Services Administration, (GSA) issued PBS, PCD, Design Guide 6, GSA Accessibility standard, on October 14, 1980. GSA and the Department of Housing and Urban Development, the Department of Defense, and the United States Postal Service jointly published the Uniform Federal Accessibility Standards on August 7, 1984 which sets standards to insure that certain buildings financed with federal funds are so designed and constructed as to be accessible to the physically handicapped.
Adoption of Nongovernment Standards	After passage of the Architectural Barriers Act, GSA adopted "Specifications for Making Building and Facilities Accessible to, and Usable by, the Physically Handicapped" ANSI 117.1.
Committee Activities	GSA is a member of the Architectural and Transportation Barriers Compliance Board, 1111 18th Street, NW, Washington, DC 20036 (202) 653-7834.
Standardization Activities	GSA develops, publishes and updates accessibility standards to assure that all building designs, constructed, altered, increased by an addition, or leased with federal funds are accessible and usable by handicapped individuals. The Administrator also has the authority to waive or modify those standards on a case-by-case basis.
Availability	The Uniform Federal Accessibility Standards are available, free of charge from GSA or the Architectural and Transportation Barriers Compliance Board.
Keywords	building; construction; general; social welfare; access; physically handicapped;

DEPARTMENT OF HEALTH AND HUMAN SERVICES

CENTER FOR DISEASE CONTROL

National Institute for Occupational Safety and Health
1600 Clifton Road NE
Atlanta, Georgia 30333
(404) 639-3771

Authority

- (1) 29 U.S.C. 651-678, December 29, 1970, Occupational Safety and Health Act (OSH Act), to assure safe and healthful conditions of working men and women; by authorizing enforcement of standards developed under the OSH Act; and for other purposes.
- (2) 30 U.S.C. 801, 811, 842(h), December 30, 1969, Federal Coal Mine Health and Safety Act of 1969, as amended by the Federal Mine Safety and Health Act of 1977, to protect the health and safety of miners.

Implementation

Recommended Occupational Safety and Health Standards -- developed by the National Institute for Occupational Safety and Health (NIOSH) Division of Standards Development and Technology Division, 4676 Columbia Parkway, Cincinnati, Ohio 45226, telephone (513) 533-8302. Approximately 120 voluntary standards have been developed in the form of criteria documents dealing with control of toxic substances in the workplace. These criteria documents are submitted by NIOSH as recommendations to the Department of Labor (DOL) for use in the development of mandatory standards by DOL's Occupational Safety and Health Administration and DOL's Mine Safety and Health Administration.

Performance Standard for Respirators -- developed by NIOSH's Safety Research Division, 944 Chestnut Ridge Road, Morgantown, West Virginia 26505, telephone (304) 291-4595. A mandatory standard under 30 CFR, Part 11 establishes a performance standard and the procedures for testing and certifying personal protective respiratory equipment.

Application

The Department of Labor is responsible for the promulgation and enforcement of occupational health and safety standards.

**Qualification,
Certification
or Calibration**

NIOSH's Safety Research Division's Certification Branch is responsible for testing and certifying personal respiratory protective equipment based upon applications submitted by the manufacturers of such equipment.

**Standardization
Activities**

NIOSH employees actively participate in voluntary standard development activities of ANSI, ASTM, and American Conference of Governmental Industrial Hygienists (ACGIH).

Keywords

respiratory protective equipment; toxic substances; workplace standards; safety; public health;

DEPARTMENT OF HEALTH AND HUMAN SERVICES

FOOD AND DRUG ADMINISTRATION

Office of Regulatory Affairs, Room 14-85
5600 Fishers Lane
Rockville, Maryland 20857
(301) 443-1594

Authority

- Federal Food, Drug, and Cosmetic Act, as amended (21 U.S.C. 321-392)
- Public Health Service Act, as amended (42 U.S.C. 262, 263, 263b-263n, and 361), (42 U.S.C. 264 and 13951)
- Fair Packaging and Labeling Act (15 U.S.C. 1451-1461)
- Federal Import Milk Act (P.L. 69-625)
- Tea Importation Act (21 U.S.C. 41-50)
- Federal Caustic Poison Act (Note: Section 19 of the Federal Hazardous Substances Act (15 U.S.C. 401) repealed the Federal Caustic Poison Act except for any "dangerous caustic or corrosive substance" as defined by the Federal Caustic Poison Act which is subject to the Federal Food, Drug, and Cosmetic Act and not a "hazardous substance" under the Federal Hazardous Substances Act.)
- Orphan Drug Act (P.L. 97-414)
- Drug Price Competition and Patent Term Restoration Act (P.L. 98-417)
- Drug Exports Amendments Act of 1986 (P.L. 99-660)
- Prescription Drug Marketing Act of 1987 (P.L. 100-293)
- Anti-Drug Abuse Act of 1988 (P.L. 100-690)
- Saccharin Study & Labeling Act
- Federal Anti-Tampering Act

Implementation

The Food and Drug Administration (FDA) Center for Food Safety and Applied Nutrition, Office of Compliance, 200 C Street, SW, Washington DC 20204, (202) 485-0160, is responsible for:

- Color Additives -- Approximately 200 mandatory regulations under 21 CFR, Parts 73, 74, and 82 prescribe identity, specifications, and other conditions under which color additives may be safely used in food, drugs, cosmetics, and devices.

- Food Additives -- Approximately 300 mandatory regulations under 21 CFR, Parts 172-179 prescribe identity, specifications, and other conditions under which food additives may be safely used.
- GRAS Substances -- Approximately 93 mandatory regulations under 21 CFR, Parts 184 and 186 prescribe identity, specifications, and other conditions under which substances are generally recognized as safe (GRAS) as ingredients added directly or indirectly to human food.
- Food Standards -- Approximately 293 mandatory regulations under 21 CFR, Parts 131 through 169 prescribe standards of identity, quality, and fill of container for 21 different classes of foods. Most of these are standards of identity which specify the basic composition of the food.
- Other Food Regulations -- A number of other miscellaneous mandatory regulations concerning food for human consumption appear under 21 CFR, Subchapters A, B, and L (e.g., general labeling requirements under Subpart B of 21 CFR, part 1; food labeling under 21 CFR, Part 101; 21 CFR Part 104 Nutritional Quality Guidelines for Food; quality standards for foods with no standards of identity under 21 CFR, Part 103; Standards of Quality for Bottled Water under 21 CFR, Part 104; infant formula quality control procedures under 21 CFR, Part 105; Foods for Special Dietary Uses under 21 CFR, Part 106; regulations under the Federal Import Milk Act (21 CFR, Part 1220); and Interstate Conveyance Sanitation (21 CFR, Part 1250), Part 108; Emergency Permit Control under 21 CFR, Part 109; Unavoidable Contaminants in Foods under 21 CFR, Part 110; Good manufacturing Practices in Human Food under 21 CFR, Part 113; Thermally Processed Low-acid foods under 21 CFR, Part 114; Acidified foods under 21 CFR, Part 124; Processing and Bottling of Bottles Drinking Water under 21 CFR.
- Cosmetic Regulations -- Approximately 16 mandatory regulations under 21 CFR, Parts 701 and 740 prescribe standards for cosmetic labeling.
- Federal Caustic Poison Act -- Approximately 27 mandatory regulations under 21 CFR, Part 1230 prescribe labeling requirements, methods of analysis, and other conditions for enforcement of the Federal Caustic Poison Act.
- Control of Communicable Diseases -- Approximately

19 mandatory regulations under 21 CFR, Part 1240 concern control of communicable diseases.

FDA's Center for Drug Evaluation and Research, 5600 Fishers Lane, Bethesda, Maryland 20857, (301) 443-2894 and Center for Biologics Evaluation and Research, 9000 Rockville Pike, Bldg. 29, Bethesda, Maryland 20892, (301) 496-3556, develop standards and regulations for:

- Biological Products Applicable to the Prevention, Treatment or Cure of Diseases or Injuries of Man -
-In addition to the regulations at 21 CFR Subchapter C and D that apply to all products, including biological products, that are applicable to the prevention, treatment or cure of diseases or injuries of man (drug products), mandatory regulations for biological products exist at Subchapter F.
- Insulin and Antibiotics -- Approximately 707 mandatory regulations under 21 CFR, Parts 429-460 prescribe standards, tests, and methods of assay for insulin and antibiotic drugs.
- Over-the-Counter (OTC) Drugs -- Ten mandatory regulations (monographs) under 21 CFR, Parts 331, 332, 333, 336, 338, 340, 341, 344, 349 and 357 prescribe specifications and conditions under which therapeutic categories of OTC drugs are generally recognized as safe and effective. Regulations under 21 CFR Part 310 describe conditions under which certain therapeutic categories of OTC drugs are not generally recognized as safe and effective. Regulations are under development for approximately 34 additional therapeutic categories of OTC drugs.
- Biological Product -- Approximately 325 mandatory regulations appear under 21 CFR, Subchapter F concerning labeling, standards, testing, and other conditions under which bacterial and viral vaccines, toxoids, antitoxins, blood, and blood derivatives, allergenic products, and other biological products can be safely used.

FDA's Center for Devices and Radiological Health, Office of Standards and Regulations, 5600 Fishers Lane, Rockville, Maryland 20857, (301) 443-3403, prepares:

- Procedures for Performance Standards Development -- Approximately 13 mandatory regulations under 21 CFR, Part 861 prescribe the procedures for initiation, development, establishment, amendment, and revocation of performance standards applicable

to devices intended for human use.

- Device Classification Procedures -- Approximately 14 mandatory regulations under 21 CFR, Part 860 prescribe the criteria and procedures governing the classification and reclassification of devices intended for human use into one or more of three regulatory classes: class I (general controls), class II (performance standards), and class III (premarket approval).
- Device Classification Regulations -- FDA is developing mandatory regulations to classify all medical devices intended for human use into one or more of these three classes depending upon the regulatory controls needed to provide reasonable assurance of their safety and effectiveness. Approximately 1,613 mandatory device classification regulations appear under 21 CFR, Parts 864-892 (approximately 70 additional mandatory device classification regulations have been published as proposed rules but have not yet been published as final regulations).
- Other Device Regulations -- A number of other miscellaneous mandatory device regulations appear under 21 CFR, Subchapter H (e.g., general labeling requirements under 21 CFR, Part 801; exemptions from federal preemption of state and local medical device requirements under 21 CFR, Part 808; in-vitro diagnostic products for human use under 21 CFR, Part 809; investigational device exemptions under 21 CFR, Part 812; and investigational exemptions for interocular lenses under 21 CFR, Part 813).
- Performance Standards for Ionizing Radiation Emitting Products -- Approximately 6 mandatory regulations under 21 CFR, Part 1020 prescribe standards to control the emission of radiation from microwave ovens.
- Performance Standards for Light Emitting Products -- Approximately 4 mandatory regulations under 21 CFR, Part 1040 prescribe standards to control the emission of radiation from lasers, sunlamps, and other light-emitting products.
- Performance Standards for Sonic, Infrasonic, and Ultrasonic Radiation-Emitting Products -- One mandatory regulation under 21 CFR, Part 1050 prescribes standards to control the emission of radiation for ultrasonic therapy products.

- Other Radiological Health Regulations -- A number of other mandatory and voluntary regulations appear under 21 CFR, Subchapter J (e.g., general provisions and radiation protection recommendations under 21 CFR, Part 1000; importation of electronic products under 21 CFR, Part 1005; performance standards for electronic products: general under 21 CFR, Part 1010).

FDA's Center for Veterinary Medicine, 5600 Fishers Lane, Rockville, Maryland 20857, (301) 443-3450, is responsible for:

- Food Additives Permitted in Feed and Drinking Water of Animals -- Approximately 49 mandatory regulations under 21 CFR, Part 573 prescribe identity, specifications, and other conditions under which food additives may be solely used in feed and drinking water of animals.
- New Animal Drugs -- Approximately 633 mandatory regulations under 21 CFR, Parts 520-555 and 558 prescribe identity, specifications, testing, and other conditions for safe use of new animal drugs.
- Tests for Specific Antibiotic Dosage Forms -- Approximately 18 mandatory regulations under 21 CFR, Part 536 prescribe tests for specific antibiotic dosage forms of new animal drugs.
- Other Animal Drugs, Feeds, and Related Products Regulations -- A number of other miscellaneous mandatory regulations concerning animal drugs, feeds, and related products appear under 21 CFR, Subchapter E (e.g., animal food labeling under 21 CFR, Part 501; and tolerances for residues of new animal drugs in food under 21 CFR, Part 556).

Application

To determine that FDA-regulated products are in compliance with statutes, FDA conducts inspections of manufacturing establishments (17,740 in FY89), collects and analyzes domestic samples (26,996 in FY89) and import samples (44,936 in FY89), and conducts wharf examinations of products in import channels of trade (102,617 in FY89). Samples collected are analyzed at FDA field and headquarters laboratories.

Adoption of Nongovernment Standards

By the end of 1989, FDA had adopted more than 300 nongovernment standards. The majority of these are ASTM, Association of Official Analytical Chemists (AOAC), Food Chemicals Codex, and American Public Health Association. In addition to these nongovernment standards, 21 U.S.C. 352(b) and 352(g) mandate that FDA

use standards in an "official compendium" such as the United States Pharmacopeia.

**Qualification,
Certification,
or Calibration**

Color additives (unless the color is specifically exempted) and insulin are batch-certified by FDA prior to marketing. Most biological products are required by regulation to be tested by FDA prior to release of each lot of product. With few exceptions (e.g. foods, cosmetics), most FDA-regulated products are subject to preclearance by FDA before they may be marketed.

**Committee
Activity**

More than 150 FDA staff members participate with 29 standards organizations in more than 270 standardization activities. For example:

ANSI (13 committees, 16 subcommittees)
ASTM (5 committees, 52 subcommittees)
AAMI (27 committees, 11 subcommittees)
ASME (1 committee, 3 subcommittees)
USP (6 subcommittees)
NCCLS (10 committees, 24 subcommittees)
American College of Radiology (6 committees)
IEEE (4 committees, 7 subcommittees)
Acoustical Society of America (2 committees)
IEC (4 technical committees, 23 subcommittees)
ISO (7 technical committees, 13 subcommittees)
NCCLS (11 committees, 34 subcommittees)
International Organization for Legal Metrology (OIML),
U.S. Technical Advisory Group for SP26
Codex Alimentarius (FAO/WHO) (16 committees)

**Standardization
Activities**

The broad scope of FDA's involvement in standardization activities is reflected by the programmatic CFR listings above under Implementation and the partial listing under Committee Activities. Since May 27, 1975, FDA has regulated and encouraged participation of its employees in outside standard setting activities (the current regulation appears under 21 CFR 10.95). It is FDA policy to use and cite in its regulations nongovernment standards whenever possible and consistent with FDA's statutory mandates to protect the public health.

Availability

FDA regulations are published in the Code of Federal Regulations available from the Government Printing Office. Each FDA regulation that incorporates by reference test methods or other materials also lists the complete address from which copies may be obtained.

Keywords

food; food additives; color additives; cosmetics; human drugs; animal drugs; biologics; medical devices; radiation protection; electronic product radiation; safety; public health; consumer products;

DEPARTMENT OF THE HEALTH AND HUMAN SERVICES

HEALTH CARE FINANCING ADMINISTRATION

200 Independence Avenue, SW
Washington, DC 20201
(202) 245-6726

Authority	Titles XVIII and XIX of the Social Security Act.
Implementation	42 CFR, Subchapters B and C. Regulations addressing the survey and certification of health care facilities wishing to participate in the Medicare and Medicaid programs.
Application	State survey agencies and Health Care Financing Administration (HCFA) regional offices apply procedures set forth in these regulations in determining a facility's eligibility for certification and in making certification decisions.
Committee Activity	HCFA works closely with Association of State and Territorial Health Officials, Association of Health Facility Licensure and Certification Directors, and various consumer and industry groups in developing its standards.
Standardization Activities	HCFA standards apply to the survey and certification of all health care facilities wishing to participate in the Medicare and/or Medicaid programs. Having standard procedures assures national uniformity in approving facilities for Medicare/Medicaid reimbursement.
Availability	Standards are available from the Government Printing Office and Health Care Financing Administration's Office of Public Affairs.
Keywords	Medicare; Medicaid; survey and certification; health care providers and suppliers; state survey agencies; health care; facilities management; insurance;

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

ASSISTANT SECRETARY FOR HOUSING - FEDERAL HOUSING COMMISSIONER

Manufactured Housing and Construction Standards
Division
Office of Manufacturer Housing and Regulatory Functions
451 Seventh Street, SW, Room 9158
Washington, DC 20410-8000
(202) 708-2210

Authority

- (1) Minimum Property Standards (MPS) - Sec. 7(d) of the Department of Housing and Urban Development Act of 1965, 79 Stat. 670; 42 U.S.C. 3535 (d); Sec. 211, 52 Stat. 23; 12 U.S.C. 1715b and 81 Stat. 54; 5 U.S.C. 522(a).
- (2) Technical Suitability of Products Program - Sec. 521 of the National Housing Act was added by Sec. 216 of the Housing and Urban Development Act of 1965, Public Law 89-117.
- (3) Manufactured Housing - Section 7(d), Department of Housing and Urban Development Act, 42 U.S.C. 3535(d), Title VI, Housing and Community Development Act of 1974 (42 U.S.C. 5401).

Implementation

All standards are codified as regulations and are mandatory. The MPS, which include as supplements product acceptance under Sec. 521 and the Department of Housing and Urban Development (HUD) Building Products Certification Programs, are incorporated by reference in 24 CFR, Part 200 Subpart S, Sections 200.925, 200.927, 200.929, 200.931, 200.933, 200.935 with an Appendix. Manufactured Home Construction and Safety Standards are in 24 CFR Parts 3280, 3282 and 3283.

Application

Design drawings are reviewed for compliance, and inspectors visit site development and manufacturing facilities for construction or manufacturing compliance. The MPS are only applicable for HUD mortgage or loan insurance and low-rent public housing programs. The Manufactured Home Standards are applicable for all manufacture homes which are designed to be used as dwelling units.

Adoption of Nongovernment Standards

Nongovernment standards are invoked by reference or adoption whenever possible. There are approximately 500 nongovernment standards referenced in the Minimum Property Standards and supplemental standards issued under the Technical Suitability of Products Program. The Manufactured Housing Program Standards contain 200 nongovernment standards. Principal developers of these standards include the American Society for Testing and Materials (ASTM), American National Standards Institute (ANSI), American Concrete Institute (ACI), American Plywood Association (APA), American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE), and Architectural Aluminum Manufacturers Association (AAMA).

Qualification, Certification, or Calibration

Proponents of new building products or systems submit technical data for analysis under the Technical Suitability of Products Program. Upon a determination of suitability, a Materials Release is issued for

products and a Structural Engineering Bulletin for building systems. These documents supplement the MPS, and include these products for national acceptance. Use of Materials Bulletins are issued either as an interim HUD standard for a particular class of like products, such as carpet, or as a means of promulgating a certification program for a product. There are currently Engineering Bulletins, Materials Releases, Use of Materials Bulletins, and 13 Certification Programs in effect.

Under the Manufactured Housing Program all designs, quality assurance manuals, product certifications and listings are approved by design approval agencies, accepted by HUD. All manufactured homes are inspected by in-plant inspection agencies for conformance to the approved design, and federal standards. Average yearly production of manufactured homes is 250,000 homes.

HUD encourages industry enforcement and self certification for those materials covered by product standards and federal specifications. It also requires third party certification in conformance with criteria set out in 24 CFR 200.935 for lumber, plywood, carpet, windows, plastic bathtubs, etc.

**Committee
Activity**

HUD staff participate in pertinent committees that include the following: Council of American Building Officials (CABO), International Conference of Building Officials (ICBO), Building Officials and Code Administrators (BOCA), Southern Building Code Congress International (SBCCI), ASTM, National Conference of States on Building Codes and Standards (NCSBCS), ACI, American Lumber Standards Committee (ALSC), ANSI, ASHRAE, U.S./Japan Panel on Wind and Seismic Effects, National Academy of Sciences, and National Institute of Building Sciences (NIBS).

**Standardization
Activities**

The Manufactured Housing and Construction Standards Division writes, updates, revises, and clarifies construction and design standards for HUD-associated residential construction. This activity grew out of the National Housing Act of 1934 and Sec. 7(d) Department of Housing and Urban Development Act, 42 U.S.C. 3535(d), Title VI, Housing and Community Development Act of 1974. The Code of Federal Regulations reference is Title 24 Housing and Urban Development.

The Minimum Property Requirements as originally established in 1935 were intended to provide the minimum essentials for a property to be considered economically sound security for Federal Housing Administration (FHA) mortgage insurance purposes. They establish and

describe those characteristics of a property which will produce continuing utility, livability, durability, marketability, economy of maintenance, safety and healthy environment.

In 1940, the FHA issued the Minimum Requirements for Rental Housing covering multifamily units, while Property Standards and Minimum Construction Requirements for Dwellings applicable to single family dwellings were published in 1942. These were reissued after World War II under the title: Minimum Property Requirements for Properties of Three or More Living Units, and Minimum Property Requirements for Properties of One or Two Living Units. Another reissue took place in 1958 for the One and Two Living Units MPS and in 1963 for the Multifamily Housing MPS. Since then, these standards have been revised numerous times to stay current with evolving technology.

In 1974 the National Mobile Home Construction and Safety Standards Act was enacted by Congress to reduce the number of personal injuries and deaths and the amount of insurance costs and property damage resulting from mobile home accidents and to improve the quality and durability of mobile homes. All mobile manufactured housing built since June 15, 1976 must be in compliance with the requirements of this Act. The standards cover all equipment and installations in the design, construction, fire safety, plumbing, heating, ventilating, and electrical systems of manufactured homes which are designed to be used as dwelling units.

Availability

Minimum Property Standards are available through HUD field offices. The Manufactured Housing Standards are available from HUD, Manufactured Housing and Construction Standards Division at HUD Headquarters.

Keywords

manufactured homes; (mobile homes); certification; residential; mortgage insurance; building; sanitation; safety; standards; construction;

INTERDEPARTMENTAL SCREW THREAD COMMITTEE (Defunct)

Replaced by

DEFENSE INDUSTRIAL SUPPLY CENTER
ATTN: DISC-ECF
700 Robbins Avenue
Philadelphia, Pennsylvania 19111
(215) 697-2735

The Defense Industrial Supply Center (DISC) replaced the Interdepartmental Screw Thread Committee (ISTC) as

preparing activity for the screw thread standards for federal services in 1976. Following this transfer, the National Institute of Standards and Technology (NIST) Handbook H28, which consisted of 3 volumes of screw thread standards, was converted to a basic cover document, FED-STD-H28, and individually issued sections FED-STD-H28/1, FED-STD-H28/2, ..., FED-STD-H28/22. Each section is coordinated with military activities, federal agencies, and industry associations prior to approval by the General Services Administration.

DISC works closely with the American National Standards Institute (ANSI) Accredited Committee B1 of the American Society of Mechanical Engineers (ASME) which produces the inch and metric screw thread standards for general use by industry. ANSI/ASME B1 and other industry standards are incorporated into equivalent sections of FED-STD-H28 rather than duplicating industry standards as had been the practice in the old Handbook H28.

Keywords fasteners; metric; manufacturing;

DEPARTMENT OF THE INTERIOR

MINERALS MANAGEMENT SERVICE

Offshore Rules and Operations Division, Branch of
Rules, Orders, and Standards, Room 3313A
381 Elden Street
Mail Stop 646
Herndon, Virginia 22070
(703) 787-1609

Authority The Outer Continental Shelf Lands Act, 43 U.S.C. 1331 et seq., provides for the jurisdiction of the United States over the submerged lands of the Outer Continental Shelf (OCS), authorizes the Secretary of the Interior to lease such lands for the development and production of oil and gas, provides for the establishment and enforcement of safety regulations for oil and gas operations, and provides for environmental studies directed towards minimizing the impact of such operations.

Implementation Approximately 200 mandatory requirements are codified as regulations in 30 CFR, Parts 250, 251, 252, 256, 280, 281, and 282. These regulations are for OCS minerals operations, geological and geophysical explorations, an information program, and for the management of pipeline rights-of-way. The regulations are supplemented by OCS Orders for each of the four OCS Regions.

Application	Inspectors visit offshore operators on the OCS to see that safety requirements are followed. Minerals Management Service (MMS) personnel review required reports from lessees to ensure that drilling and production personnel are properly trained, prepared to implement safety contingencies, and that all produced oil gas is properly measured and royalties paid.
Adoption of Non-Government Standards	The MMS currently incorporates by reference 65 non-government standards. The majority of these standards were developed by the American Petroleum Institute and the American Society for Testing and Materials.
Committee Activity	The MMS participates in pertinent committees of the American Society of Mechanical Engineers, American Petroleum Institute, American Welding Society, American Society of Civil Engineers, American Concrete Institute, American Society for Quality Control, and the American Bureau of Shipping.
Standardization Activities	The MMS participates in the preparation of the full range of engineering material and operational standards concerning offshore drilling and production of minerals. These standards are used internationally.
Availability	MMS Regulations and OCS Orders are sold by Government Printing Office and MMS.
Keywords	offshore minerals exploration; continental shelf; offshore platforms; energy; safety;

DEPARTMENT OF THE INTERIOR

U.S. GEOLOGICAL SURVEY

Information Systems Division
12201 Sunrise Valley Drive, 7A210
Reston, Virginia 22092
(703) 648-7108

Authority	43 U.S.C. 31, March 3, 1879 (USGS Organic Act), establishes the Geological Survey basic mission.
Implementation	A Memorandum of Understanding with the National Institute of Standards and Technology (NIST) dated February 1980 gives the U.S. Geological Survey (USGS) key agency responsibility for federal digital data standards in the earth sciences (geology, hydrology, cartography, geography).
Application	The USGS Data Standards Committee decides on applicable standards and their priority and establishes work

groups to draft such standards, has them reviewed, and forwards them to NIST as proposed Federal Information Processing Standards (FIPS).

**Adoption of
Nongovernment
Standards**

The USGS works with various professional organizations in the development of pertinent standards and uses them as much as possible. The organizations include: the American Public Health Association, American Water Works Association; Water Pollution Control Federation; American Association of Petroleum Geologists; American Society for Testing and Materials; Association of Official Analytical Chemists; Instrument Society of America; International Organization for Standardization; International Electrotechnical Commission; American Commission on Stratigraphic Nomenclature.

