

National Bureau of Standards
Library, E-01 Admin. Bldg.

APR 13 1970

NBS TECHNICAL NOTE 519

UNITED STATES
DEPARTMENT OF
COMMERCE
PUBLICATION



Forensic Science: A Bibliography of Activation Analysis Papers

U.S.
DEPARTMENT
OF
COMMERCE
National
Bureau
of
Standards

NATIONAL BUREAU OF STANDARDS

The National Bureau of Standards¹ was established by an act of Congress March 3, 1901. Today, in addition to serving as the Nation's central measurement laboratory, the Bureau is a principal focal point in the Federal Government for assuring maximum application of the physical and engineering sciences to the advancement of technology in industry and commerce. To this end the Bureau conducts research and provides central national services in four broad program areas. These are: (1) basic measurements and standards, (2) materials measurements and standards, (3) technological measurements and standards, and (4) transfer of technology.

The Bureau comprises the Institute for Basic Standards, the Institute for Materials Research, the Institute for Applied Technology, the Center for Radiation Research, the Center for Computer Sciences and Technology, and the Office for Information Programs.

THE INSTITUTE FOR BASIC STANDARDS provides the central basis within the United States of a complete and consistent system of physical measurement; coordinates that system with measurement systems of other nations; and furnishes essential services leading to accurate and uniform physical measurements throughout the Nation's scientific community, industry, and commerce. The Institute consists of an Office of Measurement Services and the following technical divisions:

Applied Mathematics—Electricity—Metrology—Mechanics—Heat—Atomic and Molecular Physics—Radio Physics²—Radio Engineering²—Time and Frequency²—Astrophysics²—Cryogenics.³

THE INSTITUTE FOR MATERIALS RESEARCH conducts materials research leading to improved methods of measurement standards, and data on the properties of well-characterized materials needed by industry, commerce, educational institutions, and Government; develops, produces, and distributes standard reference materials; relates the physical and chemical properties of materials to their behavior and their interaction with their environments; and provides advisory and research services to other Government agencies. The Institute consists of an Office of Standard Reference Materials and the following divisions:

Analytical Chemistry—Polymers—Metallurgy—Inorganic Materials—Physical Chemistry.

THE INSTITUTE FOR APPLIED TECHNOLOGY provides technical services to promote the use of available technology and to facilitate technological innovation in industry and Government; cooperates with public and private organizations in the development of technological standards, and test methodologies; and provides advisory and research services for Federal, state, and local government agencies. The Institute consists of the following technical divisions and offices:

Engineering Standards—Weights and Measures—Invention and Innovation—Vehicle Systems Research—Product Evaluation—Building Research—Instrument Shops—Measurement Engineering—Electronic Technology—Technical Analysis.

THE CENTER FOR RADIATION RESEARCH engages in research, measurement, and application of radiation to the solution of Bureau mission problems and the problems of other agencies and institutions. The Center consists of the following divisions:

Reactor Radiation—Linac Radiation—Nuclear Radiation—Applied Radiation.

THE CENTER FOR COMPUTER SCIENCES AND TECHNOLOGY conducts research and provides technical services designed to aid Government agencies in the selection, acquisition, and effective use of automatic data processing equipment; and serves as the principal focus for the development of Federal standards for automatic data processing equipment, techniques, and computer languages. The Center consists of the following offices and divisions:

Information Processing Standards—Computer Information—Computer Services—Systems Development—Information Processing Technology.

THE OFFICE FOR INFORMATION PROGRAMS promotes optimum dissemination and accessibility of scientific information generated within NBS and other agencies of the Federal Government; promotes the development of the National Standard Reference Data System and a system of information analysis centers dealing with the broader aspects of the National Measurement System, and provides appropriate services to ensure that the NBS staff has optimum accessibility to the scientific information of the world. The Office consists of the following organizational units:

Office of Standard Reference Data—Clearinghouse for Federal Scientific and Technical Information³—Office of Technical Information and Publications—Library—Office of Public Information—Office of International Relations.

¹ Headquarters and Laboratories at Gaithersburg, Maryland, unless otherwise noted; mailing address Washington, D.C. 20234.

² Located at Boulder, Colorado 80302.

³ Located at 5285 Port Royal Road, Springfield, Virginia 22151.



TECHNICAL NOTE 519

ISSUED MARCH 1970

Nat. Bur. Stand. (U.S.), Tech. Note 519, 47 pages (Mar. 1970)

CODEN: NBTNA

Forensic Science: A Bibliography of Activation Analysis Papers

G. J. Lutz, Editor

Analytical Chemistry Division
Institute for Materials Research
National Bureau of Standards
Washington, D.C. 20234

NBS Technical Notes are designed to supplement the Bureau's regular publications program. They provide a means for making available scientific data that are of transient or limited interest. Technical Notes may be listed or referred to in the open literature.

PREFACE

This bibliography is the first of a series of bibliographies on the application of Activation Analysis to specific subjects. The bibliographies in this series are produced from the master files of the Analytical Chemistry Division's Activation Analysis Information Center and will be periodically updated.

W. Wayne Meinke, Chief
Analytical Chemistry Division

FORENSIC SCIENCE: A BIBLIOGRAPHY OF
ACTIVATION ANALYSIS PAPERS

G. J. Lutz, Editor

References to Activation Analysis in Forensic Science are indexed into 32 categories for precise literature searching by the Forensic Scientist. An Author index is included.

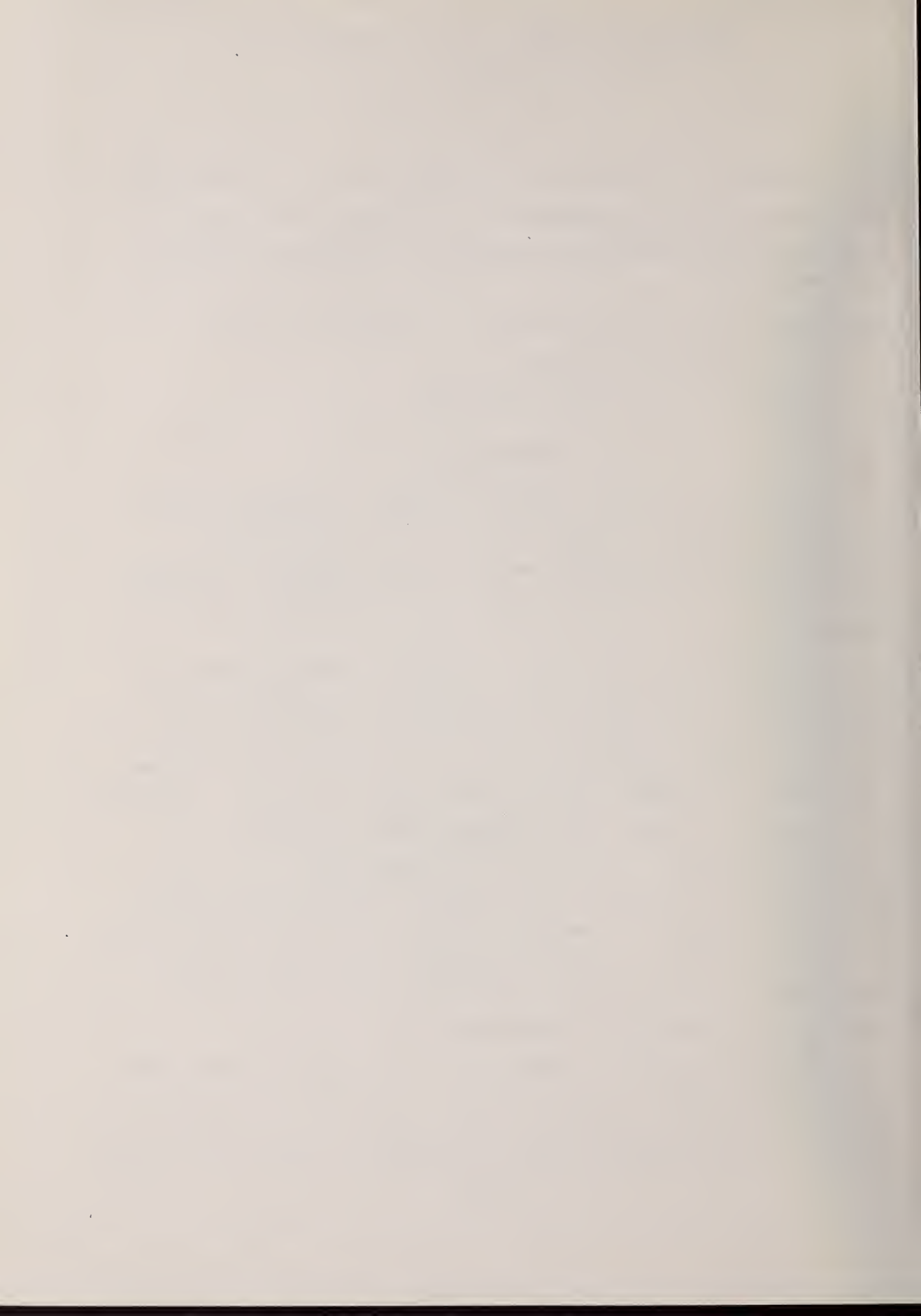
Key words: Activation analysis in forensic science;
forensic science.

INTRODUCTION

This publication, Forensic Science: A Bibliography of Activation Analysis Papers is the first of a series of specialized bibliographies on Activation Analysis, prepared by the Analytical Chemistry Division's Activation Analysis Center.

Publications obtained by the center for inclusion in the Activation Analysis file are indexed according to the broad categories of Element Determined, Matrix Analyzed, and Technique Used. Currently there are 106 descriptive terms under Matrix Analyzed and 53 under Technique Used. Candidates for inclusion in this bibliography were gleaned from the several categories on Forensic Science as well as those of archaeological specimens, art, drugs, food and pesticides, and toxic elements in humans. Those publications considered of interest to the Forensic Scientist have been reindexed with substantially greater specificity into 32 categories for more precise literature searching.

An author index has been included and it is hoped that readers will point out omissions to the editor. The Center plans to publish revisions to this bibliography as often as growth of the literature and innovations in the field warrant.



Accession Numbers

Accession Numbers



FORENSIC SCIENCE - ACCESSION NUMBERS

- 13 AMBROSINO, G. * PINDRUS, P,
NON-DESTRUCTIVE ANALYSIS OF ANCIENT METALLIC
OBJECTS,
REVUE DE METALLURGIE, 50, 136-138 (1953) (FRENCH),
FRANCE.
- 112 KOZUKA, H. * NIWASE, K.
APPLICATION OF ACTIVATION ANALYSIS IN CRIMINAL
INVESTIGATIONS,
KAGAKU KEISATSU KENKYUSHO HOKOKU, 19, 211-214
(SEPTEMBER 1966), (JAPANESE), NATIONAL RESEARCH
INSTITUTE OF POLICE SCIENCES, JAPAN,
- 134 DEWAR, W.A. * LENIHAN, J.M.A,
A CASE OF CHRONIC ARSENICAL POISONING EXAMINATION
OF TISSUE SAMPLES BY ACTIVATION ANALYSIS,
SCOT MED. J., 1, 236-238 (1956), (ENGLISH), DEPT,
OF DERMATOLOGY, STOBHILL GENERAL HOSPITAL AND
REGIONAL PHYSICS DEPT., GLASGOW,
- 183 RUCH, R.R. * GUINN, V.P. * PINKER, R.H,
DETECTION OF GUNPOWDER RESIDUES BY NEUTRON
ACTIVATION,
NUCL. SCI. AND ENG., 20, 381-385 (1964),
(ENGLISH), GENERAL ATOMIC DIVISION, GENERAL
DYNAMICS CORP., SAN DIEGO, CALIF,
- 198 GRIFFON, H. * BARBAUD, J,
THE USE IN TOXICOLOGY OF THE RADIOACTIVITY INDUCED
IN ARSENIC FOR THE DETECTION AND STUDY OF THE
DISTRIBUTION OF THIS ELEMENT IN HAIR,
COMPT. REND., 232, 1455-1457 (1951), (FRENCH),
FRANCE.
- 310 LENIHAN, J.M.A. * SMITH, H.
CLINICAL APPLICATIONS OF ACTIVATION ANALYSIS,
SECOND UNITED NATIONS INTERNATIONAL CONFERENCE ON
THE PEACEFUL USES OF ATOMIC ENERGY, 26, P/69,
238-241 (1958), (ENGLISH), REGIONAL PHYSICS DEPT.,
WESTERN REGIONAL HOSPITAL BOARD, GLASGOW,
- 351 VOIGT, A.F. * ABU-SAMRA, A,
ANALYSIS OF A DAMASCUS STEEL BY NEUTRON AND GAMMA
ACTIVATION,
IS-1105, 12P., FEBRUARY 25, 1965, (ENGLISH),
INSTITUTE FOR ATOMIC RESEARCH AND DEPARTMENTS OF
CHEMISTRY AND NUCLEAR ENGINEERING, IOWA STATE
UNIVERSITY, AMES, IOWA,

