IEEE SA STANDARDS ASSOCIATION

2025

AWARDS CEREMONY

IEEE

Congratulations to the IEEE SA 2025 award recipients for sharing their knowledge and expertise, reaching in with dedication and perseverance to find the best solutions, and always aspiring to raise the world's standards.

IEEE SA MISSION STATEMENT

Provide a high-quality, market-relevant standardization environment, respected worldwide.

2025 IEEE SA Awards Ceremony Program

Welcoming Remarks

Ted Burse, Chair, IEEE Standards Association Awards
& Recognition Committee
Yatin Trivedi, Past Chair IEEE Standards Association Awards
& Recognition Committee

2025 Awards Honorees

IEEE SA STANDARDS MEDALLION

The IEEE SA Standards Medallion is awarded for outstanding achievement in the development and implementation of standards in electrotechnology. Recipients are selected solely on the basis of their accomplishments in standards work. They need not be members of IEEE, and their contributions may be to standards of other national and international standardization bodies, provided such standards are in the field of electrical and electronics engineering and constitute a significant contribution to the profession.

Recognition consists of a certificate as well as an IEEE SA Standards Medallion and engraved brass plate affixed to a marble paperweight.

Past Recipients

2024
Doug Arnold
Stephen Balakirsky
Robert V. Binder
Rodney Cummings
Randall K. Curey
Justin Dobbins
Touradj Ebrahimi
Keith Flowers
Jon Lewis
Dan Mulkey
Manish Patel
Rubén Pérez - Aranda
Adee Ran
Robby Robson
Daniel Sabin
Christopher (Chris) G. Searles
Eugene Song
Jordon Woods
Yi Yang
Jizhong Zhu

2023
Jyotika Athavale
Alla Deronja
Eddie Forouzan
Joel Goergen
Chad Jones
John Jendzurski
Elizabeth Kochuparambil
Rui Li
Douglas M. Logan
John Haiying Lu
Kent Lusted
Sergio Rapuano
Kate A. Remley
Michael Dean Sigmon Sr.
Torbjørn Skauli
Günter Steindl
Karla Trost
Miao Wang

2022
Stephen Antosz
Sara R. Biyabani
Matt Brown
Cheng-Jen (Allen) Chen
Paul T. Congdon
Jeffrey A. Fordham
Ruth Lewis
Adam W Ley
Gary Nicholl
Mark Nowell
Yonghong Tian
Gary Touryan

2021
Bob Aiello
Edward Au
Matthew J. Butcher
Geoffrey Garner
S. Michael Gayle
Marc Holness
Peter Zollman

2020
János Farkas
Wenpeng Luan
Thomas A. Prevost
Peter Reid Wilson

2019
Doug Edwards
Kirsten Matheus
Pratap Mysore
Jeff Rearick
Duane Remein
Craig Schlenoff
James Edward Smith

2018
David Chalupsky
Roy D. Cideciyan
Paul R. Croll
Alan Flatman
Rich Kennedy
Bernard Metzler
Stephen Shull

2017
Mark Adamiak
Alfred Asterjadhi
Jeffrey A. Burnworth
Carlos Cordeiro
Benjamin Cotts
Chengwei Dai
Victor Huang
Charles W. Johnson, Jr.
Glen Kramer
Leonardo Lima
Richard Mellitz
Bertrand Poulin
George Zimmerman

2016
Bruce B. Barrow
Kerry Blinco
Ted A. Burse
Carole C. Carey
Sudhakar E. Cherukupalli
Robert S. Fish
James R. Frysinger
Anthony Ki Cheong Ho
Abhay Karandikar
Brad Lehman
Michael J. Thompson
Mehmet Ulema
Michael W. Wactor
C.T. (Tim) Wall
Jan J. Wittenber

2015
William J. Bergman
Alfred Crouch
Chris DiMinico
Vinko Erceg
Alexander D. Gelman
Stephen Haddock
Apurva N. Mody
Paul S. Schluter

