
Fire Suppression & Detection Research Application Symposium

1-3 February 2006

Holiday Inn Select Orlando Airport
Orlando, Florida, USA

***The Research Challenge
for Fire Suppression
and Detection Systems***



www.nfpa.org/Foundation

8:30 • Welcome
Kathleen Almand

Executive Director
The Fire Protection Research Foundation

8:45 - 9:30 • Keynote Address

“Fire Alarm System Research:
Where it’s Been and Where it’s Going”

Wayne Moore

Principal
Hughes Associates, Inc.

9:30 • William M. Carey Award

Presentation of 2005 Award

9:30 - 10:00 • Break

**10:00 – 12:00 • Research and
Development Update**

Raymond Grill, Arup Fire
Moderator

The Response of Residential Smoke Alarms at
Low Flow Velocities

*Thomas Cleary and William Davis, National
Institute of Standards & Technology*

Predicting Response Times of Fixed-Temperature,
Rate-of-Rise, and Rate-Compensated Heat
Detectors by Utilizing Thermal Response Index of
the Detectors

Soonil Nam, FM Global

Smoke Detector Performance for Level Ceilings
with Deep Beams and Deep Beam Pocket
Configurations

Daniel O’Connor, Schirmer Engineering Corp.

An Algorithm for Fast and Reliable Fire Detection

*Walter Jones, National Institute of Standards &
Technology*

12:00 - 1:30 • Lunch on own

**1:30 - 4:30 • New Roles and Functionality
of Fire Alarm Systems**

Richard Bukowski, National Institute of
Standards & Technology
Moderator

New Roles for Fire Alarm Systems for
Assured Fire Safety

*Richard Bukowski, National Institute of
Standards & Technology*

Presentation of Real-Time Building Information
for First Responders

*William Davis, National Institute of
Standards & Technology*

2:30 - 3:00 • Break

Volume Sensor – Multi-sensor, Multi-criteria
Event Detection

Daniel Gottuk, Hughes Associates, Inc

*Susan Rose-Pehrsson, Jeff Owrutsky, Frederick
Williams, Naval Research Laboratory*

An Overview of the International Road Tunnel
Fire Detection Research Project

*Zhigang Liu, A. Kashef, G. Loughheed, J.Z. Su,
N. Benichou, National Research Council of Canada*

Panel Discussion

Session Speakers

5:30 - 7:30 • No-Host Reception

8:30 - 10:30 • Fire Alarm and Human Response

*Erin Mack Ashley, Combustion Science & Engineering, Inc.
Moderator*

Reducing Fire Deaths in the Aged: Optimising the Smoke Alarm Signal
Dorothy Bruck, Victoria University

Directional Sounders
Isaac Papier, Honeywell Life Safety

Psychoacoustic Sounders
Daniel O'Connor, Schirmer Engineering Corp.

Visual Appliances in Large Spaces
Robert Schifiliti, R.P. Schifiliti Associates, Inc.

10:30 - 11:00 • Break

11:00 - 12:00 • Research Challenges for Automatic Sprinkler Systems

*Russell Fleming, National Fire Sprinkler Association
Moderator*

An Historical Analysis of Automatic Sprinkler System Reliability
William Koffel, Koffel Associates, Inc.

An Analysis of Automatic Sprinkler System Reliability Using Current Data
John Hall, NFPA

12:00 - 1:30 • Lunch on Own

1:30 - 5:00 • Research Challenges for Automatic Sprinkler Systems (continued)

*Russell Fleming, National Fire Sprinkler Association
Moderator*

Review of Current Protection Criteria for Flammable and Combustible Liquids for Warehouse and Production Facilities
*David Nugent, AON Risk Consultants
John Davenport
John LeBlanc, FM Global*

Finding Protection for Composite IBCs Filled with High Flash Point Liquids
John LeBlanc, FM Global

3:00 - 3:30 • Break

Development of a Performance Equivalency Methodology for Detection and Suppression System Integration
Ming He, Wes Marcks, Vision Fire & Security

Application of Fire Test Data for Hazard Reduction in Storage and Warehouse Occupancies
Martin Pabich, Underwriters Laboratories Inc.

Residential Sprinklers and Interactions with Ceiling Fans
Victoria Valentine, National Fire Sprinkler Association

8:00 - 11:00 • Fire Suppression Systems

Ken Dungan, Risk Technologies, LLC
Moderator

What We Don't Know about Sprinkler Protection
of Stored Commodities

James Golinveaux, Tyco Fire Products

Compressed-Air Foam (CAF) System for
Fire Protection of Power Transformers

*Andrew Kim and George Crampton,
National Research Council of Canada*

Flame Extinguishing in the Cup-burner by
Inert Gases

*Joseph Senecal, Combustion Research Center,
Kidde-Fenwal, Inc.*

9:30 - 10:00 • Break

Status of the New Laboratory Project at
Oklahoma State University

Pat Brock, Oklahoma State University

Ultra-High Speed Fire Suppression System

*Douglas Dierdorf and John Hawk,
Air Force Research Laboratory*

Promotional Literature Service

There is an opportunity for companies to insert promotional literature in the attendee information packs at a cost of \$250. Please send a sample of the literature to Eric Peterson at address above by December 31.

Symposium location:

*Holiday Inn Select, Orlando Int'l Airport
5750 T.G. Lee Boulevard
Orlando, FL 32822
407.851.6400*

The registration includes two and a half days of technical programs, continental breakfasts, a reception, and Symposium Proceedings.

Registration by Jan. 6, 2006: \$495

After Jan. 6, or on site: \$595

Cancellations must be received by January 20, 2006 and will be subject to a \$50 processing fee. Registrations are non-refundable after January 20.

Special room rate of \$125/night is available at the symposium hotel. Call **407.851.6400**. Make your reservation by **January 3, 2006**, after which the special room rate cannot be guaranteed.

Discounted airfares are available through Colpitts World Travel at 800.795.9500 or 617.984-7313.

Register online at www.nfpa.org/Foundation (click on Research Symposia), or fax or mail a copy of the registration form on the back panel to:

Eric Peterson

Conference Coordinator

The Fire Protection Research Foundation
1 Batterymarch Park
Quincy, MA 02169-7471 USA

Fax: **617.984.7010** (charge orders only).

Phone: 617.984.7281

Email: epeterson@nfpa.org

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Eric Peterson at 617.984.7010.



Special Accommodations:

If you are in need of special accommodations, please contact Eric Peterson at 617.984.7281.

Visit our web site for latest information and to register online: www.nfpa.org/Foundation

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