**Committee
Activity**

The USGS participates in pertinent committees of ANSI, ISO, and the U.S. Geographic Names Committee.

**Standardization
Activities**

A long-term program has been established to develop pertinent standards for data elements and their representation (name, definition, units of measure, digital coding methodology) in the earth sciences. After acceptance by the USGS and Department of the Interior, each standard is published as a USGS circular and sent to NIST as a proposed FIPS. Certain standards proposed as a FIPS are also introduced into the ANSI process as proposed national standards. The USGS recommends that established standards be used in all new and developing systems. All existing data systems should be modified in accordance with the standards at such time that future redesign or modification to the systems take place. To date, two standards have been accepted at USGS and proposed as FIPS: Codes for the Identification of Hydrologic Units in the United States and the Caribbean Outlying Areas, Geological Survey Circular 878-A, and Specifications for Representation of Geographic Point Locations for Information Interchange, Geological Survey Circular 878-B.

Availability

USGS Public Affairs Office; the USGS Branch of Distribution, 604 South Pickett Street, Alexandria, Virginia 22304; the USGS Data Administrator.

Keywords

earth sciences; geology; hydrology; cartography; topography; geography; data processing;

DEPARTMENT OF THE INTERIOR

U.S. GEOLOGICAL SURVEY

National Mapping Division
Office of Technical Management, Room 2B214
12201 Sunrise Valley Drive
Reston, Virginia 22092
(703) 648-4566

Authority	(1) 43 U.S.C. 31, March 3, 1879 (USGS Organic Act) and (2) Memorandum of Understanding, signed February 1980 by the National Institute of Standards and Technology (NIST) and U.S. Geological Survey (USGS), assign to the USGS the leadership in developing and maintaining earth-science data element and representation standards for use in the federal establishment. The National Mapping Division (NMD) develops and maintains digital cartographic data standards.
Implementation	Digital cartographic data standards are promulgated by issuance of Technical Instructions when approved for use within the USGS, and by publication as a Federal Information Processing Standard (FIPS) by NIST when approved for use throughout the federal establishment.
Application	Use is mandatory (within the USGS or the federal establishment, depending upon level of approval) for all new and developing systems that utilize data elements and representations described by the standard. All existing data systems will be modified in accordance with the standards when redesign and modifications to the system take place.
Committee Activity	The NMD participates in the Federal Interagency Coordinating Committee on Digital Cartography (FICCDC) Standards Working Group which is charged with coordinating and promoting activities for exchanging digital spatial data among federal agencies.
Standardization Activities	The USGS has taken the leadership role in the development of the Spatial Data Transfer Standard (SDTS) that will be submitted to NIST for adoption as a FIPS. The SDTS has been produced to meet the need for easy transfer of spatial data from one spatial data handling system to another. It is being promoted throughout the federal community by FICCDC, and once approved as a FIPS, will be used by the federal government to distribute spatial data. In addition to supporting the development of data exchange standards, the NMD has assembled and published Technical Instructions, including product standards and

data users guides that have been developed to govern the collection, archiving, and distribution of USGS digital cartographic data.

Availability

USGS Technical Instructions are available from the Earth Science Information Center, U.S. Geological Survey, 12201 Sunrise Valley Drive, Reston, Virginia 22092.

Keywords

cartography; geography; digital spatial data; spatial data transfer standard; data processing;

DEPARTMENT OF THE INTERIOR

U.S. GEOLOGICAL SURVEY

Water Resources Division
12201 Sunrise Valley Drive
Reston, Virginia 22092
(703) 648-5215

Authority

43 U.S.C. 31, March 3, 1879 (USGS Organic Act)

Implementation

U.S. Geological Survey (USGS) guideline documents for the collection and analysis of surface-water, ground-water, and water quality data include:

USGS Bulletin 17B, Guidelines for Determining Flood Flow Frequency; USGS Water Supply Paper No. 2175, Measurement and Computation of Streamflow: Volume 1. Measurement of Stages and Discharge; USGS Circular 878-A, Codes for the Identification of Hydrologic Units in the United States and the Caribbean Outlying Areas; USGS Techniques of Water-resources Investigation; and National Handbook of Recommended Methods for Water-Data Acquisition.

Application

Standards are voluntarily adopted by the Water Resources Division (WRD). All WRD offices and laboratories are reviewed on a scheduled basis and all quality assurance programs must reference the standards.

**Adoption of
Nongovernment
Standards**

Numerous nongovernment standards have been adopted by WRD. There is strong support for the development and use of consensus standards related to water resources data collection and analysis as developed by the International Organization for Standardization (ISO), the American Society for Testing and Materials (ASTM), and other groups.

**Committee
Activity**

WRD participates in pertinent committees of the following: Interagency Advisory Committee on Water

Data, Coordinating Committees of U.S. Geological Survey (USGS) with each of the following federal agencies: National Oceanic and Atmospheric Administration; Bureau of Land Management; and Environmental Protection Agency; and committees for the American Water Resources Association, National Water Well Association, American Society of Civil Engineers, American Public Health Association, ASTM, ISO, and the World Meteorological Organization (WMO).

**Standardization
Activities**

The USGS, as part of its implementation of OMB Circular A-67, has designated the Office of Water Data Coordination (OWDC) within WRD to identify methods used to acquire water data and to recommend methods for use by federal agencies. The OWDC accomplishes this with the advice and guidance of the IACWD. As of 1989, the IACWD, through OWDC, has published 10 chapters of the National Handbook of Recommended Methods for Water-Data Acquisition. The chapters include recommended methods on: 1. Surface Water, 2. Groundwater, 3. Sediment, 4. Biological and Microbiological Quality of Water, 5. Chemical and Physical Quality of Water, 6. Soil Water, 7. Drainage-Basin Characteristics, 8. Evaporation and Transpiration, 9. Snow and Ice, 10. Hydrometeorological Observations. Subcommittees of the IACWD periodically review and update the chapters.

WRD is cooperating with EPA, the Navy, and ASTM to accelerate the development of consensus standards for ground-water data collection, reporting, and analysis. WRD also develops standards, methods, and guidelines in the field of hydrology where no standards exist, to assure the reproducibility of analytical results and to give quality assurance to the programs and studies within WRD. WRD participates in the U.S. Geological Survey's interagency Data Standards Committee that identifies standards used within the agency.

Availability

Government Printing Office, and USGS Public Inquiries Offices.

Keywords

hydrology; surface water; ground water; water quality; data processing; public health;

DEPARTMENT OF JUSTICE

NATIONAL INSTITUTE OF JUSTICE

Technology Assessment Program

see DEPARTMENT OF COMMERCE

NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY
National Engineering Laboratory
Law Enforcement Standards Laboratory

DEPARTMENT OF LABOR

MINE SAFETY AND HEALTH ADMINISTRATION

Office of Standards, Regulations and Variances
4015 Wilson Boulevard, Room 627, BT #3
Arlington, Virginia 22203
(703) 235-1910

Authority	30 U.S.C. 811, November 9, 1977, The Mine Safety and Health Act of 1977, to provide for the health and safety of workers in the mining industry.
Implementation	Several hundred safety and health regulations are codified in 30 CFR, Chapter I. These requirements include specifications for obtaining approval of certain equipment used in mines, required work practices, and maximum exposure levels to hazardous substances.
Application	Federal inspectors visit mine sites to see that the health and safety standards are followed, and the standards are also applied through voluntary compliance. The standards also establish procedures and requirements for application within the Mine Safety and Health Administration (MSHA). MSHA also tests for approval and certification of certain products for use in potentially explosive underground mine atmospheres.
Adoption of Nongovernment Standards	Whenever practicable MSHA adopts nongovernment standards. The majority of these standards have been developed by the American Conference of Governmental Industrial Hygienists (ACGIH), the American National Standards Institute (ANSI), the American Society of Mechanical Engineers (ASME), the National Fire Protection Association (NFPA), and the Society of Automotive Engineers (SAE).
Qualification, Certification, Calibration	Manufacturers of certain equipment for use in underground mines with potentially explosive or atmospheres must submit their equipment to MSHA for approval and certification.
Committee Activity	MSHA has technical experts who participate on committees of the following: American National Standards Institute; American Conference of Governmental Industrial Hygienists; Institute of Electrical and Electronics Engineers; and National Fire Protection Association.
Standardization Activities	MSHA's standards are directed at improving the occupational safety and health of workers in the mining industry. These standards concern safe work practices, maximum exposure levels to hazardous substandard or

potentially harmful conditions, and performance criteria for the design of certain types of mining equipment. In 1983, MSHA's standards affected the working conditions of over 370,000 miners.

Availability

Sold by Government Printing Office and through a loose-leaf service offered by the Bureau of National Affairs, the Mine Safety and Health Reporter. Copies of specific standards may also be obtained directly from MSHA.

Keywords

coal mining; metal and nonmetal mining; underground mines; surface mines; equipment approval for gassy mines; energy; industrial equipment; health care; safety; testing;

DEPARTMENT OF LABOR

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

Directorate of Safety Standards Programs
200 Constitution Avenue, NW, Room N3605
Washington, DC 20210
(202) 523-8061

Authority

Occupational Safety and Health Act of 1970, PL 91-596

Implementation

29 CFR Part 1910 -- Occupational Safety & Health Standards for General Industry; 29 CFR Part 1915 -- Occupational Safety & Health Standards for Shipyard Employments;
29 CFR Part 1917-1918 -- Occupational Safety & Health Standards for Marine Terminals; Longshoring;
29 CFR Part 1926 -- Construction Safety & Health Standards;
29 CFR Part 1928 -- Occupational Safety & Health Standards for Agricultural Employments.

Application

Inspection of the workplace

**Adoption of
Nongovernment
Standards**

American National Standards Institute (ANSI)
National Fire Protection Association (NFPA)

**Qualification,
Certification,
or Calibration**

Throughout the OSHA standards, there are requirements for certain equipment to be listed, labelled, or approved by nationally recognized testing laboratories.

**Committee
Activity**

National Advisory Committee on Occupational Safety and Health
Standards Advisory Committee on Construction Safety and Health
American National Standards Institute

National Fire Protection Association
American Society for Testing and Materials
International Labor Organization

**Standardization
Activities**

The Occupational Safety and Health Administration (OSHA) develops and enforces occupational safety and health standards to provide protection to the nation's workers on their job. The standards are directed at the various hazards in which workers may be exposed. The purpose of the act is "to assure so far as possible every working man and woman in the nation safe and healthful working conditions and to preserve our human resources." OSHA adopted its initial standards on May 29, 1971 and they consisted of national consensus standards and the federal standards that were already in effect under other Department of Labor administered laws.

OSHA develops and promulgates occupational safety and health standards and issues regulations necessary for assuring compliance with its standards and regulations. The Directorates of Safety Standards Programs and Health Standards Programs have the main responsibility in carrying out these functions. When either of the Directorates determines a need, on the basis of information submitted by interested parties, scientific data from the field, or experience gained under other health and safety laws, the appropriate Directorate will develop new standards, revoke or modify existing standards using one of two procedures available. All regular proposals to promulgate, modify, or revoke an Occupational Safety and Health standard using the 6(b) procedure must be published in accordance with Administration Procedures Act (APA) requirements in the Federal Register to afford interested parties an opportunity to comment before the standard becomes effective or is revoked. A temporary emergency standards procedure (6(c) procedure) may be used to promulgate standards where the APA procedures are waived. Such a temporary emergency standard must be replaced by a 6(b) standard within 6 months.

In developing new standards or modifying standards, the Directorates of Safety or Health Standards determine whether there is a need for the establishment of a standards advisory committee to assist them in the standards-setting function. Once it is determined there is a need for a committee, one is appointed which consists of 5 to 15 members and is composed of representatives of management, labor, state and federal governments and the public. Advisory committee meetings are opened to the public and a transcript is made available for public review.

OSHA standards are contained in Title 29 of the Code of Federal Regulations: (1) General Industry, Part 1910, (2) Maritime, Parts 1915, 1917, and 1918, (3) Construction, Part 1926, and (4) Agriculture, Part 1928.

Availability Publications Office, OSHA, and Government Printing Office

Keywords safety; health; environment; electrical equipment; manufacturing; construction; shipyards; agriculture; machinery; business; emergency response;

LIBRARY OF CONGRESS

COLLECTIONS SERVICES

101 Independence Ave., SE,
Room 642, Madison Bldg.
Washington, DC 20540
(202) 707-5325

Authority Collection Services (by authority of the Library of Congress Regulation) has as its mission to develop qualitatively the Library's universal collections, which document the history and further the creativity of the American people, and which record and contribute to the advancement of civilizations and knowledge throughout the world; to acquire, organize, provide access to, maintain, secure, and preserve these collections. In achieving this mission, Collections Services takes part in the development and implementation of standards governing its technical services activities.

Implementation Collections Services voluntarily follows OMB Circular A-119 which specifies the use of voluntary standards developed outside the government and participation in the development of voluntary standards as required for office missions.

Adoption of Non-Government Standards The Library of Congress has adopted and applied the following guidelines and publications:

Dewey Decimal Classification: The Library of Congress Decimal Classification Division and Forest Press have agreed to develop and apply the Dewey Decimal Classification at the Library of Congress. The Dewey Decimal Classification schedule is applied on over 100,000 catalog records per year at the Library of Congress. Sixty thousand sets of the unabridged classification have been sold over the life of the edition (currently the 20th, 1989). Librarians choose

to use Library of Congress catalog records or apply the schedule themselves (primarily in public and school libraries).

Anglo-American Cataloging Rules: The standard for descriptive cataloging is developed by the international committee representing national libraries (including the Library of Congress) and the national library associations of Australia, Britain, Canada, and the United States

Library of Congress Rule Interpretations: The second editions (1989) provides an accumulation of all currently valid Library of Congress rule interpretations issued since the Anglo-American Cataloging Rules was published in 1978.

International Standard Bibliographic Description: The standard for the part of descriptive cataloging called bibliographic description is developed by the International Federation of Library Associations and Institutions (IFLA), of which the Library of Congress is a member. It includes a variety of standard numbers, such as International Standard Book Number (ISBN), International Standard Serial Number (ISSN), etc.

Paris Principles: The quasi-standard for that part of descriptive cataloging called access points, it is a set of guidelines adopted by the International Conference on Cataloging Principles held in Paris in 1961.

Library of Congress Subject Headings: The twelfth edition (1989) and monthly updates are developed by the Subject Cataloging Division in Collections Services. It includes over 175,000 authorized subject headings and subdivisions which are accepted as a library standard of "keywords."

Subject Cataloging Manual: Subject Headings: The third edition (1988) provides guidelines for cataloging as practiced by the Subject Cataloging Division of the Library of Congress and explains the rationale for assigning subject headings to specific works.

Subject Cataloging Manual: Shelflisting: Published in 1987, the manual functions as a practical source for shelflisters and catalogers who wish to create call numbers in the spirit of Library of Congress policy and practice. It also describes the procedures to follow when assigning Cutters.

Library of Congress classification schedules: The 45 separate schedules and updates give an authorized classification scheme for the arrangement of library materials by field of study. The Library of Congress system is used primarily by all university libraries, by some college and junior college libraries, and by some public libraries.

Library of Congress Filing Rules: The rules were developed by the Library of Congress to arrange bibliographic records (or catalog cards) in a basic alphabetical arrangement incorporating logic for application in computer files.

Standards developed by American National Standards Committees Z39, Libraries, Information Science, and Publishing, and X3, Information Processing.

Standards developed by International Organization for Standardization (ISO), Technical Committee (TC) 46, Documentation, and TC 97, Computer Information Processing.

The Library of Congress together with the American Library Association develops romanization systems for the major non-Roman alphabet languages. The tables have become the de facto standard of the North American library community.

MARC Formats: The Library of Congress is instrumental in the development of MARC (machine-readable cataloging) formats, which have been adopted as national and international standards. The MARC formats incorporate standards, such as cataloging rules and principles. The formats also include de facto standards for content designators.

Computer Protocols: Assist in establishing library and information community usage profiles.

Committee Activity

Collections Services participates in the committees or organizations responsible for the guidelines and publications listed above including:

- (1) Subject Analysis Committee, Resources and Technical Services Division (RTSD), American Library Association (ALA)
- (2) Committee on Cataloging: Description and Access, RTSD, ALA
- (3) Forest Press Committee
- (4) Decimal Classification Editorial Policy Committee

- (5) Joint Steering Committee for Revision of Anglo-American Cataloging Rules
- (6) NISO, X3, ISO/TC 46, and various related committees and councils
- (7) National Institute of Standards and Technology
- (8) International Serials Data System (ISDS), including its Governing Board and Directors
- (9) Serials Industry Systems Advisory Committee (SISAC)
- (10) Book Industry Systems Advisory Committee (BISAC)
- (11) Machine-Readable Form of Bibliographic Information Committee (MARBI)
- (12) International Federation of Library Associations and Institutions (IFLA)
- (13) Linked System Project (LSP) Committees

Standardization Activities

The Library of Congress:

- has principal responsibility for the development of standards for the interchange of bibliographic records (including the format of the data in those records, coded data such as language and country codes, character sets, and works with others on communication protocols);
- acts as the maintenance agency in the United States for the International Standard Serial Number standard and cooperates with the maintenance agency in the United States in the use of accurate International Standard Book Numbers;
- acts as maintenance agency for information retrieval protocol;
- is active in developing standards for data in bibliographic records, such as holding statements for serial publications;
- formulates official Library of Congress interpretations of cataloging rules; and
- distributes products of standardized cataloging and bibliographic activities in these formats:
 - a) catalog cards
 - b) MARC tapes

and bibliographic activities in these formats:

- a) catalog cards
- b) MARC tapes
- c) book catalogs, such as the
 - National Union Catalog
 - Music, Books on Music, Sound Recordings
- d) computer output microfiche catalogs, etc.
- e) CD-ROM products

Availability

Many of the publications listed above are available from the Library of Congress' Cataloging Distribution Service.

Manual on the Use of the Dewey Decimal Classification: Edition 20 and related publications are sold by Forest Press, 85 Watervliet Avenue, Albany, NY
The Anglo-American Cataloging Rules, 2nd edition are sold by the American Library Association.

Other standards are available from IFLA, ISO, NISO, etc.

Keywords

Dewey Decimal Classification; library classification; classification; libraries; cataloging; subject headings; thesaurus; language codes; Anglo-American Cataloging Rules; bibliographic control; MARC tapes; catalog cards; bibliographic data formats; ISSN; communication protocols; character sets; information processing;

LIBRARY OF CONGRESS

INFORMATION TECHNOLOGY SERVICES

10 First Street, SE
Washington, DC 20540
(202) 707-5114

Implementation

The Library of Congress (LC) pilot program began service operations in 1984, involving all forms of optical disks. A task was established to track the emerging standards in this area, document and identify those areas in which the lack of standards presents problems in information interchange on optical disk, and share findings with other research libraries and related institutions with which the Library would be likely to engage in such information interchange. The library has been represented on the ANSI-accredited standards committee X3B11 on Optical Digital Data Disks since its formation in April 1984 and has participated in international standards developments on the ISO SC 23 committee

Availability An aperiodic series of reports are planned as well as publication of findings in the open literature.

Keywords optical disk; videodisc; digital storage; magneto-optical disks; information processing; optics;

LIBRARY OF CONGRESS

NATIONAL LIBRARY SERVICE FOR THE BLIND AND PHYSICALLY HANDICAPPED

1291 Taylor Street, NW
Washington, DC 20542
(202) 707-5100

Implementation (1) Published the guidance document, Published Approved Recommendations on Working Out National Standards of Library Service for the Blind, August 1983. This was compiled and adopted by the Standards Development Committee, Section of Libraries for the Blind, Int'l. Federation of Library Associations.

(2) Published the guidance document Standards of Service for the Library of Congress Network of Libraries for the Blind and Physically Handicapped, revised 1984. This was developed and adopted by the Association of Specialized and Cooperative Library Agencies, the American Library Association.

Application The recommendations on Working Out National Standards are used by member countries in developing library service to the blind and in promoting international standards of service. The Standards of Service are used in evaluating the quality of library service provided by each library in a cooperating network either through self-evaluation or on-site inspections by representatives of the Library of Congress (LC), National Library Service for the Blind and Physically Handicapped (NLSBPH).

Committee Activity American Library Association, Committee on Standards.

Standardization Activities Reviews and approves proposed and existing standards for continued relevance to the state of library development and service for the blind and physically handicapped.

Availability (1) On request from Executive Secretariat, Office of the Director, National Library Service for the

Blind and Physically Handicapped, at the address above.

(2) Sold by the American Library Association, 50 E. Huron Street, Chicago, Illinois 60611.

Keywords

library service; library networks; blindness; physical handicaps; social welfare;

LIBRARY OF CONGRESS

PHOTODUPLICATION SERVICES

Washington, DC 20540
(202) 707-5650

Application

Photographic standards are specified in various conversion programs for preservation. Bibliographic standards are followed in appropriate divisions to promote more efficient transmission of information. Standards work for permanence of paper for printed library materials is a part of the Library's National Preservation Program.

**Adoption of
Nongovernment
Standards**

All new and revised ANSI PH1-5 standards (and those succeeded by IT9) are required for all preservation and conservation work involving photography. ANSI/AIIM standards are used for microphotography. ANSI/NISO standards are adopted for bibliographic and information-related work.

**Committee
Activity**

Various staff members serve on American National Standards (ANSI) committees and subcommittees, especially those dealing with photographic materials in PH1, PH4, and PH5 (some PH1 standards now are designated as IT9), as well as the Association for Information and Image Management (AIIM) which deals with microphotography and micrographics. In addition, staff members have participated in Z30 and Z39 standards activities, which involves, respectively, library work and publishing practice, and bibliographic description of microforms, serials, and technical reports, plus paper for printed library materials.

**Standardization
Activities**

As members of the committees listed above, staff members view and vote on the adoption of standards in those areas. Because no standards existed for micrographic reproduction when the Library of Congress had need of such standards, four specifications were developed for the microfilming of newspapers, books and pamphlets, library catalog cards, and manuscripts. The newspaper specification has since become ANSI/AIIM MS111-1987, Recommended Practice for Microfilming

Printed Newspapers on 35mm Roll Microfilm.

Availability

All Library of Congress microphotographic specifications have been reprinted and are available from the Association for Information and Image Management, 1100 Wayne Avenue, Silver Spring, MD 20910.

Keywords

reprographics; document reproduction; micrographics; preservation microfilming; photography; information processing;

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

OCCUPATIONAL HEALTH OFFICE

Mail Code NHG
600 Independence Avenue, SW
Washington, DC 20546
(202) 755-1275

Authority

- (1) Occupational Safety and Health Act of 1970 (29 U.S.C. 668).
- (2) Executive Order 12196, Occupational Safety and Health Programs for Federal Employees (10/1/80).
- (3) Department of Labor Regulations on Federal Employee Occupational Safety and Health Programs (29 CFR, Part 1960).
- (4) Occupational Safety and Health Standards and Provisions (20 CFR, Part 1910).
- (5) Office of Management and Budget Circular A-72.
- (6) Nuclear Regulatory Commission (10 CFR, Chapter 1).
- (7) Atomic Energy Act of 1954 (42 U.S.C. 2011).

Implementation

Alternative standards are promulgated under the Code of Federal Regulations, Title 20, Chapter XVII, Part 1960, Subpart C, Section 17 (29 CFR 1960.17). Supplementary standards can be adopted under 29 CFR 1960.18.

Application

Health standards are employed in the recognition, evaluation, and control of workplace hazards by industrial hygienists and physicians at each National Aeronautics and Space Administration (NASA) Center.

**Adoption of
Nongovernment
Standards**

The threshold limit values published by the American Conference of Governmental Industrial Hygienists have been adopted by NASA for evaluating exposures to chemical substances and physical agents.

Standardization Activities	The NASA Headquarters Occupational Health Office is active in the preparation of policies, program elements, procedures, guidelines, and health protection standards. Documents cover occupational medicine, industrial hygiene, and environmental health activities. These documents are utilized at each of the 14 NASA facilities nationwide.
Availability	NASA Headquarters Occupational Health Office. Other NASA documents on medical and workplace surveillance are available through National Technical Information Service.
Keywords	occupational medicine; environment; industrial hygiene; health care;

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

SAFETY, RELIABILITY, MAINTAINABILITY AND QUALITY ASSURANCE DIVISION

Room B336, FB 10
Washington, DC 20546
(202) 453-2633

Authority	Title 10, U.S.C. Chapter 145 and Department of Defense Directive 4120.3
Implementation	<ul style="list-style-type: none"> (1) Memorandum of Understanding Between the Department of Defense (DoD) and the National Aeronautics and Space Administration (NASA) Concerning NASA's Participation in the Defense Standardization Program. (2) NASA Management Instruction NPD 5320.5, Basic Policy for Electronic Parts. (3) NASA Handbook NHB 5300.4(1A), Reliability Program Provisions for Aeronautical and Space Contractors. (4) NASA Handbook NHB 5100.2, NASA Procurement Regulations.
Application	Implementation of NASA standards, instructions and handbook is through purchase orders, product qualifications, and manufacturing line certification.
Adoption of Nongovernment Standards	ASTM test methods are used in MIL-STD-977 as alternates to military standard test methods and procedures for certification of microcircuit production lines.

Qualification, Certification, or Calibration	Qualification and certification to various military specifications is accomplished jointly with Defense Electronic Supply Center under the DoD Defense Standardization Program.
Committee Activity	Observer to the Department of Defense advisory group on Qualified Products Lists Policy and Procedures. Custodian/Preparing Activity to various military specifications and standards in the Federal Supply Class 59 (Electrical).
Standardization Activities	Established a NASA Standard Parts Program (NSPP) in 1974. The program is administered by the Office of the Chief Engineer at NASA Headquarters and operated by the Marshall Space Flight Center. Standardization concentrates on extended reliability electronic parts with MIL-STD-975, NASA Standard Parts List (NSPL), as the baseline document. The Program uses the DoD specification and standards system but makes in depth analyses of part before approving for the NSPL. It has worked closely with the Air Force to develop a quality level of parts for use in critical space applications that is designated class "JAN S."
Availability	NASA handbooks are available from Government Printing Office. NASA prepared military specifications and standards are available from Naval Publications and Forms Center.
Keywords	aerospace; high reliability; parts control; electronic parts;

NATIONAL ARCHIVES AND RECORDS ADMINISTRATION

	Archival Research and Evaluation Staff 8th and Pennsylvania Avenue, NW, Room 14N Washington, DC 20408 (202) 501-5540
Authority	44 U.S.C. 2101 et seq., April 1, 1985, the Archivist of the United States shall provide for the preservation of federal records of continuing value. As provided in 44 U.S.C. chapters 29 and 33, the Archivist of the United States is authorized to establish standards for the production and reproduction of records by federal agencies.
Implementation	Standards for micrographics are codified as regulations in 36 CFR, Part 1230.
Application	National Archives and Records Administration (NARA) requires agencies to produce and maintain microfilm of permanent records according to production and

maintenance standards.