FORENSIC SCIENCE - ACCESSION NUMBERS

- 444 BRYAN, D.E. * GUINN, V.P.
 A METHOD OF COMPARING GAMMA-RAY SPECTRA FOR THE
 PRESENTATION OF ACTIVATION ANALYSIS RESULTS IN
 COURT.
 TRANS. AM. NUCL. SOCIETY, 7, 329 (1964),
 (ENGLISH). GENERAL ATOMICS, SAN DIEGO, CALIF.
- 551 ATOMES
 THE ATOMIC PILE - AID TO JUSTICE,
 ATOMES, 8, 75-80 (1953), (FRENCH), FRANCE,
- 561 FMELEUS, V.M. * SIMPSON, G.
 NEUTRON ACTIVATION ANALYSIS OF ANCIENT ROMAN
 POTSHERDS,
 NATURE, 185, 196 (1960), (ENGLISH), RESEARCH
 LABORATORY FOR ARCHAEOLOGY AND THE HISTORY OF ART,
 OXFORD.
- 565 FORSHUFVUD, S. * SMITH, H. * WASSEN, A.
 ARSENIC CONTENT OF NAPOLEON I S HAIR PROBABLY
 TAKEN IMMEDIATELY AFTER HIS DEATH,
 NATURE, 192, 103-105 (1961), (ENGLISH), VASAGATAN
 33, GOTEBOG C, SWEDEN,
- 584 JERVIS, R.E.
 NEUTRON ACTIVATION ANALYSIS,
 CHEMISTRY IN CANADA, 27-31 (MARCH 1956),
 (ENGLISH), DEVELOPMENT CHEMISTRY BRANCH, ATOMIC
 ENERGY OF CANADA LIMITED, CHALK RIVER, CANADA,
- 593 LENIHAN, J.M.A.
 PLATO OR PARACELSUS THE PHYSICIST S DILEMMA,
 BULL. INST. PHYS. AND PHYS. SOC., 285-288 (OCT.
 1961), (ENGLISH), REGIONAL PHYSICIST, WESTERN
 REGIONAL HOSPITAL BOARD, GLASGOW, SCOTLAND,
- 619 ZURER, K.
 NEUTRON ACTIVATION ANALYSIS OF ROMAN COPPER COINS
 FROM 250-500 A.D. PART I.
 CNAEM-21 (PT.1), 34P., JAN, 1965, (ENGLISH),
 TURKEY, AEC. CEKMECE NUCL. RES. CTR., ISTANBUL,
- 625 RATE, L.C.
 THE USE OF ACTIVATION ANALYSIS IN PROCEDURES FOR
 THE REMOVAL AND CHARACTERIZATION OF THE SURFACE
 CONTAMINANTS OF HAIR.
 J. FORENSIC SCI., 10, 60-72 (JAN, 1965),
 (ENGLISH). OAK RIDGE TENNESSEE

FORENSIC SCIENCE - ACCESSION NUMBERS

- 706 JERVIS, R.E. * PERKONS, A.K. * MACKINTOSH, W.D. *
KERR, M.F.
ACTIVATION ANALYSIS IN FORENSIC INVESTIGATION,
PROCEEDINGS INTERNATIONAL CONFERENCE ON MODERN
TRENDS IN ACTIVATION ANALYSIS, COLLEGE STATION,
TEXAS, 107-113, DECEMBER 1961, (ENGLISH), DEPT. OF
CHEMICAL ENGINEERING, UNIVERSITY OF TORONTO,
TORONTO, CANADA,
- 763 BATE, L.C. * PRO, M.J. * LEDDICOTTE, G.W.
IDENTIFICATION AND COMPARISON OF PHYSICAL EVIDENCE
FOR LAW ENFORCEMENT PURPOSES BY NEUTRON ACTIVATION
ANALYSIS.
ORNL-TM-363, 1-30, APPENDIX, 1-13 (SEPTEMBER 11,
1962), (ENGLISH), OAK RIDGE NATIONAL LABORATORY,
OAK RIDGE, TENN,
- 802 BARO, G.B. * GOMEZ, H. * RUDELLI, M. * DEIBE, J.
ACTIVATION ANALYSIS OF ARSENIC IN HUMAN HAIR AND
NAILS.
REPUBLICA ARGENTINA COMISION NACIONAL DE ENERGIA
ATOMICA, INFORME NO, 107, 8P, (1964), (SPANISH)
(ENGLISH SUMMARY), COMISION NACIONAL DE ENERGIA
ATOMICA, BUENOS AIRES,
- 970 MACKINTOSH, W.D. * JERVIS, R.E.
THE DETERMINATION OF ARSENIC IN BIOLOGICAL
MATERIALS.
CRDC-958, 11P., AUGUST 1960, (ENGLISH), ATOMIC
ENERGY OF CANADA LIMITED, CHEMISTRY AND METALLURGY
DIVISION, CHALK RIVER, ONTARIO, CANADA,
- 1031 BATE, L.C. * EMERY, J.F. * LEDDICOTTE, G.W. *
PRO, M.J.
THE USE OF NEUTRON-ACTIVATION ANALYSIS IN FORENSIC
SCIENCE.
TRANS. AM. NUCL. SOC., 5, NO. 2, 283 (1962),
(ENGLISH). OAK RIDGE NATIONAL LABORATORY, OAK
RIDGE, TENNESSEE.
- 1032 SAYRE, E.V.
AUTHENTICATION OF ANCIENT ARTIFACTS BY NUCLEAR
MEANS.
TRANS. AM. NUCL. SOC., 5, NO. 2, 283 (1962),
(ENGLISH). BROOKHAVEN NATIONAL LABORATORY, UPTON,
N.Y.

FORENSIC SCIENCE - ACCESSION NUMBERS

- 1034 RUCH, R.R. * GUINN, V.P. * PINKER, R.H.
DETECTION OF GUNPOWDER RESIDUES BY NEUTRON
ACTIVATION ANALYSIS,
TRANS. AM. NUCL. SOC., 5, NO. 2, 282 (1962),
(ENGLISH), GENERAL ATOMICS, SAN DIEGO,
CALIFORNIA.
- 1035 LEDDICOTTE, G.W. * ROSS, W.J. * EMERY, J.F.
THE APPLICATION OF NEUTRON-ACTIVATION ANALYSIS TO
INDIVIDUAL IDENTIFICATION,
TRANS. AM. NUCL. SOC., 5, NO. 2, 282-283 (1962),
(ENGLISH), OAK RIDGE NATIONAL LABORATORY, OAK
RIDGE, TENNESSEE.
- 1077 BATE, L.C. * PRO, M.J.
APPLICATION OF ACTIVATION ANALYSIS TO FORENSIC
SCIENCE--II, DRUGS,
INTERN. J. APPL. RAD. AND ISOTOPES, 15, 111-114
(1964), (ENGLISH) (FRENCH, RUSSIAN AND GERMAN
SUMMARIES), OAK RIDGE NATIONAL LABORATORY, OAK
RIDGE, TENNESSEE.
- 1132 AITKEN, M.J. * EMELEUS, V.M. * HALL, E.
NEUTRON ACTIVATION ANALYSIS OF ANCIENT SILVER
COINS,
INTERN. J. APPL. RAD. AND ISOTOPES, 9, 150 (1960),
(ENGLISH), RESEARCH LABORATORY FOR ARCHAEOLOGY AND
THE HISTORY OF ART, UNIVERSITY OF OXFORD, OXFORD,
ENGLAND.
- 1149 KIRK, P.L.
SOME FORENSIC PROBLEMS AMENABLE TO RADIOISOTOPE
TECHNIQUES,
TRANS. AM. NUCL. SOC., 5, 282 (NOV. 1962),
(ENGLISH), UNIVERSITY OF CALIFORNIA, BERKELEY,
CALIF.
- 1205 PAPPAS, A.C. * ALSTAD, J. * LUNDE, G.
DETERMINATION OF TRACE ELEMENTS IN OPIUM BY MEANS
OF ACTIVATION ANALYSIS, I, METHODS OF ANALYSIS AND
STUDIES REFERRING TO THE DETERMINATION OF THE
ORIGIN OF OPIUM,
RADIOCHIM. ACTA, 1, 109-117 (1963), (ENGLISH)
(GERMAN AND FRENCH SUMMARIES), DEPARTMENT OF
CHEMISTRY, UNIVERSITY OF OSLO, BLINDERN, NORWAY.

FORENSIC SCIENCE - ACCESSION NUMBERS

- 1225 SMITH, H. * FORSHUFVUD, S. * WASSEN, A,
 DISTRIBUTION OF ARSENIC IN NAPOLEON S HAIR.
 NATURE, 194, 725-726 (1962), (ENGLISH),
 DEPARTMENT OF FORENSIC MEDICINE, UNIVERSITY OF
 GLASGOW.
- 1290 U.S. ATOMIC ENERGY COMMISSION
 ATOMIC EVIDENCE BRINGS CONVICTION IN FEDERAL CASE
 INVOLVING DISTILLING AND TRANSPORTING OF
 MOONSHINE.
 U.S. ATOMIC ENERGY COMMISSION BULLETIN G-112, 30,
 MAY 13, 1964, (ENGLISH), U.S. ATOMIC ENERGY
 COMMISSION, WASHINGTON, D,C,
- 1301 AITKEN, M.J.
 PHYSICAL METHODS OF ARCHAEOLOGICAL RESEARCH,
 RESEARCH (LONDON), 15, 145-151 (1962), (ENGLISH),
 RESEARCH LABORATORY FOR ARCHAEOLOGY AND THE
 HISTORY OF ART, UNIVERSITY OF OXFORD, ENGLAND.
- 1306 AITKEN, M.J.
 PHYSICS APPLIED TO ARCHAEOLOGY--PART I,
 CONTEMPORARY PHYSICS, 3, 161-176 (1962),
 (ENGLISH). RESEARCH LABORATORY FOR ARCHAEOLOGY
 AND THE HISTORY OF ART, UNIVERSITY OF OXFORD,
 ENGLAND.
- 1376 RYBACH, L. * NISSEN, H.U.
 NEUTRON ACTIVATION OF MN AND NA TRACES IN MARBLES
 WORKED BY THE ANCIENT GREEKS,
 RADIOCHEMICAL METHODS OF ANALYSIS, IAEA VIENNA,
 VOL. I, 105-117, (1965), (ENGLISH) (FRENCH,
 RUSSIAN AND SPANISH SUMMARIES), INSTITUT FUR
 KRISTALLOGRAPHIE UND PETROGRAPHIE, EIDENOSSISCHE
 TECHNISCHE HOCHSCHULE, ZURICH, SWITZERLAND.
- 1422 FORSLEV, A.W.
 NONDESTRUCTIVE NEUTRON-ACTIVATION ANALYSIS OF
 HAIR.
 J. FORENSIC SCI., 11, 217-232 (APRIL 1966),
 (ENGLISH). CHICAGO POLICE LABORATORY, CHICAGO,
 ILLINOIS.
- 1442 OAK RIDGE NATIONAL LABORATORY
 ANALYTICAL CHEMISTRY DIVISION ANNUAL PROGRESS
 REPORT FOR PERIOD ENDING NOVEMBER 15, 1964,
 ORNL-3750, 144P., JANUARY 1965, (ENGLISH), OAK
 RIDGE NATIONAL LABORATORY, OAK RIDGE, TENN.

