NISTIR 6527

# Measurement Needs for Fire Safety: Proceedings of an International Workshop

Thomas J. Ohlemiller
Erik L. Johnsson
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National Institute of Standards and Technology
Technology Administration, U.S. Department of Commerce

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Thomas J. Ohlemiller
Erik L. Johnsson
Richard G. Gann
Building and Fire Research Laboratory
National Institute of Standards and Technology
Gaithersburg, MD 20899-8653

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U.S. Department of Commerce
*William M. Daley, Secretary*

Technology Administration
*Dr. Cheryl L. Shavers, Under Secretary of Commerce for Technology*

National Institute of Standards and Technology
*Raymond G. Kammer, Director*

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# ASIA

Yuji Hasemi
Building Research Institute
Japan

- No movement toward Regional Harmonization
- Significant Increase of Fire Loss and Large Fires in NICS during 1990s
- Growing Interest in ISO
- Little Experience with Performance Oriented Fire Tests

# HISTORY AND BACKGROUND

| | |
|---|---|
| 1982 - 1987 | MOC R & D Program on Fire Safety Design Method |
| 1986 - 1991 | MOC R & D Program on Wooden Construction |
| 1992 | ISO Domestic Liaison Secretariat moved from JISC to I²BH |
| 1993 - 1998 | MOC R & D Program on Fire Testing |
| 1998 June | Revision of Building Standard Law(BSL) toward Performance-based Standard |
| 2000 | Liberalization of BSL Fire Safety Appraisal |
| 2000 June | Revision of BSL Enforcement Orders<br>Revised and New MOC Notifications |

# MOC Sopro Proposal for Reaction-to-Fire Test Framework

Reference

- ISO9705 Room Corner Test

Alternatives for limited fire scenarios and materials

- Revised Model Box Test
- ISO5660 Cone Calorimeter

# BRI Proposal for the New Reaction-to-Fire Test Framework

- ISO9705 Room Corner Test
- Revised Model Box Test
- ISO5660 Cone Calorimeter

# New BSL Reaction-to-Fire Test Framework

Successor of the Surface Test

- **ISO5660 Cone Calorimeter**
- **Gas Toxicity Test ?**

Evaluation of Design Solutions

- **ISO9705 Room Corner Test?**
- **Revised Model Box Test?**