**Adoption of
Nongovernment
Standards**

NARA has adopted ANSI standards for photographic materials as the basis of regulations.

**Qualification,
Certification,
or Calibration**

Agencies are to certify that the permanent record film they produce meets ANSI standards.

**Committee
Activity**

NARA participates in pertinent committees of the following: Accredited Standards Committees PH1 (Photographic Films, Plates, and Papers) and PH4 (Photographic Processing Procedures), and Library, Documentation, and Related Publishing Practices (Z39).

**Standardization
Activities**

NARA is active in the preparation of standards concerned with the manufacturing, processing, and storing of materials used to maintain permanently valuable information of the federal government. This includes paper, film, optical disk, and magnetic tape. NARA observes, analyzes, and may recommend or require data exchange standards for the transfer and storage of permanent federal records in electronic form. Standards and specifications of national standardizing groups are utilized to the maximum extent. Where they are not adequate, NARA prepares regulations for federal agencies.

Availability

Federal Register

Keywords

permanent records; preservation; film; paper; magnetic tape; archives; data; data exchange standards; Information Resources Management Standards; photography; optical disk;

NUCLEAR REGULATORY COMMISSION

NUCLEAR REGULATORY RESEARCH

Room 154, NLBS
Washington DC 20555
(301) 492-3700

**Adoption of
Nongovernment
Standards**

Many Nuclear Regulatory Commission (NRC) guides refer to or endorse national standards that are developed by recognized national organizations, i.e., ANSI, ASTM, ASME, often with NRC participation. NRC makes use of a national standard in the regulatory process only after an independent review by the NRC staff and after public comment on NRC's planned use of the standard has been reviewed.

**Committee
Activity**

NRC participates on more than 300 interagency, nongovernmental, and international standards committees. The NRC staff is active in national standards programs, particularly with respect to setting priorities. NRC participation derives from a need for national standards to define acceptable ways of implementing the NRC's basic safety regulations. Approximately 200 NRC staff members serve on working groups organized by technical and professional societies.

**Standardization
Activities**

NRC standards are primarily of two types -- Regulations and Regulatory Guides.

Regulations set forth requirements that must be met by NRC licensees in Title 10, Chapter I, of the Code of Federal Regulations. When NRC proposes new or amended regulations, they are normally published in the Federal Register to allow interested person time for comment before they are adopted. This is required by the Administrative Procedure Act. Following the public comment period, the regulations are revised, as appropriate, to reflect the comments received. Once adopted by the NRC, they are published in the Federal Register in final form, with the date they became effective. After that publication, rules are codified and included annually in the Code of Federal Regulations.

Regulatory Guides are issued to describe and make available to the public such information as methods acceptable to the NRC staff for implementing specific parts of the Commission's regulations, techniques used by the staff in evaluating specific problems or postulated accidents, and data needed by the staff in its review of applications for permits and licenses. Regulatory Guides are not substitutes for regulations, and compliance with them is not required.

The guides are issued in the following ten broad divisions: Power Reactors, Research and Test Reactors, Fuels and Materials Facilities, Environmental and Siting, Materials and Plant Protection, Products, Transportation, Occupational Health, Antitrust and Financial Review, and General. NRC issues the guides for public comment in draft form before an official staff position has been established. Regulatory guides may also be withdrawn when changes make them obsolete.

Keywords

energy; nuclear; reactors; environment; radiation; safety;

DEPARTMENT OF STATE

U.S. NATIONAL COMMITTEE FOR THE INTERNATIONAL TELEGRAPH
AND TELEPHONE CONSULTATIVE (CCITT)

Bureau of International Communications and Information
Policy, Telecommunications and Information Standards
Directorate
Room 6317 N.S.
2201 C Street, NW
Washington, DC 20520
(202) 647-5220 FAX: (202) 647-7407

Application

Voluntary standards (CCITT Recommendations) for telecommunications equipments, networks and services are issued by the International Telecommunications Union, a specialized agency of the United Nations, for use by each nation, according to its needs and laws. The current CCITT Recommendations (standards) are identified as the "Blue Books." There are over 19,000 pages, covering the CCITT Plenary or study period starting in 1989 and running through the next Plenary Assembly presently scheduled for 1992.

**Adoption of
Nongovernment
Standards**

Within the United States, the vast majority of telecommunications standards are produced by industry participants and organizations. Typical of these organizations are AT&T, MCI Telecommunications, NYNEX, Bell South, the IEEE, TIA, CBEMA, and ANSI T1 Committee. Twenty-three government agencies participate in these organizations as active players and users.

**Committee
Activity**

Industry participants with an interest in telecommunications may join the CCITT and/or the U.S. National Committee of the CCITT at their own initiative, under the authority of the Department of State which represents the United States as the telecommunications Administration in the treaty organization - the ITU. They may also petition the FCC for recognition as a Recognized Private Operating Agency and may choose to join the CCITT and/or the U.S. National Committee of the CCITT.

The U.S. National Committee develops technical, operational and accounting contributions from U.S. industry (both government and private sector) for approval and submission to the CCITT as U.S. contributions. The U.S. Delegation to the CCITT is usually chaired by a representative of the Department of State. The chair speaks for the United States at the international sessions and meetings of the CCITT

where the final version of the standards are negotiated.

**Standardization
Activities**

Telecommunications standards may be initiated by a person or company primarily through one of the U.S. technical committees such as IEEE, ANSI T1, CBEMA, TIS, etc. (many contributions - mostly non-technical - begin their process directly at the U.S. CCITT Study Group level). These contributions are developed to maturity by these bodies, and are submitted for consensus vote in their respective arenas. They are then submitted by a company, committee, or person to the U.S. National Committee for consensus at the U.S. National Committee level. With consensus, the contribution becomes a U.S. source document for the attention of the CCITT. The nations of the CCITT will develop the standard further and finally arrive at consensus at an international meeting. The contribution then becomes a CCITT standard.

Availability

The CCITT Standards are sold by the ITU. They are also available for local sale.

Keywords

telecommunications; telephone; data communications; Integrated Services Digital Network (ISDN); telematics; ITU;

DEPARTMENT OF TRANSPORTATION

FEDERAL AVIATION ADMINISTRATION

Program Management Division
800 Independence Avenue, SW
Washington, DC 20591
(202) 267-8315

Authority

The Federal Aviation Administration (FAA) was created under Title 6 of the Federal Aviation Act of 1958 to provide for the regulation and promotion of civil aviation in such a manner as to best foster its development and safety, and to provide for the safe and efficient use of the airspace by both civil and military aircraft. The Federal Aviation Regulations are promulgated under Title 14 of the Code of Federal Regulations. The first regulation and civil aviation standards originated with the passage of the Air Commerce Act of 1926.

Implementation

FAA standards are either regulatory or non-regulatory in nature. Those in the former category are found in the various numbered parts of the Federal Aviation Regulations (FAR's) and as such are subject to review in accordance with the Administrative Rulemaking

Procedures in which the public participates. Regulatory announcements and Notices of Proposed Rulemaking are published in the Federal Register. The non-regulatory standards generally contained in the FAA Advisory Circulars (AC's) serve principally as the means of providing safety information to the public with respect to aircraft operations or a related aeronautical interest. Non-regulatory circulars also provide the public with guidelines in meeting regulatory requirements.

**Standardization
Activities**

Regulations and standards are developed and administered by various offices and services within FAA. The Associate Administrator for Aviation Standards is responsible for most of the regulatory material which includes the certification, operations, and maintenance of aircraft, engines, propellers, and aircraft equipment; licensing of airmen and airman aeromedical standards; for aircraft operational procedures, and the certification of schools, repair stations, and parachute lofts; and for airport and air carrier security. The Air Traffic Service is responsible for regulations and standards governing airspace utilization, air traffic control and procedures, and for the establishment and installation of navigational facilities. The Associate Administrator for Airports is responsible for regulations and standards concerning airport certification and airport grants; and the Associate Administrator for Policy and International Aviation for aircraft noise standards.

Availability

The Federal Aviation Administration periodically publishes a revised Advisory Circular Checklist (AC00-2) and Status of the Federal Aviation Regulations (AC00-44) which list current AC's and FAR's. These may be obtained free of charge from the address above. Regulations may be purchased from the Government Printing Office.

Keywords

aviation; aircraft; engines; air traffic control; airports; noise; environment; transportation; safety;

DEPARTMENT OF TRANSPORTATION

FEDERAL HIGHWAY ADMINISTRATION

Office of Engineering, Highway Design, HNG-14
400 7th Street, SW
Washington, DC 20590
(202) 366-1327 or (202) 366-4853

Authority	23 U.S.C. 109, 315 and 402; 49 CFR 1.48(b) unless otherwise noted Source 43 FR16832, May 7, 1986 unless otherwise noted.
Implementation	23 CFR Part 625 - Design Standards for Highways
Application	Standards, specifications, policies, guides and references are approved by the Federal Highway Administration for application on federal-aid projects. The regulation (23 CFR 625) does not establish federal standards for work that is not federally funded; however, the safety related criteria of the referenced documents are established as goals for developing state and local Safety Programs Standard 12, 23 CFR, Part 1204.4.
Adoption of Nongovernment Standards	Of the 42 publications and references noted in 23 CFR, Part 625, 29 were developed by American Association of State Highway and Transportation Officials (AASHTO); one by the American Welding Society; and two by the Transportation Research Board and the remaining 10 are Federal Highway Administration publications or references.
Committee Activity	The Federal Highway Administration participates in pertinent committees of the American Association of State Highway and Transportation Officials.
Standardization Activities	<p>The Federal Highway Administration approves the engineering standards and specifications which are used on federal-aid projects. In addition these approved references are cited as goals for developing safety programs for all public highways as required by standard 12, 23 CFR, Part 1204.4. Because of these two well established uses, numerous other state and local highway related organizations employ the referenced documents directly or extract significant portions in the development of their own standards and specifications.</p> <p>The standards and specifications of the American Association of State Highway and Transportation Officials, which is an organization made up of the state highway agencies plus those agencies in Puerto Rico and the District of Columbia and thus is viewed as the national highway organization, are utilized to the maximum extent practicable. Where such standards and specifications do not exist or where they do not adequately provide for the federal interest, the Federal Highway Administration prepares new or supplemental documents to provide for the needs of its federal-aid program.</p>
Availability	Federal Highway Administration

Keywords highways; bridges; traffic control; design; materials; construction; transportation;

DEPARTMENT OF TRANSPORTATION

FEDERAL HIGHWAY ADMINISTRATION

Office of Environmental Policy
400 7th Street, SW
Washington, DC 20590
(202) 366-2045

Authority 23 U.S.C 109(i) - The Federal-Aid Highway Act of 1970 requires that noise be considered in the development of new highway projects and that standards for highway noise levels compatible with various land uses be developed and implemented.

Implementation The noise standards mandated by 23 U.S.C 109(i) are codified in 23 CFR, Part 772. The standards provide procedures for noise studies and noise abatement measures to help protect the public health and welfare, supply noise abatement criteria, and establish requirements for information to be given to local officials for use in the planning and design of highways approved pursuant to Title 23, United States Code (U.S.C.).

Application The standards apply to any proposed federal or federal-aid highway project for the construction of a highway on new location or the physical alteration of an existing highway which significantly changes either the horizontal or vertical alignment or increases the number of through-traffic lanes. They also apply to any proposed federal or federal-aid project for noise abatement on an existing highway.

Committee Activity The Federal Highway Administration participates in pertinent committees of the American Association of State Highway and Transportation Officials, Transportation Research Board, and Society of Automotive Engineers.

Standardization Activities The Federal Highway Administration (FHWA) is active in the preparation and implementation of highway traffic noise and construction noise standards for the planning, design, and construction of federal-aid funded highways. These highways are constructed by state and local highway agencies.

The FHWA coordinates the preparation of the standards with the Environmental Protection Agency, other federal

agencies, the states, and the public.

The public who lives next to federal-aid funded highways receive the benefit of a substantial reduction in highway traffic noise if the states determine that noise abatement is reasonable and feasible.

FHWA standards have produced over 380 miles of noise barriers to reduce highway traffic noise in residential areas, schools, hospitals, and parks.

Availability

Code of Federal Regulations, Title 23, part 772 is available from the Government Printing Office.

Keywords

highways; traffic; construction; land use; pollution; environment; noise control; transportation;

DEPARTMENT OF TRANSPORTATION

FEDERAL HIGHWAY ADMINISTRATION

Office of Highway Operations - HHO-1
400 7th Street, SW
Washington, DC 20590
(202) 426-0340

Authority

U.S.C. Title 23, Highways; more specifically Sections 106 (Specifications), 109 (Standards), 112 (Letting of Contracts), 114 (Construction), and 116 (Maintenance).

Implementation

23 CFR 625.3 and 49 CFR

Application

Construction, maintenance, materials, and contracting regulations, standards, and practices are applicable to all federally funded highway projects both on and off the federal-aid highway systems. Projects may be administered by the Federal Highway Administration, state highway agency, or local governments. Application and compliance of accepted standards and specifications is assured by on-site inspection, process and product reviews and other management techniques.

**Adoption of
Nongovernment
Standards**

The Federal Highway Administration actively participates with industry and state highway agency organizations in the development and implementation of highway construction, material, and maintenance standards and specifications including the American Association State Highway and Transportation Officials, American Society for Testing and Materials, and the Institute of Traffic Engineers.

Qualification, Certification, or Calibration	Actual project standards/specifications are developed by each administering agency (state or local) and are reviewed and approved by the Federal Highway Administration. The general guidance provided by the above noted standards is used as a basis for the locally developed standards/specifications.
Committee Activity	The Federal Highway Administration is actively involved in industry/state highway agency organizations which develop the national standards cited in the CFR. Committees include both management and technical functions of the American Association of State Highway and Transportation Officials, American Society for Testing and Materials, Institute of Traffic Engineers, American Society of Civil Engineers, National Society of Professional Engineers, and American Road and Transportation Builders Association, etc.
Standardization Activities	The Federal Highway Administration administers the federal-aid highway program and continuity of the national highway network from a third party approach. Although seldom the contracting authority, by serving as the nucleus for the highway industry, the Federal Highway Administration assures reasonable standardization without stymieing creativity and new methods development. This approach allows the state highway agency and local governments the maximum flexibility practical while still attaining national uniformity.
Availability	Federal Highway Administration, Government Printing Office, American Association of State Highway and Transportation Officials, and local/state highway agencies.
Keywords	highways; bridges; construction; materials; contracting; traffic control; safety; transportation;

DEPARTMENT OF TRANSPORTATION

FEDERAL HIGHWAY ADMINISTRATION

Office of Motor Carriers
 400 7th Street, SW
 Washington, DC 20590
 (202) 366-2519

Authority	Authority to regulate the qualifications and maximum hours of service of employees, the licensing standards for commercial drivers, and safety of operations and equipment is specified in 49 U.S.C. 3102, 3104, and 49 U.S.C. App. 2505, 2701-2716.
	Authority to regulate the transportation of hazardous

materials is provided by the Hazardous Materials Transportation Act - 49 U.S.C. 1801-1813.

Authority to enforce EPA noise control standards applicable to interstate motor carriers is specified in the Noise Control Act - 42 U.S.C. 4917.

Authority to require motor carriers to maintain minimum levels of financial responsibility is specified in 49 U.S.C. 10927 note.

Authority to establish certain federal size limits for commercial motor vehicles is provided by the Surface Transportation Act of 1982 - 49 U.S.C. App.2311,2316.

Authority to penalize States that fail to enforce federal weight limits on the Interstate Highway System is specified in 23 U.S.C. 127.

Implementation

Mandatory regulations are codified in Title 49 and 23 of the Code of Federal Regulations. The rules in Title 49 range from the Federal Motor Carrier Safety Regulations (FMCSRs) [Parts 390-399], including the hours of service of drivers [Part 395], to compliance with interstate noise emission standards [Part 325], minimum levels of financial responsibilities [Part 387], and the transportation of hazardous materials [Parts 171-173, 177-178]. They cover interstate motor carriers of passengers and property, as well as their vehicles and drivers.

In addition, Commercial Drivers's License (CDL) standards are codified in 49 C.F.R. Part 383 and apply to States, employers, and all drivers of commercial motor vehicles having a gross vehicle weight rating over 26,000 lbs., designed to carry 16 or more persons, or needing placarding for hazardous materials. Unlike other Parts of the FMCSRs, the CDL regulations apply without distinction to inter- and intrastate transportation. CDL provisions include a prohibition on multiple licenses; testing and licensing procedures which States and drivers must follow; employer responsibilities; mandatory driver disqualifications for alcohol, drug, and other serious traffic violations and felonies; and a nationwide information clearinghouse on commercial drivers.

Vehicle size and weight regulations and state certification requirements are codified in 23 C.F.R. 657-658. These include regulation of vehicle lengths and widths on the National Network for large trucks (published in Appendix A to Part 658) which consists of the Interstates and other designated federal-aid Primary highways.

Application

Office of Motor Carrier Safety specialists conduct safety and compliance reviews of motor carriers and hazardous materials shippers. They also conduct roadside inspections of vehicles and of drivers' required paperwork. Vehicles and/or drivers not in compliance with the FMCSRs are placed out of service where certain hazards to safety increase the likelihood of an accident.

Office of Motor Carrier transportation specialists review state compliance with the CDL program as well as States' certifications that they are enforcing federal size and weight limits and all state laws on federal-aid highways in the State.

Adoption of Standards

The FMCSR and the CDL standards have been adopted in whole or in part by most of the states. CDL program implementation is mandatory for each State, to avoid a reduction in highway funding. States are required to test and issue CDLs to all drivers of commercial motor vehicles prior to April 1, 1992. Supplemental grants to assist in CDL implementation are available to States based on the number of CDL tests given and licenses issued. Also, States applying for funding under the Motor Carrier Safety Assistance Program (MCSAP) are required to have adopted the FMCSRs or have compatible state safety regulations.

Each state must enforce the federal size and weight requirements on their Interstate highways. They must enforce the federal size requirements on their National Network highways. States are required to certify annually that they are enforcing their size and weight laws on all of their federal-aid highways. States whose enforcement efforts on federal-aid highways are inadequate may lose 10-percent of their federal-aid highway funds.

Availability

FHWA regulations are available from the Government Printing Office and several private organizations.

Keywords

commercial motor vehicles; motor carrier; commercial drivers license; hazardous materials; bus; truck; driver qualifications;

DEPARTMENT OF TRANSPORTATION**FEDERAL HIGHWAY ADMINISTRATION**

Office of Traffic Operations
400 7th Street, SW
Washington, DC 20590
(202) 366-0411 or (202) 366-0372

Authority	23 U.S.C. 109, Standards, December 20, 1944, the Federal-Aid Highway Act of 1944.
Implementation	23 CFR 655, Subpart F, Traffic Control Devices on federal-aid and other streets and highways. A set of national standards have been developed and approved by the Federal Highway Administrator in cooperation with the state highway agencies. These standards are contained in the Manual on Uniform Traffic Control Devices (MUTCD). The Federal Highway Administration will only approve state or other federal agency MUTCDs (or supplements) that are in substantial conformance with the national MUTCD.
Application	The standards contained in the MUTCDs apply to all highways open to public travel.
Committee Activity	<p>The MUTCD was developed with cooperation of the:</p> <p>National Committee on Uniform Traffic Control Devices American Association of State Highway and Transportation Officials Institute of Transportation Engineers National Committee on Uniform Traffic Laws and Ordinances National Association of Counties National Association League of Cities National Association of Governors' Highway Safety Representatives International Association of Chiefs of Police, Inc. National Electrical Manufacturers Association American Road and Transportation Builders Association International Bridge, Tunnel, and Turnpike Association</p>
Standardization Activities	<p>Existing Highways -- Each state, in cooperation with its political subdivisions, and federal agencies shall have a program which shall include provisions for the systematic upgrading of substandard traffic control devices and for the installation of needed devices to achieve conformity with the MUTCD.</p> <p>New or Reconstructed Highways -- federal-aid projects for the construction, reconstruction, resurfacing, restoration, or rehabilitation of streets and highways shall not be opened to the public for unrestricted use until all appropriate traffic control devices, either temporary or permanent, are installed and functioning properly. Both temporary and permanent devices shall conform to the MUTCD.</p> <p>Construction Area Activities -- All traffic control devices installed in construction areas shall conform to the MUTCD.</p>

Availability	The MUTCD is available from the Government Printing Office
Keywords	traffic control devices; curb and pavement markers; regulatory signs; warning signs; public safety; transportation;

DEPARTMENT OF TRANSPORTATION

MARITIME ADMINISTRATION

Office of Ship Construction, Division of Naval Architecture
400 Seventh Street, SW, Room 2109
Washington, DC 20590
(202) 366-5836

Authority	The development of guidance specifications for ship construction was first authorized May 20, 1960, by the Federal Maritime Board.
Implementation	There are three shipbuilding guidance specifications which are for voluntary use: (1) Standards Specifications for Merchant Ship Construction PB 290400; (2) Standards Specifications for Diesel Merchant Ship Construction PB 257261; (3) Standards Specifications for Slow Speed Diesel Merchant Ship Construction.
Application	The guidance specifications are for voluntary use by shipbuilders.
Adoption of Nongovernment Standards	Those referred to include: American Society for Testing and Materials (ASTM), American Society of Mechanical Engineers (ASME), Heat Exchange Institute, and American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE).
Qualification, Certification, or Calibration	There are no specific requirements for use of the guidance specifications.
Committee Activity	American Society for Testing and Materials
Standardization Activities	Active in the preparation of consensus shipbuilding standards through ASTM.
Availability	National Technical Information Service
Keywords	shipbuilding specifications; transportation;

DEPARTMENT OF TRANSPORTATION

NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION

see DEPARTMENT OF COMMERCE

NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY
National Engineering Laboratories
Law Enforcement Standards Laboratory

DEPARTMENT OF TRANSPORTATION

RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION

Office of Pipeline Safety, Standards Division
400 7th Street, SW
Washington, DC 20590
(202) 426-2392

Authority	Natural Gas Pipeline Safety Act of 1968 (49 U.S.C. 1671 et seq.)
	Hazardous Liquid Pipeline Safety Act of 1979 (49 U.S.C. 2001 et seq.)
Implementation	Standards for pipelines that carry natural gas or gas that is flammable, toxic, or corrosive are in 49 CFR, Part 192.
	Standards for liquified natural gas (LNG) plants are in 49 CFR, Part 193.
	Standards for interstate pipelines carrying hazardous liquids, such as petroleum, petroleum products, or anhydrous ammonia are in 49 CFR, Part 195.
	Regulations to require an anti-drug program for pipeline & LNG plant employees that perform operation, maintenance and emergency-response functions are in 49 CFR, Part 199.
Application	Standards are binding on pipeline operators by law. Federal and state inspectors visit operators' facilities to check on compliance.
Adoption of Nongovernment Standards	The federal standards incorporate by reference parts of nongovernment developed standards, principally API, ASTM, ANSI and NFPA.
Committee Activity	The Office of Pipeline Safety sponsors two advisory committees: The Technical Pipeline Safety Standards Committee and the Technical Hazardous Liquid Pipeline Safety Standards Committee. These committees advise on

proposed rule making activities.

Staff members participate in or are members of various nongovernment standards setting committees, including those of the ASME, API, and NFPA.

**Standardization
Activities**

Standards cover design, construction, operation, and maintenance of pipelines. Benefits derive from savings in life and property damage, including environmental damage in the case of oil spill prevention. Original standards were based on standards widely followed by industry. Subsequent efforts have been directed toward improvements needed for safety as demonstrated by accident statistics, and toward changing regulations that are not cost beneficial.

Availability

Sold by Government Printing Office, and very small quantities available from Office of Pipeline Safety

Keywords

safety; gas; hazardous liquids; pipeline; LNG plants; design; construction; operation; maintenance; corrosion control; transportation; drugs; petroleum;

DEPARTMENT OF TRANSPORTATION

UNITED STATES COAST GUARD

Office of Marine Safety, Security and Environmental Protection
2100 Second Street, SW
Washington, DC 20593-0001
(202) 267-2200

Authority

Maritime shipping laws related to vessels and seamen are codified and enacted into positive law as Subtitle II of Title 46, United States Code, 2101 through 13110.

Implementation

Mandatory standards for commercial vessel construction and operation, as well as manning and personnel licensing, are codified in 46 and 33 CFR. Program is administered under the direction of the Chief, Office of Merchant Marine Safety, U.S. Coast Guard (USCG) Headquarters. A system of district and local port offices (marine safety offices/officers in charge, marine inspection) provide inspection and licensing services to assure compliance with the standards and regulations by shipyards, vessel operators, and merchant mariners.

Application

USCG inspectors periodically inspect commercial, foreign, and domestic vessels to assure compliance.

**Adoption of
Nongovernment
Standards**

USCG commercial vessel safety regulations incorporate a wide variety of nongovernment standards by reference.

**Committee
Activity**

The Office of Merchant Marine Safety, Security and Environmental Protection participates in those standards developing committees whose standards are used by, or affect, the merchant marine. These include the International Maritime Organization (IMO), ISO, and IEC, as well as the Society of Naval Architects and Marine Engineers (SNAME), American Bureau of Shipping (ABS), ASTM, ASME, API, UL, and a dozen other domestic organizations.

**Standardization
Activities**

USCG commercial vessel safety standards are incorporated into the United States Code of Regulations, Titles 46 and 33. The marine inspection program's regulatory approach includes active participation in voluntary standards programs. By actively participating in voluntary standards, the Coast Guard raises issues of public interest and can speak for the public in matters of safety. Also, where industry or owners have not set necessary safety requirements, the Coast Guard can catalyze their development.

