**2018 NAB Show Preview**

**Society of Motion Picture and Television Engineers® (SMPTE®)**

**South Hall (Upper Lobby) – Booth LSU4**

**SMPTE**

White Plains Plaza

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**Company Overview**

**About SMPTE®**

For more than a century, the people of the Society of Motion Picture and Television Engineers, or SMPTE® (pronounced “simp-tee”), have sorted out the details of many significant advances in media and entertainment technology, from the introduction of “talkies” and color television to HD and UHD (4K, 8K) TV. Since its founding in 1916, SMPTE has received an Oscar® and multiple Emmy® Awards for its work in advancing moving-imagery engineering across the industry. SMPTE has developed thousands of standards, recommended practices, and engineering guidelines, more than 800 of which are currently in force today. SMPTE Time Code™ and the ubiquitous SMPTE Color Bars™ are just two examples of SMPTE’s notable work. As it enters its second century, SMPTE is shaping the next generation of standards and providing education for the industry to ensure interoperability as the industry evolves further into IT- and IP-based workflows.

SMPTE is a global professional association of technologists and creatives who drive the quality and evolution of motion imaging. Its membership today includes more than 7,000 members: motion-imaging executives, creatives, technologists, researchers, and students who volunteer their time and expertise to SMPTE’s standards development and educational initiatives. A partnership with the Hollywood Professional Association (HPA) connects SMPTE and its membership with the businesses and individuals who support the creation and finishing of media content. Information on joining SMPTE is available at [smpte.org/join](http://www.smpte.org/join).

**SMPTE® at the 2018 NAB Show**

**2018 NAB Show’s Future of Cinema Conference Produced in Partnership With SMPTE**

The internet is evolving at an ever-increasing rate, providing consumers with numerous new opportunities to acquire and consume media content. The media and entertainment industry is continually exploring new ways to compete and adapt with the evolving landscape. The 2018 NAB Show’s Future of Cinema Conference, produced in partnership with SMPTE®, will examine the future of movie-making. The conference will also dive deep into shifting models and opportunities for monetization, featuring hot topics such as next-gen cinema, high-dynamic-range (HDR), and immersive media (AR/VR/MR). SMPTE President Matthew Goldman, who is senior vice president of technology, TV and media at Ericsson, will join SMPTE Executive Vice President Pat Griffis, vice president of technology in the office of the CTO at Dolby Laboratories, and Chris Witham, director of digital cinema technology at The Walt Disney Studios, to open the event. SMPTE Executive Director Barbara Lange will join Griffis and Witham in opening the conference’s second and final day.

Past SMPTE President Peter Ludé, CTO at Mission Rock Digital LLC., will be among the speakers addressing aspects of working with next-generation movie-making technologies. A study of viewing habits of “Gen Z: The YouTube Generation” will be presented by his daughter,15-year-old Helen Ludé. SMPTE Member Michael Zink, vice president of technology at Warner Bros., is producing the session, “Getting Ready for Next Generation Cinema,” featuring Ronan Boitard of Barco/MTT Innovation, Gary Feather of NanoLumens, and Jon Karafin of Light Field Lab, Inc. SMPTE Fellow Annie Chang, vice president of creative technology at Universal Pictures, is organizing a session that will take a look at the application of artificial intelligence and machine learning for content creation in a session titled “Do Androids Dream of Making Movies.” Britta Wilson, who serves as vice president of inclusion strategies at Pixar, will host a session titled “Diversity & Inclusion in the Cinema Workspace.” Further sessions will focus on the future of HDR, the emergence of location-based entertainment, and the techniques and technology used to capture immersive images.

The 2018 NAB Show’s Future of Cinema Conference, produced in partnership with SMPTE, will be held in the Upper South Hall meeting rooms on Saturday, April 7, and Sunday, April 8. Conference session details and registration are available here: [nabshow.com/education/conference/future-cinema-conference](https://www.nabshow.com/education/conference/future-cinema-conference).

SMPTE members may use code EP03 to take $100 off the 2018 NAB Show nonmember rate for a Conference Flex Pass registration.