2014
Pete Anslow
Malcolm Clarke
Jean-Philippe Faure
Norman Finn
Lowell Johnson
Jim LeClare
Ken Martin
Brian Reinhold
David Stone
Philip Winston

2013
Hanna Abdallah
Mike Bennett
Kenneth Brown
Christopher Clark
John D'Ambrosia
Wael Diab
Ramsis Girgis
Adam Healey
Oleg Logvinov
Albert Martin
Robin Tasker
James Wilson

2012
Douglas P. Bogia
Michael Champagne
Philip J. Hopkinson
James Liming
Robert S. Nowell
Purva R. Rajkotia
Anne-Marie Sahazizian
Adrian P. Stephens

2011
Tom Alderton
Thomas Basso
Jeffrey G. Gilbert
Connie Komomua
John E. Merando, Jr.
Michael Seavey
Frank Waterer

2010
James D. Allen
Percy E. Pool

2009
John L. (Jack) Cole
Guido Guertler
Michael Johas Teener

2008
Don O. Koval
Elliot Rappaport
Donald A. Voltz

IEEE SA STANDARDS MEDALLION

Sandeep Kumar Agrawal

RECOGNITION

For exceptional leadership and contributions to the development of rural broadband standards and solutions

HIGHLIGHTS

Sandeep Agrawal is actively involved in development of new standards for the proliferation of broadband connectivity in rural areas, promoting the use of IEEE P802.11 standards-based WiFi technology and solutions. He was the vice-chair of the group that developed IEEE 2061™-2024, which standardized an architecture for low-mobility energy-efficient networks for affordable broadband access. He is currently the Chair of the IEEE P2872 Working Group, which is standardizing an architecture for interoperable and secure public WiFi, and the Chair of the IEEE SA Industry Connections program "6G Rural Connectivity & Intelligent Village."

Sandeep has been an active volunteer for the IEEE Connecting the Unconnected Challenge and Summit since 2021. He is also actively engaged with the IEEE SA Dignity, Inclusion, Identity, Trust and Agency Industry Connections program; the IEEE Government Engagement Program on Standards; and was a member of the IEEE SA Industry Connections Committee. Apart from IEEE, Sandeep has actively contributed to rural broadband standardization at various global standards development organizations: the International Telecommunication Union Telecommunication Standardization Sector, the Telecommunication Standards Development Society of India, and the Wireless Broadband Alliance.

He successfully led a project of national importance in India called the Prime Minister's WiFi Access Network Interface, which is one of the largest disaggregated and federated public WiFi programs globally. Sandeep also actively contributes to information and communication technology policy matters and rural broadband advocacy. He is a senior member of IEEE and has been employed with the Centre for Development of Telematics as a Scientist since 2008.

IEEE SA STANDARDS MEDALLION

Piers Dawe

RECOGNITION

For contributions across multiple generations of high-speed interfaces defined in IEEE 802.3 Ethernet standards

HIGHLIGHTS

Piers Dawe read natural sciences at Christ's College in Cambridge, then started working in fiber optics at Standard Telecommunication Laboratories (STL) researching indium phosphide-based fabrication, devices, and optoelectronic integrated circuits (ICs). He learned IC design in gallium arsenide and led the team that created the first working set of small-scale 10 Gb/s (10G) silicon ICs.

At Hewlett-Packard in Ipswich, England, Piers was introduced to IEEE P802.3, the 10G Ethernet project. He continued to participate in IEEE P802.3 when he moved to IPtronics, including its multimode fiber, single-mode fiber, and electrical specifications from 0.1-200 Gb/s/lane.

Piers co-developed the 10G Ethernet link model. He introduced transmitter and dispersion penalty (TDP), a measure of performance in the round, and the hit-ratio method of assessing a signal's eye. When an oscilloscope-based method replaced TDP, Piers introduced the noise-filling algorithm of transmitter and dispersion eye closure (TDEC), which was later extended to form transmitter and dispersion eye closure for pulse amplitude modulation 4 (TDECQ).

