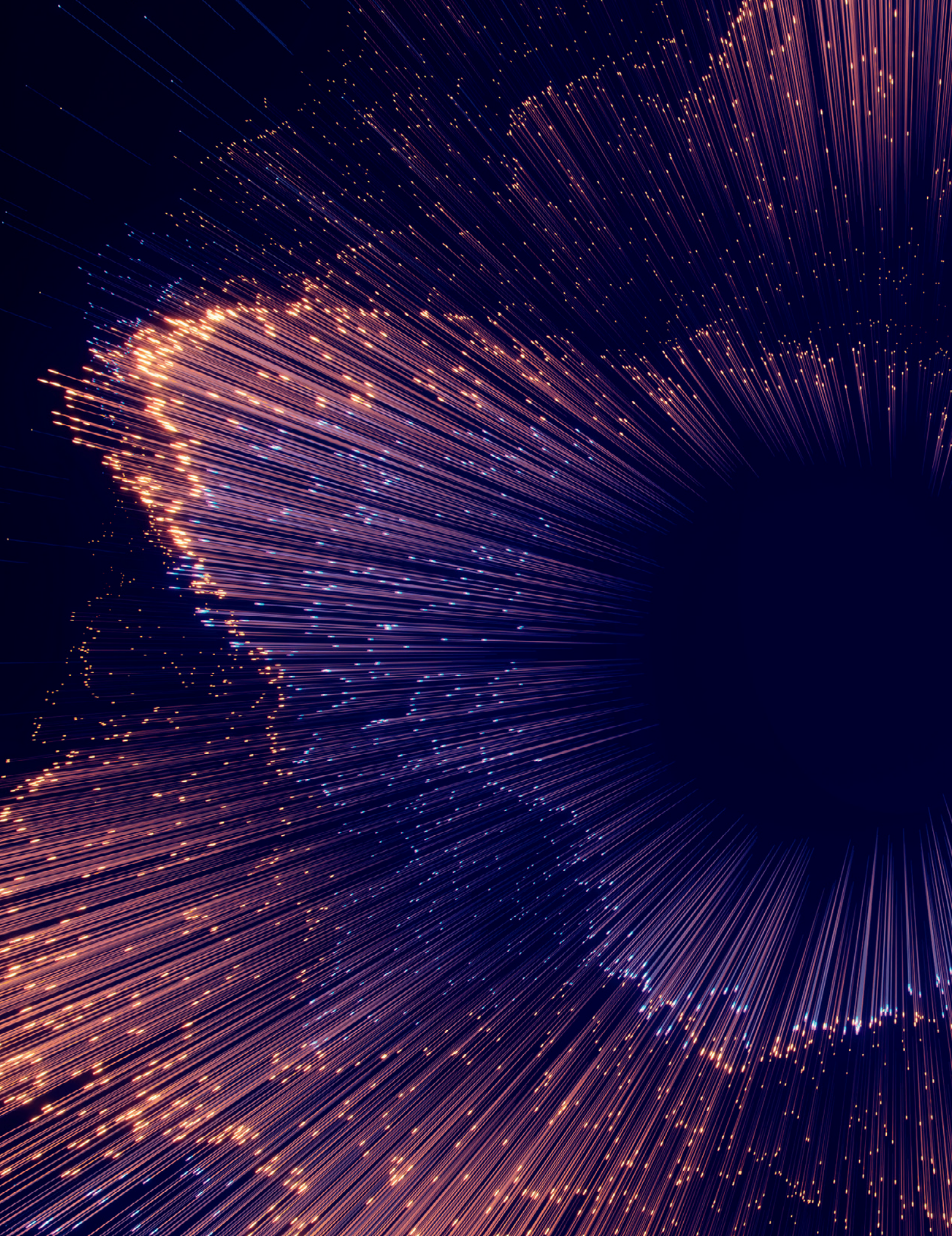




ENGINEERING, SCIENCE & TECHNOLOGY

EMMYS

Television
Academy





ENGINEERING, SCIENCE & TECHNOLOGY

EMMYS[®]

HOSTED BY KIRSTEN VANGSNESS

OCTOBER 14, 2025

SABAN MEDIA CENTER AT THE TELEVISION ACADEMY
NORTH HOLLYWOOD, CALIFORNIA

WELCOME



WELCOME TO THE 2025 ENGINEERING, SCIENCE & TECHNOLOGY EMMY AWARDS!

This event is a reminder that the magic of television is derived not only from creativity and storytelling, but also from the ingenuity of engineers, scientists and technologists who make the impossible possible.

