TECHNOLOGY SYMPOSIUM

SCHEDULE AND PRESENTATIONS

ABOUT THE TECHNOLOGY SYMPOSIUM **Tuesday, March 10, 2020, 8:30 a.m. to 4:30 p.m.**

DISCOVER NEW TRENDS, TECHNOLOGY, AND APPLICATIONS! Don't miss the Technology Symposium at the 2020 SFPE Greater Atlanta Fire Safety Conference!

The conference planning committee carefully selected the following speakers and topics from an application process. We hope you will find these topics timely and relevant. Each program has very specific learning outcomes (see pages 2-4). In general, speakers share new trends, case studies, advancements in technology and new or unique applications for existing technologies.

SCHEDULE AT A GLANCE

Welcome & Introduction	8:30 a.m.	to	8:45 a.m.
Emerging Technologies - Coexisting in the Fire & Life Safety Ecosystems Denise Pappas, Keltron Corporation	8:45 a.m.	to	9:35 a.m.
Break—15 Minutes	9:35 a.m.	to	9:50 a.m.
The Use of Augmented Reality in the Fire Industry James "Andy" Lynch, The Fire Solutions Group	9:50 a.m.	to	10:40 a.m.
Break—15 Minutes	10:40 a.m.	to	10:55 a.m.
Public Safety In-Building DAS Design from an Integrator's Perspective Kern C. Davis, Communication Technology Services	10:55 a.m.	to	11:45 p.m.
Lunch	11:45 a.m.	to	12:45 p.m.
Fire Rated Enclosures: No Need to Sacrifice Safety or Compliance Joseph Hauf, ConQuest Flamebar	12:45 p.m.	to	1:35 p.m.
Break—15 Minutes	1:35 p.m.	to	1:50 p.m.
How to Achieve Next Level Intelligibility in Acoustically Challenging Spaces Jeff Gaerte, HyperSpike	1:50 p.m.	to	2:40 p.m.
Break—15 Minutes	2:40 p.m.	to	2:55 p.m.
Protection of Lithium Ion Batteries Using Marioff Hi-FOG Water Mist Jonathan Ingram, Marioff North America	2:55 p.m.	to	3:45 p.m.
Closing Comments	3:45 p.m.	to	4:00 p.m.
Visit the Exhibitor Booths!	4:00 p.m.	to	4:30 p.m.

PLEASE JOIN US AT THE WELCOME RECEPTION FOLLOWING THIS PROGRAM

SFPE Greater Atlanta

PROGRAM DETAILS

Emerging Technologies - Coexisting in the Fire & Life Safety Ecosystems

Denise Pappas, Executive Director, Keltron Corporation

This interactive presentation engages audience members and prompts them to consider all phases from a manufacturing through to an AHJ approach, from conception to implementation, on using emerging technologies in fire and life safety applications. Whether POE, IoT, AR, VR or 5G, these emerging technologies have an impact on the fire protection world.

Learning Objectives:

1. Understanding from a high level view where emerging technologies fit into the fire & life safety ecosystem
2. Identify issues associated with emerging technologies and challenges with implementing them
3. How to work with the AHJ from conception to implementation of emerging technologies within the fire & life safety ecosystem

The Use of Augmented Reality in the Fire Industry

James “Andy” Lynch, Owner, The Fire Solutions Group

This presentation covers the use of augmented reality in support of the fire industry. Augmented reality is becoming more prevalent in society and promises a new way of organizing information and visualizing data. Users, when presented information in a visual form, are 2X more likely to use the data when making decisions, 3X more likely to execute decisions as intended, 5X more likely to make decisions much faster than peers. When put into the context of a fire emergency or even the upgrade of a fire system, augmented reality can be a powerful tool. Augmented reality has been incorporated into SCBAs to help with navigation, a software app has been created to assist with egress, and a software app has been created to identify the fire protection features and hazards geospatially. These tools will expedite the sharing of information between all parties and make available vital information at a glance.

Learning Objectives:

1. How data visualization can influence the speed and result of the decision-making process
2. Three ways augmented reality is being implemented in the fire industry
3. How geospatial visualization of information will assist AHJs, firefighters, building owners and managers, consultants, contractors, and the insurance agents

PROGRAM DETAILS *(continued)*

Public Safety In-Building DAS Design from an Integrator's Perspective

Kern C. Davis, VP Business Development & Consulting, Communication Technology Services (CTS)

85% of mobile phone calls now occur inside buildings. 65% of E911 calls are initiated on a mobile device. Inside the building we have to address whether the general public can communicate and that first responder radios work. New buildings code and IFC 2018 Code changes for In-Building Radio Enhancements require a design that will do both. CTS will provide training and education on Public Safety In-Building Communication Design, Engineering as it relates to current Fire Codes and Standards Development.

Learning Objectives:

1. Understand the Design and Engineering process for Public Safety In-Building Radio Booster Systems
2. Understand the different approaches available for solving in-building wireless enhancements and why they are needed
3. Understand the challenges that NFPA and IFC codes present in the design and engineering of In-Building Systems

Fire Rated Enclosures: No Need to Sacrifice Safety or Compliance

Joseph Hauf, Vice President Engineering Services, ConQuest Flamebar

Save schedule, space, and cost with fully tested riser duct assemblies. Avoid common mistakes that are often made with these fire rated products when applied towards life safety systems. Recognize the difficulties of protecting horizontal assemblies. Ensure comprehensive solutions. Choose enclosures featuring protection for fans, ductwork, power, and controls. Get creative. Discover opportunities for design freedom without sacrificing safety or compliance.

Learning Objectives:

1. Be able to determine situations where the latest fire rated riser duct assemblies are an option to save space, cost, and schedule
2. Be able to assess fire rated duct fire resistance jargon against minimum compliance with NFPA and IBC/IMC criteria
3. Be able to close common scope and approval gaps to achieve project success

PROGRAM DETAILS *(continued)*

How to Achieve Next Level Intelligibility in Acoustically Challenging Spaces

Jeff Gaerte, Sales and Marketing Manager, HyperSpike

Parking garages, tunnels, gymnasiums, museums, airplane hangars, and stamping plants. What do all these areas have in common? They are all high ambient or highly reverberant spaces that present numerous challenges when trying to achieve intelligibility standards. Our team of experts will present ways to overcome these challenges with new UL1480 listed speaker technology. We will also discuss how to reduce hardware and installation costs and perform acoustic modeling.

Learning Objectives:

1. Identify solutions for achieving intelligibility in acoustically challenging areas
2. Learn how to reduce your hardware and installation costs
3. Smart emergency notification design with acoustic modeling options

Protection of Lithium Ion Batteries Using Marioff Hi-FOG Water Mist

Jonathan Ingram, Director of Sales, Marioff North America

This session will provide an overview of the Marioff Hi-FOG water mist system offering. It will also cover the testing that has been done with the Marioff Hi-FOG water mist system for protection of Lithium Ion batteries in 2012 and more recently the latest DNVGL Joint Development Program Report issued in January 7, 2020. We will review the benefits that this system brings to the table with regards to addressing key fire protection concerns with Lithium Ion Battery industry and how this technology can be applied.

Learning Objectives:

1. Basic understanding of water mist technology
2. What water mist solutions are available to protect Lithium Ion Batteries
3. Benefits/Advantages of Hi-FOG water mist over other fire suppression technologies