He has made many contributions in other standards bodies such as the Storage Network Industry Foundation, the Optical Industry Forum, InfiniBand, and the Linear Pluggable Optics Multi-Source Agreement. Piers has served as clause editor for IEEE P802.3ba™ and has diligently reviewed many IEEE 802.3 projects for detail, consistency, and usability.

IEEE SA STANDARDS MEDALLION

Tony Xiao Han

RECOGNITION

For contributions to WLAN sensing standardization and technological innovation

HIGHLIGHTS

Tony Xiao Han is currently a Research Expert and Project Leader with Huawei Technologies Co., Ltd. He received his bachelor's degree in electrical engineering from Sichuan University, and his PhD in communications engineering from Zhejiang University in Hangzhou, China. He was a Post-Doctoral Research Fellow with the National University of Singapore, Singapore. His research interests include wireless communications, integrated sensing and communication (ISAC), wireless local area network (WLAN) sensing, and the standardization of wireless communication technologies.

Tony has held several key leadership roles in international standardization bodies and academic communities. He previously served as chair of the IEEE 802.11 WLAN Sensing Topic Interest Group and chair of the IEEE 802.11 WLAN Sensing Study Group. He currently serves as Chair of the IEEE 802.11bf WLAN Sensing Task Group (TG) and Chair of the Wi-Fi Alliance Sensing TG. In addition, he is the founding Industry Chair of the IEEE ComSoc ISAC Emerging Technology Initiative, the Vice-Chair of the IEEE Wireless Technical Committee Special Interest Group on ISAC, and a Guest Editor of the *IEEE Journal on Selected Areas in Communication*s Special Issue on "Integrated Sensing and Communications (ISAC)." He has also served as the co-chair of multiple international workshops, including the IEEE GLOBECOM 2020 Workshop on ISAC.

IEEE SA STANDARDS MEDALLION

Shan Liu

RECOGNITION

For exceptional leadership and contributions to standardization of visual data compression technologies

HIGHLIGHTS

Shan Liu is an internationally renowned technology leader and a long-time contributor to international standardization. She has authored more than a thousand contributions to various international standards organizations, including standards developed by the International Telecommunications Commission (ITU), the International Organization for Standardization (ISO), the Moving Picture Expert Group (MPEG), the Joint Photographic Experts Group, the Alliance for Open Media (AOMedia), and IEEE. She has chaired or co-chaired many working groups and ad-hoc groups as well as served on committees and boards under IEEE, AOMedia, and ISO/IEC. She also served as the editor for the ISO/IEC 23090-3 (H.266) versatile video coding standard, as well for ISO/IEC 23888 MPEG-AI Part 2 and Part 3. Since 2019, she has served as Vice-Chair of the IEEE Data Compression Standards Committee where she initiated the IEEE 3366 Working Group, which led to the establishment of IEEE Std 3366.1™-2025.

Shan has received many awards and recognitions, including the ISO/IEC Excellence Award, the Technology Lumiere Award, and the Outstanding Alumni Award from the University of Southern California Signal and Image Processing Institute. She was twice given the Best Associate Editor Award from *IEEE Transactions on Circuits and Systems for Video Technology* (IEEE TCSVT) and was selected as one of the "Top 50 Women in Tech" by Forbes China. She is a Fellow of IEEE and the Institution of Engineering and Technology, as well as a Distinguished Industry Leader of the Asia Pacific Signal and Information Processing Association. She currently serves as Editor-in-Chief of IEEE TCSVT.

IEEE SA STANDARDS MEDALLION

Sal Martino

RECOGNITION

For exceptional leadership and contributions to the development of IEEE Std 1782-2022™, IEEE Guide for Collecting, Categorizing, and Utilizing Information Related to Electric Power Distribution Interruption Events

HIGHLIGHTS

Sal Martino is a Senior Engineer at Duke Energy in the Asset Program Development and Governance organization, providing leadership through the governance of assets throughout Duke Energy's service territories. He focuses on asset integrity to improve performance and reliability. His areas of focus are protection devices, automated distribution devices, and sensors.