FORENSIC SCIENCE - ACCESSION NUMBERS

- 1504 FLEGENHEIMER, J.
 ACTIVATION ANALYSIS OF THE DUTCH 50 C, STAMP OF
 1867.
 RADIOCHIM, ACTA, 3, 61-62 (1964), (ENGLISH)
 (GERMAN AND FRENCH SUMMARIES), COMISION NACIONAL
 DE ENERGIA ATOMIC, BUENOS-AIRES, ARGENTINA.
- 1635 BATE, L.C. * EMERY, J.F. * LEDDICOTTE, G.W. *
 LYON, W.S. * PRO, M.J.
 APPLICATION OF ACTIVATION ANALYSIS TO FORENSIC
 SCIENCE--I, PHYSICAL EVIDENCE,
 INTERN.J. APPL. RAD. AND ISOTOPES, 14, 549-556
 (1963), (ENGLISH) (FRENCH, RUSSIAN AND GERMAN
 SUMMARIES), OAK RIDGE NATIONAL LABORATORY, OAK
 RIDGE, TENN.
- 1732 BAUMGARTNER, F. * STARK, H. * SCHONTAG, A,
 ACTIVATION ANALYTICAL DETERMINATION OF ANTIMONY IN
 THE ANNOGRAM RANGE FOR DETERMINATION OF CHARGE
 DISTANCE.
 Z. ANAL. CHEM., 197, 424-430 (1963), (GERMAN)
 (ENGLISH SUMMARY), INSTITUT FUR RADIOCHEMIE DER
 TECHNISCHEN HOCHSCHULE MUNCHEN, GERMANY.
- 1734 GOMEZ, H. * BARO, G.B.
 NEUTRON ACTIVATION ANALYSIS OF ARSENIC IN HUMAN
 HAIRS AND FINGER NAILS,
 CONF-313-6, SOCIETY FOR APPLIED SPECTROSCOPY, 2ND
 NATIONAL MEETING, SAN DIEGO, CALIFORNIA, 6P.,
 OCTOBER 14-18, 1963, (ENGLISH), ATOMIC ENERGY
 COMMISSION. ARGENTINA,
- 1736 JERVIS, R.E.
 INSTRUMENTAL ACTIVATION ANALYSIS FOR
 IDENTIFICATION OF FORENSIC SPECIMENS,
 CONF-313-8, SOCIETY FOR APPLIED SPECTROSCOPY, 2ND
 NATIONAL MEETING, SAN DIEGO, CALIFORNIA, 24P.,
 OCTOBER 14-18, 1963, (ENGLISH), DEPARTMENT OF
 CHEMICAL ENGINEERING AND APPLIED CHEMISTRY,
 UNIVERSITY OF TORONTO, TORONTO, CANADA.
- 1737 PERKONS, A.K. * HUMMEL, R.L. * JERVIS, R.E.
 COMPUTER ANALYSIS OF COMPLEX GAMMA-RAY SPECTRA,
 CONF-313-9, SOCIETY FOR APPLIED SPECTROSCOPY, 2ND
 NATIONAL MEETING, SAN DIEGO, CALIFORNIA, 15P.,
 OCTOBER 14-18, 1963, (ENGLISH), UNIVERSITY OF
 TORONTO, TORONTO, CANADA.

FORENSIC SCIENCE - ACCESSION NUMBERS

- 1825 HOUTMAN, J.P.W. * TURKSTRA, J,
NEUTRON ACTIVATION ANALYSIS AND ITS POSSIBLE
APPLICATION FOR AGE DETERMINATION OF PAINTINGS,
RADIOCHEMICAL METHODS OF ANALYSIS, IAEA VIENNA,
VOL. I, 85-103 (1965), (ENGLISH) (FRENCH, RUSSIAN
AND SPANISH SUMMARIES), REACTOR INSTITUT, DELFT,
NETHERLANDS,
- 1834 LECHTMAN, H.N. * SAYRE, E.V.,
NUCLEAR ACTIVATION AUTORADIOGRAPHY OF OIL PAINTS,
A PRELIMINARY STUDY,
BNL-8034, 11P., UNDATED, (ENGLISH), BROOKHAVEN
NATIONAL LABORATORY, UPTON, N.Y.,
- 1897 SAYRE, E.V.,
THE STUDY OF ANCIENT OBJECTS BY NEUTRONS,
BNL-4868, 20P., 1962. (ENGLISH), CHEMISTRY
DEPARTMENT, BROOKHAVEN NATIONAL LABORATORY, UPTON,
N.Y.,
- 1926 SAYRE, E.V.,
AUTHENTICATION OF ANCIENT ARTIFACTS BY NUCLEAR
MEANS,
TRANS. AM. NUCL. SOC., 5, 283 (NOV. 1962),
(ENGLISH), BROOKHAVEN NATIONAL LABORATORY, UPTON,
N.Y.,
- 1928 SMITH, H.,
THE INTERPRETATION OF THE ARSENIC CONTENT OF HUMAN
HAIR,
J. FORENSIC SCIENCE SOCIETY, 4, NO. 4, 192-199
(1964), (ENGLISH), DEPARTMENT OF FORENSIC
MEDICINE, THE UNIVERSITY OF GLASGOW, SCOTLAND,
- 2143 JERVIS, R.E.,
PRESENT STATUS OF HAIR CHARACTERIZATION STUDIES BY
ACTIVATION ANALYSIS,
TRANS. AMER. NUCL. SOC., 10, 66 (JUNE 1967),
(ENGLISH), UNIVERSITY OF TORONTO, TORONTO,
CANADA,
- 2144 LUKENS, H.R. * GUINN, V.P.,
NEUTRON ACTIVATION ANALYSIS OF BULLET LEAD,
TRANS. AMER. NUCL. SOC., 10, 66-67 (JUNE 1967),
(ENGLISH), GENERAL ATOMICS, SAN DIEGO, CALIF,

FORENSIC SCIENCE - ACCESSION NUMBERS

- 2145 THOMAS, C.C., JR. * PILLAY, K.K.S. * SONDEL, J.A. *
 THOMAS, R.C.
 ACTIVATION ANALYSIS OF GUNPOWDER RESIDUES
 CONTAINING RARE-EARTH TRACERS,
 TRANS. AMER. NUCL. SOC., 10, 67 (JUNE 1967),
 (ENGLISH), WNY-WRC, AND V.A. HOSPITAL, BUFFALO,
 N.Y.
- 2464 KUROTA, M. * TOKUNAGA, O. * NAKAMURA, Y.
 DETECTION OF SB AND BA IN GUNPOWDER RESIDUES BY
 NEUTRON ACTIVATION ANALYSIS,
 KAGAKU KEISATSU KENKYUSHO HOKOKU, 19, 261-268
 (DECEMBER 1966), (JAPANESE) (ENGLISH SUMMARY),
 NATIONAL RESEARCH INSTITUTE OF POLICE SCIENCES,
 JAPAN.
- 2495 VOIGT, A.F. * ABU-SAMRA, A.
 ANALYSIS OF A DAMASCUS STEEL BY NEUTRON AND GAMMA
 ACTIVATION.
 PROCEEDINGS 1965 INTERNATIONAL CONFERENCE, MODERN
 TRENDS IN ACTIVATION ANALYSIS, COLLEGE STATION,
 TEXAS, 22-25, APRIL 19-22, 1965, (ENGLISH),
 DEPARTMENTS OF CHEMISTRY AND NUCLEAR ENGINEERING,
 IOWA STATE UNIVERSITY, AMES, IOWA.
- 2517 BRYAN, D.E. * GUINN, V.P. * SETTLE, D.M.
 NEW DEVELOPMENTS IN THE APPLICATION OF NEUTRON
 ACTIVATION ANALYSIS TO PROBLEMS IN SCIENTIFIC
 CRIME DETECTION,
 PROCEEDINGS 1965 INTERNATIONAL CONFERENCE, MODERN
 TRENDS IN ACTIVATION ANALYSIS, COLLEGE STATION,
 TEXAS, 140-145, APRIL 19-22, 1965, (ENGLISH),
 GENERAL ATOMIC DIVISION, GENERAL DYNAMICS
 CORPORATION, SAN DIEGO, CALIF.
- 2548 PERKONS, A.K. * JERVIS, R.E.
 HAIR INDIVIDUALIZATION STUDIES,
 PROCEEDINGS 1965 INTERNATIONAL CONFERENCE, MODERN
 TRENDS IN ACTIVATION ANALYSIS, COLLEGE STATION,
 TEXAS, 295-303, APRIL 19-22, 1965, (ENGLISH),
 DEPARTMENT OF CHEMICAL ENGINEERING AND APPLIED
 CHEMISTRY, UNIVERSITY OF TORONTO, AND ATTORNEY
 GENERALS LABORATORY, TORONTO, CANADA.
- 2570 FORSHUFVUD, S. * SMITH, H. * WASSEN, A.
 NAPOLEONS ILLNESS 1816-1821 IN THE LIGHT OF
 ACTIVATION ANALYSES OF HAIRS FROM VARIOUS DATES.
 ARCHIV FUR TOXIKOLOGIE, 20, 210-219 (1964),
 (ENGLISH). GOTEBORG C, SWEDEN.

FORENSIC SCIENCE - ACCESSION NUMBERS

- 2575 ASHWORTH, M.J. * ABELÉS, T.P.,
NEUTRON ACTIVATION ANALYSIS AND ARCHAEOLOGY,
NATURE, 210, NO. 5031, 9-11 (APRIL 2, 1966),
(ENGLISH), CANADIAN HISTORIC SITES DIVISION,
OTTAWA, CANADA.
- 2589 BROOKHAVEN NATIONAL LABORATORY
PHYSICAL SCIENCES AND ENGINEERING,
BNL-867, 1-117, JULY 1, 1964, (ENGLISH),
BROOKHAVEN NATIONAL LABORATORY, UPTON, N.Y.
- 2605 BRYAN, D.E. * GUINN, V.P.,
USE OF NEUTRON ACTIVATION ANALYSIS IN SCIENTIFIC
CRIME DETECTION, 12-MONTH SUMMARY REPORT FOR THE
PERIOD NOVEMBER 1, 1963-OCTOBER 31, 1964,
GA-6152, 59P., FEBRUARY 15, 1965, (ENGLISH),
JOHN JAY HOPKINS LABORATORY FOR PURE AND APPLIED
SCIENCE, GENERAL ATOMIC DIVISION, SAN DIEGO,
CALIF.
- 2607 BRYAN, D.E. * GUINN, V.P.,
APPLICATION OF NEUTRON ACTIVATION ANALYSIS IN
SCIENTIFIC CRIME DETECTION, 18-MONTH SUMMARY
REPORT FOR THE PERIOD MAY 1, 1962-OCTOBER 31,
1963,
GA-5556, 94P., JULY 27, 1964, (ENGLISH), JOHN JAY
HOPKINS LABORATORY FOR PURE AND APPLIED SCIENCE,
GENERAL ATOMIC DIVISION, SAN DIEGO, CALIF.
- 2645 WYTTEBACH, A.,
USES OF ACTIVATION ANALYSIS FOR CRIMINAL PROBLEMS,
I, CAR PAINT,
NEUE TECH., 7, 85-92 (APRIL 1965), (GERMAN),
EIDG. INSTITUT FÜR REAKTORFORSCHUNG, WÜRENLINGEN,
GERMANY,
- 2647 PRO, M.J. * SCHLESINGER, H.L. * COHAN, M.D.,
ACTIVATION ANALYSIS OF PHYSICAL EVIDENCE CONNECTED
WITH ILLICIT DISTILLERIES,
J. ASSOC. OFFIC. AGR. CHEMISTS, 48, 459-471 (JUNE
1965), (ENGLISH), INTERNAL REVENUE SERVICE,
WASHINGTON, D.C.
- 2648 SCHLESINGER, H.L. * PRO, M.J. * HOFFMAN, C.M. *
COHAN, M.D.,
ACTIVATION ANALYSIS OF DRUGS,
J. ASSOC. OFFIC. AGR. CHEM., 48, 1139-1147
(DECEMBER 1965), (ENGLISH), INTERNAL REVENUE
SERVICE, WASHINGTON, D.C.

FORENSIC SCIENCE - ACCESSION NUMBERS

- 2694 SCHROEDER, G.L. * KRANER, H.W. * EVANS, R.D.
 THE APPLICATION OF LITHIUM-DRIFTED GERMANIUM
 DETECTORS TO NEUTRON ACTIVATION ANALYSIS--STUDIES
 IN GEOCHEMISTRY AND OF 15TH CENTURY PRINTING,
 TRANS. AM. NUCL. SOC., 8, 327 (NOVEMBER 1965),
 (ENGLISH). MASSACHUSETTS INSTITUTE OF TECHNOLOGY,
 CAMBRIDGE, MASS.
- 2699 BATE, L.C. * DYER, F.F.
 TRACE ELEMENTS IN HUMAN HAIR,
 NUCLEONICS, 23, NO. 10, 74-78, 80-81 (OCTOBER
 1965), (ENGLISH), OAK RIDGE NATIONAL LABORATORY,
 OAK RIDGE, TENNESSEE.
- 2739 JOHANSEN, O. * LUNDE, G. * STEINNES, E.
 DETERMINATION OF TRACE ELEMENTS IN PHARMACEUTICALS
 BY NEUTRON ACTIVATION ANALYSIS,
 KR-91, 14P., FEBRUARY 1965, (ENGLISH), INSTITUTT
 FOR ATOMENERGI, KJELLER ESTABLISHMENT, KJELLER,
 NORWAY.
- 2762 SCHROEDER, G.L. * KRANER, H.W. * EVANS, R.D. *
 BRYDGES, T.
 LITHIUM DRIFTED GERMANIUM DETECTORS, APPLICATIONS
 TO NEUTRON ACTIVATION ANALYSIS,
 SCIENCE, 151, NO. 3712, 815-817 (18 FEBRUARY
 1966), (ENGLISH), MASSACHUSETTS INSTITUTE OF
 TECHNOLOGY, CAMBRIDGE, MASS.
- 2765 TRAVESI JIMENEZ, A.
 APPLICATION OF ACTIVATION ANALYSIS TO CRIMINAL
 INVESTIGATION,
 ENERGIA NUCL. (MADRID), 9, 217-225 (MAY-JUNE
 1965), (SPANISH), JUNTA DE ENERGIA NUCLEAR,
 DIRECCION DE QUIMICA E ISOTOPOS, SECCION DE
 RADIOQUIMICA.
- 2782 RUCH, R.R. * MADIGAN, S.B. * GUINN, V.P.
 APPLICATIONS OF NEUTRON ACTIVATION ANALYSIS IN
 SCIENTIFIC CRIME DETECTION, QUARTERLY REPORT FOR
 THE PERIOD ENDING JULY 31, 1963,
 GA-4576, 24P., AUGUST 30, 1963, (ENGLISH),
 GENERAL ATOMIC, GENERAL DYNAMICS, SAN DIEGO,
 CALIF.

