

ENGINEERING, SCIENCE & TECHNOLOGY

EMMYS[®]

Television
Academy

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ENGINEERING, SCIENCE & TECHNOLOGY

EMMYS[®]

HOSTED BY ADAM SAVAGE

MESSAGE FROM THE CHAIR



THANK YOU FOR JOINING US AT THE 75TH ENGINEERING, SCIENCE & TECHNOLOGY EMMY® AWARDS!

Television is a unique melding of art and science, and both are essential to its existence. It's therefore fitting that, just as there are Emmy Awards honoring artistic achievements in television, we also give Emmys that recognize the science and technology that take our medium to extraordinary places.

We're here tonight to do just that, with awards for visionary individuals and companies whose work has expanded the boundaries of the possible in television as we know it today — and as it is on a path to become in the future.

They include Birney Dayton, recipient of the Charles F. Jenkins Lifetime Achievement Award. A pioneering force in broadcast technology for more than four decades, he has been at the vanguard of fiber optics, high-definition audio and video, the development of digital standards and numerous other game-

changing breakthroughs.

We are also delighted to present the Philo T. Farnsworth Corporate Achievement Award to the National Association of Broadcasters, the leading trade association in the broadcast industry. The NAB, which is celebrating its 100th anniversary this year, serves an array of stakeholders with a focus on advocacy, innovation and education — in government, business, public affairs, community outreach and much more.

Tonight's event is the culmination of hard work by many people, beginning with the Engineering, Science & Technology Awards Committee, led by co-chairs Wendy Aylsworth and Barry Zegel. For their dedication in identifying tonight's honorees, we extend sincere thanks and gratitude. We also thank the Television Academy staff and, of course, the entire sci-tech community for continuing to amaze us with your accomplishments.

FRANK SCHERMA

Chair

Television Academy

MESSAGE FROM THE PRESIDENT & CEO



WELCOME TO THE ENGINEERING, SCIENCE & TECHNOLOGY EMMYS!

By bringing well-deserved attention to the finest in state-of-the-art audio and video technology, this annual event recognizes one of the pillars of the Television Academy: the sciences, which do not just complement the arts — although they do that brilliantly — but make their delivery via a mass medium possible.

Call it symbiosis, call it interdependence, but both art and science are necessary to make television, well, *television*.

And both are creative. For an example, look no further than Philo T. Farnsworth, the inventor of television for whom one of tonight's awards is named.

It's not surprising, given his precocity, to learn that Farnsworth, despite being born in a log cabin and growing up in a community without power lines, showed an interest in electronics at an early age. But his inspiration for the invention that changed the world came when, while working on an Idaho farm as a teenager, he

noticed the straight rows created by the horses as he plowed the potato fields and was struck by a thought: a series of parallel lines could transmit light as electrons so rapidly that the eye would perceive the output as a solid image.

Bringing Farnsworth's idea to life took years of work in a lab, but achieving what he described as "capturing light in a bottle" would not have been possible without the spark of creativity that set it in motion.

That spark still glows inside the brilliant minds who continue to conceive — and, yes, create — the technological advances that make television so exciting.

For that, we offer thanks and sincere congratulations to all of tonight's honorees. You amaze us, and you make us proud.

MAURY McINTYRE

President & CEO
Television Academy



2023 ENGINEERING, SCIENCE & TECHNOLOGY EMMY AWARDS COMMITTEE

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Barry Zegel, Co-Chair

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TONIGHT'S HOST ADAM SAVAGE



ADAM SAVAGE IS A MAKER.

He is also a *New York Times* bestselling author, multiple Emmy-nominated producer-host, highly decorated YouTube creator, internationally acclaimed science communicator and cosplayer.

In 2002, after more than a decade working in special effects for Industrial Light & Magic/Lucasfilm, the *Matrix* films and most of the major movie studios, Savage began hosting Discovery Channel's flagship show *MythBusters*, producing nearly three hundred episodes over thirteen years, which were distributed in more than one hundred countries. In 2009, he started *Adam Savage's Tested* on YouTube and since then has amassed nearly 7 million subscribers for his videos on making, film, technology, science and creativity in general.

Also a veteran stage performer, Savage has toured three continents with stage shows he produced about the magic of science and engineering. In addition, he is in frequent demand as a speaker. His TED talks have garnered over 10 million views, and he has delivered keynotes for dozens of Fortune 500 companies and commencement addresses at many universities.

Savage has a seat on the boards of the Smithsonian National Air and Space Museum and the Center for Policing Equity, and he is an advisor to the California Academy of Sciences. He has written extensively for national publications such as *Wired*, *Popular Mechanics* and *Make* magazine, and in 2019 he released his book *Every Tool's a Hammer — Life Is What You Make It*, which debuted on the *New York Times* bestseller list.