Television has always been a collaborative medium and nowhere is that more evident than in the intersection of artistry and technology. From breathtaking visual effects to the transformative potential of artificial intelligence, the tools at our disposal have expanded the boundaries of what stories can be told — and how we tell them. Yet, even as technology evolves, the spark of human inspiration remains at the heart of every breakthrough.



The creative stewardship of artists and technologists alike propels our industry forward, and the Television Academy is proud to champion this spirit of innovation in all facets of our industry.

A commitment to thought leadership in the tech space led to the formation of an AI Task Force. Now renamed the Innovation Advisory Committee to reflect its broader focus, this group recently prepared a document identifying core principles regarding AI, which will help to direct the Academy's path forward and, we hope, will serve as a model for others to emulate. This evolution reflects our determination to remain at the forefront of emerging technologies and to serve as a guiding voice in a rapidly changing landscape.

The worthy individuals and companies being honored tonight exemplify excellence and vision — from the development of new modalities for data storage and sharing to video compression, camera stabilization, protection against extreme heat and more — and we extend heartfelt congratulations to every one of them.

In addition to those receiving Emmy Awards, tonight's ceremony includes tributes named for pioneers in our field. Mark Schubert, recipient of the Charles F. Jenkins Lifetime Achievement Award, has been a beacon of both the classical and the groundbreaking technologies of television for nearly 60 years. We also celebrate BBC Research & Development, recipient of the Philo T. Farnsworth Corporate Achievement Award, for its decades-long legacy of breakthroughs that have enriched the global television experience.

Finally, we would like to thank the members of the Engineering, Science & Technology Emmy Awards Committee, led by co-chairs Wendy Aylsworth and Barry Zegel, for their dedication and discernment in identifying this year's extraordinary honorees.

Thank you all for being here tonight — and for being part of a community that continues to imagine, invent and inspire.

CRIS ABREGO

Chair

MAURY MCINTYRE

President and CEO
Television Academy

TONIGHT'S HOST

KIRSTEN VANGSNES

LINDSEY BYRNES



BEST KNOWN FOR PLAYING FBI TECH KITTEN PENELOPE GARCIA ON *CRIMINAL MINDS: EVOLUTION*, KIRSTEN VANGSNES IS OVERJOYED TO BE BACK TONIGHT AS YOUR HOST.

Named one of TV's best scene stealers by *Entertainment Weekly*, Vangsness has been on *Criminal Minds: Evolution* since its inception and co-wrote five episodes of the crime drama — which just wrapped its 19th season, now on Paramount+. (The series was originally called *Criminal Minds* for its 2005–2020 run on CBS.) She can also be seen as Bigelow McFiggleshorn on the Disney comedy *Wizards Beyond Waverly Place*. In 2020 Vangsness wrote, directed and starred in the animated short *Curtains*, which can be found on Vimeo for free, no password needed.

She also executive-produced and starred in the film noir spoof *Kill Me, Deadly*, and she is the creator and host of *Bits!*, a monthly art salon in the heart of Hollywood — the next show is October 16th!

A theater kid at heart, Vangsness will travel to New York City at the end of this month to do a week guest-starring in the Off-Broadway hit *Exorcistic: The Rock Musical*. Last month, she was in London, where she performed in a staged reading of Phinneas Kiyomura's *Nimrod*, in which she played the title role. And this past June, at the Los Angeles LGBT Center, she premiered her latest one-person show, *Outdated*,

to sold-out houses and rave reviews. In 2019, she brought two productions as a playwright and performer to the Edinburgh Fringe — her solo play, *Mess*, and her feminist space romp musical, *Cleo Theo & Wu*.

Vangsness has been published in the anthology *Airmail: Taking Women of Letters Around the World* and the *Los Angeles Times Magazine*, and celebrated author Roxane Gay chose her as a "Feminist as F**k" writer for the 2023 Vulture Festival. She is the recipient of the Open Fist Excellence in Arts Award, Los Angeles Drama Critics Circle Natalie Schafer Award and HRC Visibility Award — and a monkey enclosure is named after her at the Wildlife Learning and Conservation Center in Sylmar.

To learn about her goings-on, follow her on Instagram at @kirstenvangsness and @wonderalia.