FORENSIC SCIENCE - ACCESSION NUMBERS

- 2790 GUINN, V.P. * MADIGAN, S.C. * RUCH, R.R.
 APPLICATIONS OF NEUTRON-ACTIVATION ANALYSIS IN
 SCIENTIFIC CRIME DETECTION, QUARTERLY REPORT FOR
 THE PERIOD ENDING APRIL 30, 1963,
 GA-4297, 22P., MAY 31, 1963, (ENGLISH), GENERAL
 ATOMIC, GENERAL DYNAMICS, SAN DIEGO, CALIF.
- 2791 GUINN, V.P.
 APPLICATIONS OF NEUTRON-ACTIVATION ANALYSIS IN
 SCIENTIFIC CRIME DETECTION, QUARTERLY REPORT FOR
 THE PERIOD ENDING JULY 31, 1962,
 GA-3491, 36P., SEPTEMBER 18, 1962, (ENGLISH),
 GENERAL ATOMIC, GENERAL DYNAMICS, SAN DIEGO,
 CALIFORNIA.
- 2792 GUINN, V.P. * RUCH, R.R. * BELLANCA, S.C.
 APPLICATIONS OF NEUTRON-ACTIVATION ANALYSIS IN
 SCIENTIFIC CRIME DETECTION, QUARTERLY REPORT FOR
 THE PERIOD ENDING JANUARY 31, 1963,
 GA-4041, 19P., FEBRUARY 28, 1963, (ENGLISH),
 GENERAL ATOMIC, GENERAL DYNAMICS, SAN DIEGO,
 CALIFORNIA.
- 2793 BUCHANAN, J.D. * RUCH, R.R.
 APPLICATIONS OF NEUTRON-ACTIVATION ANALYSIS IN
 SCIENTIFIC CRIME DETECTION, QUARTERLY REPORT FOR
 THE PERIOD ENDING OCTOBER 31, 1962,
 GA-3664, 27P., NOVEMBER 15, 1962, (ENGLISH),
 GENERAL ATOMIC, GENERAL DYNAMICS, SAN DIEGO,
 CALIFORNIA.
- 2926 GOMEZ, H. * BARO, G.B.
 NEUTRON ACTIVATION ANALYSIS OF HUMAN HAIRS AND
 NAILS FOR DETERMINING ARSENIC TRACES,
 PRIMERA CONFERENCIA INTERAMERICANA DE
 RADIOQUIMICA, WASHINGTON, D.C., UNION
 PANAMERICANA, 51-55, 1965, (SPANISH), COMISION
 NACIONAL DE ENERGIA ATOMICA, BUENOS AIRES,
 ARGENTINA.
- 2931 LEDDICOTTE, G.W. * EMERY, J.F. * BATE, L.C.
 THE ASSAY, CHARACTERISTICS, COMPOSITION, AND
 ORIGIN OF OPIUM, I, THE PRELIMINARY STUDY ON THE
 USE OF ACTIVATION ANALYSIS IN THE DETERMINATION OF
 THE ORIGIN OF OPIUM,
 ORNL-TM-1263, 22P., SEPTEMBER 7, 1965, (ENGLISH),
 OAK RIDGE NATIONAL LABORATORY, OAK RIDGE,
 TENNESSEE.

FORENSIC SCIENCE - ACCESSION NUMBERS

- 2943 LENIHAN, J.M.A.,
THE APPLICATION OF NUCLEAR PHYSICS TO THE STUDY OF
HISTORICAL PROBLEMS,
TRANS. RHODESIA SCI, ASSN., 50, 80-85 (1964),
(ENGLISH), WESTERN REGIONAL HOSPITAL BOARD,
GLASGOW, SCOTLAND,
- 2945 SAYRE, E.V.,
REFINEMENT IN METHODS OF NEUTRON ACTIVATION
ANALYSIS OF ANCIENT GLASS OBJECTS THROUGH THE USE
OF LITHIUM DRIFTED GERMANIUM DIODE COUNTERS,
BNL-9614, 28P., 1965. (ENGLISH), BROOKHAVEN
NATIONAL LABORATORY, UPTON, N.Y.,
- 2958 SMITH, H.,
ARSENIC IN BIOLOGICAL TISSUE, ITS ESTIMATION BY
ACTIVATION ANALYSIS, PART 2,
J. FORENSIC MEDICINE, 9, 143-149 (OCTOBER-DECEMBER
1962). (ENGLISH), DEPARTMENT OF FORENSIC
MEDICINE, UNIVERSITY OF GLASGOW, SCOTLAND,
- 2959 RUCH, R.R. * BUCHANAN, J.D. * GUINN, V.P. *
BELLANCA, S.C. * PINKER, R.H.,
NEUTRON ACTIVATION ANALYSIS IN SCIENTIFIC CRIME
DETECTION--SOME RECENT DEVELOPMENTS,
J. FORENSIC SCIENCE, 9, 119-133 (JANUARY 1964),
(ENGLISH), SAN DIEGO, CALIFORNIA,
- 3065 KRISHNAN, S.S.,
DETERMINATION OF MUZZLE-TARGET DISTANCE IN GUNSHOT
FIRINGS BY NEUTRON ACTIVATION ANALYSIS,
TRANS. AMER. NUCL. SOC., 9, 88-89 (JUNE 1966),
(ENGLISH), ATTORNEY GENERALS LABORATORY, TORONTO,
CANADA,
- 3486 BRYAN, D.E. * GUINN, V.P. * SETTLE, D.M.,
APPLICATIONS OF NEUTRON ACTIVATION ANALYSIS IN
SCIENTIFIC CRIME DETECTION, 14-MONTH SUMMARY
REPORT, NOVEMBER 1, 1964-DECEMBER 31, 1965,
GA-7041, 57P., MARCH 20, 1966, (ENGLISH), JOHN
JAY HOPKINS LABORATORY FOR PURE AND APPLIED
SCIENCE, SAN DIEGO, CALIFORNIA,
- 3504 GUINN, V.P.,
FORENSIC APPLICATIONS OF ACTIVATION ANALYSIS,
ACTIVATION ANALYSIS, PRINCIPLES AND APPLICATIONS,
LENIHAN, J.M.A., THOMSON, S.J. (EDS.), NEW YORK,
ACADEMIC PRESS, 125-127, 1965, (ENGLISH),
GENERAL ATOMIC DIVISION, GENERAL DYNAMIC CORP.,
SAN DIEGO, CALIFORNIA,

FORENSIC SCIENCE - ACCESSION NUMBERS

- 3708 RUTTINK, J.
 THE APPLICATION OF ACTIVATION ANALYSIS IN
 BIOCHEMISTRY, QUALITATIVE ANALYSIS OF HAIR SAMPLES
 WITH THE AID OF THE GAMMA SPECTRUM AFTER NEUTRON
 IRRADIATION IN THE NUCLEAR REACTOR,
 ACTA PHYSIOL. PHARMACOL. NEERL., 11, 515-516
 (1962). (ENGLISH). MOL, BELGIUM.
- 3738 DAS, H.A. + ZONDERHUIS, J.
 NON-DESTRUCTIVE ACTIVATION ANALYSIS OF ANTIQUE
 GOLD COINS.
 CHEM. WEEKBLAD, 61, NO. 18, 215-218 (1965),
 (DUTCH), REACTOR CENTRUM NEDERLAND, PETTEN,
 NETHERLANDS.
- 3968 SMYTHE, L.E.
 FORENSIC APPLICATIONS OF NEUTRON ACTIVATION
 ANALYSIS.
 ATOMIC ENERGY AUSTRALIA, 9, NO. 2, 2-6 (APRIL
 1966). (ENGLISH), ANALYTICAL CHEMISTRY SECTION,
 AUSTRALIAN ATOMIC ENERGY COMMISSION, AUSTRALIA.
- 3988 LUX, F. + BRAUNSTEIN, L.
 ACTIVATION ANALYSIS INVESTIGATION OF PAINTINGS.
 DETERMINATION OF TRACE CONTENTS OF WHITE LEAD OF
 PAINTINGS OF THE ALTE PINAKOTEK AT MUNICH,
 Z. ANAL. CHEM., 221, 235-254 (1966), (GERMAN)
 (ENGLISH SUMMARY), INSTITUT FUR RADIOCHEMIE DER
 TECHNISCHEN HOCHSCHULE MUNCHEN, GERMANY.
- 3998 WYTENBACH, A.
 THE NONDESTRUCTIVE ACTIVATION ANALYSIS
 DETERMINATION OF THE CHIEF CONSTITUENTS OF LARGER
 SAMPLE PIECES (EXAMPLES USED - COINS),
 HELV. CHIM. ACTA, 49, 2555-2563 (1966), (GERMAN),
 EIDGENOSSISCHES INSTITUT FUR REAKTORFORSCHUNG,
 WURENLINGEN, GERMANY.
- 4230 DAS, H.A. + ZONDERHUIS, J.
 THE NON-DESTRUCTIVE ANALYSIS OF ANCIENT SILVER
 COINS.
 REC. TRAV. CHIM., 85, 837-841 (AUGUST 1966),
 (ENGLISH). REACTOR CENTRUM NEDERLAND, PETTEN,
 NETHERLANDS.

FORENSIC SCIENCE - ACCESSION NUMBERS

- 4263 SCOTT, J.E. * HOFFMAN, C.M. * PRO, M.J. *
 SCHLESINGER, H.L.
 COMPARISON OF ADHESIVE TAPES BY NEUTRON ACTIVATION
 ANALYSIS.
 J. ASSN. OFFIC. ANAL. CHEM., 50, NO. 2, 371-376
 (1967), (ENGLISH), POST OFFICE DEPARTMENT AND
 ALCOHOL AND TOBACCO TAX DIVISION, INTERNAL REVENUE
 SERVICE, WASHINGTON, D.C.
- 4286 BRYAN, D.E. * GUINN, V.P.
 FORENSIC ACTIVATION ANALYSIS--TRACE LEVEL ELEMENTS
 IN COMMERCIAL PAINTS.
 TRANS. AMER. NUCL. SOC., 9, 589 (OCT.-NOV. 1966).
 (ENGLISH). GENERAL ATOMICS, SAN DIEGO, CALIFORNIA.
- 4328 ZUBER, K.
 NEUTRON ACTIVATION ANALYSIS OF ROMAN COPPER COINS
 FROM 250-500 A.D. PART II.
 CNAEM-35, 38P., MAY 1966. (ENGLISH), P.K.I.,
 HAVA ALANI, ISTANBUL, TURKEY.
- 4329 REYNOLDS, L.M. * KESSLER, W.V. * CHRISTIAN, J.E. *
 ZIEMER, P.L.
 USE OF ACTIVATION ANALYSIS IN PROBLEMS OF DRUG
 CONTROL.
 J. PHARM. SCI., 56, NO. 4, 437-443 (1967),
 (ENGLISH). BIONUCLEONICS DEPARTMENT, SCHOOL OF
 PHARMACY AND PHARMACAL SCIENCES, PURDUE
 UNIVERSITY, LAFAYETTE, INDIANA.
- 4380 COLEMAN, R.F. * CRIPPS, F.H. * STINISON, A. *
 SCOTT, H.D.
 THE TRACE ELEMENT CONTENT OF HUMAN HEAD HAIR IN
 ENGLAND AND WALES AND THE APPLICATION TO FORENSIC
 SCIENCE.
 ATOM, NO. 123, 12-22 (JANUARY 1967), (ENGLISH),
 A.W.R.E., ALDERMASTON, ENGLAND.
- 5358 ATALLA, L.T. * SILVA, C.M. * LIMA, F.W.
 ACTIVATION ANALYSIS OF ARSENIC IN HUMAN HAIR--SOME
 OBSERVATIONS ON THE PROBLEM OF EXTERNAL
 CONTAMINATION.
 ANAIS ACAD. BRASIL. CIENC., 37, NO. 3-4, 433-441
 (1965), (ENGLISH) (SPANISH SUMMARY), INSTITUTO
 DE ENERGIA ATOMICA, DIVISAO DE RADIOQUIMICA, SAO
 PAULO, SP.