**IP Showcase at 2018 NAB Show**

The Society will again join with the Audio Engineering Society (AES), Alliance for IP Media Solutions (AIMS), Advanced Media Workflow Association (AMWA), European Broadcasting Union (EBU), IABM, Media Networking Alliance (MNA), and Video Services Forum (VSF) to support the IP Showcase at the 2018 NAB Show. Dedicated to educating visitors and highlighting the business and creative benefits of IP, the IP Showcase will provide a unified, industry-wide view of the latest advances in IP technology and how it can add maximum value to the broadcast industry and the individuals and companies that drive it. Visitors to the IP Showcase will see engineering progress along with real-world examples of IP applications from leading networks and program producers. The exhibition also will assist broadcast/IT engineers, CEOs, producers, and others in determining how they can effectively leverage the recently published SMPTE ST 2110 standards documents. More information about ST 2110 is available at smpte.org/st-2110.

**SMPTE Publications and Resources at the 2018 NAB Show**

Visitors to the SMPTE booth will have the chance to view **“The Honor Roll and Honorary Members of the Society of Motion Picture and Television Engineers,”** a limited-edition book that showcases the past century’s industry leaders and innovators, and the newly released **“Magic & Miracles: 100 Years of Moving Image Science & Technology,”** a richly illustrated and meticulously crafted history of the Society and its groundbreaking work over the past century. Attendees can purchase these books at the NAB Show store, or they can take advantage of new lower-cost international shipping options and purchase online at [magic-and-miracles.org](http://www.magic-and-miracles.org/).

**Photo Link:** [www.wallstcom.com/SMPTE/SMPTE\_Magic-and-Miracles-Cover.jpeg](http://www.wallstcom.com/SMPTE/SMPTE_Magic-and-Miracles-Cover.jpeg)

**Photo Caption:** Magic and Miracles: 100 Years of Moving Imaging Science and Technology

Throughout the 2018 NAB Show, SMPTE staff will be available to discuss current trends and answer questions about SMPTE activities, resources, and publications, including the latest “**SMPTE Standards Quarterly Report**,” which details the outcome of the March 2018 SMPTE Technology Committee meetings. The report summarizes the current progress of SMPTE committees that are working to create, approve, revise, and remove standards for the industry and is available at [smpte.org/outcomereport](http://www.smpte.org/outcomereport).

The Society recently announced the success of a first-of-a-kind pilot project to define a prototype SMPTE Specifications process. SMPTE and the Digitial Production Partnership (DPP) have delivered the first draft SMPTE Specification, which focuses on the use of the Interoperable Master Format (IMF), or SMPTE ST 2067, for broadcast and online applications.

The documents represent input by the DPP, SMPTE, the North American Broadcasters Association (NABA), and the European Broadcasting Union (EBU), as well as manufacturers and end users across the media industry. The draft specification for IMF for broadcast and online applications will address constraints including MXF Track Files, composition playlists (CPLs), output profile lists (OPLs), and IMF packages. The specification will reference other activities as well, such as the EBU.io/qc project for carrying quality-control metadata and EBU-TT, and it includes optional methods for carrying traditional EBU-STL subtitles in Europe and CTA-608/CTA-708 captions in North America. Built upon the IMF standard, this first SMPTE Specification will play a critical role in enabling broadcasters to use IMF workflows with their existing content archives, and it also will facilitate the realization of file-based interoperability on a large scale. By providing manufacturers with the guidance they need to move forward in designing and building readers, writers, and analyzers, the specification will bring the benefits of IMF more fully into the broadcast and online realm. The prototype SMPTE Specifications process will be exercised with these documents, and the process itself will be documented and reviewed by the SMPTE Board of Governors before being offered to the industry as a specifications service open to all. The draft documents are available at [digitalproductionpartnership.co.uk/publication/#publication-9771.](http://www.digitalproductionpartnership.co.uk/publication/#publication-9771.%C2%A0)SMPTE will post the final documents on its website.

As always, the Society will feature the ***SMPTE*Motion Imaging Journal,** which last year earned a Merit Award in the STC International Summit Awards (STC ISA) competition. Copies of the **April 2018 *“*UHD/HDR/WCG”** issue will be available in the booth.

SMPTE has recently published videos of the presentations from the SMPTE 2017 Annual Technical Conference & Exhibition (SMPTE 2017) on its [YouTube channel](http://www.youtube.com/smpteconnect). The new content includes more than 50 videos of the expert paper presentations delivered over the one-day Symposium and three days of technical sessions, held last October in Los Angeles and dedicated to exploring media and entertainment technology. The technical papers themselves are available within the SMPTE Digital Library hosted on the IEEE *Xplore* platform, along with more than 800 SMPTE standards documents currently in force and the peer-reviewed *SMPTE Motion Imaging Journal* dating back to 1916 — more than 20,000 documents in total. A complete listing of SMPTE publications is available at [smpte.org/digital-library](http://www.smpte.org/digital-library).