2025 ENGINEERING, SCIENCE & TECHNOLOGY EMMYS

Engineering, Science & Technology Emmy Awards 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:



OPERATING EUROVISION AND EURORADIO



Society of Motion Picture and Television Engineers (SMPTE), European Broadcasting Union (EBU) and Video Services Forum (VSF) for the development of the SMPTE ST 2110 Suite of Standards

SMPTE ST 2110 is a suite of standards for transmitting uncompressed video, audio and data over digital Internet Protocol (IP) networks in professional media environments. It emerged as a replacement for traditional Serial Digital Interface (SDI) infrastructure, offering greater flexibility and scalability. It is now widely adopted, improving flexibility and scalability over the previous generation of SDI and is foundational to all digital content transmissions.

For more information, please visit SMPTE.org, EBU.ch and VSF.tv.



George Dochev and Peter Thompson for the development of LucidLink

LucidLink is a cloud-native storage collaboration platform that streams data on demand, letting creative teams access and edit the same files instantly from anywhere — without syncing, downloading, VPNs or complex IT. It mounts like a local drive and provides a single source of secure, always-up-to-date files. In media and entertainment, LucidLink powers edit-in-place, VFX, audio and finishing workflows, supporting growing files and enabling distributed teams to work on large media as if it were local. Widely adopted by leading studios, streamers and creative houses, LucidLink has become an essential tool for television projects worldwide.

For more information, please visit LucidLink.com.



Fraunhofer IIS and intoPIX for the development of JPEG XS

JPEG XS is a state-of-the-art image compression format that transmits high-quality images with minimal latency and low-resource consumption, with virtually lossless image quality. JPEG XS is therefore ideal for live, professional video and broadcast applications where bandwidth presents challenges to deliver the highest quality. JPEG XS enables the transmission of high-resolution video streams over standard Ethernet infrastructure. This makes JPEG XS a fundamental game changer for real-time transmission of video for a wide variety of applications in media and studio technology as well as making real-time video processing in data centers practical.

For more information, please visit FraunhoferIIS.com and intoPIX.com.



MOTION IMPOSSIBLE

Rob Drewett and Andy Nancollis for the development of the AGITO Dolly System

AGITO is a versatile, compact modular robotic dolly system designed to keep cameras steady and in motion for film and television production. Often likened to a "Swiss Army Knife" for camera movement, it folds the work of multiple traditional rigs into a single, reconfigurable platform. With quick-switch modes including free-roaming, track-based, overhead and MagTrax — the latter using a simple strip of magnetic tape to guide the camera with precision, allowing crews to reset quickly and save valuable time on set — AGITO delivers everything from classic tracking shots to complex, repeatable moves all from one adaptable system. This groundbreaking approach represents a leap forward in the art and engineering of camera movement — opening fresh creative possibilities for both camera operators and cinematographers.

For more information, please visit MotionImpossible.com.

2025 ENGINEERING, SCIENCE & TECHNOLOGY EMMYS



Boris Yamnitsky, Jason Clement, Mike Escola and Peter McAuley for the development of Boris FX Continuum

Boris FX Continuum stands as one of the most enduring plugin collections in post-production history, relied upon for decades by editors, motion graphics designers and VFX artists. Its tools have shaped the look of broadcast television, becoming a defining standard for effects, transitions and image restoration. With a legacy defined by reliability and innovation, Continuum continues to evolve through graphics processing unit (GPU) acceleration, machine learning-driven effects and a deep library of presets, ensuring its ongoing role as a cornerstone of modern post-production.

For more information, please visit borisfx.com.



Ian Sampson for the development of Hush Pro

Hush Pro is a machine learning-powered audio plugin that isolates dialogue from room reflections, transient sounds and ambient noise. It is the first software of its kind to leverage the Apple Neural Engine and GPU, deploying a substantially more complex machine learning model than CPU-based noise reduction tools. The plugin allows dialogue editors and re-recording mixers to clean up production audio with minimal artifacts and exceptional clarity, preserving all the nuance of on-set performances. Since its debut in 2023, Hush Pro has significantly reduced the need for ADR and elevated the sound of countless television shows, including many of this year's Emmy winners and nominees.

For more information, please visit HushAudioApp.com.



Andy Carluccio, Jonathan Kokotajlo, Eyal Hadida and Brendan Ittelson for the development of Zoom for Broadcast

Zoom for Broadcast is a media integration platform that turns Zoom Meetings into broadcast-ready feeds, extracting individual high-quality video and audio from remote participants and routing them into professional live productions as though they were in-studio. It gives producers deep control over each guest's AV settings, uses Zoom's global cloud infrastructure to deliver low-latency, reliable streams without costly equipment or complex setups and elegantly scales from one guest to hundreds in a familiar meeting experience. With robust application programming interface (API) and software development kit (SDK) support, it plugs into existing production tools, making high-quality remote contributions both accessible and affordable — and eliminating the traditional barriers of expense and technical complexity in live broadcasting.