Savage has also been a paperboy, a projectionist, juggler, unicycle rider, sculptor, graphic designer, scenic painter, robot builder, welder, carpenter, machinist, prop maker, model maker, toy designer, actor, writer, executive producer and director.

75TH ENGINEERING, SCIENCE & TECHNOLOGY EMMY® AWARDS

Emmys are presented to an individual, company or organization for developments in engineering, science and technology that are either so extensive an improvement on existing methods or so innovative in nature that they materially affect the production, recording, transmission or reception of television, and thereby have elevated the storytelling process.

This year's recipients are:



Chris Deighton, Richard Mead, Adrian Jeakins and Evangelos Apostolopoulos
Brompton Technology Tessera SX40 LED Video Processor

Brompton Technology's Tessera SX40 LED (light emitting diode) video processor has been a key enabler of the revolution in using LED screens for virtual production. To make LED screen-based virtual production even possible requires high-quality, artifact-free processing. The SX40 has become a key part of a winning recipe that has been utilized in virtual production studios worldwide. Software upgrades have further improved performance and optimized virtual production workflows, ensuring the greatest possible flexibility for the creative team while delivering the gold standard for color accuracy and on-camera visual performance.

For more information, please visit: bromptontech.com



Steve Rosenbluth, Thomas E. Burgess, Konstantin Smola and Glen Winchester
Concept Overdrive Motion System

Concept Overdrive is a valuable tool for virtual production and augmented reality and has become a professional standard for the control of machines and animatronics in television production worldwide. With an acclaimed user interface, the system implements a streaming motion network, real time constraints and maximally digital motion control — which makes it ideal for interfacing with the real world in modern production environments.

For more information, please visit: conceptoverdrive.com



International Telecommunications Union–Radiocommunications–Study Group 6 Standardization of High Dynamic Range Television (HDR-TV)

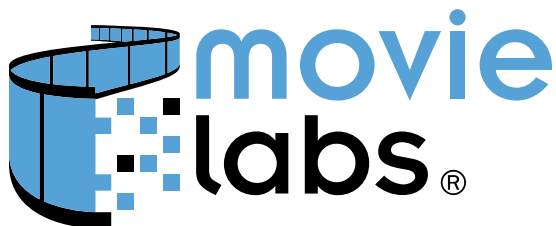
Since its first publication in July 2016, Recommendation ITU-R BT.2100: “Image parameter values for high-dynamic range television for use in production and international program exchange” — more simply known as HDR-TV — has impacted the entire television industry, from cameras and postproduction (especially in color processing) to delivery through traditional broadcasting OTT (over-the-top) streaming services and both professional and consumer display/television products. BT.2100 provided the critically important international specifications that have enabled HDR-TV to become widely adopted and enjoyed by consumers.

ITU is the United Nations specialized agency for information and communication technologies — ICTs, founded in 1865 to facilitate international connectivity in communications networks. As part of this mandate, ITU allocates global radio spectrum and satellite orbits, develops technical standards to ensure seamless interconnection and strives to improve access to digital technologies worldwide.

ITU-R Recommendations constitute a set of international technical standards developed by radiocommunication experts drawn from ITU Member States, ITU-R Sector Members and Associates from the private sector and academia. Their implementation is not mandatory; however, they enjoy a high reputation and are implemented worldwide.

ITU-R Study Group 6 (broadcasting service) has previously received Emmy Awards for audio loudness metering (Rec. ITU-R BS.1770) and digital television studio standards (Rec. ITU-R BT.601).

For more information, please visit: itu.int



Raymond Drewry and Jim Helman Entertainment Identifier Registry (EIDR)

Created by the technical staff at MovieLabs, the Entertainment Identifier Registry (EIDR) unifies the commercial film and television industry around one standardized content ID, one infrastructure for creating and sharing the ID and one nested data model for describing the relationships between abstract titles, specific edits of each title and packaging of those for distribution. EIDR has provided mission-critical infrastructure to help enable the explosion in digital distribution of film and television content to an increasing set of consumer devices over the last ten years.

For more information, please visit: movielabs.com or eidr.org

75TH ENGINEERING, SCIENCE & TECHNOLOGY EMMY® AWARDS



David Eubank
pCAM Pro

pCAM Pro is a mobile software application developed for Apple's iOS devices that offers a comprehensive suite of twenty-six cinematography tools designed for television and motion picture professionals. These tools include calculations to guide decisions on designing camera shots, set design and construction; selecting lenses and camera sensor formats; achieving proper exposure and color balance; creating flicker-free lighting and lighting designs and functional eye-light and lighting effects, among others. Most notably, it allows for accurate pre-visualization of specific lens and camera pairings, making it an invaluable tool for set crews.