Availability

Sold by Government Printing Office

Keywords

ship design; safety; hazardous material; marine engineering; naval architecture; inspection; stability; fire protection; merchant marine; transportation;

DEPARTMENT OF TRANSPORTATION

UNITED STATES COAST GUARD

Recreational Boating Product Assurance Branch (G-NAB-6)
Auxiliary, Boating, and Consumer Affairs Division
Washington, DC 20593-0001
(202) 267-0984

Authority

Federal Boat Safety Act 1971 (46 U.S.C. 43)

Implementation

Standards issued to date are in 33 CFR Part 183 and include:

- (1) Display of Capacity Information
- (2) Safe Loading
- (3) Safe Powering
- (4) Basic Flotation
- (5) Level Flotation
- (6) Electrical Systems
- (7) Fuel Systems

- (8) Ventilation
- (9) Start-In-Gear Protection

Application	Boating safety standards are published as mandatory rules in accordance with the Administrative Procedures Act (APA). Final rules become a part of the Code of Federal Regulations. Each proposed rule and each final rule is published in the Federal Register.
Committee Activity	Staff members serve on various committees of the American Boat and Yacht Council, Society of Automotive Engineers, National Fire Protection Association, and American Bureau of Shipping.
Standardization Activities	The Auxiliary, Boating, and Consumer Affairs Division is responsible for the development of regulations related to boating safety. The Recreational Boating Product Assurance Branch of the division is responsible for the development of safety standards for recreational boats and associated equipment. Safety standards must be based upon a demonstrated need. This need is frequently related to research involving actual boating safety problem areas. Problem areas are identified from sources such as the Boating Accident Reports, State Accident Reports, Coast Guard District Reports, Defect Notification Reports, and consumer complaints. Specific problems are identified, categorized, and subdivided into specific project areas for standards development.
Availability	The volume, 33 CFR Parts 1 to 199, is available from the Superintendent of Documents, U.S. Government Printing Office
Keywords	recreational; boats; inboard engine; outboard motor; sterndrive unit;

DEPARTMENT OF THE TREASURY

BUREAU OF ALCOHOL, TOBACCO, AND FIREARMS

National Laboratory Center
1401 Research Boulevard
Rockville, Maryland 20850
(301) 294-0410

Authority	Various laws relating to the production, storage, and taxation of alcohol and tobacco products, firearms, and explosives.
Implementation and Application	Standards have been established by the Bureau of Alcohol, Tobacco and Firearms (BATF) Laboratories, which apply to hydrometers, thermometers, and William's

test tubes supplied to the Bureau for testing the alcoholic content of beverages. Although these standards are not usually published, they are supplied to bidders for manufacturing contracts.

In cooperation with various industry segments, BATF prescribes and enforces standards of identity for alcoholic beverages. These standards are established by regulations applicable to all such beverages produced in or imported into the United States. Standards for the various classes of wines are published at 27 CFR, Part 4; those for distilled spirits are published at 27 CFR, Part 5.

The BATF Laboratories set specifications for ethyl alcohol, denatured alcohol, proprietary solvents, and special industrial solvents. These are incorporated in Federal Specification O-E-760B, issued by the General Services Administration. Through regulations issued by BATF at 27 CFR, Parts 211 and 212, these specifications are applicable to the production of these products in the United States.

The standards of identity for small cigars, as defined in 26 U.S.C. 5702 and in regulations issued by BATF at 27 CFR, Part 270, are further established by laboratory test procedures set up by the BATF Laboratories. These analytical tests are utilized to enforce these standards for small cigars, as differentiated from cigarettes, upon all such products consumed within the United States.

Additionally, the Bureau sets specifications relating to construction of storerooms for explosive materials. These specifications are published in 27 CFR, Part 181.

Availability

National Laboratory Center, BATF. The CFR is available from the Government Printing Office

Keywords

instruments; beverages; testing; materials;

DEPARTMENT OF THE TREASURY

INTERNAL REVENUE SERVICE (IRS)

Office of Standards and Data Administration (ISD:I:S)
Room 802, BXR-5
1111 Constitution Avenue, NW
Washington, DC 20224
(703) 756-6381

Authority

Treasury Directive 87-01 (TD 87-01), Information Systems Standards Program, states that it is the policy

of the Department of Treasury to comply with all mandatory Federal Information Processing Standards (FIPS) and Federal Telecommunications Standards (FED-STDs) and other information systems standards and guidelines to the extent they are determined to be cost-effective and appropriate for the intended use.

Implementation

The Office of Standards and Data Administration (ISD:I:S) is responsible for researching, adopting, and promoting federal standards to ensure portable applications and systems. This includes ensuring that the automated tools procured for use in systems development comply with established FIPS and IRS standards. The Office is developing the System Development Methodology (SDM) which is a set of integrated guidelines that provide a standard framework for the development of automated information systems (AIS) within IRS. Software development within and for IRS must follow the Software Development Life Cycle (SDLC) methodology which was developed in accordance with Treasury Directives and FIPS and is being updated to include communication standards.

Adoption of Nongovernment Standards

The majority of the IRS standards are incorporated from Treasury Directives, FIPS publications, FED-STDs, American National Standards Institute (ANSI), Institute of Electrical and Electronics Engineers (IEEE) and International Telegraph and Telephone .

Qualification, Certification, or Calibration

Treasury Directive 85-02 (TD 85-02), Automated Information Systems Security and Risk Management Program, establishes the policy with respect to ensuring adequate security for automated information systems, applications, and facilities within the Department of Treasury. This Treasury Directive is intended to fulfill the requirements of Office of Management and Budget (OMB) Circulars A-130 and A-123, and National Security Decision Directive (NSDD)-145.

Committee Activity

IRS is in the process of identifying and standardizing data for electronic interchange through participation in ANSI Accredited Standards Committee X.12, Electronic Data Interchange (EDI). IRS and the state tax agencies which are represented through the Federation of Tax Administrators are working together to standardize data for EDI.

Standardization Activities

Periodically task groups are formed to revise existing IRS standards. The Office is working with applications systems developers, within IRS, to test, evaluate and refine the standards. Also, the Office is evaluating and assessing emerging database related technologies such as image-based processing and object-oriented data

base management systems to determine their feasibility within IRS.

Keywords

automated information systems; communication; electronic data interchange; image-based; object-oriented; data processing; information processing;

DEPARTMENT OF THE TREASURY

U.S. CUSTOMS SERVICE

Office of Commercial Operations
1301 Constitution Avenue, NW, Room 3117
Washington, DC 20229
(202) 566-5868 or (202) 566-5497

Authority

United States accession to the Customs Cooperation Council Convention. Instruments of ratification deposited on November 5, 1970.

Implementation

The Harmonized Tariff Schedule was implemented on January 1, 1989, as a result of the Omnibus Trade & Competitiveness Act of 1988.

Application

The Harmonized System is applied for the impost of customs duties upon the entry of merchandise into the United States and other countries, and for the collection of international trade data.

Committee Activity

The U.S. Customs Service (USCS) serves as chairman of the Inter-agency Advisory Committee on Customs Cooperation Council Matters, participates on the Trade Policy Staff Committee and its task force on the Harmonized System, and serves as chairman of the United States delegation of the Harmonized System Committee of the Customs Cooperation Council.

Standardization Activities

The Harmonized System Committee of the Customs Cooperation Council developed a standardized system of nomenclature for use in international trade. This is essentially a commodity classification system used as a basis for customs tariffs and the foreign-trade statistical systems of the United States and its trading partners. The system is devised such that it is used as a basis for various other international trade facilitation measures, for example, freight tariffs.

Availability

A copy of the Harmonized Tariff Schedule of the United States Annotated is available from the United States International Trade Commission, 701 E Street, NW Washington, DC

Keywords customs; harmonized system; international trade; business;

DEPARTMENT OF THE TREASURY

U.S. CUSTOMS SERVICE

Office of Laboratories and Scientific Services,
Research Division
1301 Constitution Avenue, NW
Washington, DC 20229
(202) 566-5853

Authority Title 19, Code of Federal Regulations

Implementation Mandatory laboratory methods are developed and implemented within the U.S. Customs Service (USCS) laboratory system (presently seven laboratories) for the analysis of imported commodities. This effort requires special analyses to obtain information to meet legal requirements for assessing customs duties as legislated or as required internationally by the Harmonized Tariff Schedules. These methods are frequently released to the public through Freedom of Information Act procedures and thereby may also be in use in the private sector.

Application The application of these methods is to meet specific tariff requirements as legislated.

Adoption of Nongovernment Standards U.S. Customs laboratories most frequently use standards developed by industry groups or other nongovernment organizations such as: API, ASTM, ANSI, etc.

Qualification, Certification, or Calibration Samples are selected by Customs inspectors or import specialists on a random or specified basis and sent to the laboratories for analyses. Compliance with legal requirements is determined and the results determine the duty paid by importers. Over 50,000 samples are analyzed annually in this effort.

Committee Activity The U.S. Customs laboratory managers and scientists participate in pertinent committees of the American Petroleum Institute, American Society for Testing and Materials, Customs Cooperation Council, American National Standards Institute, International Commission for Uniform Methods of Sugar Analysis, Association of Official Analytical Chemists, the National Voluntary Laboratory Accreditation Program, and the American Chemical Society.

Availability Office of Laboratories and Scientific Services, U.S. Customs Service.

Keywords sampling; laboratory analysis; laboratory methods;
customs duties; testing;

DEPARTMENT OF THE TREASURY

U.S. MINT

Office of Process and Quality Control
Judiciary Square Building
633 3rd Street, NW
Washington, DC 20220
(202) 376-0453

Authority 31 U.S.C. 317 and 391

Implementation The U.S. Mint, Department of the Treasury, develops and administers the technical standards for United States coinage. Nominal diameter and weight standards are established by statute. Deviations allowed in the weight of minor coins are established by 31 U.S.C. 350. Thickness standards and other tolerances are developed by the Office of Process and Quality Control, Office of the Director.

Application These standards are only imposed internally on the coin manufacturing processes. However, their importance in the development of coin handling and coin operated equipment so commonly found throughout the nation warrants their publication upon request.

Availability Written inquiries should be directed to the Director of the Mint, Attention, Office of Process and Quality Control.

Keywords coins; finance;

DEPARTMENT OF VETERANS AFFAIRS

Office of Acquisition and Material Management
810 Vermont Avenue, NW
Washington, DC 20420
(202) 233-3808

Authority Title 38 CFR Chapter I and Title 41 CFR Chapter 8

Standardization Activities The standardization activities of the Department of Veterans Affairs (VA) are administered by the Safety, Occupational Health, and Fire Protection Division. The Division establishes VA standards as supplements to adopted national standards. Currently there are twenty-six VA standards including the following twenty

product and safety related items:

Carpet Fire-Safety Requirements in Health Care
Facilities
Automatic Fire Extinguishing Protection
Air Conditioning Systems
Magnetic Door Locks
Liquid Oxygen Walker Units
Trash Containers
Exit Through ICU and CCU
Food Service Equipment and Facilities
Lasers
Pipetting in Hospital Laboratories
Electron Microscopes
Microwave Ovens
Carcinogenic Chemicals
Noise
Bathtubs
Laboratory Safety Equipment - Safety Showers and
Eyewashes
Electrical Safety
Prohibition of Using Lead-Based Paint
Storage, Preparation, and Consumption of Food and
Beverages by Employees in Places of Work

Availability Policy Manual MP-3, Part III lists current standards
and is available from the address above.

Keywords medical devices; air conditioning; consumer products;
plumbing; food; safety; noise;

U.S. POSTAL SERVICE

Marketing Department
475 L'Enfant Plaza, SW
Washington, DC 20260-6300
(202) 268-2222

Implementation Standards for producing letter size mail which is
properly designed and addressed for successful sorting
on automated processing equipment are contained in two
publications from the U.S. Postal Service; Publication
25, A Guide to Business Mail Preparation, and
Publication 28, Postal Addressing Standards.

Application All business mailers are encouraged to follow the
recommendations contained in both documents.
Compliance with the standards is strictly voluntary,
except in connection with certain postage discount
programs.

Qualification, Certification, or Calibration	Assistance in determining compliance with the standards is available through all large city post offices. Requests for assistance and testing on automated equipment should be directed to a postal Automation Readability Specialist or Account Representative at those locations.
Availability	Publications 25 and 28 are available, without cost, through all city post offices. Requests for the documents may be directed to any postal marketing representative.
Keywords	addressing; address format; OCR readability; pre-barcoding; information processing; business; communications;

U.S. POSTAL SERVICE

Technology Resource Department
475 L'Enfant Plaza, SW
Washington, DC 20260-8100
(202) 268-3850

Authority	39 U.S.C.: 101, 401, 403, 404, 407, 3001-2, 3621-84
Implementation	Standards for mail are included in the Domestic Mail Manual and the International Mail Manual, published by the U.S. Postal Service.
Application	Mail standards are applied by trained postal employees verifying compliance at the point the mail enters Postal Service custody. Trained postal employees also provide information on mail standards to mailers who produce large mailings and to suppliers of mailing materials to the public.
Adoption of Nongovernment Standards	There are no nongovernment generated standards for mail. Standards for international mail generally are produced through agreement according to procedures set by the international postal body, the Universal Postal Union (UPU). Standards for domestic mail generally are developed in consultation with the mailing industry body, the Mailers Technical Advisory Committee (MTAC), and may be subject to approval by the independent Postal Rate Commission prior to implementation. Mail standards have a direct relationship to postal rates: standards are used to define mail classes and rates are set according to mail classes.
Qualification, Certification, or Calibration	There are no requirements for qualification, certification, or calibration related to mail standards.

Committee Activity	The U.S. Postal Service participates in UPU and MTAC committees involved in mail standards.
Standardization Activities	The U.S. Postal Service standardization activities involve the UPU, MTAC and the Postal Rate Commission.
Availability	The Domestic Mail Manual and the International Mail Manual are available as a subscription sold by the Government Printing Office.
Keywords	mail; classification; rates; communications; business;

U.S. TRADE REPRESENTATIVE

see EXECUTIVE OFFICE OF THE PRESIDENT

4. SOURCES OF STANDARDS AND INFORMATION

Standards usually are obtained directly from the developing organization or from commercial distributors or government repositories. A number of libraries and standards organizations maintain major collections of standards that are open to the public. This section lists distributors of standards in this country and abroad and libraries and information centers. Union Lists detailing collections of standards at libraries within various geographic areas are also presented.

This information is provided as a service to readers seeking local sources for standards and related materials. It should be emphasized that no endorsement of comprehensiveness, quality, or cost should be inferred, and that potential users must perform their own evaluations.

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AMERICAN NATIONAL STANDARDS INSTITUTE

Jules Richardson, Director of Customer Service

1430 Broadway
New York, New York 10018
(212) 642-4953

TELEX: 42 42 96 ANSI UI
FAX: (212) 398-0023

Founded: 1918

Type of Organization

Nonprofit

Number of Standards

9,500 U.S. Nongovernment
252,000 Other

Types of Standards

U.S. NONGOVERNMENT:
9,500 American National Standards that deal with dimensions, ratings, terminology, symbols, test methods, and performance and safety requirements for materials, equipment, components, and a wide range of products.

INTERNATIONAL:
7,400 international standards issued by the International Organization for Standardization (ISO) and 2,800 issued by the International Electrotechnical Commission (IEC).

FOREIGN NATIONAL:
360,000 standards of 86 national standards organizations that are members of the International Organization for Standardization.

OTHER:
Standards and drafts issued for vote by European Committee for Standardization (CEN) and the European Committee for Electrotechnical Standardization (CENELEC).

Availability of Prior Editions

Recently superseded American National Standards available in microform from Information Handling Services (IHS).

Medium

Paper, microfilm cartridges, and microfiche.

Indexing

Indexes available from ANSI in paper include:

- Annual Catalog of American National Standards and supplements--subject and alphanumeric.

- Annual Catalogs issued by International Organization for Standardization; International Electrotechnical Commission (subject and alphanumeric) and a Keyword In Context Index of International Standards.
- Catalogs of foreign national and regional standards organizations.

**Related
Standards
Services**

ANSI is the coordinator of the U.S. voluntary standards system. Its membership consists of over 1,100 companies, 250 professional, technical, trade, labor, and consumer organizations; and 30 government agencies. It is the official U.S. representative to the two major non-treaty international standardizing bodies - The International Organization for Standardization (ISO) and the International Electrotechnical Commission (IEC) through the U.S. National Committee (USNC). ANSI serves both the private and public sector's need for voluntary standardization.

**Foreign Sales
Offices for
U.S. Standards**

Member bodies of ISO in 73 countries.

American Technical Publishers Ltd. (ATP)
Hitchin, Herts, SG4 0SX
England

London Information (ILI)
Ascot, Berks SL5 7EU
England

Japan Standards Association (JSA)
Minato-ku, Tokyo 107
Japan

AMERICAN TECHNICAL PUBLISHERS, LTD.

27-29 Knoll Piece
Wilbury Way
Hitchin, Herts, SG4 0SX
England

Telephone: 0462 437933 TELEX: 825684 ATP G
FAX: 0462433678

Founded: 1980

**Type of
Organization**

Private for profit

**Number of
Standards**

15,000 U.S. nongovernment standards in stock

**Types of
Standards**

U.S. NONGOVERNMENT:
ACI American Concrete Institute

ANSI American National Standards Institute
ASTM American Society for Testing and Materials
EIA Electronic Industries Association
NACE National Association of Corrosion Engineers
ISA Instrument Society of America
SAE Society of Automotive Engineers
TAPPI Technical Association of the Pulp and Paper
Industry

Medium Paper and microfiche
Indexing Individual alpha-numeric indexes available.

BOOK SUPPLY BUREAU

C. Krishnan, Director
D-44 South Extension 1
New Delhi 110 049
India
Telephone: 611 991 TELEX: 31-66690
Founded: 1972

Type of Organization Private for profit
Types of Standards All current ANSI standards and many other U.S., other foreign, and international standards.
Medium Paper
Related Standards Services Issue monthly bulletin about new standards and revisions.

DOCUMENT CENTER

Claudia Bach, Owner
1504 Industrial Way
Unit 9
Belmont, California 94002
(415) 591-7600 FAX: (415) 591-7617

Type of Organization Private for profit
Number of Standards 125,000 U.S. Government Standards
25,000 U.S. Industry Standards
5,000 Foreign Standards

**Types of
Standards**

U.S. GOVERNMENT:

All military standards and specifications, etc., as listed in the Department of Defense Index of Specifications and Standards.

Other military standards (Army, Air Force, Defense Logistics Agency, DESC, Navy, etc.).

Other federal standards (NASA, FCC, FAA, GSA, etc.).

U.S. NONGOVERNMENT

All ASTM, EIA, ANSI, SAE, AWS, IPC, IEEE, SEMI, NFPA, and others.

INTERNATIONAL AND FOREIGN:

IEC, ISO, BSI, DIN, VDE, JIS, CSA, and others.

OTHER TECHNICAL AND REGULATORY INFORMATION:

GPO Publications, such as the Code of Federal Regulations, etc.

NTIS Publications, such as the FIPS, etc.

Draft Standards

Cancelled Standards

**Availability of
Prior Editions**

Many cancelled documents are in stock. Those not in stock can normally be quoted for price and availability.

Medium

Primarily paper, although some microfiche copies are available.

Indexing

Alpha-numeric

Historical (such as the DODISS Cancelled Documents Index).

**Related
Standards
Services**

Automatic Updating Service

DOCUMENT ENGINEERING CO., INC.

Eric Molinari, President

15210 Stagg Street

Van Nuys, California 91405

(213) 873-5566 and

(800) MIL-SPEC

FAX: (818) 782-2374

Founded: 1958

**Type of
Organization**

Private for profit

Number of Standards	75,000 U.S. Government 6,000 U.S. Nongovernment
Types of Standards	U.S. GOVERNMENT: All military standards, specifications, and related documents listed in the Department of Defense Index of Specifications and Standards. U.S. NONGOVERNMENT: American National Standards Institute, American Society for Testing and Materials, SAE, Aerospace Material Specifications, American Welding Society, Institute of Electrical and Electronics Engineers, Electronic Industries Association, Institute for Interconnecting and Packaging Electronic Circuits.
Availability of Prior Editions	Documents listed in the Department of Defense Cancelled Index related to the defense/aerospace industries.
Medium	Paper
Indexing	Indexes are conventional alpha-numeric, as well as numeric within Federal Supply Classes. All indexes are available on paper only.
Related Standards Services	Automatic Updating Service Military Sheet Form Standards (MS, AN, AND series) Service Qualified Products List Service
Trade Names	DECO

GLOBAL ENGINEERING DOCUMENTS
DIVISION OF INFORMATION HANDLING SERVICES

Bill Braley, General Manager

2805 McGaw Avenue
P.O. Box 19539
Irvine, California 92713-9539
(714) 261-1455
(800) 854-7179 TELEX: 692 373

Founded: 1968

Type of Organization	Private for profit
Number of Standards	40,000 U.S. Government 20,000 U.S. Nongovernment

Types of Standards

U.S. GOVERNMENT:

All military and federal standards, specifications, handbooks, Commercial Item Descriptions (CID's), Data Item Descriptions (DID's), Qualified Products Lists (QPL's), directives and regulations including Armed Services Procurement Regulations/Defense Acquisition Regulations. Also all NATO standards and quality assurance publications, standardization publications of the Army, Navy, and Air Force, and Federal Acquisition Regulations.

Standards and related publications of the following federal agencies are also stocked: NASA, NIST, Nuclear Regulatory Commission (NRC), DOT, FAA, FCC, GPO, GSA, HUD, OSHA, and NTIS.

U.S. INDUSTRY STANDARDS:

ACI	American Concrete Institute
AGA	American Gas Association
AGMA	American Gear Manufacturers Association
AIA	American Institute of Architects
AISC	American Institute of Steel Construction
ANS	American Nuclear Society
ANSI	American National Standards Institute
API	American Petroleum Institute
ARI	Air Conditioning and Refrigeration Institute
ARINC	Aeronautical Radio, Incorporated
ASA	Acoustical Society of America
ASHRAE	American Society of Heating, Refrigerating and Air Conditioning Engineers
ASME	American Society of Mechanical Engineers
ASTM	American Society for Testing and Materials
AWS	American Welding Society
AWWA	American Water Works Association
EIA	Electronic Industries Association
ICBO	International Conference of Building Officials
IEEE	Institute of Electrical and Electronics Engineers
IES	Illuminating Engineering Society
IPC	The Institute for Interconnecting and Packaging Electronic Circuits
ISA	Instrument Society of America
MSS	Manufacturers Standardization Society of the Valve and Fittings Industry
NACE	National Association of Corrosion Engineers
NAS	National Aerospace Standards (produced by Aerospace Industries Association)
NEMA	National Electrical Manufacturers Association
NFPA	National Fire Protection Association
NFPA	National Fluid Power Association
RTCA	Radio Technical Commission for Aeronautics
SAE	Society of Automotive Engineers

SSPC	Steel Structures Painting Council
TAPPI	Technical Association of the Pulp and Paper Industry
UL	Underwriters Laboratories

INTERNATIONAL AND NON-U.S. NATIONAL INDUSTRY STANDARDS

AFNOR	Association Francaise De Normalisation
BSI	British Standards Institution
CCITT	International Telegraph & Telephone Consultative Committee
CEN	Comite Europeen de Normalisation (European Committee for Standardization)
CENELEC	Comite Europeen de Normalisation d'Electrotechnique (European Committee for Electrotechnical Standardization)
CNS	Chinese National Standards (Republic of China)
CSA	Canadian Standards Association
DEF	British Defence Standards
DIN	Deutsches Institut für Normung
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization
JIS	Japanese Industrial Standards
SAA	Standards Association of Australia
VDE	Verband Deutscher Elektrotechniker

Availability of Prior Editions	Global has many superseded documents, some dating back to 1946. Stock practically all prior issues of DODISS documents.
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Medium	Paper
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Indexing	No index available. Availability can be ascertained by phone.
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Related Standards Services	Spec-Tree Reports. NSN Research Service
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GOVERNMENT PRINTING OFFICE

Superintendent of Documents
Washington, DC 20402
(202) 275-3054

Founded: 1895

Type of Organization	Governmental
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Types of Standards	Neither the GPO nor the Superintendent of Documents issues or publishes standards <u>per se</u> . However, as the
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principal sales agency for Government publications, the Superintendent of Documents' inventory of available publications contains hundreds that relate to standards or which contain standards issued by the various Departments and agencies of the Government. A few examples of the publications available are: The Department of Defense Index of Specifications and Standards; Standards for Specifying Construction of Airports; Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects; Government Paper Specifications Standards.

The DOD's Military Specifications and Standards and GSA's Federal Specifications and Standards are not available from GPO. Only the indexes for these publications are distributed by GPO. The standards and specifications are available from Naval Publications and Forms Center and the GSA Specifications Unit, respectively.

Medium

Paper

INFORMATION HANDLING SERVICES

Jay Jordan, President

15 Inverness Way East
Englewood, Colorado 80150

(303) 790-0600

TELEX: 4322083 IHS UI

(800) 525-7052

Founded: 1959

Type of
Organization

Private for profit

Number of
Standards

190,000 U.S. Government
43,000 U.S. Nongovernment
12,000 International
75,000 Non-U.S. National

Types of
Standards

U.S. GOVERNMENT:

All Military Standards, Specifications and related documents

Federal Standards, Specifications and related documents

Federal Construction Regulations and Standards

Federal Aviation Administration Standards

Dept. of Veterans Affairs Specifications

Nuclear Regulatory Commission Regulations and Standards

U.S. NONGOVERNMENT:

Acoustical Society of America

Aeronautical Radio, Inc.