FORENSIC SCIENCE - ACCESSION NUMBERS

- 5390 COLEMAN, R.F. * CRIPPS, F.H. * STIMSON, A. *
SCOTT, H.D.
THE DETERMINATION OF TRACE ELEMENTS IN HUMAN HAIR
BY NEUTRON ACTIVATION AND THE APPLICATION TO
FORENSIC SCIENCE,
AWRE-0-86, 37P., JANUARY 1967, (ENGLISH), ATOMIC
WEAPONS RESEARCH ESTABLISHMENT, ALDERMASTON,
ENGLAND.
- 5401 COLEMAN, R.F.
NUCLEAR TECHNIQUES IN FORENSIC SCIENCE,
J. BRIT. NUCL. ENERGY SOC., 6, 134-138 (APRIL
1967). (ENGLISH), ATOMIC WEAPONS RESEARCH
ESTABLISHMENT, ALDERMASTON, ENGLAND.
- 5543 WOLICKI, E.A. * KNUDSON, A.R.
A NUCLEAR DETECTION METHOD FOR SULFUR IN THIN
FILMS.
INTERN. J. APPL. RADIATION ISOTOPES, 18, 429-433
(1967), (ENGLISH) (FRENCH, RUSSIAN AND GERMAN
SUMMARIES). U.S. NAVAL RESEARCH LABORATORY,
WASHINGTON, D.C.
- 5579 TOUSSET, J. * CONDAMIN, J. * PICON, M.
METHOD OF ANALYSIS BY ACTIVATION WITH FAST
NEUTRONS OF ANTIQUE MONEY,
LYCEN/6726, 11P., APRIL 1967, (FRENCH), INSTITUT
DE PHYSIQUE NUCLEAIRE, UNIVERSITE DE LYON AND
FACULTE LIBRE DES SCIENCES DE LYON, FRANCE.
- 5710 LYON, W.S. * MILLER, F.J.
FORENSIC APPLICATIONS OF NEUTRON ACTIVATION
ANALYSIS,
ISOTOPES RADIATION TECHNOLOGY, 4, NO. 4, 325-340
(SUMMER 1967), (ENGLISH), USA.
- 5742 ASPINALL, A. * SLATER, D.N. * MAYES, P.
NEUTRON ACTIVATION ANALYSIS OF MEDIEVAL CERAMICS,
NATURE, 217, NO. 5126, 388 (1968), (ENGLISH),
SCHOOL OF NUCLEAR PHYSICS, UNIVERSITY OF BRADFORD
AND EXTRAMURAL DEPARTMENT, UNIVERSITY OF LEEDS,
ENGLAND.
- 5750 KRISHNAN, S.S.
DETERMINATION OF GUNSHOT FIRING DISTANCES AND
IDENTIFICATION OF BULLET HOLES BY NEUTRON
ACTIVATION ANALYSIS,
J. FORENSIC SCI. SOC., 12, 112-122 (JANUARY 1967),
(ENGLISH). THE CENTRE OF FORENSIC SCIENCES,
TORONTO, ONTARIO, CANADA.

FORENSIC SCIENCE - ACCESSION NUMBERS

- 5788 PERLMAN, I, * ASARO, F,
DEDUCTION OF PROVENIENCE OF POTTERY FROM TRACE
ELEMENT ANALYSIS,
UCRL-17937, 31P., OCTOBER 1967, (ENGLISH),
UNIVERSITY OF CALIFORNIA, LAWRENCE RADIATION
LABORATORY, BERKELEY, CALIF,
- 5869 DUBINSKAYA, N.A, * PELEKIS, L,L, * TSIRKUNOVA, I.E,
ON TREATING OF HAIR BEFORE NEUTRON ACTIVATION
ANALYSIS,
LATV. PSR ZINAT, AKAD, VESTIS, FIZ, TEH, ZINAT,
SER., NO. 3, 10-18 (1967), (RUSSIAN) (ENGLISH
SUMMARY), INSTITUTE OF PHYSICS, RIGA, RUSSIA,
- 6018 JERVIS, R.E.
ACTIVATION ANALYSIS IN FORENSIC SCIENCE,
NUCLEAR ACTIVATION TECHNIQUES IN THE LIFE
SCIENCES, PROCEEDINGS OF A SYMPOSIUM, AMSTERDAM,
8-12 MAY 1967, IAEA VIENNA, 645-659, 1967,
(ENGLISH), UNIVERSITY OF TORONTO, TORONTO,
CANADA,
- 6019 VAN DEN BERG, A.J, * DE BRUIN, M, * HOUTMAN, J.P.W,
SORPTION BEHAVIOUR OF TRACE ELEMENTS IN HUMAN
HAIR,
NUCLEAR ACTIVATION TECHNIQUES IN THE LIFE
SCIENCES, PROCEEDINGS OF A SYMPOSIUM, AMSTERDAM,
8-12 MAY 1967, IAEA VIENNA, 661-679, 1967,
(ENGLISH), REACTOR INSTITUTE, DELFT, NETHERLANDS,
- 6020 BRYAN, D.E. * GUINN, V.P, * SETTLE, D.M,
ACTIVATION ANALYSIS OF BIOLOGICAL SAMPLES OF
FORENSIC INTEREST,
NUCLEAR ACTIVATION TECHNIQUES IN THE LIFE
SCIENCES, PROCEEDINGS OF A SYMPOSIUM, AMSTERDAM,
8-12 MAY 1967, IAEA VIENNA, 681-694, 1967,
(ENGLISH), GENERAL DYNAMICS CORPORATION, SAN
DIEGO, CALIF,
- 6021 PRO, M.J, * SCHLESINGER, H,L, * HOFFMAN, C,M,
APPLICATION OF NEUTRON ACTIVATION ANALYSIS IN
CRIMINALISTICS,
AEC UNNUMBERED REPORT, 96P., NOVEMBER 1965,
(ENGLISH), U.S, TREASURY DEPARTMENT, INTERNAL
REVENUE SERVICE, WASHINGTON, D.C,

FORENSIC SCIENCE - ACCESSION NUMBERS

- 6025 GUINN, V.P.
NEUTRON ACTIVATION ANALYSIS AND ITS FORENSIC APPLICATIONS.
GA-8171, 7-40, 1967. (ENGLISH), GENERAL DYNAMICS, GENERAL ATOMIC DIVISION, SAN DIEGO, CALIF.
- 6026 KIRK, P.L.
SOME CRIMINALISTICS PROBLEMS, AND NEUTRON ACTIVATION ANALYSIS.
GA-8171, 41-48, 1967. (ENGLISH), SCHOOL OF CRIMINOLOGY, UNIVERSITY OF CALIFORNIA, BERKELEY, CALIF.
- 6027 LENIHAN, J.M.A.
ORGANIZATION AND EQUIPMENT OF AN ACTIVATION ANALYSIS LABORATORY.
GA-8171, 49-62, 1967. (ENGLISH), WESTERN REGIONAL HOSPITAL BOARD, GLASGOW, SCOTLAND.
- 6028 LEDDICOTTE, G.W.
EARLY FORENSIC NEUTRON ACTIVATION ANALYSIS STUDIES AT THE OAK RIDGE NATIONAL LABORATORY.
GA-8171, 63-78, 1967. (ENGLISH), UNIVERSITY OF MISSOURI, COLUMBIA, MISSOURI.
- 6029 WAHLGREN, M.A.
APPLICATION OF SPECIAL COUNTING TECHNIQUES TO FORENSIC PROBLEMS.
GA-8171, 79-102, 1967. (ENGLISH), CHEMISTRY DIVISION, ARGONNE NATIONAL LABORATORY, ARGONNE, ILLINOIS.
- 6030 PRO, M.J. * SCHLESINGER, H.L. * HOFFMAN, C.M.
FORENSIC APPLICATIONS OF NEUTRON ACTIVATION ANALYSIS.
GA-8171, 103-116, 1967. (ENGLISH), ALCOHOL AND TOBACCO TAX DIVISION, LABORATORY BRANCH, INTERNAL REVENUE SERVICE, WASHINGTON, D.C.
- 6031 SAYRE, E.V.
REVELATION OF INTERNAL STRUCTURE OF PAINTINGS THROUGH NEUTRON ACTIVATION AUTORADIOGRAPHY.
GA-8171, 119-132, 1967. (ENGLISH), CHEMISTRY DEPARTMENT, BROOKHAVEN NATIONAL LABORATORY, UPTON, N.Y.

- 6032 BRYAN, D.E.
THE COMPARISON OF PAINT SAMPLES BY NEUTRON
ACTIVATION ANALYSIS,
GA-8171, 133-144, 1967, (ENGLISH), GENERAL
DYNAMICS, GENERAL ATOMIC DIVISION, SAN DIEGO,
CALIF.
- 6033 SETTLE, D.M.
NEUTRON ACTIVATION AND PHOTONUCLEAR ACTIVATION
ANALYSIS OF GLASS SAMPLES,
GA-8171, 147-160, 1967, (ENGLISH), GENERAL
ATOMIC DIVISION, GENERAL DYNAMICS CORPORATION, SAN
DIEGO, CALIF.
- 6034 GUINN, V.P.
THE DETERMINATION OF TRACES OF BARIUM AND ANTIMONY
IN GUNSHOT RESIDUES BY ACTIVATION ANALYSIS,
GA-8171, 161-176, 1967, (ENGLISH), GENERAL
DYNAMICS, GENERAL ATOMIC DIVISION, SAN DIEGO,
CALIF.
- 6035 KRISHNAN, S.S.
DISTANCE DETERMINATION OF GUNSHOT FIRINGS BY
NEUTRON ACTIVATION ANALYSIS,
GA-8171, 177-188, 1967, (ENGLISH),
ATTORNEY-GENERALS LABORATORY, PROVINCE OF ONTARIO,
TORONTO, CANADA,
- 6036 SCHLESINGER, H.L. * HOFFMAN, C.M. * PRO, M.J.
BULLET RESIDUE TRANSFERENCE TO VARIOUS MATERIALS,
GA-8171, 189-198, 1967, (ENGLISH), ALCOHOL AND
TOBACCO TAX DIVISION, LABORATORY BRANCH, INTERNAL
REVENUE SERVICE, WASHINGTON, D.C.
- 6037 PERKONS, A.K.
INDIVIDUALIZATION OF HUMAN HEAD HAIR,
GA-8171, 221-236, 1967, (ENGLISH), THE CENTRE OF
FORENSIC SCIENCES, TORONTO, ONTARIO, CANADA,
- 6038 SMYTHE, L.E. * RYAN, W.P.
NEUTRON ACTIVATION ANALYSIS OF SOME HAIR SAMPLES
AS EVIDENCE FOR AN AUSTRALIAN COURT,
GA-8171, 237-246, 1967, (ENGLISH), ANALYTICAL
CHEMISTRY DIVISION, AUSTRALIAN ATOMIC ENERGY
COMMISSION RESEARCH ESTABLISHMENT, LUCAS HEIGHTS,
SYDNEY, AUSTRALIA,

FORENSIC SCIENCE - ACCESSION NUMBERS

- 6039 LIMA, F.W.
EXOGENOUS CONTAMINATION OF HAIR BY CAPILLARY
ACTION OF ARSENIC SOLUTIONS,
GA-8171, 261-278, 1967, (ENGLISH), INSTITUTO DE
ENERGIA ATOMICA, SAO PAULO, BRAZIL,
- 6040 ERICKSON, N.E,
ARSENIC IN HAIR,
GA-8171, 279-286, 1967, (ENGLISH), THE CENTRE OF
FORENSIC SCIENCES, TORONTO, CANADA,
- 6041 JERVIS, R.E.
THE VALUE OF NEUTRON ACTIVATION ANALYSIS HAIR
COMPARISONS IN FORENSIC INVESTIGATIONS -- A
CRITIQUE,
GA-8171, 287-294, 1967, (ENGLISH), DEPARTMENT OF
CHEMICAL ENGINEERING AND APPLIED CHEMISTRY,
UNIVERSITY OF TORONTO, TORONTO, CANADA,
- 6042 SMITH, H.
ACTIVATION ANALYSIS IN FORENSIC SCIENCE USING
RADIOCHEMICAL SEPARATIONS,
GA-8171, 295-314, 1967, (ENGLISH), DEPARTMENT OF
FORENSIC MEDICINE, THE UNIVERSITY, GLASGOW,
SCOTLAND.
- 6045 KOBAYASHI, M.
APPLICATION OF RADIOACTIVATION ANALYSIS FOR
CRIMINAL INVESTIGATION,
GENSHIRYOKU KOGYO, 13, NO, 12, 43-46 (1967),
(JAPANESE). JAPAN ATOMIC ENERGY RESEARCH
INSTITUTE, ORAI-CHO, IBARAKI, JAPAN,
- 6048 HOFFMAN, C.M. * BRUNELLE, R,L, * PRO, M,J, *
MARTIN, G.E.
DETERMINATION OF TRACE COMPONENT DISTRIBUTION IN
ILLICIT SPIRITS BY NEUTRON ACTIVATION ANALYSIS,
ATOMIC ABSORPTION, AND GAS-LIQUID CHROMATOGRAPHY,
J. ASSN. OFFIC. ANAL. CHEM., 51, NO, 3, 580-586
(1968), (ENGLISH), ALCOHOL AND TOBACCO TAX
DIVISION, INTERNAL REVENUE SERVICE, WASHINGTON,
D.C.
- 6061 HOUTMAN, J.P.W, * TURKSTRA, J,
DETERMINATION OF THE AGE OF WHITE LEAD BY NEUTRON
ACTIVATION - POSSIBLE APPLICATION TO PAINTINGS,
NATIONAL CONFERENCE ON NUCLEAR ENERGY, APPLICATION
OF ISOTOPES AND RADIATION, PELINDABA, SOUTH
AFRICA, ATOMIC ENERGY BOARD, 588-593, 1963,
(ENGLISH). REACTOR INSTITUTE, DELFT, -HOLLAND,

