



### Session 3D:

### The Role of Sprinkler Protection for Energy Storage Systems

Mr. Ditch will discuss the development of sprinkler protection guidance for li-ion battery-based energy storage systems. He will provide an overview of recent large-scale fire testing, including the technical approach, results, conclusions, and recommendations.

Biometric Protection Method of Top-Loading Automatic Storage and Retrieval Systems



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### Benjamin Ditch, FM Global



Benjamin Ditch is a Sr. Lead Research Engineer at FM Global and has an M.S. in Fire Protection Engineering from Worcester Polytechnic Institute in Worcester MA, USA. Mr. Ditch is the Technical Team Leader of the Large-Scale Fires Team with 19 years of experience in fire hazard analysis and specialty fire protection system design. He is responsible for the development and implementation of large-scale testing, including specialty hazards such as ignitable liquids, non-standard storage, and new technologies. Mr. Ditch's current research interests include protection for automatic storage and retrieval systems, energy storage systems, and lithium-ion batteries.



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