Aerospace Industries Association of America, Inc. (NAS)
 Air-Conditioning and Refrigeration Institute
 Aluminum Association, Inc.
 American Association of State Highway and
 Transportation Officials
 American Association of Textile Chemists and Colorists
 American Bureau of Shipping
 American Concrete Institute
 American Gas Association
 American Gear Manufacturers Association
 American Institute of Architects
 American Institute of Chemical Engineers
 American Institute of Steel Construction, Inc.
 American Iron and Steel Institute
 American National Standards Institute
 American Nuclear Society
 American Petroleum Institute
 American Railway Engineering Association
 American Society of Agricultural Engineers
 American Society of Civil Engineers
 American Society of Heating, Refrigerating and
 Air-Conditioning Engineers
 American Society of Mechanical Engineers
 American Society for Nondestructive Testing
 American Society for Quality Control
 American Society of Sanitary Engineering
 American Society for Testing and Materials
 American Water Works Association
 American Welding Society
 Anti-Friction Bearing Manufacturers Association
 Asphalt Institute
 Association for Information and Image Management
 Association for the Advancement of Medical
 Instrumentation
 Builders Hardware Manufacturers Association, Inc.
 Compressed Gas Association, Inc.
 Cooling Tower Institute
 Electronic Industries Association
 Gas Processors Association
 Illuminating Engineering Society
 Industrial Fasteners Institute
 Institute of Electrical and Electronics Engineers
 Institute for Interconnecting and Packaging Electronic
 Circuits
 Instrument Society of America
 International Society for Hybrid Microelectronics
 Manufacturers Standardization Society of the Valve and
 Fittings Industry
 National Association of Corrosion Engineers
 National Electrical Manufacturers Association
 National Environmental Balancing Bureau
 National Fire Protection Association
 National Fluid Power Association
 National Sanitation Foundation

Nuclear Regulatory Commission Service
 Pipe Fabrication Institute
 Plastics Pipe Institute
 Radio Technical Commission for Aeronautics
 Resistance Welder Manufacturers Association
 Semiconductor Equipment and Materials Institute, Inc.
 Sheet Metal & Air Conditioning Contractors' National
 Association, Inc.
 Society of Automotive Engineers
 Steel Joist Institute
 Steel Structures Painting Council
 Technical Association of the Pulp and Paper Industry
 Underwriters Laboratories, Inc.

INTERNATIONAL AND REGIONAL:

CENELEC Electronic Components Committee (CECC)
 Conference of European Postal and Telecommunications
 Administration (CEPT)
 European Association for Materials of Aerospace
 Construction (AECMA)
 European Committee for Standardization/European
 Committee for Electrotechnical
 Standardization (CEN/CENELEC)
 European Computer Manufacturers Association (ECMA)
 European Organization for Civil Aviation Electronics
 (EUROCAE)
 European Telecommunications Standards Institute (ETSI)
 NATO Standardization Documents
 International Civil Aviation Organization (ICAO)
 International Consultative Committee for Telegraph and
 Telephone (CCITT)
 International Electrotechnical Commission (IEC)
 International Organization for Standardization (ISO)
 International Radio Consultative Committee (CCIR)

NON-U.S. NATIONAL:

Association Francaise de Normalisation (AFNOR)
 British Civil Aviation Authority (CAA)
 British Standards Institution
 Canadian General Standards Board
 Canadian Standards Association
 Chinese National Standards (ROC)
 Deutsches Institut fur Normung (DIN)
 Japanese Standards Association (JIS)
 Saudi Arabian Standards Organization
 Society of British Aerospace Companies (SBAC)
 Standards Association of Australia

**Availability of
 Prior Editions**

American Gas Association from 1923
 American National Standards Institute from 1970
 American Nuclear Society from 1976
 American Petroleum Institute (Production) from 1924
 American Society of Mechanical Engineers from 1968

American Society for Testing and Material from 1970
 American Welding Society from 1942
 Institute of Electrical and Electronic Engineers from
 1970
 National Electrical Manufactures Association from 1970
 National Fire Protection Association from 1896

Medium	Microfilm, microfiche, optical discs, and magnetic tape
Indexing	Alpha-numeric and by subject. Recently published a massive cross-index of nongovernment standards under more than 4,000 subject headings. Includes a concordance of more than 12,000 ANSI pre-1978 designations with their current numbers.
Related Standards Services	<p>DIALOG's file 92, more than 311,500 U.S. government, U.S. industry, non-U.S. national, international and regional standards, enables users to quickly determine if pertinent standards exist.</p> <p>Perinorm, a CD-ROM based index cites all the standards of BSI, AFNOR, DIN, ISO, IEC, and CEN/CENELEC.</p> <p>Worldwide Standards Service, an index and collection of full-text standards on CD-ROM.</p>
Foreign Sales	Sales representatives and distributors in 65 foreign countries
Trade Names	EXTENSION 99 HOT SPECS HOT STANDARDS MASTERNET PERSONNELIZER VSMF

NATIONAL STANDARDS ASSOCIATION

Victor Garaycochea, President

1200 Quince Orchard Boulevard
 Gaithersburg, Maryland 20878
 (301) 590-2300

FAX: (301) 990-8378
 TELEX: 44-6194 NATSTA GAIT

Founded: 1946

Type of Organization

Private for profit

Number of Standards

74,000 U.S. Government
 29,000 U.S. Nongovernment

Types of Standards	<p>U.S. GOVERNMENT: The entire file of Department of Defense listed military and federal specifications and standards including handbooks, MS drawings, QPLs, DIDs, CIDs, plus NATO, and related standards.</p> <p>U.S. NONGOVERNMENT: ASTM American Society for Testing and Materials SAE Society of Automotive Engineers AIA Aerospace Industries Association (NAS's) UL Underwriters Laboratories EIA Electronic Industries Association</p>
Availability of Prior Editions	Military specifications and standards dating back to the early 1940's.
Medium	Compact disc (CD-ROM), paper, microfiche
Indexing	For microfiche, alphabetical, numerical and Federal Supply Class on paper On-line Database In software for CD-ROM products
Related Standards Services	<p>Call-in service for ordering individual documents including industry standards not provided as a subscription service by National Standards Association.</p> <p>Standards and Specifications (File 113) is an on-line index of all U.S. government and industry standards, specifications, and related documents.</p> <p>The Identified Sources of Supply is published annually with quarterly updates. It lists sources of products and materials conforming to industry and government standards.</p>
Trade Names	Parts-Master, Specmaster

NATIONAL TECHNICAL INFORMATION SERVICE

U.S. Department of Commerce
5285 Port Royal Road
Springfield, Virginia 22161
(703) 487-4650 FAX: (703) 321-8547
1-800-336-4700

Founded: 1970 (predecessor 1946)

Type of Organization

Governmental

Types of Standards

U.S. GOVERNMENT:
Some military standards

Nuclear
Medical
Environmental
Food and Drug

U.S. NONGOVERNMENT:
American National Standards Institute publications
cited in government standards.

**Availability of
Prior Editions**

Retain all prior editions.

Medium

Paper and microfiche

Indexing

Government Report Abstracts and Index Journal published
biweekly.

**Foreign Sales
Offices for
U.S. Standards**

NTIS has distribution agreements in 42 countries
including:

Argentina
Suministros Asociados S.A.
Buenos Aires

Australia
Info-Line
Broadway N.S.W.

Brazil
PTI Ltda.
Sao Paulo

England
Microinfo Limited
Alton, Hampshire

France
World Data
Paris

India
Allied Publishers Ltd.
Madras

Italy
Diffusione Edizioni Anglo-Americane (DEA)
Rome

Japan
Mitsubishi Research Institute Inc.
Tokyo

The Netherlands
Bibliotheek TU Delft

Portugal
Consulplano SA
Lisbon

Sweden
Studsvik Energiteknik AB
Nykoping

Taiwan
National Science Council
Science and Technology Information Center
Taipei

NAVAL PUBLICATIONS AND FORMS CENTER

Mrs. Alice S. Bell

U.S. Navy
5801 Tabor Avenue
Philadelphia, Pennsylvania 19120-5099
(215) 697-1187 thru 1195 TELEX: 834295

**Type of
Organization**

Governmental

**Number of
Standards**

45,000 U.S. Government
4,600 U.S. Nongovernment
1,500 Other

**Types of
Standards**

U.S. GOVERNMENT:
All military and federal standards, specifications and
related documents listed in the Department of Defense
Index of Specifications and Standards.

U.S. NONGOVERNMENT:
Standards are ONLY provided to DoD Agencies. These
include:

Aerospace Industries Association, National Aerospace
Standards
American National Standards Institute
American Society of Mechanical Engineers
American Society for Testing and Materials
American Welding Society

INTERNATIONAL:
NATO Standardization Agreements

**Availability of
Prior Editions**

Superseded or cancelled documents must be ordered from
the procurement or contracting officer of a military
activity citing need for the document.

Medium

Paper

Indexing

The Department of Defense Index of Specifications and Standards is available in printed book form and microfiche. It is a three part listing: alpha, numeric, as well as numeric within Federal Supply Classes.

The printed edition is available from: Government Printing Office, Washington, DC 20402.

The microfiche edition is available from: Director, Navy Publications and Printing Service Office, 700 Robbins Avenue, Philadelphia, Pennsylvania 19111. Both media are available to DoD activities from NPFC.

**Related
Standards
Services**

New and/or revised releases of Military and Federal Specifications and Standards (including Qualified Products Lists) which are to be listed in the DODISS are available on a subscription basis for a single class or for as many individual classes as the subscriber chooses upon payment of a subscription fee per Federal Supply Class. The subscriber will receive one copy each of all new or revised documents for a one-year period after the effective subscription date. Documents issued prior to the subscription date must be ordered individually from NPFC.

4.2 INFORMATION CENTERS AND LIBRARIES

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ASTM Information Center	673
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ASTM INFORMATION CENTER

Dolores G. Collyer, Manager

AMERICAN SOCIETY FOR TESTING AND MATERIALS
1916 Race Street
Philadelphia, Pennsylvania 19103
(215) 299-5475 TELEX: 710-670-1037

Founded: 1898

**Type of
Organization**

Nonprofit

**Types of
Standards**

U.S. NONGOVERNMENT:
All ASTM

Medium

Paper

**Related
Standards
Services**

Handle telephone and mail inquiries on standards

ENGINEERING SOCIETIES LIBRARY

F.J. Bohan, Acting Director

345 East 47th Street
New York, New York 10017
(212) 705-7611 FAX: (212) 486-1086

Founded: 1913

**Type of
Organization**

Nonprofit

**Types of
Standards**

U.S. NONGOVERNMENT:
ANSI American National Standards Institute
ASHRAE American Society of Heating, Refrigerating
 and Air Conditioning Engineers
ASME American Society of Mechanical Engineers
AWS American Welding Society
EIA Electronic Industries Association
IEEE Institute of Electrical and Electronics
 Engineers
NFPA National Fire Protection Association
UL Underwriters Laboratories

Partial files on many others.

INTERNATIONAL:
IEC International Electrotechnical Commission

FOREIGN NATIONAL:
British Standards Institution
Canadian Standards Association
Deutsches Institut fur Normung

Partial files on many others.

Availability of Prior Editions Historic files are maintained of the following:
ANSI, ASHRAE, ASME, ASTM, AWS, IEEE, and IEC.

Medium Paper

Indexing Indexes are those supplied by issuing bodies.

Related Standards Services Provide photocopies of out-of-print standards

LINDA HALL LIBRARY

Wilma L. Hartman, Librarian for Public Services

5109 Cherry Street
Kansas City, Missouri 64110
(816) 363-4600

Founded: 1946

Type of Organization Nonprofit

Number of Standards 100,000 Standards Total

Types of Standards U.S. GOVERNMENT:
All military and federal specifications, standards, and related documents.

U.S. NONGOVERNMENT:
Two hundred professional, commercial or industrial agencies issuing standardization documents.

Availability of Prior Editions American Society for Testing and Materials: Annual book of ASTM standards.
National Fire Protection Association: National fire codes.
American Society of Mechanical Engineers: ASME boiler and pressure vessel code.

Medium Paper

**Related
Standards
Services**

Photocopy service

MORGAN TECHNICAL LIBRARY

Arlene Barnbart, Librarian

NATIONAL FIRE PROTECTION ASSOCIATION
1 Batterymarch Park
Quincy, Massachusetts 02269-9101
(617) 984-7445 FAX: (617) 471-5231

Founded: 1945

**Type of
Organization**

Nonprofit

**Types of
Standards**

U.S. NONGOVERNMENT:
NFPA National Fire Protection Association
UL Underwriters Laboratories
ICBO International Conference of Building Officials
BOCA Building Officials and Code Administration
International
CABO Council of American Building Officials
Model Building & Fire Codes

Partial files on approximately 30 other organizations,
primarily those standards relating to fire safety.

FOREIGN NATIONAL:
Partial files on Canadian standards organizations,
primarily those standards relating to fire safety.

INTERNATIONAL:
Partial file of standards relating to fire safety from:
ISO and IEC

**Availability of
Prior Editions**

Historic files are maintained for the National Fire
Protection Association, 1896-current.

Medium

Paper for current files.
Microfiche for Historic Files.

Indexing

Indexes are those supplied by issuing body.

**Related
Standards
Services**

Provide photocopies of out-of-print National Fire
Protection Association Standards. Authentication
services available.

NATIONAL CENTER FOR STANDARDS AND CERTIFICATION INFORMATION (NCSCI)

NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY
A629 Administration Building
Gaithersburg, Maryland 20899
(301) 975-4040

TELEX: TRT 197674 NIST UT
FAX: (301) 975-2128

Founded: 1965

**Type of
Organization**

Government

**Types of
Standards in
Collection**

UNITED STATES:
industry (voluntary)
federal agency (voluntary and regulations)
federal purchasing

FOREIGN:
national
international
regional

Medium

Paper, microfilm cartridges and microfiche.

**Related
Standards
Services**

Standards can be viewed from the collection which is in paper, microfilm cartridges, and microfiche. Product subject listings are provided in response to inquiries, but copies of standards are not distributed. NCSCI responds to the needs of government, industry, and the general public for information on domestic and foreign standards, regulations, certification, and other standards-related activities and foreign requests for information on existing U.S. standards and certification information. The objectives are accomplished by: maintaining a microform and hard copy collection of engineering standards and specifications, regulations, certification rules, directories, reference books and special publications; responding to inquiries on the existence, source, and availability of standards and related documents; developing and publishing directories of standards, certification, testing and related information; to the degree possible, responding to trade-related queries regarding regulations and other requirements of foreign countries for the export of U.S. manufactured products.

The NCSCI Reference Collection is open to visitors Monday through Friday from 8:30 a.m. to 5:00 p.m.

NUCLEAR PERFORMANCE ASSURANCE PROJECT OFFICE

U.S. Department of Energy
P.O. Box 2009, Building 9204-1, M/S 8050
Oak Ridge, Tennessee 37831-8050
(615) 574-8910

Type of Organization

Government

Types of Standards

U.S. GOVERNMENT:
211 Nuclear Energy (NE) standards are published under the auspices of the U.S. Department of Energy. The standards are available to United States Government contractors and selected private industries engaged in the nuclear energy field.

Availability of Prior Editions

Inactive and discontinued standards are available for information only on a "need" basis. Distribution of prior issues is based on the same policy.

Medium

Paper and microfiche

Indexing

A "Nuclear Standards Master Index" listing standard number, title, facility, cognizant engineer, and status is published semiannually (January and June).

Related Standards Services

1. "Nuclear Energy Standards KWOC Index" published annually.
2. "Requirements for Preparation and Management of DOE Nuclear Energy Program Standards Manual" updated as needed.

Foreign Sales Offices for U.S. Standards

Nuclear Energy (NE) standards are not available for foreign distribution. An exception may be made for those foreign countries which have an exchange agreement with the U.S. Department of Energy.

4.3 UNION LISTS OF STANDARDS

The Engineering Division of the Special Libraries Association is attempting to identify various collections of standards within geographic regions and to compile a "union list" of that information. Although some of these union lists are out of print, the participating libraries will have copies.

California

1981 Union List of Specifications and Standards in California, Hawaii, Oregon, and Washington Libraries. Prepared by California Library Authority for Systems and Services and Information on Demand.

Illinois

1986 Union List of Standards, Metropolitan Chicago Science and Technology Libraries.

Minnesota

1979 Twin Cities Standards Cooperative Card Index at the James J. Hill Reference Library, St. Paul, MN.

New York

1980 Location Guide to Engineering Standards and Related Materials in Rochester Area Libraries. Rochester Regional Research Library Council.

New York

1984 A Directory of Selected Technical Information Holdings in Member Libraries. Compiled by Carol Kizis for Documents Committee, Subcommittee on Technical Information Forms of Western New York Library Resources Council. Fifty-three institutions.

Tennessee

1982 Standards, Specifications and Codes Available in Tennessee - A Union List. Nashville, TN.

Texas

1978 Union List of Standards, Specifications, and Codes in Selected Texas Libraries. Texas Chapter, Special Libraries Association.

United States

Union List of Technical Publications. American Society for Engineering Education, #11 Dupont Circle, Suite 200, Washington, DC 20036, Telephone (202) 293-7080.

Wisconsin

1982 A Union List of Standards Held in Wisconsin. Produced by Library Council of Metropolitan Milwaukee, 814 West Wisconsin Avenue, Milwaukee, WI. 53233, Telephone (414) 271-8470. Forty-one libraries included.

5. SUBJECT INDEX AND RELATED LISTINGS

5.1 SUBJECT INDEX (ORGANIZATIONS BY MAJOR SUBJECTS)

Government and nongovernment organizations are listed in alphabetic order in their respective sections, and are listed here within forty-two subject categories. These categories were selected after reviewing the keywords of all entries.

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Textiles and Clothing	708
Transportation	709
Wood and Wood Products	710

ACOUSTICS AND NOISE CONTROL

Acoustical Society of America
Air Movement and Control Association
American Helicopter Society
American Institute of Physics
American Speech-Language and Hearing Association
Association of Wall and Ceiling Industries - International
Compressed Air and Gas Institute
Department of Veterans Affairs
ETL Testing Laboratories
Federal Aviation Administration (DOT)
Home Ventilating Institute
International Tape/Disc Association
Lead Industries Association
National Environmental Balancing Bureau
Outdoor Power Equipment Institute
Snowmobile Safety and Certification Committee

AEROSPACE AND AVIATION

Aeronautical Radio, Incorporated
Aerospace Industries Association of America
Air Transport Association of America
Aircraft Locknut Manufacturers Association
Aircraft Owners and Pilots Association
American Helicopter Society
American Institute of Aeronautics and Astronautics
Department of Defense
Federal Aviation Administration (DOT)
Federal Coordinator for Metrology (Commerce)
Flight Safety Foundation
General Aviation Manufacturers Association
Helicopter Association International
Radio Technical Commission for Aeronautics
Society of Automotive Engineers
Systems Engineering and Technology (NASA)

AGRICULTURE

Agricultural Marketing Service (USDA)
American Association of Cereal Chemists
American Association of Nurserymen
American Feed Manufacturers Association
American Society of Agricultural Engineers
American Sod Producers Association
American Soybean Association
Animal Health International
Association of American Feed Control Officials
Association of American Plant Food Control Officials
Association of Official Analytical Chemists

Association of Official Seed Analysts
Association of Official Seed Certifying Agencies
Blue Anchor
Center for Agricultural Machinery
Corn Refiners Association
DFA of California
Diamond Walnut Growers
Equipment Manufacturers Institute
Federal Grain Inspection Service (USDA)
Fertilizer Institute
Foreign Agricultural Service (USDA)
Grain Elevator and Processing Society
Irrigation Association
National Bark and Soil Producers Association
National Clay Pot Manufacturers Association
National Coffee Association of the U.S.A.
National Cotton Council of America
National Cottonseed Products Association
National Fertilizer Solutions Association
National Institute of Oilseed Products
National Oilseed Processors Association
Outdoor Power Equipment Institute
Rice Millers Association
Packers and Stockyards Administration (USDA)

AIR-CONDITIONING AND REFRIGERATION

(Also see Heating, Ventilating and Air Handling)

Air Conditioning Contractors of America
Air-Conditioning and Refrigeration Institute
American Insurance Association
American Society of Heating, Refrigerating and Air-Conditioning Engineers
Automotive Refrigeration Products Institute
Commercial Refrigeration Manufacturers Association
Department of Veterans Affairs
ETL Testing Laboratories
International Institute of Ammonia Refrigeration
International Mobile Air Conditioning Association
Mechanical Contractors Association of America
National Association of Plumbing-Heating-Cooling Contractors
Sheet Metal, and Air Conditioning Contractors National Association
Solar Rating and Certification Corporation

BUILDING

(Also see Air-Conditioning; Concrete; Heating; Plumbing; and Wood)

American Gas Association
American Hardwood Association
American Lighting Institute
American Institute of Architects
American Institute of Steel Construction

American Laminators Association
American Pipe Fittings Association
American Society of Civil Engineers
American Society of Mechanical Engineers
American Society of Plumbing Engineers
American Architectural Manufacturers Association
Asphalt Roofing Manufacturers Association
Associated General Contractors of America
Associated Locksmiths of America
Association of Wall and Ceiling Industries - International
Brick Institute of America
Builders Hardware Manufacturers Association
Building Owners and Managers Association International
Cellulose Industry Standards Enforcement Programs
Ceilings and Interior Systems Contractors
Concrete Reinforcing Steel Institute
Council of American Building Officials
Cultured Marble Institute
Decorative Laminate Products Association
Department of Defense
Door and Hardware Institute
Door Operator and Remote Controls Manufacturers Association
Flat Glass Marketing Association
Gas Appliance Manufacturers Association
Glass Tempering Association
Home Automation Association
Housing and Urban Development, Department of
Illuminating Engineering Society of Northern America
Insulated Steel Door Systems Institute
International Association of Electrical Inspectors
International Association of Plumbing and Mechanical Officials
International Conference of Building Officials
Lightning Protection Institute
Manufactured Housing Institute
Maple Flooring Manufacturers Association
Marble Institute of America
Metal Building Manufacturers Association
Mineral Insulation Manufacturers Association
National Association of Architectural Metal Manufacturers
National Association of Garage Door Manufacturers
National Association of Industrial and Office Parks
National Burglar and Fire Alarm Association
National Certification Program
National Concrete Masonry Association
National Conference of States on Building Codes and Standards
National Easter Seal Society
National Electrical Contractors Association
National Elevator Industry
National Environmental Balancing Bureau
National Forest Products Association
National Institute of Building Sciences
National Lime Association
National Roof Deck Contractors Association
National Roofing Contractors Association

National School Supply and Equipment Association
Plumbing and Drainage Institute
Public Buildings Services (GSA)
Resilient Floor Covering Institute
Safety Glazing Certification Council
Screen Manufacturers Association
Sealed Insulating Glass Manufacturers Association
Southern Building Code Congress International
Steel Deck Institute
Steel Door Institute
Steel Joist Institute
Steel Window Institute
Thermal Insulation Manufacturers Association
Tile Council of America
United Lightning Protection Association
Vinyl Siding Institute
Vinyl Window and Door Institute
Water Systems Council
Wood and Synthetic Flooring Institute

BUSINESS, FINANCE, AND INSURANCE

Alliance of American Insurers
American Bankers Association
American Insurance Association
American National Metric Council
American National Standards Institute
American Statistical Association
Association of American Railroads
Bureau of the Mint (Treasury)
Electronic Data Interchange Association
Executive Office of the President
Factory Mutual Research Corporation
Federal Trade Commission
Financial Accounting Standards Foundation
Foreign Agricultural Service (USDA)
Health Care Financing Administration (DHHS)
Internal Revenue Service (Treasury)
International Trade Administration (Commerce)
National Association of Purchasing Management
National Automobile Theft Bureau
National Cargo Bureau
National Institute of Standards and Technology (Commerce)
National Retail Merchants Association
Occupational Safety and Health Administration (DOL)
Project Management Institute
U.S. Council for International Business
U.S. Customs Service (Treasury)
U.S. Patent and Trademark Office (Commerce)
U.S. Trade Representative, Executive Office of the President

COMMUNICATIONS

Advanced Television Systems Committee
Aeronautical Radio, Incorporated
Air Transport Association of America
American Association of Advertising Agencies
American Design Drafting Association
American National Standards Institute
Association of American Publishers
Association of American Railroads
Automatic Meter Reading Association
Book Industry Study Group
Book Manufacturers Institute
Computer and Business Equipment Manufacturers Association
Corporation for Open Systems International
Department of Defense
Electronic Media Rating Council
Exchange Carriers Standards Association
Federal Communications Commission
Federal Coordinator for Metrology (Commerce)
Graphic Communications Association
Gravure Association of America
Home Automation Association
Information Resources Management Standards (GSA)
Institute of Electrical and Electronics Engineers
Insulated Cable Engineers Association
International Communications Industries Association
International Municipal Signal Association
International Tape/Disc Association
Laser Institute of America
Library Binding Institute
Marketing Department (USPS)
National Association of Broadcasters
National Cable Television Association
National Federation of Abstracting and Information Services
National Information Standards Organization
National Institute of Standards and Technology (Commerce)
National Marine Electronics Association
National Printing Ink Research Institute
National Telecommunications and Information Administration (Commerce)
Printing Industries of America
Radio Technical Commission for Aeronautics
Recording Industry Association of America
Rural Electrification Administration (USDA)
Semiconductor Equipment and Materials Institute
Society for Technical Communication
Society of Motion Picture and Television Engineers
Technology Resource Department (USPS)
Traffic Audit Bureau
United States Telephone Association
U.S. National Committee for the CCITT (State)

CONCRETE, MASONRY, AND CERAMIC PRODUCTS

American Concrete Institute
American Concrete Pavement Association
American Concrete Pipe Association
American Concrete Pressure Pipe Association
American Society for Testing and Materials
Architectural Precast Association
Brick Institute of America
Concrete Plant Manufacturers Bureau
Concrete Reinforcing Steel Institute
Control Systems Manufacturers Division
Expanded Shale, Clay and Slate Institute
International Masonry Institute
Masonry and Concrete Saw Manufacturers Institute
Materials and Methods Standards Association
Mo-Sai Institute
National Building Granite Quarries Association
National Concrete Masonry Association
National Terrazzo and Mosaic Association
Plant Mixer Manufacturers Division
Portland Cement Association
Post-Tensioning Institute
Precast/Prestressed Concrete Institute
Stucco Manufacturers Association
Technical Ceramics Manufacturers Association
Tile Council of America
Truck Mixer Manufacturers Bureau
Wire Reinforcement Institute

CONSTRUCTION

(See also Concrete)

American Association of State Highway and Transportation Officials
American Institute of Steel Construction
American Institute of Timber Construction
American Iron and Steel Institute
American Lumber Standards Committee
American Pipe Fittings Association
American Plywood Association
American Public Works Association
American Railway Engineering Association
American Road and Transportation Builders Association
American Society of Civil Engineers
American Society of Sanitary Engineering
American Water Works Association
American Wood-Preservers Association
American Wood-Preservers Bureau
Asphalt Institute
Asphalt Emulsion Manufacturers Association
Asphalt Roofing Manufacturers Association
Associated Air Balance Council
Associated General Contractors of America