- 6209 GORDUS, A.A. * FINK, W.C. * HILL, M.E. * PURDY, J.C.
* WILCOX, T.R.
IDENTIFICATION OF THE GEOLOGIC ORIGINS OF
ARCHAEOLOGICAL ARTIFACTS, AN AUTOMATED METHOD OF
NA AND MN NEUTRON ACTIVATION ANALYSIS,
ARCHAEOLOGY, 10, 87-96 (1967), (ENGLISH),
DEPARTMENT OF CHEMISTRY, THE UNIVERSITY OF
MICHIGAN, ANN ARBOR, MICHIGAN.
- 6210 JERVIS, R.E.
PRESENT STATUS OF ACTIVATION ANALYSIS APPLICATIONS
IN CRIMINALISTICS,
RADIOISOTOPES (TOKYO), 17, 18-32 (JANUARY 1968),
(ENGLISH). DEPARTMENT OF CHEMICAL ENGINEERING AND
APPLIED CHEMISTRY, UNIVERSITY OF TORONTO, TORONTO,
CANADA.
- 6217 GORDUS, A.A.
QUANTITATIVE NON-DESTRUCTIVE NEUTRON ACTIVATION
ANALYSIS OF SILVER IN COINS,
ARCHAEOLOGY, 10, 78-86 (1967), (ENGLISH),
DEPARTMENT OF CHEMISTRY, THE UNIVERSITY OF
MICHIGAN, ANN ARBOR, MICHIGAN.
- 6224 GORDUS, A.A.
NEUTRON ACTIVATION ANALYSIS OF ALMOST ANY OLD
THING,
CHEMISTRY, 41, NO. 5, 8-15 (MAY 1968), (ENGLISH),
THE UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN.
- 6225 GUINN, V.P.
APPLICATIONS OF NEUTRON ACTIVATION ANALYSIS IN
SCIENTIFIC CRIME DETECTION,
GA-8013, 62P., OCTOBER 20, 1967, (ENGLISH),
GENERAL ATOMIC DIVISION, GENERAL DYNAMICS
CORPORATION, SAN DIEGO, CALIF.
- 6227 GORDUS, A.A. * WRIGHT, G.A. * GRIFFIN, J.B.
OBSIDIAN SOURCES CHARACTERIZED BY NEUTRON
ACTIVATION ANALYSIS,
SCIENCE, 161, 382-384 (26 JULY 1968), (ENGLISH),
DEPARTMENT OF CHEMISTRY AND MUSEUM OF
ANTHROPOLOGY, UNIVERSITY OF MICHIGAN, ANN ARBOR,
MICHIGAN.
- 6241 GORDUS, A.A.
ACTIVATION ANALYSIS, ARTEFACTS AND ART,
NEW SCIENTIST, 129-131 (17 OCTOBER 1968),
(ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF
MICHIGAN, ANN ARBOR, MICHIGAN.

FORENSIC SCIENCE - ACCESSION NUMBERS

- 6242 GORDUS, A.A.
 RAPID NON-DESTRUCTIVE ANALYSIS OF THE SILVER
 CONTENT OF COINS USING NEUTRON ACTIVATION,
 THE NUMISMATIC CIRCULAR, LXXVI, NO. 3, 1P, (MARCH
 1968), (ENGLISH), DEPARTMENT OF CHEMISTRY,
 UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN,
- 6244 BACHARACH, J.L. * GORDUS, A.A,
 STUDIES ON THE FINENESS OF SILVER COINS,
 J. ECONOMIC AND SOCIAL HISTORY OF THE ORIENT, XI,
 PART III, 298-317 (1968), (ENGLISH), SEATTLE,
 WASHINGTON AND ANN ARBOR, MICHIGAN,
- 6311 KRISHNAN, S.S. * PERKONS, A.K. * ERICKSON, N.E,
 CASE APPLICATIONS OF FORENSIC ACTIVATION ANALYSIS
 IN CANADA,
 TRANS. AMER. NUCL. SOC., 11, 79 (JUNE 1968),
 (ENGLISH), CENTRE OF FORENSIC SCIENCES, CANADA.
- 6312 PILLAY, K.K.S. * THOMAS, C.C., JR, * SONDEL, J.A. *
 THOMAS, R.C. * DIDISING, D. * HART, D.M,
 APPLICATIONS OF RARE-EARTH TRACERS TO GUNPOWDER
 RESIDUES,
 TRANS. AMER. NUCL. SOC., 11, 79-80 (JUNE 1968).
 (ENGLISH), WESTERN NEW YORK-NUCLEAR RESEARCH
 CENTER, BUFFALO, VA HOSPITAL, BUFFALO, STATE
 UNIVERSITY OF NEW YORK AT BUFFALO AND MOORE
 BUSINESS FORMS.
- 6313 LUKENS, H.R,
 FORENSIC ACTIVATION ANALYSIS, BULLET LEAD,
 TRANS. AMER. NUCL. SOC., 11, 80-81 (JUNE 1968).
 (ENGLISH), GULF GENERAL ATOMIC, SAN DIEGO, CALIF.
- 6314 RAYUDU, G.V.S. * TIEFENBACH, B. * JERVIS, R.E,
 NEUTRON ACTIVATION TYPING OF SEIZURE HEROIN
 CAPSULES,
 TRANS. AMER. NUCL. SOC., 11, 81-82 (JUNE 1968).
 (ENGLISH), UNIVERSITY OF TORONTO, CANADA,
- 6315 PERKONS, A.K. * JERVIS, R.E,
 APPLICATIONS OF HIGH-RESOLUTION GE(LI) GAMMA
 SPECTROMETRY IN CRIMINALISTICS,
 TRANS. AMER. NUCL. SOC., 11, 82-83 (JUNE 1968).
 (ENGLISH), CENTRE OF FORENSIC SCIENCES AND
 UNIVERSITY OF TORONTO, CANADA,

FORENSIC SCIENCE - ACCESSION NUMBERS

- 6333 GUINN, V.P.
 THE CURRENT STATUS OF FORENSIC ACTIVATION
 ANALYSIS,
 TRANS. AMER. NUCL. SOC., 11, 78-79 (JUNE 1968).
 (ENGLISH). GULF GENERAL ATOMIC, SAN DIEGO, CALIF.
- 6353 WYTENBACH, A, * BARTHE, P, * MARTIN, E.P,
 THE CONTENT OF ARSENIC IN THE HAIR IN A CASE OF
 ACUTE LETHAL ARSENIC POISONING,
 J. FORENSIC SCIENCE SOCIETY, 7, NO. 4, 194-197
 (OCTOBER 1967). (ENGLISH), EIDG, INSTITUT FUR
 REAKTORFORSCHUNG, WURENLINGEN, UNIT OF RENAL
 DISEASES, UNIVERSITATSKLINIK BASEL AND
 KRIMINALTECHNISCHE ABTEILUNG DER
 STAATSANWALTSCHAFT, BASEL, SWITZERLAND.
- 6372 BLUYSSSEN, H, * SMITH, P.B,
 DETERMINATION OF THE SILVER CONTENT OF GREEK COINS
 BY NEUTRON ACTIVATION,
 ARCHAEOMETRY, 5, 113-118 (1962), (ENGLISH),
 FYSISCH LABORATORIUM DER RIJKSUNIVERSITEIT TE
 UTRECHT.
- 6376 COLEMAN, R.F. * WESTON, N.T,
 A CASE CONCERNING NEUTRON ACTIVATION ANALYSIS OF
 GLASS.
 J. FORENSIC SCIENCE SOCIETY, 8, NO. 1, 32-33
 (JANUARY 1968). (ENGLISH), UKAEA, ALDERMASTON,
 BERKSHIRE AND HOME OFFICE FORENSIC SCIENCE
 LABORATORY, BIRMINGHAM, ENGLAND.
- 6377 COLEMAN, R.F.
 THE APPLICATION OF NEUTRON ACTIVATION ANALYSIS FOR
 FORENSIC SCIENCE,
 J. FORENSIC SCIENCE SOCIETY, 6, NO. 1, 19-27
 (JANUARY 1966). (ENGLISH), UNITED KINGDOM ATOMIC
 ENERGY AUTHORITY, ALDERMASTON, BERKSHIRE, ENGLAND.
- 6378 WYTENBACH, A, * HERMANN, A,
 THE QUANTITATIVE NONDESTRUCTIVE ANALYSIS OF SILVER
 COINS BY NEUTRON ACTIVATION,
 ARCHAEOMETRY, 9, 139-147 (1966), (ENGLISH),
 EIDG. INSTITUT FUR REAKTORFORSCHUNG, WURENLINGEN,
 SWITZERLAND.
- 6388 RAVETZ, A.
 NEUTRON ACTIVATION ANALYSIS OF SILVER IN SOME LATE
 ROMAN COPPER COINS,
 ARCHAEOMETRY, 6, 46-55 (1963), (ENGLISH), LEEDS
 UNIVERSITY, ENGLAND.

FORENSIC SCIENCE - ACCESSION NUMBERS

- 6391 BENNYHOFF, J.A. * HEIZER, R.F.,
 NEUTRON ACTIVATION ANALYSIS OF SOME CUICUILCO AND
 TEOTIHUACAN POTTERY. ARCHAEOLOGICAL
 INTERPRETATION OF RESULTS,
 AMERICAN ANTIQUITY, 30, NO. 3, 348-349 (1965),
 (ENGLISH). UNIVERSITY OF ROCHESTER, ROCHESTER,
 N.Y., AND UNIVERSITY OF CALIFORNIA, BERKELEY,
 CALIF.
- 6436 KUSAKA, Y.
 ACTIVATION ANALYSIS OF SILVER USING RADIUM PLUS
 BERYLLIUM NEUTRON SOURCE.
 BUNSEKI KAGAKU, 8, NO. 2, 111-116 (FEBRUARY 1959),
 (JAPANESE) (ENGLISH SUMMARY), DEPARTMENT OF
 CHEMISTRY, FACULTY OF SCIENCE, KONAN UNIVERSITY,
 JAPAN.
- 6457 THOMPSON, M.
 GOLD AND COPPER TRACES IN LATE ATHENIAN SILVER.
 ARCHAEOOMETRY, 3, 10-15 (1960), (ENGLISH),
 AMERICAN NUMISMATIC SOCIETY.
- 6458 SIMPSON, G.
 NOTES ON GAULISH SAMIAN POTTERY AND ITS ANALYSIS
 BY NEUTRON ACTIVATION,
 ARCHAEOOMETRY, 3, 20-24 (1960), (ENGLISH), LADY
 MARGARET HALL, ENGLAND.
- 6570 KRAAY, C.M.
 GOLD AND COPPER TRACES IN EARLY GREEK SILVER - II.
 ARCHAEOOMETRY, 2, 1-16 (1959), (ENGLISH),
 ENGLAND.
- 6679 PEDERSEN, A.O. * STEINNES, E. * WAALER, T.
 EXAMINATION OF INDIVIDUAL MORPHINE SUPPOSITORIES
 BY MEANS OF NEUTRON ACTIVATION ANALYSIS,
 SAETRYKK AV MEDDELELSER FRA VORSK FARMACEUTISK
 SELSKAP, 30, 41-50 (1968), (ENGLISH), DEPARTMENT
 OF GALENICAL PHARMACY, INSTITUTE OF PHARMACY,
 UNIVERSITY OF OSLO, BLINDERN, OSLO AND INSTITUTT
 FOR ATOMENERGI, ISOTOPE LABORATORIES, KJELLER,
 NORWAY.
- 6835 JERVIS, R.E.
 PRESENT STATUS OF ACTIVATION ANALYSIS APPLICATIONS
 IN CRIMINALISTICS,
 ISOTOP, RADIAT, TECHNOL., 6, 57-70 (FALL 1968),
 (ENGLISH). DEPARTMENT OF CHEMICAL ENGINEERING AND
 APPLIED CHEMISTRY, UNIVERSITY OF TORONTO, TORONTO,
 CANADA.

