

## Ohio January 2016

**T**he Section meeting on January 28 was held at the Lyon Video plant in Columbus, Ohio, where approximately 50 members/guests were in attendance for the evening's very interesting and timely presentations, which included the latest innovated solutions to traditional television broadcast production and distribution methods using a more internet protocol (IP)—type approach in creating and modernizing traditional broadcast plants such as at TV stations and remote van facilities, to name just a few. Mike Pomerleau, a senior solutions architect and manager at Grass Valley in Montreal, Canada, was the main presenter for the evening. His presentation summarized revolutionary IP solutions such as utilizing some of the latest SMPTE standards in this new and exciting field, which revolutionizes traditional wiring approaches to a broadcast or field remote van, in addition to several others, for instance. He also pointed out that by using a “software-defined”-type approach to tradition plant wiring, the number of hard-wired cables in an E-to-E circuit path solution could be drastically reduced or even eliminated at many broadcast and remote plants.

A lively question-and-answer session followed Pomerleau's well-received exposé into a future world of more reliance on software rather than traditional hardware approaches to present and future video plant designs. An audience member mentioned a strategic term in describing such a new approach as an example of converting to more of a “fly-by-wire” or “drive-by-wire” solution similar to what a modern jet



(L-R) Mike Pomerleau, Grass Valley, meeting guest presenter; Wayne Schrand, a Grass Valley regional account manager.

airplane or newer automobiles use in driving their engine plants, etc.

A tour of one of the latest Lyon Video remote vans used to cover many national and regional sporting events followed the presentation.

—Gene L. Batey  
*Secretary/Treasurer*

## Washington, D.C. February 2016

The Washington DC Section meeting on February 18 featured an information session on the keyboard, video, and mouse (KVM) technology presented by Dan Holland, marketing manager at IHSE USA. The meeting was held at the National Association of Broadcasters headquarters in downtown

Washington, District of Columbia, and began with refreshments and a period set aside for networking and socializing. The Section extended a special invitation to members of the Washington DC Society of Broadcast Engineers to join SMPTE members for the session, and the combined groups filled the meeting space to near capacity.

Prior to introducing Holland's presentation, Section Chair Tom Hackett conducted a short business meeting in which the Program Chair Eric Wenocur provided information on upcoming activities, emphasizing the “Bits By The Bay” regional technology conference on May 25 to 26, organized and hosted by the Washington DC Section.

**Holland offered suggestions for specifying and implementing KVM systems, and he noted that although KVM was a mature technology, standards had yet to be developed.**

Holland began his presentation, “KVM—The Hidden Jewel for Next-Generation Workflow Performance,” with an overview of the technology, describing how it had evolved during the past several decades to include audio transmission, USB, graphics tablets, touchscreen displays, and ultra-high-definition video.

Holland described KVM installations, offering suggestions for determination as to whether users should install conventional “CAT”-type Ethernet cabling or use fiber-optic connectivity, noting that with a single-mode fiber, user terminals and central processing units (CPUs) could be separated by as much as 10 km. He stated that KVM technology was useful in a number of ways other than in clearing a users’ desk of multiple monitors, keyboards, and mice, as it offered secure connectivity, and the physical isolation between users and CPUs it provides thwarts theft and unauthorized use of company computers.



Guest speaker Dan Holland, at the Washington DC February meeting.

Holland offered suggestions for specifying and implementing KVM systems, and he noted that although KVM was a mature technology, standards had yet to be developed. He

concluded his presentation by fielding questions from attendees about various aspects of KVM.

—James E. O’Neal  
Section Manager



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Section Chair Louis Johnson IV calls the meeting to order.

### Detroit February 2016

**L**ight-emitting diode (LED) lighting technology continues to advance and is overtaking tungsten and fluorescent lights in both studio and field applications. Kevin Kennelly, regional sales manager for Ushio, provided a presentation, “Advances



Program presenter Kevin Kennelly of USHIO/zylight.