SMPTE Director of Membership Roberta Gorman and Society leadership will be on hand at the 2018 NAB Show to discuss membership benefits and the Society’s role in global standards and interoperability. Prospective members will be able to join, and existing members may renew their memberships on-site. Through the Student Membership Challenge (SMC), a SMPTE fund that pays for a student’s first year of membership, students can join for free. Further information on student programs is available at [smpte.org/students](http://www.smpte.org/students).

**SMPTE Members at the 2018 NAB Show**

Approximately 260 SMPTE Sustaining Members will exhibit at the 2018 NAB Show, and more than 50 SMPTE Members will participate in 2018 NAB Show conference sessions.

**Sessions Featuring SMPTE Members**

2018 NAB Show conference sessions featuring SMPTE Members will touch on an array of timely topics and technologies. Andy Beale, chief engineer at BT Sport, will speak on “Converging New TV Technologies Into a Unified Live Sports TV Experience.” Madeleine Noland, a consultant with LG Electronics, will participate in the session titled “Field Deployments of the ATSC 3.0 Standard.” Wayne Pecena, director of engineering at Texas A&M University – KAMU, will speak during the session titled “My Broadcast Plant Network Is Secure – Is Yours?” Ramki Sankaranarayanan, founder and CEO at Prime Focus Technologies, will take part in the session “Mastering Edits on Cloud.” Augusto Villasenor, vice president of broadcast technology at Globecomm, will be a speaker for the session titled “Stuck in the On-ramp to the New Data Highway? Take the Media Enterprise Service BUS.” Willem Vermost, IP media technology architect for the EBU, will present “The Art of Conforming to SMPTE ST 2110-21 Traffic Model.”

These are just a sampling of the many sessions featuring the expertise and experience of SMPTE Members.

**SMPTE Member News and Honors**

During the 2018 NAB Show, TVNewsCheck.com will present a Technology Women to Watch Award to SMPTE Member Jaclyn Pytlarz, senior engineer for applied vision science at Dolby Laboratories. She will be recognized for her work in developing color mapping and display- management algorithms on a wide variety of displays, including high-dynamic-range (HDR) and wide color gamut (WCG) displays.

**Webcasts and Virtual Classroom Courses**

SMPTE offers Monthly Technology Webcasts to its members free of charge, as a member benefit as well as Standards Webcasts that are free and open to all. Information about upcoming webcasts will be available at the show.

SMPTE also recently announced a new series exclusively for its Executive Members. The Executive Webcast series will provide the latest insights, tools, and strategies to assist executives in confronting pressing issues such as examining corporate culture and core values, managing change, managing performance, and developing technology transition strategies.

This series will be conducted by experts from Eagle Hill Consulting, including CEO and co-founder Melissa Jezior, co-founder Jack Kelley, and SMPTE Fellow John McCoskey, who leads the firm's technology, media, and entertainment practice. Each webcast will include a Q&A section and discussion opportunities for attendees. Members wishing to upgrade to an Executive Membership, or join SMPTE as an Executive Member, may do so at [smpte.org/exec](http://www.smpte.org/exec).

More information about SMPTE Webcasts can be found at [smpte.org/webcasts](http://www.smpte.org/webcasts).

SMPTE Virtual Classroom programs include both independent study and live, instructor-led coaching sessions that cover more complex topics and activities. Each program begins and ends on specific dates and includes established learning goals for that period. Successful completion of these courses is determined by course activity completion and graded assessments.

The latest addition to the SMPTE Virtual Classroom is [“Understanding SMPTE ST 2110: Live Production of Professional Media Over Managed IP Networks,”](https://www.smpte.org/education/courses/st2110) an educational program focused on SMPTE ST 2110. Led by SMPTE Fellow Thomas Bause Mason, this course provides attendees with the knowledge they need to help their companies make the most of SMPTE ST 2110, a critical enabler of fully internet protocol (IP)-based operations. The ST 2110 course assumes a basic understanding of IP and associated terminology. The SMPTE Virtual Courses [“Introduction to Networks,” “Routing and Switching Essentials,”](https://www.smpte.org/ccna-registration) and the [“Essentials of IP Media Transport for Broadcasters: Moving Real-Time Video and Audio over Packet Networks”](https://www.smpte.org/education/courses/IP) courses enable a deeper understanding of IP, internetworking, and many essential concepts that are referenced in the ST 2110 suite of standards and are recommended prior to enrolling in “Understanding ST 2110.” Further information about these and SMPTE Virtual Classroom courses on UHD and IMF is available at [smpte.org/courses](http://www.smpte.org/courses).