FORENSIC SCIENCE - ACCESSION NUMBERS

- 6839 SCOTT, H.D. * COLEMAN, R.F. * CRIPPS, F.H,
 INVESTIGATION OF FIREARM DISCHARGE RESIDUES,
 AWRE-0-5/66, 49P., MARCH 1966, (ENGLISH), AWRE,
 ALDERMASTON, BERKS., ENGLAND,
- 6847 TOLGYESSY, J. * LUKAC, P,
 ACTIVATION ANALYSIS IN LEGAL CHEMISTRY,
 CHEM. LISTY, 61, NO, 10, 1285-1301 (1967),
 (CZECH), KATEDRA RADIOCHEMIE A RADIACNEJ CHEMIE,
 CHEMICKOTECHNOLOGICKA FAKULTA SVST, BRATISLAVA.
- 6849 HOUTMAN, J.P.W.
 DETERMINATION OF TRACE ELEMENTS BY ACTIVATION
 ANALYSIS,
 CHEM. WEEKBL., 63, NO, 40, 450-458 (1967),
 (DUTCH). REACTOR INSTITUUT TE DELFT,
- 6863 JERVIS, R.E.
 RECENT DEVELOPMENTS IN FORENSIC ACTIVATION
 ANALYSIS APPLICATIONS,
 THE 9TH JAPAN CONFERENCE ON RADIOISOTOPES
 (ABSTRACTS OF PAPERS), NIPPON TOSHI CENTER,
 KOZIMACHI KAIKAN, MAY 13-15, 1969, PAPER C/S-8,
 302-303, 1969, (ENGLISH), DEPARTMENT OF CHEMICAL
 ENG. AND APPLIED CHEMISTRY, UNIVERSITY OF TORONTO,
 CANADA.
- 6947 LUX, F. * BRAUNSTEIN, L. * STRAUSS, R,
 INVESTIGATIONS ON THE AGE AND PLACE OF ORIGIN OF
 PAINTINGS BY NEUTRON ACTIVATION ANALYSIS;
 NBS SPEC. PUBL. 312, VOL. I, MODERN TRENDS IN
 ACTIVATION ANALYSIS, 216-225, JUNE 1969,
 (ENGLISH), INSTITUT FUR RADIOCHEMIE DER
 TECHNISCHEN HOCHSCHULE MUNCHEN, GARCHING BEI
 MUNCHEN, GERMANY,
- 6949 MEIJERS, P.
 NONDESTRUCTIVE ACTIVATION ANALYSIS OF ANCIENT
 COINS USING CHARGED PARTICLES AND FAST NEUTRONS,
 NBS SPEC. PUBL. 312, VOL. I, MODERN TRENDS IN
 ACTIVATION ANALYSIS, 230-245, JUNE 1969,
 (ENGLISH). INSTITUUT VOOR KERNPHYSISCH ONDERZOEK,
 AMSTERDAM, NETHERLANDS,

FORENSIC SCIENCE - ACCESSION NUMBERS

- 6950 OLIN, J.S. * SAYRE, E.V,
 THE ANALYSIS OF ENGLISH AND AMERICAN POTTERY OF
 THE AMERICAN COLONIAL PERIOD,
 NBS SPEC. PUBL. 312, VOL. I, MODERN TRENDS IN
 ACTIVATION ANALYSIS, 246-250, JUNE 1969,
 (ENGLISH). CHEMISTRY DEPARTMENT, BROOKHAVEN
 NATIONAL LABORATORY, UPTON, N.Y.
- 6951 HOFFMAN, C.M. * BRUNELLE, R.L. * SNOW, K.B. *
 PRO, M.J.
 COMPARISON OF FORENSIC SOIL SPECIMENS BY NEUTRON
 ACTIVATION ANALYSIS,
 NBS SPEC. PUBL. 312, VOL. I, MODERN TRENDS IN
 ACTIVATION ANALYSIS, 251-255, JUNE 1969,
 (ENGLISH). ALCOHOL AND TOBACCO TAX DIVISION,
 INTERNAL REVENUE SERVICE, WASHINGTON, D.C.
- 6952 PERKONS, A.K. * JERVIS, R.E.
 RECENT FORENSIC APPLICATIONS OF INSTRUMENTAL
 ACTIVATION ANALYSIS,
 NBS SPEC. PUBL. 312, VOL. I, MODERN TRENDS IN
 ACTIVATION ANALYSIS, 256-264, JUNE 1969,
 (ENGLISH). THE CENTRE OF FORENSIC SCIENCES,
 TORONTO, AND DEPARTMENT OF CHEMICAL ENGINEERING
 AND APPLIED CHEMISTRY, UNIVERSITY OF TORONTO,
 TORONTO, CANADA.
- 6953 SCHLESINGER, H.L. * LUKENS, H.R. * SETTLE, D.M.
 THE EXAMINATION OF ACTUAL CASE EVIDENCE SAMPLES BY
 NEUTRON ACTIVATION ANALYSIS,
 NBS SPEC. PUBL. 312, VOL. I, MODERN TRENDS IN
 ACTIVATION ANALYSIS, 265-271, JUNE 1969,
 (ENGLISH). GULF GENERAL ATOMIC INC., SAN DIEGO,
 CALIF.
- 6954 VAN DEN BERG, A.J. * DE GOEIJ, J.J.M. *
 HOUTMAN, J.P.W. * ZEGERS, C.
 ARSENIC CONTENT OF HUMAN HAIR AFTER WASHING AS
 DETERMINED BY ACTIVATION ANALYSIS,
 NBS SPEC. PUBL. 312, VOL. I, MODERN TRENDS IN
 ACTIVATION ANALYSIS, 272-282, JUNE 1969,
 (ENGLISH). REACTOR INSTITUUT, DELFT NETHERLANDS.

FORENSIC SCIENCE - ACCESSION NUMBERS

- 6955 WILLIAMSON, T.G. * HARRISON, W.W.,
 COMPARISON OF ACTIVATION ANALYSIS AND SPARK SOURCE
 MASS SPECTROMETRY FOR FORENSIC APPLICATIONS,
 NBS SPEC. PUBL. 312, VOL. I, MODERN TRENDS IN
 ACTIVATION ANALYSIS, 283-287, JUNE 1969,
 (ENGLISH). UNIVERSITY OF VIRGINIA,
 CHARLOTTESVILLE, VIRGINIA,
- 7086 KRISHNAN, S.S.,
 FIRING DISTANCE DETERMINATION BY NEUTRON
 ACTIVATION ANALYSIS,
 J. FORENSIC SCI., 12, 471-483 (OCTOBER 1967),
 (ENGLISH), THE CENTRE OF FORENSIC SCIENCES,
 TORONTO, CANADA,
- 7129 COLEMAN, R.F. * CRIPPS, F.H. * STIMSON, A. *
 SCOTT, H.D.,
 THE TRACE-ELEMENT CONTENT OF HUMAN HEAD HAIR IN
 ENGLAND AND WALES AND THE APPLICATION TO FORENSIC
 SCIENCE.
 PROCEEDINGS OF THE FIRST INTERNATIONAL CONFERENCE
 ON FORENSIC ACTIVATION ANALYSIS, 203-220, 1967,
 (ENGLISH). ATOMIC WEAPONS RESEARCH ESTABLISHMENT,
 UKAEA, ALDERMASTON, BERKSHIRE, ENGLAND,
- 7190 LENIHAN, J.M.A.,
 ACTIVATION ANALYSIS IN FORENSIC SCIENCE,
 CONF-671111, 523-531, JUNE 1968, (ENGLISH),
 WESTERN REGIONAL HOSPITAL BOARD, GLASGOW,
 SCOTLAND.

Author Index



FORENSIC SCIENCE - AUTHOR INDEX

ABELES, T.P.	2575
ABU-SAMRA, A.	351 2495
AITKEN, M.J.	1132 1301 1306
ALSTAD, J.	1205
AMBROSINO, G.	13
ASARO, F.	5788
ASHWORTH, M.J.	2575
ASPINALL, A.	5742
ATALLA, L.T.	5358
ATOMES	551
BACHARACH, J.L.	6244
BARBAUD, J.	198
BARO, G.B.	802 1734 2926
BARTHE, P.	6353
BATE, L.C.	625 763 1031 1077 1635 2699 2931
BAUMGARTNER, F.	1732
BELLANCA, S.C.	2792 2959
BENNYHOFF, J.A.	6391
BLUYSSSEN, H.	6372
BRAUNSTEIN, L.	3988 6947
BROOKHAVEN NATIONAL LABORATORY	2589
BRUNELLE, R.L.	6048 6951
BRYAN, D.E.	444 2517 2605 2607 3486 4286 6020 6032

FORENSIC SCIENCE - AUTHOR INDEX

BRYDGES, T. 2762
 BUCHANAN, J.D. 2793 2959
 CHRISTIAN, J.E. 4329
 COHAN, M.D. 2647 2648
 COLEMAN, R.F. 4380 5390 5401 6376 6377 6839 7129
 CONDAMIN, J. 5579
 CRIPPS, F.H. 4380 5390 6839 7129

 DAS, H.A. 3738 4230
 DE BRUIN, M. 6019
 DE GOEIJ, J.J.M. 6954
 DEIBE, J. 802
 DEWAR, W.A. 134
 DIDISING, D. 6312
 DUBINSKAYA, N.A. 5869
 DYER, F.F. 2699

 EMELEUS, V.M. 561 1132
 EMERY, J.F. 1031 1035 1635 2931
 ERICKSON, N.E. 6040 6311
 EVANS, R.D. 2694 2762

 FINK, W.C. 6209
 FLEGENHEIMER, J. 1504
 FORSHUFVUD, S. 565 1225 2570
 FORSLEV, A.W. 1422

FORENSIC SCIENCE - AUTHOR INDEX

GOMEZ, H.	802 1734 2926
GORDUS, A.A.	6209 6217 6224 6227 6241 6242 6244
GRIFFIN, J.B.	6227
GRIFFON, H.	198
GUINN, V.P.	183 444 1034 2144 2517 2605 2607 2782 2790 2791 2792 2959 3486 3504 4286 6020 6025 6034 6225 6333
HALL, E.	1132
HARRISON, W.W.	6955
HART, D.M.	6312
HEIZER, R.F.	6391
HERMANN, A.	6376
HILL, M.E.	6209
HOFFMAN, C.M.	2648 4263 6021 6030 6036 6048 6951
HOUTMAN, J.P.W.	1825 6019 6061 6849 6954
HUMMEL, R.L.	1737
JERVIS, R.E.	584 706 970 1736 1737 2143 2548 6018 6041 6210 6314 6315 6835 6863 6952
JOHANSEN, O.	2739
KERR, M.F.	706
KESSLER, W.V.	4329
KIRK, P.L.	1149 6026
KNUDSON, A.R.	5543
KOBAYASHI, M.	6045
KOZUKA, H.	112

FORENSIC SCIENCE - AUTHOR INDEX

KRAAY, C.M. 6570

KRANER, H.W. 2694 2762

KRISHNAN, S.S. 3065 5750 6035 6311 7086

KUBOTA, M. 2464

KUSAKA, Y. 6436

LECHTMAN, H.N. 1834

LEDDICOTTE, G.W. 763 1031 1035 1635 2931 6028

LENIHAN, J.M.A. 134 310 593 2943 6027 7190

LIMA, F.W. 5358 6039

LUKAC, P. 6847

LUKENS, H.R. 2144 6313 6953

LUNDE, G. 1205 2739

LUX, F. 3988 6947

LYON, W.S. 1635 5710

MACKINTOSH, W.D. 706 970

MADIGAN, S.B. 2782

MADIGAN, S.C. 2790

MARTIN, E.P. 6353

MARTIN, G.E. 6048

MAYES, P. 5742

MEIJERS, P. 6949

MILLER, F.J. 5710

NAKAMURA, Y. 2464

FORENSIC SCIENCE - AUTHOR INDEX

NISSEN, H.U.	1376
NIWASE, K.	112
OAK RIDGE NATIONAL LABORATORY	1442
OLIN, J.S.	6950
PAPPAS, A.C.	1205
PEDERSEN, A.O.	6679
PELEKIS, L.L.	5869
PERKONS, A.K.	706 1737 2548 6037 6311 6315 6952
PERLMAN, I.	5788
PICON, M.	5579
PILLAY, K.K.S.	2145 6312
PINDRUS, P.	13
PINKER, R.H.	183 1034 2959
PRO, M.J.	763 1031 1077 1635 2647 2648 4263 6021 6030 6036 6048 6951
PURDY, J.C.	6209
RAVETZ, A.	6388
RAYUDU, G.V.S.	6314
REYNOLDS, L.M.	4329
ROSS, W.J.	1035
RUCH, R.R.	183 1034 2782 2790 2792 2793 2959
RUDELLI, M.	802
RUTTINK, J.	3708