Association of Asbestos Cement Pipe Producers
 Association of Drilled Shaft Contractors
 Association of Engineering Geologists
 Association of Physical Plant Administrators of Universities and
 Colleges
 Building Officials and Code Administrators International
 Cast Iron Soil Pipe Institute
 Chain Link Fence Manufacturers Institute
 Compressed Air and Gas Institute
 Concrete Plant Manufacturers Bureau
 Construction Industry Manufacturers Association
 Construction Specifications Institute
 Contractors Pump Bureau
 Control Systems Manufacturers Division
 Deep Foundations Institute
 Department of Defense
 Equipment Manufacturers Institute
 Federal Highway Administration (DOT)
 Gypsum Association
 Hardwood Plywood Manufacturers Association
 International Bridge, Tunnel and Turnpike Association
 International Conference of Building Officials
 International Fence Industry Association
 Laborers International Union of North America
 Materials Transportation Bureau (DOT)
 Mechanical Contractors Association of America
 Mo-Sai Institute
 National Association of County Engineers
 National Association of Industrial and Office Parks
 National Association of Pipe Coating Applicators
 National Clay Pipe Institute
 National Concrete Masonry Association
 National Corrugated Steel Pipe Association
 National Electrical Contractors Association
 National Forest Products Association
 National Lime Association
 National Slag Association
 National Stone Association
 National Terrazzo and Mosaic Association
 Occupational Safety and Health Administration (DOL)
 Pipe Line Contractors Association
 Plant Mixer Manufacturers Division (Concrete Plant Manufacturers Bureau)
 Plastics Pipe Institute
 Portland Cement Association
 Post-Tensioning Institute
 Powder Actuated Tool Manufacturers Institute
 Precast/Prestressed Concrete Institute
 Scaffolding, Shoring and Forming Institute
 Southern Building Code Congress International
 Steel Tank Institute
 Test Boring Association
 Water Pollution Control Federation

CONSUMER PRODUCTS

American Fastener and Closure Association
American Furniture Manufacturers Association
American Gas Association
American Home Economics Association
American Lighting Institute
American Ladder Institute
American National Standards Institute
American Society for Testing and Materials
Association of Bedding and Furniture Law Officials
Association of Home Appliance Manufacturers
Automatic Meter Reading Association
Building Energy Research and Development (DOE)
Bureau of Competition and Consumer Protection (FTC)
Carpet and Rug Institute
Chemical Specialties Manufacturers Association
Color Association of the United States
Consumer Affairs (Commerce)
Consumer Federation of America
Consumer Product Safety Commission
Cookware Manufacturers Association
Cosmetic, Toiletry and Fragrance Association
Crayon, Water Color and Craft Institute
Department of Defense
Department of Veterans Affairs
Electronic Industries Association
ETL Testing Laboratories
Food and Drug Administration (DHHS)
Gas Appliance Manufacturers Association
Gas Processors Association
Gemological Institute of America
Hand Tools Institute
Home Automation Association
International Fabricare Institute
International Sleep Products Association
Jewelers Vigilance Committee
Juvenile Products Manufacturers Association
Manufacturing Jewelers and Silversmiths of America
Metal Ladder Manufacturers Association
National Association of Hosiery Manufacturers
National Association of Jewelry Appraisers
National Institute of Infant Services
National Kerosene Heater Association
National Retail Merchants Association
National Safety Council
National Spa and Pool Institute
Outdoor Power Equipment Institute
Program Management (Consumer Product Safety Commission)
Sponge and Chamois Institute
Tire and Rim Association
Toy Manufacturers of America
Tube Council of Northern America
Underwriters Laboratories

United States Testing Company
Vacuum Cleaner Manufacturers Association
Water Quality Association

DATA AND INFORMATION PROCESSING

American Association of Petroleum Geologists
American Design Drafting Association
American Congress on Surveying and Mapping
American Institute for Design and Drafting
American National Standards Institute
American Statistical Association
Association for Computing Machinery
Association for Information and Image Management
Association of American Railroads
Association of Records Managers and Administrators
Automatic Meter Reading Association
Book Industry Study Group
Bureau of the Census (Commerce)
Collection Services (Library of Congress)
Computer and Business Equipment Manufacturers Association
Computer Software and Services Industry Association
Construction Specifications Institute
Corporation for Open Systems International
Data Processing Management Association
Electronic Data Interchange Association
Electronic Industries Association
Energy Information Administration (DOE)
Federal Coordinator for Meteorology (Commerce)
Financial Accounting Standards Foundation
Geological Survey (DOI)
Graphic Communications Association
Home Automation Association
Information Resources Management Standards (GSA)
Information Technology Service (Library of Congress)
Institute of Electrical and Electronics Engineers
Internal Revenue Service (Treasury)
MUMPS Development Committee
National Archives and Records Service (GSA)
National Computer Graphics Association
National Federation of Abstracting and Information Services
National Institute of Standards and Technology (Commerce)
National Technical Information Service (Commerce)
National Telecommunications and Information Services (Commerce)
National Wholesale Hardware Association
Printing Industries of America
Project Management Institute
Research Services (Library of Congress)
Society for Information Display
SPARC International
Special Libraries Association
Technology Resource Department (USPS)
U.S. Geological Survey (DOI)

U.S. Patent and Trademark Office (Commerce)
U.S. National Committee for the CCITT (State)

DEFENSE

Aerospace Industries Association of America
American Defense Preparedness Association
American Helicopter Society
American National Metric Council
American National Standards Institute
American Society for Testing and Materials
Department of Defense
Electronic Industries Association
Helicopter Association International
Institute of Makers of Explosives
Institute of Nuclear Materials Management
Society of Automotive Engineers
Sporting Arms and Ammunitions Manufacturers Institute

EDUCATION

Accrediting Bureau of Health Education Schools
Advisory Commission on Textbook Specifications
American Library Association
American National Metric Council
American Optometric Association
American Podiatric Medical Association
American Psychiatric Association
American Psychoanalytic Association
American Public Health Association
American Speech-Language and Hearing Association
Association for Education of the Visually Handicapped
Association of Physical Plant Administrators of Universities and Colleges
Book Manufacturers Institute
Crayon, Water Color and Craft Institute
Hair International
National Association of State Textbook Administrators
National League for Nursing
National School Supply and Equipment Association
National Standards Educators Association
Special Libraries Association
U.S. Metric Association

ELECTRICAL AND ELECTRONIC EQUIPMENT

Aeronautical Radio, Incorporated
American Lighting Institute
American Society for Testing and Materials
Association of Edison Illuminating Companies
Association of Iron and Steel Engineers

Battery Council International
Certified Ballast Manufacturers
Edison Electric Institute
Electrical Apparatus Service Association
Electrical Generating Systems Association
Electronic Industries Association
ETL Testing Laboratories
Factory Mutual Research Corporation
Home Automation Association
Institute for Interconnecting and Packaging Electronic Circuits
Institute of Electrical and Electronics Engineers
Insulated Cable Engineers Association
International Brotherhood of Electrical Workers
International Electrical Testing Association
International Municipal Signal Association
Lightning Protection Association
Magnetic Materials Producers Association
National Association of Relay Manufacturers
National Electrical Contractors Association
National Electrical Manufacturers Association
National Marine Electronic Association
Occupational Safety and Health Administration (DOL)
Radio Technical Commission for Aeronautics
Radio Technical Commission for Maritime Services
Rural Electrification Administration (USDA)
Semiconductor Equipment and Materials Institute
Small Motor Manufacturing Association
Southwest Research Institute
Underwriters Laboratories
United Lightning Protection Association
Variable Resistive Components Institute

ENERGY

American Association of Petroleum Geologists
American Gas Association
American Nuclear Society
American Society of Heating, Refrigerating and Air-Conditioning Engineers
American Society of Mechanical Engineers
Association of Edison Illuminating Companies
Automatic Meter Reading Association
Cellulose Industry Standards Enforcement Program
Defense Programs (DOE)
Edison Electric Institute
Electrical Generating Systems Association
Energy Information Administration
Environment, Safety and Health (DOE)
Gas Appliance Manufacturers Association
Gas Processors Association
Health Physics Society
Heat Exchange Institute
Home Automation Association

Institute of Electrical and Electronics Engineers
Institute of Nuclear Materials Management
International District Heating Association
Mine Safety and Health Administration (DOL)
Mineral Insulation Manufacturers
Minerals Management Service (DOI)
National Conference of States on Building Codes and Standards
National Kerosene Heater Association
National Propane Gas Association
Nuclear Regulatory Commission
Rural Electrification Administration (USDA)
Solar Rating and Certification Corporation
Thermal Insulation Manufacturers Association

ENVIRONMENT

Acoustical Society of America
Air and Waste Management Association
American Industrial Hygiene Association
American Society for Testing and Materials
American Society of Heating, Refrigerating and Air-Conditioning Engineers
Battery Council International
Defense Programs (DOE)
Environment, Safety and Health (DOE)
Environmental Protection Agency
Federal Aviation Administration (DOT)
Federal Highway Administration (DOT)
Home Automation Association
Industrial Gas Cleaning Institute
Institute of Environmental Sciences
Institute of Nuclear Materials Management
National Council on Radiation Protection and Measurements
National Environmental Health Association
National Oceanic and Atmospheric Administration (Commerce)
National Sanitation Foundation
Nuclear Regulatory Commission
Occupational Health (NASA)
Occupational Safety and Health Administration (DOL)
Water Pollution Control Federation

FACILITIES MANAGEMENT

American Hospital Association
Association of Physical Plant Administrators of Universities and Colleges
Building Owners and Managers Association International
Health Care Financing Administration (DHHS)
International City Management Association
National Association of County Engineers
National Association of Industrial and Office Parks

FOOD AND BEVERAGES

Agricultural Marketing Service (USDA)
American Association of Cereal Chemists
American Dairy Products Institute
American Oil Chemists Society
American Society of Brewing Chemists
American Society for Enology and Viticulture
American Spice Trade Association
Association of Official Analytical Chemists
Blue Anchor
Bureau of Alcohol, Tobacco, and Firearms (Treasury)
Cookware Manufacturers Association
Corn Refiners Association
Dairy and Food Industries Supply Association
Department of Defense
DFA of California
Diamond Walnut Growers
Distilled Spirits Council of the United States
Federal Grain Inspection Service (USDA)
Food and Drug Administration (DHHS)
Food Processing and Supplies Association
Food Safety and Inspection Service (USDA)
Foreign Agricultural Service (USDA)
International Association of Milk, Food and Environmental Sanitarians
National Automatic Merchandising Association
National Coffee Association of the U.S.A.
National Cottonseed Products Association
National Fisheries Institute
National Food Processors Association
National Institute of Oilseed Products
National Marine Fisheries Service (Commerce)
National Soft Drink Association
Packers and Stockyards Administration (USDA)
Rice Millers Association
United States Testing Company
Veterans Administration

GENERAL

American Design Drafting Association
American National Metric Council
American National Standards Institute
American Society for Testing and Materials
Bureaus of Competition and Consumer Protection (FTC)
Color Association of the United States
Consumer Product Safety Commission
Department of Defense
Executive Office of the President
General Services Administration
International Coalition for Procurement Standards
International Trade Administration (Commerce)
National Association of Hospital Purchasing Materials Management

National Institute of Standards and Technology (Commerce)
National Standards Educators Association
Office of Procurement (GSA)
Program Management (Consumer Product Safety Commission)
Standards Engineering Society
Underwriters Laboratory
United States Testing Company
U.S. Metric Association
U.S. Patent and Trademark Office (Commerce)
U.S. Trade Representative, Executive Office of the President

GOVERNMENT OFFICIALS

American Association of Motor Vehicle Administrators
American Conference of Governmental Industrial Hygienists
Association of American Feed Control Officials
Association of American Plant Feed Control Officials
Association of Bedding and Furniture Law Officials
Association of Official Analytical Chemists
Association of Official Seed Analysts
Building Officials and Code Administrators International
Council of American Building Officials
International Association of Electrical Inspectors
International Association of Plumbing and Mechanical Officials
International City Management Association
International Coalition for Procurement Standards
International Conference of Building Officials
National Association of County Engineers
National Association of State Textbook Administrators
National Association of State Purchasing Officials
National Board of Boiler and Pressure Vessel Inspectors
National Civic League Inc.
U.S. Patent and Trademark Office (Commerce)

HEATING, VENTILATING, AND AIR HANDLING

Air Conditioning Contractors of America
Air-Conditioning and Refrigeration Institute
Air Distribution Institute
Air Movement and Control Association
American Boiler Manufacturers Association
American Insurance Association
American Society of Heating, Refrigerating and Air-Conditioning Engineers
Associated Air Balance Council
Home Ventilating Institute
Heat Exchange Institute
Hydronics Institute
International District Heating Association
Mechanical Contractors Association of America
National Association of Plumbing-Heating-Cooling Contractors
National Environmental Balancing Bureau

National Kerosene Heater Association
Sheet Metal, and Air Conditioning Contractors National Association
Solar Rating and Certification Corporation
Underwriters Laboratories
Wood Heating Alliance

INDUSTRIAL EQUIPMENT

American Boiler Manufacturers Association
American Brush Manufacturers Association
American Gas Association
American Ladder Institute
American Society for Testing and Materials
American Society of Mechanical Engineers
American Vacuum Society
Association of Iron and Steel Engineers
Automatic Identification Manufacturers Association
Caster and Floor Truck Manufacturers Association
Cleaning Equipment Manufacturers Association
Compressed Air and Gas Institute
Contractors Pump Bureau
Conveyor Equipment Manufacturers Association
Cooling Tower Institute
Cordage Institute
Department of Defense
Ductile Iron Pipe Research Association
Electronic Industries Association
Expansion Joint Manufacturers Association
Factory Mutual Research Corporation
Equipment Manufacturers Institute
Federation of Automated Coding Technologies
Fluid Controls Institute
Gas Appliance Manufacturers Association
Hand Tools Institute
Heat Exchange Institute
Hydraulic Institute
Hydronics Institute
Industrial Gas Cleaning Institute
Industrial Truck Association
Instrument Society of America
International Cargo Gear Bureau
International Staple, Nail and Tool Association
Laser Institute of America
Manufacturers Standardization Society of the Valve and Fittings Industry
Masonry and Concrete Saw Manufacturers Institute
Material Handling Institute
Mechanical Power Transmission Association
Metal Ladder Manufacturers Association
Mine Safety and Health Administration (DOL)
Monorail Manufacturers Association
National Association of Chain Manufacturers
National Association of Name Plate Manufacturers
National Board of Boiler and Pressure Vessel Inspectors

National Fluid Power Association
National Solid Wastes Management Association
Optical Product Code Council
Portable Power Equipment Manufacturers Association
Pipe Fabrication Institute
Rack Manufacturers Institute
Robotic Industries Association
Rubber Manufacturers Association
Scaffolding, Shoring and Forming Institute
Small Motor Manufacturing Association
Steel Plate Fabricators Association
Steel Tank Institute
Sump and Sewage Pump Manufacturers Association
Tubular Exchange Manufacturers Association
Ultrasonic Industry Association
Underwriters Laboratories
Valve Manufacturers Association
Water Quality Association

INSTRUMENTS AND LABORATORY EQUIPMENT

American Crystallographic Association
American Society for Medical Technology
American Society for Testing and Materials
American Watchmakers Institute
Bureau of Alcohol, Tobacco and Firearms (Treasury)
Equipment and Tool Institute
Federal Coordinator for Metrology (Commerce)
Fluid Controls Institute
Institute of Electrical and Electronics Engineers
Instrument Society of America
Inter-Society Color Council
Joint Neurosurgical Committee on Devices and Drugs
Laser Institute of America
National Institute of Standards and Technology (Commerce)
National Committee for Clinical Laboratory Standards
National Oceanic and Atmospheric Administration (Commerce)
Optical Society of America
Scale Manufacturers Association

MACHINERY

American Chain Association
American Gear Manufacturers Association
American Society for Testing and Materials
American Society of Agricultural Engineers
American Society of Mechanical Engineers
American Textile Machinery Association
Anti-Friction Bearing Manufacturers Association
Baking Industry Sanitation Standards Committee
Center for Agricultural Machinery
Compressed Air and Gas Institute

Construction Industry Manufacturers Association
Conveyor Equipment Manufacturers Association
Electrical Apparatus Service Association
Forging Industry Association
Friction Materials Standards Institute
Grinding Wheel Institute
Mechanical Power Transmission Association
National Electrical Manufacturers Association
National Fluid Power Association
NMTBA - The Association for Manufacturing Technology
Packaging Machinery Manufacturers Institute
Pulp and Paper Machinery Manufacturers Association
Robotic Industries Association
Society of the Plastics Industry
Wood Machinery Manufacturers of America

MANUFACTURING

Abrasive Engineering Society
Abrasive Grain Association
Adhesives Manufacturers Association
Aerospace Industries Association of America
Aircraft Locknut Manufacturers Association
American National Metric Council
American National Standards Institute
American Society of Electroplated Plastics
American Welding Society
Automated Imaging Association
Automatic Identification Manufacturers Association
Cemented Carbide Producers Association
Certified Automotive Parts Association
Coated Abrasives Manufacturers Institute
Compressed Air and Gas Institute
Computer Aided Manufacturing International
Defense Industrial Supply Center
Diamond Wheel Manufacturers Institute
Federation of Automated Coding Technologies
Hack and Band Saw Manufacturers Association of America
Industrial Diamond Association of America
Industrial Fasteners Institute
Industrial Perforators Association
Industrial Safety Equipment Association
Institute of Industrial Engineers
International Staple, Nail and Tool Association
Laser Institute of America
Marking Device Association
Metal Treating Institute
MTM Association for Standards and Research
National Association of Punch Manufacturers
National Certified Pipe Welding Bureau
National Fastener Distributors Association
NMTBA - The Association for Manufacturing Technology
North American Die Casting Association

Occupational Safety and Health Administration (DOL)
Optical Product Code Council
Photo Chemical Machining Institute
Resistance Welder Manufacturers Association
Robotic Industries Association
Semiconductor Equipment and Materials Institute
Standards Committee for Hi-Lok and Hi-Tigue Products
Steel Plate Fabricators Association
Tubular Rivet and Machine Institute
United States Cutting Tool Institute

MATERIALS AND FINISHES

(Also see Concrete, Textiles, and Wood)

Abrasive Grain Association
Aluminum Association
American Chemical Society
American Concrete Pavement Association
American Electroplaters Society
American Fiber Manufacturers Association
American Foundrymen's Society
American Hardboard Association
American Galvanizers Association
American Institute of Chemical Engineers
American Iron and Steel Institute
American Laminators Association
American Leather Chemists Association
American National Standards Institute
American Petroleum Institute
American Society for Testing and Materials
American Society of Electroplated Plastics
American Wire Producers Association
Asbestos Information Association North America
Asphalt Emulsion Manufacturers Association
Asphalt Institute
Brass and Bronze Ingot Institute
Bureau of Alcohol, Tobacco and Firearms (Treasury)
Cadmium Council
Cellulose Industry Standards Enforcement Program
Cemented Carbide Producers Association
Chemical Fabrics and Film Association
Chemical Manufacturers Association
Chemical Specialties Manufacturers Association
Chlorine Institute
Compressed Gas Association
Concrete Plant Manufacturers Bureau
Control Systems Manufacturers Division
Copper Development Association
Cosmetic, Toiletry and Fragrance Association
Cotton Warehouse Association of America
Cultured Marble Institute
Decorative Laminate Products Association
Department of Defense

Entomological Society of America
 Environmental Protection Agency
 Expanded Shale, Clay and Slate Institute
 Federal Highway Administration (DOT)
 Felt Manufacturers Council of Northern Textile Association
 Federation of Societies for Coating Technology
 Flat Glass Marketing Association
 Forging Industry Association
 Friction Materials Standards Institute
 Glass Tempering Association
 Gold Institute
 Gypsum Association
 Indiana Limestone Institute of America
 Industrial Diamond Association of America
 Industrial Fabrics Association International
 Institute of Makers of Explosives
 Investment Casting Institute
 Jewelers Vigilance Committee
 Joint Neurosurgical Committee on Devices and Drugs
 Lead Industries Association
 Leather Industries of America
 Magnetic Materials Producers Association
 Manufacturing Jewelers and Silversmiths of America
 Marble Institute of America
 Metal Powder Industries Federation
 Metal Treating Institute
 Materials and Methods Standards Association
 Mineral Insulation Manufacturers
 National Association of Corrosion Engineers
 National Building Granite Quarries Association
 National Cotton Council
 National Lime Association
 National Lubricating Grease Institute
 National Slag Association
 National Stone Association
 North American Die Casting Association
 Perlite Institute
 Polyurethane Manufacturers Association
 Porcelain Enamel Institute
 Refractories Institute
 Rubber Manufacturers Association
 Safety Glazing Certification Council
 Salt Institute
 Semiconductor Equipment and Materials Institute
 Silver Institute
 Society of the Plastics Industry
 Sponge and Chamois Institute
 Southwest Research Institute
 Steel Bar Mills Association
 Steel Founders Society of America
 Steel Manufacturers Association
 Steel Service Center Institute
 Steel Structures Painting Council
 Technical Ceramics Manufacturers Association

Technical Ceramics Manufacturers Association
Thermal Insulation Manufacturers Association
Tin Research Institute
United States Hide, Skin and Leather Association
United States Testing Company
Wire Reinforcement Institute

MEDICAL AND HEALTH CARE

Accrediting Bureau of Health Education Schools
American Academy of Pediatrics
American Alliance for Health, Physical Education, Recreation and Dance
American Association for Respiratory Care
American Association of Neurological Surgeons
American Association of Poison Control Centers
American Association of Psychiatric Services for Children
American College of Surgeons
American Dental Association
American Electroencephalographic Society
American Heart Association
American Hospital Association
American Medical Association
American National Standards Institute
American Occupational Medical Association
American Pharmaceutical Association
American Podiatric Medical Association
American Psychiatric Association
American Psychoanalytic Association
American Society for Artificial Internal Organs
American Society for Medical Technology
American Society of Anesthesiologists
American Thoracic Society
Animal Health International
Asbestos Information Association North America
Association for the Advancement of Medical Instrumentation
College of American Pathologists
Congress of Neurological Surgeons
Defense Programs (DOE)
Entomological Society of America
Environment, Safety and Health (DOE)
Food and Drug Administration (DHHS)
Health Care Financing Administration (DHHS)
Health Industry Manufacturers Association
Helicopter Association International
Joint Neurosurgical Committee on Devices and Drugs
Mine Safety and Health Administration (DOL)
National Association of Hospital Purchasing Materials Management
Occupational Health Office (NASA)
Pharmaceutical Manufacturers Association
U.S. Pharmacopoeial Convention

MEDICAL DEVICES, EQUIPMENT, AND INSTRUMENTS

American Association of Neurological Surgeons
American College of Surgeons
American Dental Association
American Electroencephalographic Society
American Heart Association
American Society for Artificial Internal Organs
American Society for Testing and Materials
American Society of Anesthesiologists
American Thoracic Society
Association for the Advancement of Medical Instrumentation
Biological Stain Commission
Congress of Neurological Surgeons
Department of Defense
Department of Veterans Affairs
Defense Programs (DOE)
Dental Manufacturers of America
Food and Drug Administration (DHHS)
Health Industry Manufacturers Association
Joint Neurosurgical Committee on Devices and Drugs
Laser Institute of America
National Committee for Clinical Laboratory Standards
National Electrical Manufacturers Association
Orthopedic Surgical Manufacturers Association
Pharmaceutical Manufacturers Association
Radiological Society of North America
U.S. Pharmacopoeial Convention

OFFICE PRODUCTS

American Society for Testing and Materials
Association for Information and Image Management
Association of Records Managers and Administrators
Business and Institutional Furniture Manufacturers Association
Human Factors Society
Joint Commission on Printing (U.S. Congress)
Marketing Department (USPS)
Marking Device Association
National Association of Name Plate Manufacturers
National Office Products Association
Special Libraries Association

OPTICS, OPHTHALMIC PRODUCTS, AND EYE PROTECTION

American Institute of Physics
American Optometric Association
Automated Imaging Association
National Association of Manufacturing Opticians
National Society to Prevent Blindness
Optical Laboratories Association
Optical Society of America

PACKAGING AND PAPER

Adhesives Manufacturers Association
American Paper Institute
Automatic Identification Manufacturers Association
Can Manufacturers Institute
Composite Can and Tube Institute
Containerization and Intermodal Institute
Defense Programs (DOE)
Department of Defense
Federation of Automated Coding Technologies
Fibre Box Association
Flexible Packaging Association
Food Processing Machinery and Supplies Association
Glass Packaging Institute
Gravure Association of America
Gummed Industries Association
Joint Commission on Printing (U.S. Congress)
Marketing Department (USPS)
National Archives and Records Service (GSA)
National Food Processors Association
National Information Standards Organization
National Safe Transit Association
National Soft Drink Association
National Wooden Pallet and Container Association
Optical Product Code Council
Packaging Machinery Manufacturers Institute
Paperboard Packaging Council
Pressure Sensitive Tape Council
Printing Industries of America
Pulp and Paper Machinery Manufacturers Association
Steel Shipping Container Institute
Technical Association of the Pulp and Paper Industry
Tube Council of North America

PHOTOGRAPHY

American National Standards Institute
American Society of Cinematographers
American Society for Photogrammetry and Remote Sensing
Association for Information and Image Management
National Archives and Records Service (GSA)
National Association of Photographic Manufacturers
Optical Society of America
Photographic Society of America
Society of Motion Picture and Television Engineers

PLUMBING

American Insurance Association
American Pipe Fittings Association
American Society for Testing and Materials

American Society of Mechanical Engineers
American Society of Plumbing Engineers
American Society of Sanitary Engineering
Building Officials and Code Administrators International
Cast Iron Soil Pipe Institute
Cultured Marble Institute
Department of Veterans Affairs
Ductile Iron Pipe Association
International Association of Plumbing and Mechanical Officials
International Conference of Building Officials
Mechanical Contractors Association of America
National Association of Plumbing-Heating-Cooling Contractors
National Clay Pipe Institute
National Sanitation Foundation
National Spa and Pool Institute
National Water Well Association
Plastics Pipe Institute
Plumbing and Drainage Institute
Southern Building Code Congress International
Sump and Sewage Pump Manufacturers Association
Valve Manufacturers Association
Water Quality Association
Water Systems Council

