



RESEARCH FOUNDATION

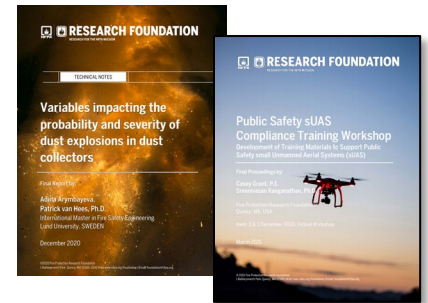
RESEARCH FOR THE NFPA MISSION

FPRF Quarterly Newsletter: 2021 Q1

Q1: Completed Projects and Featured Publications

Completed Projects

- [Variables impacting the probability and severity of Dust Explosions in Dust Collectors](#)
- [Carbon Monoxide Detection and Alarm Requirements: Literature Review](#)
- [Public Safety sUAS Compliance Training Workshop Proceedings](#)
- [Preparing for Disaster: Workshop on Advancing WUI Resilience](#)
- [NFPA 1700: Guide for Structural Fire Fighting Online Training](#)



Featured Publications

- NFPA Journal – [Disrupting the Flow](#) on FPRF “Impact of Obstructions on ESFR Sprinklers” research program (Q1 2021).
- NFPA Journal – Building Cybersecurity “[Weak Spots](#)” on FPRF “Cybersecurity for Fire Protection Systems” project (Q1 2021).
- NFPA Journal – [A Better Fit](#) on “Female Firefighter PPE” project with Florida State University (Q1 2021).
- NFPA Journal – [General Negligence](#) on FPRF “Carbon Monoxide Detection and Alarm Requirements” project (Q1 2021).
- NFPA Journal Column – [Green Questions](#) on FPRF “Fire Safety Challenges of Green Buildings” project (Q1 2021).
- International Fire Protection - Hampering Sprinkler Effectiveness on “Impact of Obstructions on ESFR Sprinklers” study (Q1 2021)
- Fire Technology – [Fire Hazard Analysis of Modern Vehicles in Parking Facilities](#) (Q1 2021)
- SFPE Fire Protection Engineering Magazine – [Modern Vehicle Fire Hazards](#) (Q1 2021)
- Safety Science – [The simulation of wildland-urban interface fire evacuation: The WUI-NITY platform](#) (Q1 2021)
- UK Fire Magazine – [Evidence-based recommendations for structural firefighting now available in NFPA 1700](#) (Q1 2021)

Q1: Projects Initiated

- [Impact of Medications on Older Adult Fall and Fire Risk - Remembering When Revisited](#)
- [Oxygen Reduction Systems for Warehouse Storage Applications- Phase II](#)
- [Review of Alarm Technologies for the Deaf and Hard of Hearing Population](#)
- CaReDeX: Enabling Disaster Resilience in Aging Communities via a Secure Data Exchange
- [Static Electricity Incident Review](#)

Q1: Multi-media

- [Podcast – Cybersecurity in Building Systems](#) - Interview with Tyler Robinson from FPRF Technical Panel for “Cybersecurity for Fire Protection Systems” project.
- [Podcast – A Better Fit](#) – Interview with Meredith McQuerry, lead researcher from Florida State University, regarding a FRPF Advisory Service Project on the design and fit of “[Female Firefighter PPE](#)”.
- [Podcast - The Evolving Science of Firefighting](#) – Dan Madrzykowski and Stephen Kerber, UL FSRI, discuss findings of their extensive research and how this knowledge has been collected and distilled into NFPA 1700.

Q1: FPRF News

- FPRF launched a new paid “Energy Storage Research Consortium” to support research planning and implementation of projects to fill data gaps for emerging technologies.

For more information about the Research Foundation, visit <https://www.nfpa.org/foundation>.

Q1: Past and Upcoming Webinars

- Holistic Protection Method of Top-Loading Automatic Storage and Retrieval Systems (January 27). [Access the webinar here.](#)
- Obstructions and Early Suppression Fast Response Sprinklers (February 10). [Access the webinar here.](#)
- Combustible Gas Dispersion and Detector Location Analysis in Residential Occupancies (March 10). [Access the webinar here.](#)

Upcoming Webinars

- FPRF Webinar: Fire Safety Challenges of ‘Green’ Buildings and Attributes on April 14, 12:30 pm ET. Register [here](#).