For more information, please visit Zoom.com.



Mark T. Noel, Jesse Noel, Casey D. Noel and J.D. Schwalm for the development of the NACMO series of motion bases

The NACMO series of motion bases are the first of their kind, developed as a mobile motion base built specifically for television and cinema production. These machines provide a safe and streamlined approach to giving six axes of motion (seven with the optional rotator) to any otherwise static prop or set piece, be it a boat, helicopter or car. The largest motion base — “Mo” — has a 75,000-pound capacity and can give all levels of motion to provide a real experience that translates on the screen for the environment and the actors involved. NACMO motion bases can be set up on location or on a sound stage. They are often used in conjunction with LED volume stages.

For more information, please visit NACEffects.com.

2025 ENGINEERING, SCIENCE & TECHNOLOGY EMMYS



Jayson Dumenigo for the development of Action Factory's Play'n with Fire Hydrogels

Action Factory's Play'n with Fire Hydrogels are innovative, high-performance polymers engineered to provide unmatched protection against extreme heat during the performance of fire stunts. Designed for durability and application at 74°-76° F and not iced, these gels maintain exceptional stability and require minimal reapplication even under the most intense conditions, significantly cutting down on the time it takes to accomplish a fire stunt on set. In a record-breaking stunt, a gel withstood direct flame exposure for five minutes and 25 seconds and temperatures upward of 2000° Fahrenheit. Their reliability, ease of use and groundbreaking heat-protective technology make Play'n with Fire gels a game-changer for television and stunt professionals, setting a new standard in safety and performance.

For more information, please visit AFstunts.com.

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

Recipient: Mark Schubin



Mark Schubin is the “Program Maestro” of the Hollywood Professional Association’s annual Tech Retreat and engineer-in-charge (EIC) of *The Metropolitan Opera: Live in HD*, where he has been working for 52 years. He began working professionally in television engineering in 1967 with a multi-site scientific colloquium, pioneered in-room movies in hotels, received one of the earliest patents on stereo sound for television (and established the first nationwide live stereo network), curated an exhibit of advanced television technology for the New York Public Library (part of which involved getting NASA to reposition a satellite), curated another exhibit on advanced cinema technology (including glasses-free 3D), pioneered live subtitles and multilingual live subtitles and created what was probably the earliest high-

dynamic-range to standard video downconverter, among other developments. As EIC of such shows as *American Playhouse*, *Dance in America*, *Great Performances*, *Live from Lincoln Center*, *The News Hour* and *Sesame Street*, Schubin was responsible for a substantial portion of the programming on PBS; he was also involved in such first-of-their-kind shows as Live Aid and the all-networks millennium New Year’s Eve. He has provided training for NBC and PBS, among others, and has been an adjunct professor at Columbia University. His hundreds of articles have often been cited (including by the FCC) and his historical papers have been published in the *Proceedings of the IEEE* and SMPTE’s journal. He was instrumental in getting a SMPTE plaque placed at the site of the Washington, D.C. laboratories of Charles F. Jenkins.

For more information, please visit SchubinCafe.com.

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

Recipient: BBC Research & Development



RESEARCH & DEVELOPMENT

decades, team members have been central to important advancements in television, playing a pivotal role in the development and standardization of High-Definition Television (HDTV), Ultra High-Definition Television (UHDTV), Hybrid Log-Gamma (HLG) for the carriage of High Dynamic Range (HDR) information and 5G networks. Looking ahead, the department continues to help define the future of television through research on Augmented Reality (AR) and Virtual Reality (VR). BBC Research & Development also continues to lead and participate in the important industry collaboration on the impact and use of Artificial Intelligence (AI). In addition, as co-founders of the Coalition for Content Provenance and Authenticity, BBC Research & Development is helping to establish standards that will allow media creators to understand better human/AI collaboration and the copyrightability of AI-generated media. Behind the scenes and screens, BBC R&D remains an important industry force that shapes how television can help us connect with stories and each other, today and in the future.

For more information, please visit BBC.co.uk/rd.

BBC Research & Development has had a proud history of shaping how we watch and experience television as it focused on its public mission in support of broadcasting. Since its founding in 1930, the department has led the way in breakthroughs that became everyday essentials – like FM radio, stereo sound and the Radio Data System that sends song titles and traffic updates to car radios. Over the

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