For more information, please visit: pcam.app



Thomas Riedel, Jake Dodson, Wolfgang Fritz and Jiou-Pahn Lee
Riedel BOLERO Wireless Intercom

Riedel Bolero's ADR (Advanced DECT Receiver) wireless intercom solution, with multi-diversity and anti-reflection technology, delivers greater RF (radio frequency) robustness than ever before seen in the industry. In addition, it offers Touch 'n' Go NFC (Near Field Communication) belt-pack registration and versatile operation as a wireless belt pack, a wireless key panel or (an industry first) a walkie talkie. It also features Bluetooth compatibility for phone connections. It successfully provides clear communications in venues that had previously been difficult or impossible to cover due to physical venue design or competing DECT (Digital Enhanced Cordless Telecommunications) systems.

For more information, please visit: riedel.net

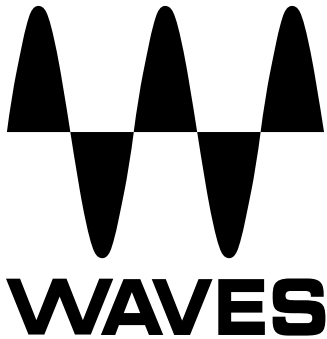


SMALLHD

Jeffrey Fowler Gray, Russell Hocken, Barrett Phillips and Greg Smokler
SmallHD Monitor Platform

SmallHD's rugged and daylight-viewable production monitors have become a staple on sets, from scripted dramas to live broadcasts. SmallHD's hardware platform features an entirely custom electronic architecture that allows for continuous expansion of features and connectivity, as well as enabling the unique industry-leading PageOS 5 monitoring software system. From the compact on-camera Smart 5 and Smart 7 Series to the 4K production monitor line, SmallHD has created a unified and cohesive series of monitors that allows for accurate and consistent viewing and color reproduction across different cameras and applications, ensuring a consistent creative vision from set to final output.

For more information, please visit: smallhd.com



Meir Shashoua, Yaniv Alon and Shai Fishman
Waves Clarity Vx Pro

Clarity Vx Pro is a revolutionary noise reduction plugin that uses the cutting-edge and powerful Neural Networks® engine developed by Waves to separate dialogue from ambience at the highest quality, without artifacts and in real time — which sets a new standard in postproduction. Addressing today's postproduction needs, Clarity Vx Pro allows for real-time processing and vastly speeds up and enhances the workflow of dialogue editing and mixing. Clarity works in most DAWs (Digital Audio Workstations) to create immediate clean results, without having to render, bounce, duplicate or consolidate tracks. It allows editors and mixers to listen to the dialogue processing as part of the whole mix, in context.

For more information, please visit: waves.com/plugins/clarity-vx-pro

75TH ENGINEERING, SCIENCE & TECHNOLOGY EMMY[®] AWARDS

The Philo T. Farnsworth Corporate Achievement Award honors an agency, company or institution whose contributions over time have significantly impacted television technology and engineering.



National Association of Broadcasters (NAB)

Recipient of the Philo T. Farnsworth Corporate Achievement Award

The National Association of Broadcasters is the voice for the nation's radio and television broadcasters. As the premier trade association for broadcasters, NAB advances the interests of its members in federal government, industry and public affairs; improves the quality and profitability of broadcasting; encourages content and technology innovation; and spotlights the important and unique ways stations serve their communities.

For more information, please visit: nab.org



The Charles F. Jenkins Lifetime Achievement Award honors a living individual whose ongoing contributions have significantly affected the state of television technology and engineering.

Birney Dayton

Recipient of the Charles F. Jenkins Lifetime Achievement Award



Television technology pioneer Birney Dayton was one of the founders, as well as CEO and CTO, of NVISION, which he ran for twenty years. With the goal of building products to support and drive the development of high-definition television, NVISION has been lauded for its innovative products in digital audio, HDTV routing and other broadcast-facility products. Prior to NVISION, Dayton was vice president, Engineering, for Grass Valley Group, where he led the development of digital products that streamlined the routing of digital signals through production and operations centers. A leader in bringing fiber-optics to the world of television, he built the first fiber-optic transmission system for over-the-air television, which was used for the opening ceremonies of the 1980 Olympics. In the late 1980s, Dayton chaired the systems analysis working party of the ACATS (Advisory Committee on Advanced Television Service), which tested and selected the best-of-breed technologies

to establish the new digital television distribution standard that continues to operate throughout North America. In addition, Dayton has been involved in the development of Society of Motion Picture and Television Engineers (SMPTE) analogue and digital component video standards, was co-chair of the SMPTE High-Definition Electronic Production working group and was awarded the SMPTE Progress Medal for his numerous industry-changing digital audio products and technologies. Dayton has authored numerous industry papers and currently holds fifteen patents.



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