

Akron-Canton CSI ProductFest & Expo

May 18, 2017

12:30 p.m. – 8 p.m.

John S. Knight Center - Akron, OH

Session 1A - 12:30 - 1:30 p.m.: *Life Safety Sprinkler Systems and Challenges (NFPA 13R)* - Presented by Robert Solomon, PE from NFPA (1.0 HSW LUs)

Since NFPA 13 R was first released in 1989, many thousands of systems have been installed and have successfully provided the intended life safety benefit. Some recent fires however, have resulted in substantial property loss and damage thereby causing

NFPA two look at the utilization of this particular system.

- * Provide background regarding genesis, development and use of NFPA 13 R sprinkler systems.
- * Summarize results and recommendations emanating from the December, 2015 NFPA sponsored workshop on Life Safety Sprinkler System Challenges and resultant workshop report issued in June, 2016.
- * Discuss various elements around building construction, materials and interior furnishings and contents that can challenge the performance of NFPA 13 R systems in the modern era.
- * Review 2009 group home fire event in New York State in a life safety sprinkler protected building that had multiple fatalities.

Join our presenter, Robert Solomon, PE, NFPA, Engineering Division Manager in the Building Fire Protection and Life Safety group of NFPA as he discusses the latest information about NFPA 13R. Robert is the editor and technical reviewer for several NFPA publications and handbooks including the Fire and Life Safety Inspection Manual and the NFPA Fire Protection Handbook.

Session 1B - 12:30 - 1:30 p.m.: *A Box of Rainbows: A Practitioner's Guide to RGBA & RGBW Architectural LED Lighting* - Presented by Ron Friedman, PE from Art & Science Lighting Design (1.0 HSW LUs)

Don't miss this unique opportunity to hear Ron Friedman, Principal of Art & Science Lighting Design, one of today's leading Lighting Designers who will be inspiring us with his projects that utilize exciting color LED lighting design innovations that transcend disciplinary boundaries of typical lighting for architectural applications. The presentation will feature a tour of lighting installations including Cleveland's Terminal Tower, The Harbor Lights (at the mouth of the Cuyahoga River), The Westin Hotel, The University Circle East Building, and The Schneider Healing Garden at UH Seidman Cancer Center, as well as the future of Color LED lighting as Mr. Friedman uses example from projects currently in design.

This seminar will provide an insight on how public and private buildings using nighttime color can be community responsive and thematic while also boosting civic pride. You will see ;projects that were formally monochromatic city skylines, transformed into vibrant and elegant urban expressions, while at the same time providing energy saving solutions. The LED design for the Cleveland Terminal Tower provides an energy savings to the Owner about \$21,000 per year! His presentation will include a discussion on the his methodology for a design process. As critical as the design Mr. Friedman will review the types of luminaires that can be used, and the state-of-the-art control systems that orchestrate, sequence, and animate them. Ron will also show how Computer Modeling is an important tool when used as a design aid.

Join our presenter, Ron Friedman of Art & Science Lighting Design. His firm was founded in 1993 to fulfill a need for architectural lighting design services in Cleveland, Ohio. Cleveland's first independent full-service lighting design firm bringing product knowledge, technical competence, and a thorough understanding of the relationship of light to architecture and human psychology.

Session 2A - 2:00 - 3:00 p.m.: *Life Safety, Security and Codes- A Merging Alliance* - Presented by Robert Solomon, PE from NFPA (1.0 HSW LUs)

Each school day, our nation's schools are entrusted to provide a safe and healthy learning environment for approximately 55 million elementary and secondary students in public and nonpublic schools. Every school Emergency Operating Procedure (EOP) should include courses of action that will describe how students and staff can most effectively respond to an Active Shooter situation to minimize the loss of life, and teach and train on these practices.

Excerpt from an Article by Elizabeth Doran, edoran@syracuse.com:

Students were in their first-period class at Cazenovia High School when the vice principal's voice came over the loudspeaker telling everyone the school was going into a lockdown.

"You could tell from her voice she was serious," said senior Jack Nardella, who was in government class when the announcement came over about 8:15 a.m. "She told us we had to go into a lockdown, and that it was not a joke."

Security related threats in the K-12 environment and impact on codes, including recommendations emanating from the NFPA sponsored workshop on school safety, codes and security.

As security concerns are integrated more closely with the built environment, conflicts with established life safety, fire, and building code provisions can surface. Changes to several NFPA codes and standards have been developed and are helping to blend these provisions much more closely than they have in the past.

