



THE FIRE PROTECTION RESEARCH FOUNDATION

Register Now

Summit on National Trends in Delivery of Health and Long-Term Care: Implications for Safety Codes and Standards, July 21, 2010, Baltimore, Maryland
Significant changes are underway in the way health care, long-term care, and personal care are delivered in 2010 and beyond, many of which will influence NFPA health care codes and standards.

This summit, co-sponsored by the Foundation and NFPA, is designed to bring members of NFPA technical committees and health care industry leaders together to learn about these trends and changes and to determine what areas can be addressed in both the near and long term.

Featured presentations will include cultural change in long-term care facilities, trends in home health care models, hospital design in 2010 beyond, and more. Full program and registration details are available [here](#).



Contact the Foundation

epeterson@nfpa.org for more information or to participate in Foundation programs

Foundation Website

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March/April 2010

New Projects

Developing Friction Loss Coefficients for Modern Fire Hose

The calculation of friction loss in fire hose defined in NFPA 1961, *Fire Hose*, is a common duty for fire apparatus drivers/operators responsible for operating fire apparatus pumps, as defined by NFPA 1002, *Fire Apparatus Driver/Operator Professional Qualifications*. Specifically, they have the critical task of delivering water at the proper flow rate and pressure to firefighters controlling the fire hose nozzle in an attempt to extinguish a fire. Current baseline friction loss coefficients used to calculate fire hose pressure loss were derived using 50-year-old hose design technology. This project, funded by NFPA, will develop baseline friction loss coefficients for the types of fire hose commonly used by today's fire service and will identify any additional performance characteristics that should be considered for friction loss calculations. For more information, contact cgrant@nfpa.org.

Evaluation of Health Care Operating Rooms as Wet/Dry Locations

A key area of debate in the most recent revision cycle of NFPA 99, *Health Care Facilities*, is electrical equipment in hospital operating rooms and whether operating rooms are considered "wet" or "dry" locations. The current 2005 edition of NFPA 99 requires operating rooms and other potential "wet" locations in hospitals to have special protection—usually either isolated power-supply systems or ground-fault circuit interrupters—against electrical shock. The objective of this research project is to define and analyze the hazards associated with hospital operating rooms to clarify whether they require electrical equipment appropriate for wet locations or dry locations. Contact cgrant@nfpa.org for more information.

Research Planning

CSST Gas Piping Installation to Mitigate Lightning Effects

On March 3, the Foundation met with CSST manufacturers, insurance industry representatives, and members of NFPA technical committees responsible for NFPA 54, *National Fuel Gas Code*; NFPA 780, *Installation of Lightning Protection Systems*; and NFPA 70[®], *National Electrical Code*[®], to discuss the possible scope of a research program exploring appropriate bonding and installation techniques for CSST gas piping to mitigate damage due to lightning events. A scope for a baseline literature and data collection and review was developed and will be pursued as a first phase. Contact kalmmand@nfpa.org for more information.

New Reports available on the Foundation's Website

Measuring the Impact of Fire Extinguisher Agents on Cultural Resource Materials

This report documents Phase I of a project designed to quantify the impact of discharging portable fire extinguishing agents on cultural resource materials. The report includes a comprehensive literature review and the development of prototype specifications and procedures to test the effects of extinguishers. In an anticipated Phase II, the test specifications will be validated and a final specification produced. The NFPA Technical Committee on Cultural Resources will use the results to help users choose extinguishers.

Symposia

High-Challenge Warehouse Workshop Design Concepts Now Available

One hundred-fifty fire protection professionals participated in the Foundation's high-challenge warehouse workshop on February 18 in Orlando, Florida. The objective of this workshop was to review preliminary engineering design concepts illustrating innovative approaches to protecting a high-challenge warehouse in such a way as to minimize inventory loss from fire without internal manual firefighter intervention.

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Leading fire protection engineering companies, including Schirmer Engineering, RJA, the FPI Consortium, Telgian, Summit Fire Protection, Creative FPE Solutions, Hughes Associates, and XL America, presented their concepts for open review and discussion. The presentations and a summary of them are available on the workshop blog [here](#).

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