PUBLIC HEALTH

Accrediting Bureau of Health Education Schools
American Association of Bioanalysts
American Association of Blood Banks
American Conference of Governmental Industrial Hygienists
American Industrial Hygiene Association
American Occupational Medical Association
American Optometric Association
American Public Health Association
American Society for Testing and Materials
American Society of Sanitary Engineering
American Thoracic Society
American Water Works Association
Animal Health International
Center for Disease Control (DHHS)
Entomological Society of America
Food and Drug Administration (DHHS)
Health Care Financing Administration (DHHS)
Health Physics Society
Human Factors Society
Illuminating Engineering Society of North America
International Association of Milk, Food and Environmental Sanitarians
National Automatic Merchandising Association
National Committee for Clinical Laboratory Standards
National Easter Seal Society
National Environmental Health Association
National Institute of Infant Services
National League for Nursing

National Pest Control Association
National Sanitation Foundation
National Society to Prevent Blindness
National Solid Wastes Management Association
National Water Well Association
Portable Sanitation Association
Textile Rental Services Association of America
U.S. Geological Survey (DOI)

QUALITY ASSURANCE AND TESTING

Aerospace Industries Association of America
Agricultural Marketing Service (USDA)
American Association for Clinical Chemistry
American Association for Laboratory Accreditation
American Association of Bioanalysts
American Association of Textile Chemists and Colorists
American Chemical Society
American Council of Independent Laboratories
American Crystallographic Association
American Dairy Products Institute
American Hospital Association
American Leather Chemists Association
American National Standards Institute
American Oil Chemists Society
American Society for Medical Technology
American Society for Nondestructive Testing
American Society for Quality Control
American Society for Testing and Materials
American Society of Brewing Chemists
American Society of Mechanical Engineers
American Statistical Association
Association of Official Analytical Chemists
Association of Official Seed Analysts
Automated Imaging Association
Biological Stain Commission
Bureau of Alcohol, Tobacco and Firearms (Treasury)
College of American Pathologists
Cosmetic, Toiletry and Fragrance Association
ETL Testing Laboratories
Defense Programs (DOE)
Federal Grain Inspection Service (USDA)
Food Safety and Inspection Service (USDA)
Gemological Institute of America
Institute of Electrical and Electronics Engineers
Institute of Environmental Sciences
International Electrical Testing Association
Inter-Society Color Council
Mine Safety and Health Administration (DOL)
National Committee for Clinical Laboratory Standards
National Conference of States on Building Codes and Standards
National Fire Protection Association
National Institute of Standards and Technology (Commerce)

National Marine Fisheries Service (Commerce)
National Oceanic and Atmospheric Administration (Commerce)
National Pest Control Association
National Standards Educators Association
Office of Procurement (GSA)
Portland Cement Association
Radio Technical Commission for Aeronautics
Society for Experimental Mechanics
Solar Rating and Certification Corporation
Southwest Research Institute
Underwriters Laboratories
United States Customs Service (Treasury)
United States Testing Company

RECREATION AND SPORTS

American Alliance for Health, Physical Education, Recreation and Dance
American Boat and Yacht Council
American Bowling Congress
American Fishing Tackle Manufacturers Association
American Society for Testing and Materials
Archery Manufacturers Organization
Billiard Council of America
Color Association of the United States
Eastern Bird Banding Association
National Association of Rocketry
National Federation of State High School Associations
National Model Railroad Association
National Operating Committee for Standards in Athletic Equipment
National Rifle Association of America
Recreation Vehicle Industry Association
SEMA Foundation
Snell Memorial Foundation
Snowmobile Safety and Certification Committee
Sporting Arms and Ammunition Manufacturers Institute
Sports Car Club of America
Trailer Hitch Manufacturers Association
Underwriters Laboratories
United Ski Industries Association
United States Coast Guard (DOT)
United States Golf Association
U.S. Tennis Court and Track Builders Association

SAFETY, FIRE PROTECTION, AND PUBLIC SAFETY

Alliance of American Insurers
American Association of Motor Vehicle Administrators
American Automobile Association
American Brush Manufacturers Association
American Bureau of Shipping
American Conference of Governmental Industrial Hygienists
American Fiber Manufacturers Association

American Hospital Association
American Hotel and Motel Association
American Industrial Hygiene Association
American Insurance Association
American Ladder Institute
American National Standards Institute
American Nuclear Society
American Society for Testing and Materials
American Society of Civil Engineers
American Society of Mechanical Engineers
American Society of Safety Engineers
American Textile Machinery Association
American Welding Society
Asbestos Information Association North America
Associated Locksmiths of America
Association for the Advancement of Medical Instrumentation
Association of American Railroads
Association of Home Appliance Manufacturers
American Society of Safety Engineers
Building Energy Research and Development (DOE)
Building Officials and Code Administrators International
Center for Disease Control (DHHS)
Chlorine Institute
Coated Abrasives Manufacturers Institute
Compressed Air and Gas Institute
Compressed Gas Association
Consumer Product Safety Commission
Distilled Spirits Council of the United States
Environment, Safety and Health (DOE)
Factory Mutual Research Corporation
Federal Aviation Administration (DOT)
Federal Highway Administration (DOT)
Flight Safety Foundation
Food and Drug Administration (DHHS)
Grain Elevator and Processing Society
Grinding Wheel Institute
Helicopter Association International
Housing and Urban Development, Department of
Human Factors Society
Industrial Safety Equipment Association
Institute of Electrical and Electronics Engineers
Institute of Makers of Explosives
Institute of Nuclear Materials Management
Institute of Transportation Engineers
International Association of Electrical Inspectors
International Association of Plumbing and Mechanical Officials
International Conference of Building Officials
International Electrical Testing Association
International Municipal Signal Association
International Society of Arboriculture
Laborers International Union of North America
Laser Institute of America
Lightning Protection Institute
Materials Transportation Bureau (DOT)

Mechanical Contractors Association of America
Mine Safety and Health Administration (DOL)
Minerals Management Service (DOI)
National Arborist Association
National Burglar and Fire Alarm Association
National Conference of States on Building Codes and Standards
National Cotton Council of America
National Council on Radiation Protection and Measurements
National Electrical Manufacturers Association
National Elevator Industry
National Federation of State High School Associations
National Fertilizer Solutions Association
National Fire Protection Association
National Fire Sprinkler Association
National Highway Traffic Safety Administration (DOT)
National Institute of Standards and Technology (Commerce)
National Kerosene Heater Association
National Propane Gas Association
National Rifle Association of America
National Safety Council
National Spa and Pool Institute
Nuclear Regulatory Commission
Occupational Safety and Health Administration (DOL)
Painting and Decorating Contractors of America
Portland Cement Association
Powder Actuated Tool Manufacturers Institute
Printing and Decorating Contractors of America
Program Management (Consumer Product Safety Commission)
Public Buildings Service (GSA)
Robotic Industries Association
Safety Glazing Certification Council
Scaffolding, Shoring and Forming Institute
Snell Memorial Foundation
Snowmobile Safety and Certification Committee
Society of Fire Protection Engineers
Southern Building Code Congress International
Sporting Arms and Ammunition Manufacturers Institute
Toy Manufacturers of America
Underwriters Laboratories
United Lightning Protection Association
United States Coast Guard (DOT)
Veterans Administration
Wood and Synthetic Flooring Institute
Wood Machinery Manufacturers of America

SANITATION

American Association of Cereal Chemists
American Dairy Products Institute
American Public Health Association
American Society of Plumbing Engineers
American Society of Sanitary Engineering
American Water Works Association

Baking Industry Sanitation Standards Committee
Cast Iron Soil Pipe Institute
Ductile Iron Pipe Association
Environmental Protection Agency
Housing and Urban Development, Department of
International Association of Milk, Food and Environmental Sanitarians
National Association of Plumbing-Heating-Cooling Contractors
National Automatic Merchandising Association
National Clay Pipe Institute
National Environmental Health Association
National Pest Control Association
National Sanitation Foundation
National Solid Wastes Management Association
National Spa and Pool Institute
Plumbing and Drainage Institute
Portable Sanitation Association
Textile Rental Services Association of America
Water Pollution Control Federation

SOCIAL WELFARE

American Association of Poison Control Centers
National Accreditation Council for Agencies Serving the Blind and
Visually Handicapped
National Easter Seal Society
National Library Service for the Blind and Physically Handicapped
(Library of Congress)
National Safety Council
National Society to Prevent Blindness
Public Buildings Service (GSA)
Snell Memorial Foundation
Standards Engineering Society
United States Council for International Business

TEXTILES AND CLOTHING

American Association of Textile Chemists and Colorists
American Fastener and Closure Association
American Fiber Manufacturers Association
American Furniture Manufacturers Association
American Home Economics Association
American Society for Testing and Materials
American Textile Machinery Association
Color Association of the United States
Consumer Product Safety Commission
Department of Defense
Elastic Fabric Manufacturers Council of Northern Textile Association
Felt Manufacturers Council of Northern Textile Association
Industrial Fabrics Association International
International Association of Wiping Cloths Manufacturers
International Fabricare Institute
National Cotton Council of America

Program Management (Consumer Product Safety Commission)
Tanners Council of America
Textile Rental Services Association of America
United States Testing Company

TRANSPORTATION

Aeronautical Radio, Incorporated
Aerospace Industries Association of America
Aircraft Locknut Manufacturers Association
Aircraft Owners and Pilots Association
Air Transport Association of America
American Association of Motor Vehicle Administrators
American Association of State Highway and Transportation Officials
American Automobile Association
American Boat and Yacht Council
American Bureau of Shipping
American Bus Association
American Helicopter Society
American Institute of Aeronautics and Astronautics
American Petroleum Institute
American Railway Engineering Association
American Road and Transportation Builders Association
Animal Health International
Association of American Railroads
Certified Automotive Parts Association
Compressed Gas Association
Containerization and Intermodal Institute
Electronic Data Interchange Association
Environment, Safety and Health (DOE)
Federal Aviation Administration (DOT)
Federal Highway Administration (DOT)
Flight Safety Foundation
General Aviation Manufacturers Association
Helicopter Association International
Institute of Nuclear Materials Management
Institute of Transportation Engineers
International Bridge, Tunnel and Turnpike Association
International Cargo Gear Bureau
International Mobile Air Conditioning Association
Maritime Administration (DOT)
Materials Transportation Bureau (DOT)
Motor Vehicle Manufacturers Association of the United States
National Association of Chain Manufacturers
National Automobile Theft Bureau
National Cargo Bureau
National Institute of Standards and Technology (Commerce)
National Safe Transit Association
National Tire Dealers and Retreaders Association
Occupational Safety and Health Administration (DOL)
Railway Tie Association
Recreation Vehicle Industry Association
Society of Automotive Engineers

Society of Naval Architects and Marine Engineers
Steel Shipping Container Institute
Tire and Rim Association
Trailer Hitch Manufacturers Association
Truck Trailer Manufacturers Association
United Shipowners of America
United States Coast Guard (DOT)

WOOD AND WOOD PRODUCTS

American Institute of Timber Construction
American Ladder Institute
American Lumber Standards Committee
American Plywood Association
American Wood Preservers Bureau
American Wood-Preservers Association
Architectural Woodwork Institute
Cedar Shake and Shingle Bureau
Department of Housing and Urban Development
Fine Hardwood Veneer Association
Forest Service (USDA)
Hardwood Lumber Manufacturers Association
Hardwood Plywood Manufacturers Association
Housing and Urban Development, Department of
Maple Flooring Manufacturers Association
National Dimension Manufacturers Association
National Forest Products Association
National Hardwood Lumber Association
National Oak Flooring Manufacturers Association
National Particleboard Association
National Sash and Door Jobbers Association
National Woodwork Manufacturers Association
Northeastern Lumber Manufacturers Association
Redwood Inspection Service
Southern Cypress Manufacturers Association
Southern Forest Products Association
Southern Pine Inspection Bureau
Technical Association of the Pulp and Paper Industry
Truss Plate Institute
West Coast Lumber Inspection Bureau
Western Wood Products Association
Wood and Synthetic Flooring Institute
Wood Heating Alliance
Wood Machinery Manufacturers of America
Wood Moulding and Millwork Producers
Woodwork Institute of California

5.2 ACRONYMS AND INITIALS

This list of acronyms and initials serves to identify organizations, however, there is no exclusivity: there are four NFPA's, two EIA's and other duplications.

AA	Aluminum Association
AAA	American Automobile Association
AAAA	American Association of Advertising Agencies
AAB	American Association of Bioanalysts
AABB	American Association of Blood Banks
AABC	Associated Air Balance Council
AACC	American Association for Clinical Chemistry
AACC	American Association of Cereal Chemists
AACP	Association of Asbestos Cement Pipe Producers
AAFCO	Association of American Feed Control Officials
AAHPERD	American Alliance for Health, Physical Education, Recreation and Dance
AAI	Alliance of American Insurers
AALA	American Association for Laboratory Accreditation
A2LA	American Association for Laboratory Accreditation
AAMA	American Architectural Manufacturers Association
AAMI	Association for the Advancement of Medical Instrumentation
AAMVA	American Association of Motor Vehicle Administrators
AAN	American Association of Nurserymen
AANS	American Association of Neurological Surgeons
AAP	American Academy of Pediatrics
AAP	Association of American Publishers
AAPCC	American Association of Poison Control Centers
AAPFCO	Association of American Plant Food Control Officials
AAPG	American Association of Petroleum Geologists
AAPSC	American Association of Psychiatric Services for Children
AAR	Association of American Railroads
AARC	American Association for Respiratory Care
AASHTO	American Association of State Highway and Transportation Officials
AATCC	American Association of Textile Chemists and Colorists
ABA	American Bankers Association
ABA	American Bus Association
ABC	American Bowling Congress
ABFLO	Association of Bedding and Furniture Law Officials
ABHES	Accrediting Bureau of Health Education Schools
ABMA	American Boiler Manufacturers Association
ABMA	American Brush Manufacturers Association
ABS	American Bureau of Shipping
ABYC	American Boat and Yacht Council
ACA	American Chain Association
ACA	American Crystallographic Association
ACCA	Air Conditioning Contractors of America
ACGIH	American Conference of Governmental Industrial Hygienists
ACI	American Concrete Institute
ACIL	American Council of Independent Laboratories
ACM	Association for Computing Machinery
ACMI	Art and Craft Materials Institute

ACPA	American Concrete Pipe Association
ACPPA	American Concrete Pressure Pipe Association
ACS	American Chemical Society
ACS	American College of Surgeons
ACSM	American Congress on Surveying and Mapping
ACTS	Advisory Commission on Textbook Specifications
ADA	American Dental Association
ADDA	American Design Drafting Association
ADI	Air Distribution Institute
ADPA	American Defense Preparedness Association
ADPI	American Dairy Products Institute
ADSC	Association of Drilled Shaft Contractors
AEG	Association of Engineering Geologists
AEIC	Association of Edison Illuminating Companies
AEMA	Asphalt Emulsion Manufacturers Association
AES	Abrasive Engineering Society
AES	American Electroencephalographic Society
AES	American Electroplaters Society
AEVH	Association for Education of the Visually Handicapped
AFBMA	Anti-Friction Bearing Manufacturers Association
AFCA	American Fastener and Closure Association
AFMA	American Feed Manufacturers Association
AFMA	American Fiber Manufacturers Association
AFMA	American Furniture Manufacturers Association
AFS	American Foundrymen's Society
AFSI	Architectural Fabric Structures Institute
AFTMA	American Fishing Tackle Manufacturers Association
AGA	Abrasive Grain Association
AGA	American Gas Association
AGA	American Galvanizers Association
AGC	Associated General Contractors of America
AGMA	American Gear Manufacturers Association
AHA	American Hardboard Association
AHA	American Heart Association
AHA	American Hospital Association
AHAM	Association of Home Appliance Manufacturers
AHEA	American Home Economics Association
AHI	Animal Health International
AH&MA	American Hotel and Motel Association
AHS	American Helicopter Society
AI	Asphalt Institute
AIA	Automated Imaging Association
AIA	Aerospace Industries Association of America
AIA	American Institute of Architects
AIA	American Insurance Association
AIAA	American Institute of Aeronautics and Astronautics
AIA/NA	Asbestos Information Association North America
AIChE	American Institute of Chemical Engineers
AIDD	American Institute for Design and Drafting
AIHA	American Industrial Hygiene Association
AIIM	Association for Information and Image Management
AIMA	Automatic Identification Manufacturers Association
AIP	American Institute of Physics
AISC	American Institute of Steel Construction

AISE	Association of Iron and Steel Engineers
AISI	American Iron and Steel Institute
AITC	American Institute of Timber Construction
ALA	American Laminators Association
ALA	American Library Association
ALA	Associated Locksmiths of America
ALCA	American Leather Chemists Association
ALI	American Ladder Institute
ALI	American Lighting Institute
ALMA	Aircraft Locknut Manufacturers Association
ALSC	American Lumber Standards Committee
AMA	Adhesives Manufacturers Association
AMA	American Medical Association
AMCA	Air Movement and Control Association
AMHA	American Heart Association
AMO	Archery Manufacturers Organization
AMRA	Automatic Meter Reading Association
AMS	Agricultural Marketing Service (USDA)
ANMC	American National Metric Council
ANS	American Nuclear Society
ANSC	American National Standards Committee
ANSI	American National Standards Institute
AOA	American Optometric Association
AOAC	Association of Official Analytical Chemists
AOCS	American Oil Chemists Society
AOMA	American Occupational Medical Association
AOPA	Aircraft Owners and Pilots Association
AOSA	Association of Official Seed Analysts
AOSCA	Association of Official Seed Certifying Agencies
APA	American Plywood Association
APA	American Psychiatric Association
APA	American Psychoanalytical Association
APA	Architectural Precast Association
APFA	American Pipe Fittings Association
APhA	American Pharmaceutical Association
APHA	American Public Health Association
API	American Paper Institute
API	American Petroleum Institute
APMA	American Podiatric Medical Association
APPA	Association of Physical Plant Administrators of Universities and Colleges
APWA	American Public Works Association
AREA	American Railway Engineering Association
ARI	Air-Conditioning and Refrigeration Institute
ARINC	Aeronautical Radio, Incorporated
ARMA	Asphalt Roofing Manufacturers Association
ARMA	Association of Records Managers and Administrators
ARPI	Automotive Refrigeration Products Institute
ARTBA	American Road and Transportation Builders Association
ASA	Acoustical Society of America
ASA	American Society of Anesthesiologists
ASA	American Soybean Association
ASA	American Statistical Association
ASAE	American Society of Agricultural Engineers

ASAIIO	American Society for Artificial Internal Organs
ASBC	American Society of Brewing Chemists
ASC	American Society of Cinematographers
ASCE	American Society of Civil Engineers
ASEP	American Society of Electroplated Plastics
ASEV	American Society for Enology and Viticulture
ASHA	American Speech-Language and Hearing Association
ASHRAE	American Society of Heating, Refrigerating and Air- Conditioning Engineers
ASME	American Society of Mechanical Engineers
ASMT	American Society for Medical Technology
ASNT	American Society for Non-Destructive Testing
ASPA	American Sod Producers Association
ASPE	American Society of Plumbing Engineers
ASPRS	American Society for Photogrammetry and Remote Sensing
ASQC	American Society for Quality Control
ASSE	American Society of Safety Engineers
ASSE	American Society of Sanitary Engineering
ASTA	American Spice Trade Association
ASTM	American Society for Testing and Materials
ATA	Air Transport Association of America
ATMA	American Textile Machinery Association
ATS	American Thoracic Society
ATSC	Advanced Television Systems Committee
AVS	American Vacuum Society
AWCI	Association of Wall and Ceiling Industries, International
AWI	American Watchmakers Institute
AWI	Architectural Woodwork Institute
AWMA	Air and Waste Management Association
AWPA	American Wire Producers Association
AWPA	American Wood-Preservers Association
AWPB	American Wood Preservers Bureau
AWS	American Welding Society
AWWA	American Water Works Association
ABA	Blue Anchor
BATF	Bureau of Alcohol, Tobacco, and Firearms (Treasury)
BBII	Brass and Bronze Ingot Institute
BC	Bureau of Competition (FTC)
BCA	Billiard Congress of America
BCI	Battery Council International
BCP	Bureau of Consumer Protection (FTC)
BHMA	Builders Hardware Manufacturers Association
BIA	Brick Institute of America
BIFMA	Business and Institutional Furniture Manufacturers Association
BISG	Book Industry Study Group
BISSC	Baking Industry Sanitation Standards Committee
BMI	Book Manufacturers Institute
BOCA	Building Officials and Code Administrators International
BOMA	Building Owners and Management Association International
BSC	Biological Stain Commission
CABO	Council of American Building Officials
CAGI	Compressed Air and Gas Institute
CAM	Center for Agricultural Machinery

CAMI	Coated Abrasives Manufacturers Institute
CAM-I	Computer Aided Manufacturing International
CAP	College of American Pathologists
CAPA	Certified Automotive Parts Association
CARF	Commission of Accreditation of Rehabilitation Facilities
CAUS	Color Association of the United States
CBEMA	Computer and Business Equipment Manufacturers Association
CBM	Certified Ballast Manufacturers
CC	Cadmium Council
CCPA	Cemented Carbide Producers Association
CCTI	Composite Can and Tube Institute
CDA	Copper Development Association
CDC	Center for Disease Control (DHHS)
CEMA	Cleaning Equipment Manufacturers Association
CEMA	Conveyor Equipment Manufacturers Association
CFA	Consumer Federation of America
CFFA	Chemical Fabrics and Film Association
CFTMA	Caster and Floor Truck Manufacturers Association
CA	Compressed Gas Association
CI	Chlorine Institute
CI	Cordage Institute
CII	Containerization and Intermodal Institute
CIMA	Construction Industry Manufacturers Association
CISC	Ceiling and Interior Systems Contractors
CISEP	Cellulose Industry Standards Enforcement Program
CISPI	Cast Iron Soil Pipe Institute
CLFMI	Chain Link Fence Manufacturers Institute
CMA	Chemical Manufacturers Association
CMA	Cookware Manufacturers Association
CMI	Can Manufacturers Institute
CMI	Cultured Marble Institute
CNS	Congress of Neurological Surgeons
COS	Corporation for Open Systems International
CPB	Contractors Pump Bureau
CPMB	Concrete Plant Manufacturers Bureau
CPSC	Consumer Product Safety Commission
CRA	Corn Refiners Association
CRI	Carpet and Rug Institute
CRMA	Commercial Refrigerator Manufacturers Association
CRSI	Concrete Reinforcing Steel Institute
CSI	Construction Specifications Institute
CSMA	Chemical Specialties Manufacturers Association
CSMD	Control Systems Manufacturers Division (CPMB)
CSSB	Cedar Shake and Shingle Bureau
CSSIA	Computer Software and Services Industry Association
CTFA	Cosmetic, Toiletry and Fragrance Association
CTI	Cooling Tower Institute
CWAA	Cotton Warehouse Association of America
DECO	Document Engineering Company
DFAC	DFA of California
DFI	Deep Foundations Institute
DFISA	Dairy and Food Industries Supply Association
DHHS	Department of Health and Human Services
DHI	Door and Hardware Institute

DIPRA	Ductile Iron Pipe Research Association
DISC	Defense Industrial Supply Center (DOD)
DLPA	Decorative Laminate Products Association
DMA	Dental Manufacturers of America
DOC	Department of Commerce
DOD	Department of Defense
DOE	Department of Energy
DORCMA	Door Operator and Remote Controls Manufacturers Association
DOT	Department of Transportation
DPMA	Data Processing Management Association
DQSO	Defense Quality and Standardization Office (DOD)
DSCUS	Distilled Spirits Council of the United States
DSSP	Defense Standardization and Specification Program
DWGI	Diamond Walnut Growers, Incorporated
DWMI	Diamond Wheel Manufacturers Institute
EASA	Electrical Apparatus Service Association
EBBA	Eastern Bird Banding Association
ECSA	Exchange Carriers Standards Association
EDIA	Electronic Data Interchange Association
EEI	Edison Electric Institute
EFMC	Elastic Fabric Manufacturers Council of Northern Textile Association
EGSA	Electrical Generating Systems Association
EIA	Electronic Industries Association
EIA	Energy Information Administration (DOE)
EJMA	Expansion Joint Manufacturers Association
EMI	Equipment Manufacturers Institute
EMRC	Electronic Media Rating Council
EPA	Environmental Protection Agency
ESA	Entomological Society of America
ESCSI	Expanded Shale, Clay and Slate Institute
ES&H	Environment Safety & Health (DOE)
ETI	Equipment and Tool Institute
ETL	ETL Testing Laboratories
FAA	Federal Aviation Administration (DOT)
FACT	Federation of Automated Coding Technologies
FAS	Foreign Agricultural Service (USDA)
FASF	Financial Accounting Standards Foundation
FBA	Fibre Box Association
FCC	Federal Communications Commission
FCI	Fluid Controls Institute
FDA	Food and Drug Administration (DHHS)
FGIS	Federal Grain Inspection Service (USDA)
FGMA	Flat Glass Marketing Association
FHDA	Fir and Hemlock Door Association
FHVA	Fine Hardwood Veneer Association
FHWA	Federal Highway Administration (DOT)
FI	Fertilizer Institute
FIA	Forging Industry Association
FIEI	Now Equipment Manufacturers Institute
FIPS PUBS	Federal Information Processing Standards Publications
FMC	Felt Manufacturers Council of Northern Textile Association
FMCSR	Federal Motor Carrier Safety Regulations
FMRC	Factory Mutual Research Corporation

FMSI	Friction Materials Standards Institute
FPA	Flexible Packaging Association
FPMSA	Food Processing Machinery and Supplies Association
FSCT	Federation of Societies for Coatings Technology
FSF	Flight Safety Foundation
FSIS	Food Safety and Inspection Service (USDA)
FSS	Federal Supply and Services (GSA)
FTC	Federal Trade Commission
GA	Gypsum Association
GAA	Gravure Association of America
GAMA	Gas Appliance Manufacturers Association
GAMA	General Aviation Manufacturers Association
GATT	General Agreement on Tariffs and Trade
GCA	Graphic Communications Association
GEAPS	Grain Elevator and Processing Society
GI	Gold Institute
GIA	Gemological Institute of America
GIA	Gummed Industries Association
GPA	Gas Processors Association
GPI	Glass Packaging Institute
GPO	Government Printing Office
GRAS	Generally Recognized as Safe (FDA/DHHS)
GSA	General Services Administration
GSA/NARS	General Services Administration's National Archives & Records Services
GTA	Glass Tempering Association
GWJ	Grinding Wheel Institute
HAA	Home Automation Association
HAI	Helicopter Association International
HBSMAA	Hack and Band Saw Manufacturers Association of America
HCFA	Health Care Financing Administration (DHHS)
HEI	Heat Exchange Institute
HEPA	High Efficiency Particulate Air
HFS	Human Factors Society
HHS	Health and Human Services, Department of
HI	Hydraulic Institute
HI	Hydronics Institute
HI	Hair International
HIMA	Health Industry Manufacturers Association
HLMA	Hardwood Lumber Manufacturers Association
HPMA	Hardwood Plywood Manufacturers Association
HPS	Health Physics Society
HTI	Hand Tools Institute
HUD	Department of Housing and Urban Development
HVI	Home Ventilating Institute
IA	Irrigation Association
IAEI	International Association of Electrical Inspectors
IAMFES	International Association of Milk, Food and Environmental Sanitarians
IAPMO	International Association of Plumbing and Mechanical Officials
IAWCM	International Association of Wiping Cloth Manufacturers
IBEW	International Brotherhood of Electrical Workers
IBTTA	International Bridge, Tunnel and Turnpike Association