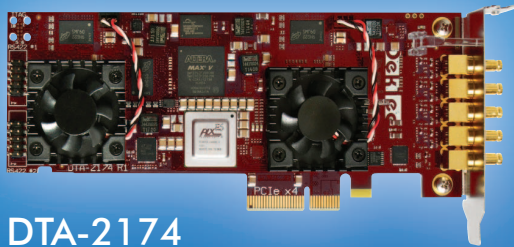
in LED Lighting for Studio and Remote Production,” on February 23 at CBS TV Detroit (WKBD/WWJ-TV) Studios. Kennelly demonstrated some of his company's LED solutions, which address persistent problems of older lighting technologies. These include small and large Fresnel fixtures, panel-style softlights, LED black lights, and long-throw LED fixtures, as well as camera-top field lighting systems that produce consistent light at a fraction of the



Videographer Peter Herb inspects LED fresnel fixture.

power usage of conventional lamps. The color temperature can be adjusted for color correction or special effects on many of the fixtures as well. Kennelly also discussed the potential savings to be realized with a conversion to LEDs in a studio setting in greatly reduced power consumption and heating, ventilation, and air conditioning requirements, which can quickly recoup

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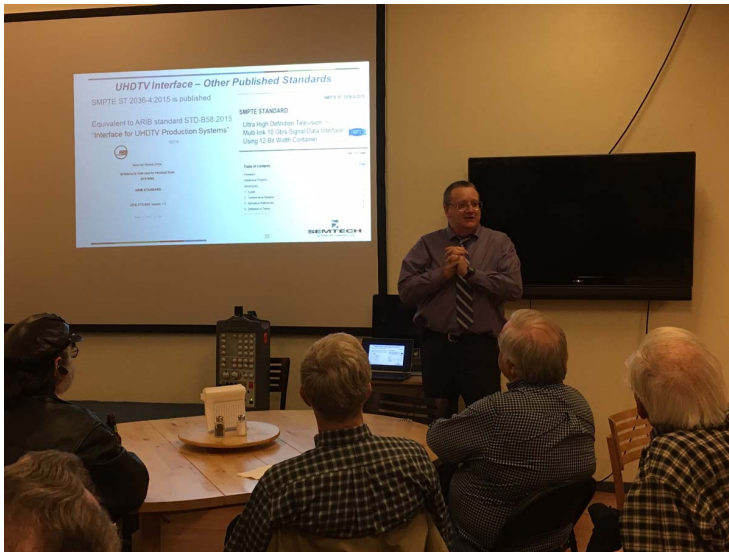
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Speaker John Hudson discusses UHD-SDI at the Sacramento Section meeting in February.

International Standardization for Semtech Corp., educated a standing-room-only crowd with information, updates, and live test demonstrations centered around the standards, technology, and compliance testing of ultra-high-definition serial digital interface (UHD-SDI). Covering everything from “What is UHD?” to the various standardization activities and the continued roadmap of UHD television (UHDTV), Hudson presented a comprehensive look at this rapidly evolving yet backward-compatible video transport interface.

The meeting was divided into two parts, with the first part focusing primarily on industry, technology, and standards and the second part delving into compliance test and measurement considerations. A short break between sessions gave attendees opportunity for socializing and refreshments provided by Semtech Corp. Hudson also provided a live test demonstration of return loss and how the electrical eye is measured at 12 Gbits/s.

the initial expense of new fixtures. A question-and-answer session led by Kennelly and Harry Akers, a local lighting designer/consultant, followed the presentation. About 21 members and guests attended.

—Chuck Reti  
Secretary/Treasurer

### Sacramento February 2016

The Sacramento Section meeting was held on 24 February at the Ensemble Design in Nevada City, California. Speaker John Hudson, director of Strategic Technology and

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Dominic Ross addresses attendees at the Philadelphia meeting.




Speaker Robert Mehrabian discusses AV at the Philadelphia meeting.

The audience interacted with Hudson, with questions ranging from “what is driving UHD TV” to technical discussions regarding specific standards decisions that have been made, such as the deprecation of quadrant division, which was


never standardized, for the new standardization of the two-sample interleave division.

Semtech Corp. provided ample copies of their UHD-SDI standards roadmap, which highlights the SMPTE standards starting with ST425-xx for 3G SDI and continu-

ing with ST2081-xx for 6G SDI, ST 2082-xx for 12G SDI, and, finally, ST 2083-xx for 24G SDI.

The Sacramento Section would like to thank Ensemble Designs for providing a comfortable venue for this meeting and John Hudson and Semtech Corp. for providing refreshments as well as an educational and relevant presentation. 



—Mona Smothers  
Past Section Chair



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### Philadelphia March 2016

**T**he Philadelphia Section meeting was held on 3 March at the Robert Mehrabian Collaborative Innovation Center, Carnegie Mellon University, with 44 members and guests. Speaker Matt Krstulja, AV director at Evertz, discussed “AV Media Over IP.” Krstulja covered how IP distribution systems are changing the methodology used for designing educational and AV facilities. He explained the technology solutions and how they are applied.

Dominic Ross of CMU/CERT provided an informative talk on managing workflow in a production facility, including the use of automation in repetitive tasks. Refreshments were provided by Evertz. 

—John Luff  
Secretary/Treasurer