**SMPTE Student Support: Events and Sponsored Memberships**

Students are invited to room N222, in the LVCC North Hall, from 4:30 to 6 p.m. on Tuesday, April 10, for a social mixer with SMPTE Members, including SMPTE Board of Governors Members, directors, Section leadership, and staff, who will discuss their work in the industry.

During the show, students can learn more about the student membership opportunity — their first year of membership free. They also can find out how to submit a paper for the SMPTE Student Paper Award and how to apply for the Louis F. Wolf Jr. Memorial Scholarship. More information on SMPTE’s student services is online at [smpte.org/students](http://www.smpte.org/students).

**Photo Link:** [www.wallstcom.com/SMPTE/SMPTE\_2017-NAB-Show-Student-Event.JPG](http://www.wallstcom.com/SMPTE/SMPTE_2017-NAB-Show-Student-Event.JPG)

**Photo Caption: SMPTE 2017 NAB Show Student Event**

**Photo Link:** [www.wallstcom.com/SMPTE/SMPTE\_BarbaraLange\_Ujwal-Nirgudkar\_SMPTE-India-Section.JPG](http://www.wallstcom.com/SMPTE/SMPTE_BarbaraLange_Ujwal-Nirgudkar_SMPTE-India-Section.JPG)

**Photo Caption:** Barbara Lange and Ujwal Nirgudkar from the SMPTE India Section

**A Look Ahead at SMPTE 2018 Events**

**Bits by the Bay 2018: Change Is in the Air**  
The SMPTE Washington, D.C., Section will hold its annual technology conference May 22-24 in Chesapeake Beach, Maryland. The event, which historically sells out, will focus this year on how to create media facilities that can adapt to the industry’s rapid changes and provide the flexibility necessary to meet unanticipated future challenges. Attendees may register at [smpte.org/bbtb2018](https://www.smpte.org/bbtb2018).

**ET@2018: Where Technology Drives Storytelling**

The theme of this SMPTE San Francisco Section conference is to examine and understand the impact of technology on the art of storytelling, with the web as a key focus. The expansion of connectivity, bandwidth, and service options are redefining entertainment distribution to the living room, mobile device, and beyond. Broadband, Wi-Fi, and mobile networks are beginning to leapfrog traditional distribution mechanisms because of the rapid pace of innovation and performance improvements, flexibility of consumer options, and the ability to upgrade with a software download. Attendees may register at [smpte.org/et2018](http://www.smpte.org/et2018).

**SMPTE 2018 Annual Technical Conference & Exhibition (SMPTE 2018)**

The SMPTE 2018 Annual Technical Conference & Exhibition (SMPTE 2018) will take place Oct. 22-25 in its new location at the Westin Bonaventure Hotel & Suites in downtown Los Angeles. This annual event is the world’s premier forum for the exploration of media and entertainment technology.

SMPTE is now seeking proposals for technical papers for SMPTE 2018. The proposed papers must be informational and address technical theory, research, innovation, application, or practice specific to any of the evolving technologies associated with the media technology industry. The proposals themselves, comprising a topic heading, paper title, and one-page abstract, must be submitted no later than May 28. More information on possible paper topics and submission guidelines are available at [smpte2018.org](http://www.smpte.org/smpte2017).

**Company Quote:**

“We’ve experienced much progress this past year, and at the 2018 NAB Show, we will showcase the exceptional standards work recently completed by our member volunteers, including ST 2110, as well as the valuable educational programs we’re offering that will increase the knowledge base of industry professionals. The show also provides attendees with the opportunity to attend our weekend program, Future of Cinema Conference, to purchase our new ‘Magic & Miracles’ and ‘Honor Roll’ books, as well as to engage with many of the impressive executives and media professionals who make up the Society.”

— **Barbara H. Lange, SMPTE Executive Director**