Join our presenter, Robert Solomon, PE, NFPA, Engineering Division Manager in the Building Fire Protection and Life Safety group of NFPA as he discusses the latest information about this important new aspect of Life Safety. Robert is the editor and technical reviewer for several NFPA publications and handbooks including the Fire and Life Safety Inspection Manual and the NFPA Fire Protection Handbook, and is a co-facilitator for the ASIS/NFPA Active Shooter Initiative.

Session 2B - 2:00 - 3:00 p.m.: *Title TBD* - Presented by Michael A. Brown from EATON Corporation (1.0 HSW LUs)

Description coming soon

Session 3A - 3:30 - 4:30 p.m.: *The Integrated Building* - Presented by Michael Stegman from Honeywell Hospitality Solutions (1.0 HSW LUs)

The Integrated Building course discusses IoT (Internet of Things) and the building technologies that ideally should be integrated to provide a sustainable building, that enhances occupant comfort. It will review the challenges and opportunities within the building community.

Join our presenter, Michael Stegman, who with many years of extensive experience built from engineering, sales and marketing positions with a focus on the Hospitality Market. At Honeywell he is responsible for the design and integration of automation of HVAC, Lighting, Shades and Guest Controls in the Hospitality, Healthcare and Educational markets.

Session 3B - 3:30 - 4:30 p.m.: *Circadian Rhythm and Lighting Controls* - Presented by Jason Cordon from Bright Focus Sales (1.0 HSW LUs)

This seminar provides an understanding of the natural circadian rhythm and how lighting control can affect it. Attendees will learn about using lighting control to tune color temperature to match circadian rhythms and preview the Well Building Standard.

- * Understand what your natural circadian rhythm is and how lighting control can affect it
- * Learn about the several lighting control options available to tune color temperature to match or trick the circadian rhythm
- * Discover the interfaces available for manual override and programming possible for automatic shifting
- * Preview the Well Building Standard and learn the compliance paths to certification.

Join our presenter, Jason Cordon, with the experience of working closely with clients and specifiers in developing applications for commercial lighting projects. His role is an extension of the manufacturers that BFS represents, providing service and education in a continuously evolving landscape of technologies, and delivering the factories' specific value propositions to the market he serves.

Session 4A - 7:00 - 8:00 p.m.: *Dynamic Lighting – Making and Moving Color* - Presented by Kristen Mallardi, LC, MIES from Acuity Brands / IES (1.0 HSW LUs)

Dynamic lighting is moving to the mainstream. With all this happening, it is important for us to catch up on what Dynamic Lighting is and where it is going.

In this interactive presentation, we'll explore the basic features and effects of dynamic lighting and determine what we'll bring along to the mainstream. Further, we'll explore the challenges to do just that— the implications of bandwidth constraints, installation considerations, and fitting all this into code compliant and cost sensitive everyday systems.

Join our presenter, Kristen E Mallardi, LC, MIES, Specifications Solutions Manager for Acuity Brands has served on the Board of Manager of the IES Cleveland Section for the past 6 years and has been serving in the role of President of her section since 2014. She also serves the IES as a member of the Maintenance Committee. Kristen also has sat on the Board of Governors of the CTSC, Cleveland Technical Societies Council since 2012. The CTSC is an organization whose mission is to collaborate with, promote and recognize the many technical societies in Northeast Ohio. CTSC has served the scientific, technical, engineering and education professions in Northeast Ohio since 1942.

Session 4B - 7:00 - 8:00 p.m.: *Color Tuning White Light* - Presented by Gene Schleicher, PE from Bright Focus Sales (1.0 HSW LUs)

It is well known that overlaying the projection of one color of light with the projection of a different color of light will result in the creation of a third color on the reflected surface. And the use of computer networks to control lighting is nothing new, either. What is new is the continued reduction in cost of LED-based luminaires and the development of better, more affordable, user interfaces and controls, making a number of different approaches to white color tuning possible.

- * Understand color space, the “black body curve” and the tuning of “white” light
- * Understand the design parameters of color-tuning systems for different applications
- * Learn about current research into vision science and physiological response to light
- * Learn the metrics used to specify a white color tuning system

Join our presenter, Gene Schleicher, who has passed his 40 years of experience in all aspects of lighting, from homes to hospitals. Gene spent 30 of those years in an electrical engineering capacity before moving into Lighting and Lighting Controls Representation, his current focus.