FORENSIC SCIENCE - AUTHOR INDEX

RYAN, W.P.	6038
RYBACH, L.	1376
SAYRE, E.V.	1032 1834 1897 1926 2945 6031 6950
SCHLESINGER, H.L.	2647 2648 4263 6021 6030 6036 6953
SCHONTAG, A.	1732
SCHROEDER, G.L.	2694 2762
SCOTT, H.D.	4380 5390 6839 7129
SCOTT, J.E.	4263
SETTLE, D.M.	2517 3486 6020 6033 6953
SILVA, C.M.	5358
SIMPSON, G.	561 6458
SLATER, D.N.	5742
SMITH, H.	310 565 1225 1928 2570 2958 6042
SMITH, P.B.	6372
SMYTHE, L.E.	3968 6038
SNOW, K.B.	6951
SONDEL, J.A.	2145 6312
STARK, H.	1732
STEINNES, E.	2739 6679
STIMSON, A.	5390 7129
STINISON, A.	4380
STRAUSS, R.	6947
THOMAS, C.C., JR	2145 6312
THOMAS, R.C.	2145 6312

FORENSIC SCIENCE - AUTHOR INDEX

THOMPSON, M.	6457
TIEFENBACH, B.	6314
TOKUNAGA, O.	2464
TOLGYESSY, J.	6847
TOUSSET, J.	5579
TRAVESI JIMENEZ, A.	2765
TSIRKUNOVA, I.E.	5869
TURKSTRA, J.	1825 6061
U.S. ATOMIC ENERGY COMMISSION	1290
VAN DEN BERG, A.	6019 6954
VOIGT, A.F.	351 2495
WAALER, T.	6679
WAHLGREN, M.A.	6029
WASSEN, A.	565 1225 2570
WESTON, N.T.	6376
WILCOX, T.R.	6209
WILLIAMSON, T.G.	6955
WOLICKI, E.A.	5543
WRIGHT, G.A.	6227
WYTTENBACH, A.	2645 3998 6353 6378

FORENSIC SCIENCE - AUTHOR INDEX

ZEGERS, C.	6954
ZIEMER, P.L.	4329
ZONDERHUIS, J.	3738 4230
ZUBER, K.	619 4328

Subject Index

Subject Index



FORENSIC SCIENCE - SUBJECT INDEX

ADHESIVE TAPE

4263

ARCHAEOLOGICAL - GENERAL, STATUES, POTTERY, ETC.

13 351 561 1032 1301 1306 1376 1897 1926 2495 2575 2589
2694 2762 2945 5742 5788 6209 6224 6227 6241 6391 6458 6950

ARCHAEOLOGICAL - COINS

619 1132 3738 3998 4230 4328 5579 6217 6242 6244 6372 6378
6388 6436 6457 6570 6947 6949

ARSENIC IN HAIR, TEETH, SKIN, NAILS AND TISSUE

134 198 593 706 802 970 1734 1928 2605 2607 2793 2926 2958
5358 6040 6353 6954

AUTO TIRE RUBBER

2607 2793 2959

BULLET LEAD

2144 6313

COINS

5543

COURT OR INQUEST CASES

1290 2607 6040 6311 6953

DRUGS

1077 2607 2648 2739 2782 2790 6021 6030 6679

FOOD, FOODSTUFFS, TOBACCO

2782 2790 6020

GLASS

1736 2607 2792 2959 3486 6033 6225 6376

FORENSIC SCIENCE - SUBJECT INDEX

GUNSHOT RESIDUES

183 1034 1442 1732 2464 2605 2607 2765 2782 2790 2792 2793
2959 3065 3486 5750 6021 6030 6034 6035 6036 6225 6839 7086

HAIR, GENERAL

706 1422 1442 1736 2143 2548 2607 2699 2765 2782 2790 3486
3708 6020 6021

HAIR, DETAILED STATISTICAL STUDY OR CRITICAL REVIEW

4380 5390 6037 6038 6041 7129

HAIR, WASHING AND LEACHING

625 2548 5869 6019 6039 6954

HEROIN, OPIUM, MARIJUANA

1205 2648 2931 3486 6020 6314

HISTORICAL STUDIES

565 1225 2570 2943

ILLICIT SPIRITS

2647 3486 6020 6030 6048

INK, TYPEWRITER PRINT

1635 2607 2791 2959

INSTRUMENTATION AND COMPUTATION

1736 1737 6029 6315 6952

OIL, GREASE

2607 2782 2790 2791 2792 2793 2959

PAINT, PIGMENTS

763 1635 2605 2607 2645 2647 2782 2792 3486 4286 6021 6032
6225

FORENSIC SCIENCE - SUBJECT INDEX

PAINTINGS, STAMPS

1504 1825 1834 3988 6030 6031 6061 6849

PAPER, CURRENCY

1442 2605 2792 2959 3486 6225

PLASTICS

2607 2791 2793 2959

ROPE

3486

SOIL

763 1290 1635 2607 2647 2790 2791 2792 6021 6030 6951

SOOT

763 1635

STABLE TRACERS IN GUNPOWDER AND DRUGS

2145 4329 6312

TECHNICAL AND HISTORICAL REVIEW

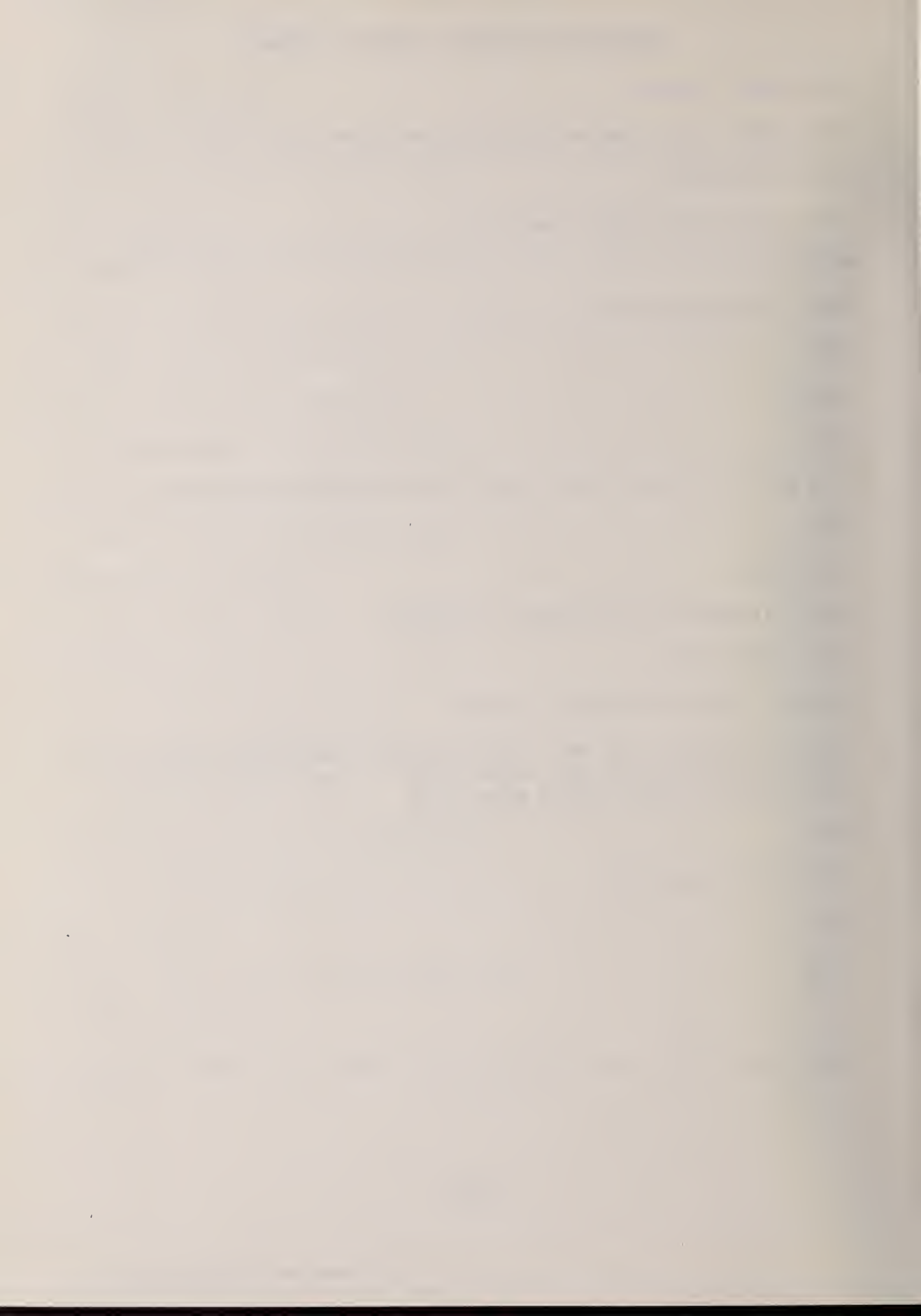
112 310 444 551 584 763 1031 1035 1149 2517 3504 3968 5401
5710 6018 6025 6026 6027 6028 6042 6045 6210 6311 6333
6377 6835 6847 6863 6952 6955 7190

WOOD

2607 2792 2959 6020

WOOL

1442



NBS TECHNICAL PUBLICATIONS

PERIODICALS

JOURNAL OF RESEARCH reports National Bureau of Standards research and development in physics, mathematics, chemistry, and engineering. Comprehensive scientific papers give complete details of the work, including laboratory data, experimental procedures, and theoretical and mathematical analyses. Illustrated with photographs, drawings, and charts.

Published in three sections, available separately:

● Physics and Chemistry

Papers of interest primarily to scientists working in these fields. This section covers a broad range of physical and chemical research, with major emphasis on standards of physical measurement, fundamental constants, and properties of matter. Issued six times a year. Annual subscription: Domestic, \$9.50; foreign, \$11.75*.

● Mathematical Sciences

Studies and compilations designed mainly for the mathematician and theoretical physicist. Topics in mathematical statistics, theory of experiment design, numerical analysis, theoretical physics and chemistry, logical design and programming of computers and computer systems. Short numerical tables. Issued quarterly. Annual subscription: Domestic, \$5.00; foreign, \$6.25*.

● Engineering and Instrumentation

Reporting results of interest chiefly to the engineer and the applied scientist. This section includes many of the new developments in instrumentation resulting from the Bureau's work in physical measurement, data processing, and development of test methods. It will also cover some of the work in acoustics, applied mechanics, building research, and cryogenic engineering. Issued quarterly. Annual subscription: Domestic, \$5.00; foreign, \$6.25*.

TECHNICAL NEWS BULLETIN

The best single source of information concerning the Bureau's research, developmental, cooperative and publication activities, this monthly publication is designed for the industry-oriented individual whose daily work involves intimate contact with science and technology—for *engineers, chemists, physicists, research managers, product-development managers, and company executives*. Annual subscription: Domestic, \$3.00; foreign, \$4.00*.

* Difference in price is due to extra cost of foreign mailing.

Order NBS publications from:

Superintendent of Documents
Government Printing Office
Washington, D.C. 20402

NONPERIODICALS

Applied Mathematics Series. Mathematical tables, manuals, and studies.

Building Science Series. Research results, test methods, and performance criteria of building materials, components, systems, and structures.

Handbooks. Recommended codes of engineering and industrial practice (including safety codes) developed in cooperation with interested industries, professional organizations, and regulatory bodies.

Special Publications. Proceedings of NBS conferences, bibliographies, annual reports, wall charts, pamphlets, etc.

Monographs. Major contributions to the technical literature on various subjects related to the Bureau's scientific and technical activities.

National Standard Reference Data Series. NSRDS provides quantitative data on the physical and chemical properties of materials, compiled from the world's literature and critically evaluated.

Product Standards. Provide requirements for sizes, types, quality and methods for testing various industrial products. These standards are developed cooperatively with interested Government and industry groups and provide the basis for common understanding of product characteristics for both buyers and sellers. Their use is voluntary.

Technical Notes. This series consists of communications and reports (covering both other agency and NBS-sponsored work) of limited or transitory interest.

Federal Information Processing Standards Publications. This series is the official publication within the Federal Government for information on standards adopted and promulgated under the Public Law 89-306, and Bureau of the Budget Circular A-86 entitled, Standardization of Data Elements and Codes in Data Systems.

CLEARINGHOUSE

The Clearinghouse for Federal Scientific and Technical Information, operated by NBS, supplies unclassified information related to Government-generated science and technology in defense, space, atomic energy, and other national programs. For further information on Clearinghouse services, write:

Clearinghouse
U.S. Department of Commerce
Springfield, Virginia 22151

U.S. DEPARTMENT OF COMMERCE
WASHINGTON, D.C. 20230

OFFICIAL BUSINESS



POSTAGE AND FEES PAID
U.S. DEPARTMENT OF COMMERCE
