



**Session 4D:
Highlights of Selected NFPA Research Foundation Projects**

Today's fire service and related fire protection community are seeing a surge in research efforts, propelling the profession into the 21st century. We have entered a new era that is advancing rapidly with new approaches, equipment and methods. This presentation will highlight three topic areas of key interest to all emergency responders and fire protection professionals: (1) emerging issues; (2) health and wellness; and (3) smart cities and new technology. Each topic area will include a deeper dive into some of the research activities of greatest interest, including emerging issues such as energy storage systems, lithium-ion batteries, flammable refrigerants, tall wood buildings, and reformulated foams. Health and wellness issues will address contamination control, cancer, behavioral health, and sleep studies. Smart cities and new technology issues will address the smart fire fighter of the future, with focused efforts such as real-time building data exchange, physiological monitoring, social media mining, and robotic technologies (e.g., drones).



**Casey Grant, P.E.
Executive Director
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Casey Grant is the Executive Director for the Fire Protection Research Foundation, the research affiliate of the National Fire Protection Association. He holds a Bachelor's degree from the University of Maryland and a Master's degree from Worcester Polytechnic Institute, both in Fire Protection Engineering, and he is a Registered Professional Engineer in the states of California and Tennessee.

Casey is a Fellow of the Society of Fire Protection Engineers, a Fellow in the Institute of Fire Engineers, and has one fire protection related U.S. patent. Prior to joining the Research Foundation in 2007, Casey was the Secretary of the NFPA Standards Council and Assistant Chief Engineer, where his responsibilities include oversight for the approximate 300 NFPA codes and standards.

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