



Seminar 2A:
Lithium Ion Battery Panel Discussion

This is not your grandfather's battery!

The chemistry of the lithium-ion energy storage system has enabled many opportunities for energized devices, equipment, and systems.

- 1) Portable devices have become smaller and more portable and operate longer.
 - 2) Vehicles have another potential fuel source to keep them on the road longer between "fill-ups".
 - 3) Electric utilities can conveniently store energy to power the grid or use locally.
- Lithium-ion technology is a box-truck full of opportunity pulling a trailer full of unintended consequences.

Lithium-ion energy storage has a failure potential of thermal runaway – a mechanism outside the traditional "fire triangle". This causes confusion for consumers, highway traffic response personnel, and fire scene operations in the built environment. NFPA 855 attempts to manage the stationary, built-environment, systems, but there is so much more to address as this technology continues to be deployed at a feverish rate.

This panel discussion will address the chemistry and physics of the technology, failure conditions, detection opportunities, suppression opportunities, and what to expect in the near future.