ICBO	International Conference of Building Officials
ICEA	Insulated Cable Engineers Association
ICGB	International Cargo Gear Bureau
ICI	Investment Casting Institute
ICIA	International Communications Industries Association
ICMA	International City Management Association
ICPS	International Coalition for Procurement Standards
ICSP	Interagency Committee for Standardization Policy
ICST	Institute for Computer Sciences and Technology
IDAA	Industrial Diamond Association of America
IDHA	International District Heating Association
IEEE	Institute of Electrical and Electronics Engineers
IES	Illuminating Engineering Society of North America
IES	Institute of Environmental Sciences
IETA	International Electrical Testing Association
IFAI	Industrial Fabrics Association International
IFI	Industrial Fasteners Institute
IFI	International Fabricare Institute
IFIA	International Fence Industry Association
IGCI	Industrial Gas Cleaning Institute
IHS	Information Handling Services
IIAR	International Institute of Ammonia Refrigeration
IIE	Institute of Industrial Engineers
ILIA	Indiana Limestone Institute of America
IMACA	International Mobile Air Conditioning Association
IME	Institute of Makers of Explosives
IMI	International Masonry Institute
IMSA	International Municipal Signal Association
INMM	Institute of Nuclear Materials Management
IPA	Industrial Perforators Association
IPC	Institute for Interconnecting and Packaging Electrical Circuits
ISA	Instrument Society of America
ISA	International Society of Arboriculture
ISANTA	International Staple, Nail and Tool Association
ISCC	Inter-Society Color Council
ISDSI	Insulated Steel Door Systems Institute
ISEA	Industrial Safety Equipment Association
ISPA	International Sleep Products Association
ISTC	Interdepartmental Screw Thread Committee (See Defense Industrial Supply Center)
ISTVS	International Society for Terrain-Vehicle Systems
ITA	Industrial Truck Association
ITA	International Tape/Disc Association
ITA	International Trade Administration (DOC)
ITE	Institute of Transportation Engineers
ITS	Institute for Telecommunications Sciences (NTIA, DoC)
JCP	Joint Committee on Printing (Congress of the U.S.)
JEDEC	Joint Electron Device Engineering Council
JIC	Joint Industrial Council
JMDC	Joint Materials and Devices Committee
JNCDD	Joint Neurosurgical Committee on Devices and Drugs
JPMA	Juvenile Products Manufacturers Association
JVC	Jewelers Vigilance Committee

LBI	Library Binding Institute
LC	Library of Congress
LESL	Law Enforcement Standards Laboratory (NIST, DOC)
LIA	Lead Industries Association
LIA	Leather Industries of America
LIA	Laser Institute of America
LIUNA	Laborers International Union of North America
LPI	Lightning Protection Institute
MA	Maritime Administration (DOT)
MAP	Manufacturing Automation Protocol, see COS
MBMA	Metal Building Manufacturers Association
MCAA	Mechanical Contractors Association of America
MCSMI	Masonry and Concrete Saw Manufacturers Institute
MDA	Marking Device Association
MDC	MUMPS Development Committee
MFMA	Maple Flooring Manufacturers Association
MHI	Manufactured Housing Institute
MHI	Material Handling Institute
MIA	Marble Institute of America
MIMA	Mineral Insulation Manufacturers Association
MJSA	Manufacturing Jewelers and Silversmiths of America
MLMA	Metal Ladder Manufacturers Association
MMA	Monorail Manufacturers Association
MMPA	Magnetic Materials Producers Association
MMS	Minerals Management Service
MMSA	Materials and Methods Standards Association
MOSAI	MO-SAI Institute
MPA	Magazine Publishers Association
MPIF	Metal Powder Industries Federation
MPS	Minimum Property Standards
MPTA	Mechanical Power Transmission Association
MSHA	Mine Safety and Health Administration (DOL)
MSSVFI or MSS	Manufacturers Standardization Society of the Valve and Fittings Industry
MTB	Materials Transportation Bureau (DOT)
MTI	Metal Treating Institute
MTM	MTM Association for Standards and Research
MUTCD	Manual on Uniform Traffic Control Devices (DOT)
MVMA	Motor Vehicle Manufacturers Association of the United States
NAA	National Arborist Association
NAAMM	National Association of Architectural Metal Manufacturer
NAB	National Association of Broadcasters
NACAB	National Accreditation Council for Agencies Serving the Blind and Visually Handicapped
NACE	National Association of Corrosion Engineers
NACE	National Association of County Engineers
NACM	National Association of Chain Manufacturers
NADCA	North American Die Casting Association
NAGDM	National Association of Garage Door Manufacturers
NAHM	National Association of Hosiery Manufacturers
NAHPMM	National Association of Hospital Purchasing Materials Management
NAIOP	National Association of Industrial and Office Parks
NAJA	National Association of Jewelry Appraisers

NAMA	National Automatic Merchandising Association
NAMO	National Association of Manufacturing Opticians
NANPM	National Association of Name Plate Manufacturers
NAPCA	National Association of Pipe Coating Applicators
NAPHCC	National Association of Plumbing-Heating-Cooling Contractors
NAPM	National Association of Photographic Manufacturers
NAPM	National Association of Punch Manufacturers
NAPM	National Association of Purchasing Management
NAR	National Association of Rocketry
NARM	National Association of Relay Manufacturers
NARS	National Archives and Records Service (GSA)
NASA	National Aeronautics and Space Administration
NASPO	National Association of State Purchasing Officials
NASTA	National Association of State Textbook Administrators
NATB	National Automobile Theft Bureau
NAVPUBS	Naval Publications and Forms Center
NBBPVI	National Board of Boiler and Pressure Vessel Inspectors
NBFAA	National Burglar and Fire Alarm Association
NBGQA	National Building Granite Quarries Association
NBS	Now National Institute of Standards and Technology (NIST)
NBSPA	National Bark and Soil Producers Association
NCA	National Coffee Association of the U.S.A.
NCB	National Cargo Bureau
NCCA	National Coil Coaters Association
NCCA	National Cotton Council of America
NCCLS	National Committee for Clinical Laboratory Standards
NCGA	National Computer Graphics Association
NCL	National Civic League Inc.
NCMA	National Concrete Masonry Association
NCPA	National Cottonseed Products Association
NCPI	National Clay Pipe Institute
NCPMA	National Clay Pot Manufacturers Association
NCPWB	National Certified Pipe Welding Bureau
NCRPM	National Council on Radiation Protection and Measurements
NCSBCS	National Conference of States on Building Codes and Standards
NCSCI	National Center for Standards and Certification Information (NIST, DOC)
NCSPA	National Corrugated Steel Pipe Association
NCTA	National Cable Television Association
NDMA	National Dimension Manufacturers Association
NEBB	National Environmental Balancing Bureau
NECA	National Electrical Contractors Association
NEHA	National Environmental Health Association
NEI	National Elevator Industry
NELMA	Northeastern Lumber Manufacturers Association
NEMA	National Electrical Manufacturers Association
NESDIS	National Environmental Satellite, Data, and Information Service (NOAA, DOC)
NESS	National Easter Seal Society
NETA	National Electrical Testing Association
NF	National Formulary
NFAIS	National Federation of Abstracting and Information Services
NFDA	National Fastener Distributors Association
NFI	National Fisheries Institute

NFPA	National Fire Protection Association
NFPA	National Fluid Power Association
NFPA	National Food Processors Association
NFPA	National Forest Products Association
NFSA	National Fertilizer Solutions Association
NFSA	National Fire Sprinkler Association
NFSHI	National Fisheries Institute
NFSHSA	National Federation of State High School Associations
NHLA	National Hardwood Lumber Association
NHTSA	National Highway Traffic Safety Administration (DOT)
NIBS	National Institute of Building Sciences
NIJ	National Institute of Justice (see NIST, DOC)
NIIS	National Institute of Infant Services
NIOP	National Institute of Oilseed Products
NIOSH	National Institute for Occupational Safety and Health (Center for Disease Control, DHHS)
NISO	National Information Standards Organization
NIST	National Institute of Standards and Technology (DOC)
NKHA	National Kerosene Heater Association
NLA	National Lime Association
NLGI	National Lubricating Grease Institute
NLN	National League for Nursing
NLSBPH	National Library Service for the Blind and Physically Handicapped (Library of Congress)
NMD	National Mapping Division (USGS, DOI)
NMEA	National Marine Electronics Association
NMFS	National Marine Fisheries Service (DOC)
NMRA	National Model Railroad Association
NMTBA	NMTBA - The Association for Manufacturing Technology
NOAA	National Oceanic and Atmospheric Administration (DOC)
NOCSAE	National Operating Committee for Standards in Athletic Equipment
NOFMA	National Oak Flooring Manufacturers Association
NOPA	National Oilseed Processors Association
NOPA	National Office Products Association
NPA	National Particleboard Association
NPCA	National Pest Control Association
NPFC	Naval Publications and Forms Center
NPGA	National Propane Gas Association
NPIRI	National Printing Ink Research Institute
NRA	National Rifle Association of America
NRC	Nuclear Regulatory Commission
NRCA	National Roofing Contractors Association
NRDCA	National Roof Deck Contractors Association
NRMA	National Retail Merchants Association
NSA	National Slag Association
NSA	National Standards Association
NSA	National Stone Association
NSC	National Safety Council
NSDA	National Soft Drink Association
NSDJA	National Sash and Door Jobbers Association
NSEA	National Standards Educators Association
NSF	National Sanitation Foundation
NSPB	National Society to Prevent Blindness

NSPI	National Spa and Pool Institute
NSPL	NASA Standard Parts List
NSPP	NASA Standard Parts Program
NSSEA	National School Supply and Equipment Association
NSTA	National Safe Transit Association
NSWMA	National Solid Wastes Management Association
NTA	Northern Textile Association
NTDRA	National Tire Dealers and Retreaders Association
NTIA	National Telecommunication and Information Administration (DOC)
NTIS	National Technical Information Services
NTMA	National Terrazzo and Mosaic Association
NVLAP	National Voluntary Laboratory Accreditation Program (NIST, DOC)
NWHA	National Wholesale Hardware Association
NWMA	National Woodwork Manufacturers Association
NWPCA	National Wooden Pallet and Container Association
NWS	National Weather Service (NOAA, DOC)
NWWA	National Water Well Association
OBERD	Office of Building Energy Research and Development (DOE)
OESH	Office of Environment, Safety, and Health (DOE)
OFCM	Office of Federal Coordination for Metrology (DOC)
OHO	Occupational Health Office (NASA)
OIRM	Office of Information Resources Management (USDA)
OLA	Optical Laboratories Association
ONRR	Office of Nuclear Regulatory Research (NRC)
OP	Office of Procurement (GSA)
OPCC	Optical Product Code Council
OPEI	Outdoor Power Equipment Institute
OPS	Office of Procurement and Supply (VA)
OSA	Optical Society of America
OSHA	Occupational Safety and Health Administration (DOL)
OSMA	Orthopedic Surgical Manufacturers Association
OSS	Office of Statistical Standards (DOE)
OST	Office of Science and Technology (FCC)
OTC	Over-the-Counter (FDA, DHHS)
OUSDRE	Office of the Undersecretary of Defense for Research and Engineering (DOD)
OUSTR	Office of the U.S. Trade Representative (Executive Office of the President)
PATMI	Powder Actuated Tool Manufacturers Institute
PCA	Portland Cement Association
PCMI	Photo Chemical Machining Institute
PDCA	Painting and Decorating Contractors of America
PDI	Plumbing and Drainage Institute
PEI	Porcelain Enamel Institute
PFI	Pipe Fabrication Institute
PI	Perlite Institute
PIA	Printing Industries of America
PLCA	Pipe Line Contractors Association
PMA	Pharmaceutical Manufacturers Association
PMA	Polyurethane Manufacturers Association
PMI	Project Management Institute
PMMD	Plant Mixer Manufacturers Division (CPMB)

PMMI	Packaging Machinery Manufacturers Institute
PPC	Paperboard Packaging Council
PPCI	Precast/Prestressed Concrete Institute
PPEMA	Portable Power Equipment Manufacturers Association
PPI	Plastics Pipe Institute
PPMMA	Pulp and Paper Machinery Manufacturers Association
PSA	Photographic Society of America
PSA	Portable Sanitation Association
PSTC	Pressure Sensitive Tape Council
PTI	Post-Tensioning Institute
REA	Rural Electrification Administration (USDA)
RFCI	Resilient Floor Covering Institute
RI	Refractories Institute
RIA	Robotic Industries Association
RIAA	Recording Industry Association of America
RIS	Redwood Inspection Service
RMA	Rice Millers Association
RMA	Rubber Manufacturers Association
RMI	Rack Manufacturers Institute
RSNA	Radiological Society of North America
RTA	Railway Tie Association
RTCA	Radio Technical Commission for Aeronautics
RTCM	Radio Technical Commission for Maritime Services
RVIA	Recreation Vehicle Industry Association
RWMA	Resistance Welder Manufacturers Association
SAAMI	Sporting Arms and Ammunition Manufacturers Institute
SAE	Society of Automotive Engineers
SBCCI	Southern Building Code Congress International
SBMA	Steel Bar Mills Association
SCCA	Sports Car Club of America
SCHHP	Standards Committee for Hi-Lok and Hi-Tigue Products
SCI	Sponge and Chamois Institute
SCMA	Southern Cypress Manufacturers Association
SDI	Steel Deck Institute
SDI	Steel Door Institute
SEM	Society for Experimental Mechanics
SEMI	Semiconductor Equipment and Materials Institute
SES	Standards Engineering Society
SET	System Engineering and Technology (NASA)
SFI	SEMA Foundation Incorporated
SFPA	Southern Forest Producers Association
SFPE	Society of Fire Protection Engineers
SFSA	Steel Founders Society of America
SGCC	Safety Glazing Certification Council
SI	Salt Institute
SI	Silver Institute
SI	SPARC International
SID	Society for Information Display
SIGMA	Sealed Insulating Glass Manufacturers Association
SJI	Steel Joist Institute
SLA	Special Libraries Association
SMA	Scale Manufacturers Association
SMA	Screen Manufacturers Association
SMA	Steel Manufacturers Association

SMA	Stucco Manufacturers Association
SMACNA	Sheet Metal and Air Conditioning Contractors National Association
SMF	Snell Memorial Foundation
SMI	Spring Manufacturers Institute
SMMA	Small Motor Manufacturers Association
SMPTE	Society of Motion Picture and Television Engineers
SNAME	Society of Naval Architects and Marine Engineers
SPFA	Steel Plate Fabricators Association
SPI	Society of the Plastics Industry
SPIB	Southern Pine Inspection Bureau
SRCC	Solar Rating and Certification Corporation
SRI	Southwest Research Institute
SSCC	Snowmobile Safety and Certification Committee
SSCI	Steel Service Center Institute
SSCI	Steel Shipping Container Institute
SSFI	Scaffolding, Shoring and Forming Institute
SSPC	Steel Structures Painting Council
SSPMA	Sump and Sewage Pump Manufacturers Association
STC	Society for Technical Communication
STI	Steel Tank Institute
SWI	Steel Window Institute
TAB	Traffic Audit Bureau
TAPPI	Technical Association of the Pulp and Paper Industry
TBA	Test Boring Association
TCA	Tile Council of America
TCMA	Technical Ceramics Manufacturers Association
TCNA	Tube Council of North America
TEMA	Tubular Exchanger Manufacturers Association
THMA	Trailer Hitch Manufacturers Association
TIMA	Thermal Insulation Manufacturers Association
TMA	Toy Manufacturers of America
TMMB	Truck Mixer Manufacturers Bureau
TOP	Technical and Office Protocol, see COS
TPI	Truss Plate Institute
TRA	Tire and Rim Association
TRI	Tin Research Institute
TRMI	Tubular Rivet and Machine Institute
TRSA	Textile Rental Services Association of America
TTMA	Truck Trailer Manufacturers Association
UIA	Ultrasonic Industry Association
UL	Underwriters Laboratories
ULPA	United Lightning Protection Association
USA	United Shipowners of America
USCG	United States Coast Guard (DOT)
USCIB	United States Council for International Business
USCS	United States Customs Service (Treasury)
USCTI	United States Cutting Tool Institute
USDA	Department of Agriculture
USDA/FS	Department of Agriculture Forest Service
USGA	United States Golf Association
USGS	United States Geological Survey (DOI)
USHSLA	United States Hide, Skin and Leather Association
USIA	United Ski Industries Association

USMA	United States Metric Association
USP	United States Pharmacopeial Convention
USPS	United States Postal Service
USPTO	United States Patent and Trademark Office (DOC)
USTA	United States Telephone Association
USTC	United States Testing Company
USTC&TBA	United States Tennis Court and Track Builders Association
USTR	United States Trade Representative (Executive Office of the President)
VA	Department of Veterans Affairs
VCMA	Vacuum Cleaner Manufacturers Association
VMA	Valve Manufacturers Association
VRCI	Variable Resistive Components Institute
VSI	Vinyl Siding Institute
VSMF	See Information Handling Services
VWDI	Vinyl Window and Door Institute
WCLIB	West Coast Lumber Inspection Bureau
WHA	Wood Heating Alliance
WIC	Woodwork Institute of California
WMMA	Wood Machinery Manufacturers of America
WMMP	Wood Moulding and Millwork Producers
WPCF	Water Pollution Control Federation
WQA	Water Quality Association
WRD	Water Resources Division, (USGS, DOI)
WRI	Wire Reinforcement Institute
WSC	Water Systems Council
WSFI	Wood and Synthetic Flooring Institute
WWPA	Western Wood Products Association

5.3 FORMER NAMES OF LISTED ORGANIZATIONS

Air Pollution Control Association
now: Air and Waste Management Association

American Association for Respiratory Therapy
now: American Association for Respiratory Care

American Die Casting Institute
now: North American Die Casting Association

American Dry Milk Institute
now: American Dairy Products Institute

American Home Lighting Institute
now: American Lighting Institute

American Hot Dip Galvanizers Association
now: American Galvanizers Association

American Podiatry Association
now: American Podiatric Medical Association

American Society of Photogrammetry
now: American Society for Photogrammetry and Remote Sensing

American Society of Enologists
now: American Society for Enology and Viticulture

Architectural Aluminum Manufacturers Association
now: American Architectural Manufacturers Association

Associated Master Barbers and Beauticians of America
now: Hair International

Association of Data Processing Service Organizations
now: The Computer Software and Services Industry Association

Ceilings and Interior Systems Construction Association
now: Ceiling and Interior Systems Contractors

Chain Saw Manufacturers Association
now: Portable Power Equipment Manufacturers Association

Council of American Flag Ship Operators
now: United Shipowners of America

Crayon Art and Craft Materials Institute
now: Art and Craft Materials Institute

Cutting Tool Manufacturers of America
now: United States Cutting Tool Institute

Dry Process Ceramic and Steatite Manufacturers Association
now: Technical Ceramics Manufacturers Association

Electrical Generating Systems Marketing Association
now: Electrical Generating Systems Association

Farm and Industrial Equipment Institute
now: Equipment Manufacturers Institute

Financial Accounting Standards Board
now: Financial Accounting Standards Foundation

Fine Hardwoods - American Walnut Association
now: Fine Hardwood Veneer Association

Gravure Technical Association
now: Gravure Association of America

Hardwood Dimension Manufacturers Association
now: National Dimension Manufacturers Association

Joint Committee on Devices and Drugs
now: Joint Neurosurgical Committee on Devices and Drugs

Man-Made Fiber Producers Association
now: American Fiber Manufacturers Association

Metal Cutting Tool Institute
now: United States Cutting Tool Institute

Methods and Materials Standards Association
now: Materials and Methods Standards Association

National Association of Bedding Manufacturers
now: International Sleep Products Association

National Association of Furniture Manufacturers
now: American Furniture Manufacturers Association

National Association of Plastic Fabricators
now: Decorative Laminate Products Association

National Automatic Sprinkler and Fire Control Association
now: National Fire Sprinkler Association

National Bark Producers Association
now: National Bark and Soil Producers Association

National Crushed Stone Association
now: National Stone Association

National Machine Tool Builders Association
now: NMTBA - The Association for Manufacturing Technology

National Municipal League
now: National Civic League Inc.

National Ski Areas Association
now: United Ski Industries Association

National Soybean Processors Association
now: National Oilseed Processors Association

Prestressed Concrete Institute
now: Precast/Prestressed Concrete Institute

Pulverized Limestone Association
now: National Stone Association

Red Cedar Shingle and Handsplit Shake Bureau
now: Cedar Shake and Shingle Bureau

Slide Fastener Association
now: American Fastener and Closure Association

Society for Experimental Stress Analysis
now: Society for Experimental Mechanics

Society of Die Casting Engineers
now: North American Die Casting Association

Solar Energy Industries Association
now: Solar Rating and Certification Corporation

Southern Hardwood Lumber Manufacturers Association
now: Hardwood Lumber Manufacturers Association

Tanners Council of America
now: Leather Industries of America

Transportation Data Coordinating Committee
now: Electronic Data Interchange Association

Whey Products Institute
now: American Dairy Products Institute

5.4 ORGANIZATIONS NO LONGER INVOLVED IN STANDARDIZATION

Organizations that had developed standards or were listed in the 1984 Directory and that are

- (a) no longer active in standardization;
- (b) defunct or merged with another organization; or
- (c) cannot be located.

Air Diffusion Council (a)
American Dental Trade Association (a)
American Mining Congress (a)
American Society of Lubrication Engineers (a)
American Trucking Association (a)
Barley and Malt Institute (b)
Barre Granite Association (b)
Bicycle Manufacturers Association (a)
Commission on Accreditation of Rehabilitation Facilities (c)
Council of National Library and Information Association (b)
Diesel Engine Manufacturers Association (b)
Facing Tile Institute (b)
Fire and Hemlock Door Association (b)
Fragrance Materials Association (a)
Garage Door Council (b)
Hardwood Lumber Manufacturers of Pennsylvania (b)
Institute of Scrap Iron and Steel (b)
International Database Association (b)
International Silo Association (b)
International Society for Terrain-Vehicle Systems (b)
Mill Mutual Fire Prevention Bureau (b)
National Association of Elevator Contractors (a)
National Association of Recycling Industries (b)
National Association of Standard Medical Vocabulary (b)
National Knitwear Manufacturers Association (a)
Noise Control Products and Materials Association (b)
Northern Hardwood and Pine Manufacturers Association (b)
Optical Manufacturers Association (a)
Product Safety Association (b)
Scientific Apparatus Makers Association (a)
Society of Manufacturing Engineers (a)
Thread Institute (b)
Truck Body and Equipment Association (c)
Western Electric Company (a)
Zinc Institute (b)

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BIBLIOGRAPHIC DATA SHEET

1. PUBLICATION OR REPORT NUMBER
NIST/SP-806
2. PERFORMING ORGANIZATION REPORT NUMBER
3. PUBLICATION DATE
February 1991

TITLE AND SUBTITLE

Standards Activities of Organizations in the United States

AUTHOR(S)

Robert B. Toth, Editor

PERFORMING ORGANIZATION (IF JOINT OR OTHER THAN NIST, SEE INSTRUCTIONS)

U.S. DEPARTMENT OF COMMERCE
NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY
GAITHERSBURG, MD 20899

7. CONTRACT/GRANT NUMBER

43NANB919062

8. TYPE OF REPORT AND PERIOD COVERED

Final

SPONSORING ORGANIZATION NAME AND COMPLETE ADDRESS (STREET, CITY, STATE, ZIP)

National Institute of Standards and Technology
Gaithersburg, MD 20899

SUPPLEMENTARY NOTES

Supersedes NBS Special Publication 681

☐ DOCUMENT DESCRIBES A COMPUTER PROGRAM; SF-185, FIPS SOFTWARE SUMMARY, IS ATTACHED.

ABSTRACT (A 200-WORD OR LESS FACTUAL SUMMARY OF MOST SIGNIFICANT INFORMATION. IF DOCUMENT INCLUDES A SIGNIFICANT BIBLIOGRAPHY OR LITERATURE SURVEY, MENTION IT HERE.)

This directory is a guide to mandatory and voluntary standards activities in the United States at the national level - both governmental and nongovernmental (trade associations, technical and other professional societies). It excludes proprietary (company standards) and state and local levels of government (i.e., county and municipal). It supersedes the 1984 edition (NBS SP 681), "Standards Activities of Organizations in the United States." It includes standards distributors, libraries, and information centers, and union lists of standards repositories by regional areas. It also lists organizations that no longer develop standards or have become defunct since previous directory was issued.

Over 750 current descriptive commentaries are formatted, with subject headings to facilitate access to specific information. The main sections cover nongovernment; federal government; sources of standards documents and information; a subject index and related listings covering acronyms and initials, defunct bodies, and those organizations with name changes. Organizations have been included if they develop standards or contribute to the standardization process, whether voluntary or mandatory, or are sources of standards documents or information. An introductory section provides general information on federal (including military) standards activities, a list of 20 major nongovernment standards developers, some historical notes, and an overview of U.S. (national) standardization activities.

KEY WORDS (6 TO 12 ENTRIES; ALPHABETICAL ORDER; CAPITALIZE ONLY PROPER NAMES; AND SEPARATE KEY WORDS BY SEMICOLONS)
codes; government standardization activities; nongovernment standardization activities;
overview of U.S. standardization activities; recommended practices; sources of standards;
specifications; standardization; standards; test methods

AVAILABILITY

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14. NUMBER OF PRINTED PAGES

736

15. PRICE

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