Sal's career has spanned more than twenty years with varied experience in the electric utility industry. His work experience is vast within the medium-voltage electrical distribution system, including research, planning, project management, field operations, system reliability analysis, electrical design, load analysis, and systems integration.

Sal received a BS degree with honors in electrical engineering technology from the Rochester Institute of Technology. He also completed his MS degree in engineering management at the University of North Carolina at Charlotte. He is a member of the honor society Phi Kappa Phi.

He is an active member of the IEEE Power and Energy Society Distribution Subcommittee and currently serves different office roles within the subcommittee. His current officer roles include serving as Vice-Chair for the IEEE 1695 and IEEE 3476.5 Working Groups and as Chair for the IEEE 1782 Task Force.

IEEE SA STANDARDS MEDALLION

Michael J. Meisinger, Sr.

RECOGNITION

For significant contributions to standards development for power system protection and control

HIGHLIGHTS

Michael J. Meisinger, Sr. has dedicated his entire professional career exclusively to the discipline of power system protection, beginning in 1973 with Florida Power & Light Co. His career includes roles with a consulting firm specializing in 500 kV transmission protection and two international protective relay manufacturers. In 1990, he founded a sales and consulting firm focused on protection system applications and strategy. He joined S&C Electric Company in 1996.

At S&C, Mike transitioned from focusing on nuclear and fossil generation and high-voltage/extra-high-voltage transmission protection challenges to improving medium-voltage distribution network protection practices. Following several years abroad supporting S&C's operations across Europe, the Middle East, and Africa, he returned to Chicago in 2015 to serve as a system protection architecture director. He is currently a Senior Principal Engineer in S&C's research and development group, contributing to innovative product development efforts that revolutionize medium-voltage distribution network performance and practices.

As industry stakeholders increasingly prioritize medium-voltage distribution network reliability, Mike leverages his extensive knowledge of transmission system protection principles to develop creative, performance-driven solutions. His pioneering work includes architecting North America's first medium-voltage, underground, no-outage installation on International Drive in Orlando, FL in 1999.

Mike is an IEEE life senior member and a longstanding member of the IEEE Power System Relaying Committee's Main Committee, actively contributing since 1982. He holds multiple patents, has authored numerous technical papers, and serves as a guest lecturer at two UK universities.

IEEE SA STANDARDS MEDALLION

Kevin L. Peterson

RECOGNITION

For contributions to the creation and international adoption of shore to ship standards

HIGHLIGHTS

Kevin L. Peterson has dedicated his career to advancing electrical engineering through leadership, innovation, and service to IEEE. He began his IEEE journey in 1990 with the Los Angeles Chapter of the IEEE Industry Applications Society (IAS), where his leadership as chapter chair earned him the IAS Large Chapter Award.

As chair of the IAS Chapters & Membership Department, Kevin drove a 30% growth in chapters over three years. Elected IAS President in 2004, he championed the society's mission across eight regions, strengthening global engagement at major conferences. From 2008 to 2011, he guided the IAS Publications Department, overseeing the adoption of Manuscript Central and enhancing the society's publishing capabilities.

Since 2004, Kevin has also been an influential leader within the IEEE IAS Petroleum & Chemical Industry Committee. He has chaired the IEEE 80005 Shore Power Connection Working Group for nearly two decades, leading international collaboration with the International Electrotechnical Commission and the International Organization for Standardization to establish joint shore to ship power connections. His work has shaped the global adoption of shore power technology, advancing safety, sustainability, and industry efficiency.

Throughout his career, Kevin has demonstrated an unwavering commitment to innovation, technical excellence, and global collaboration. His leadership has strengthened IEEE and left a lasting impact on the worldwide electrical and electronic engineering communities.

IEEE SA STANDARDS MEDALLION

Jeff Ravencraft

RECOGNITION

For establishing a standard European mobile device charger interface, thereby minimizing one component of electronic waste and unbundling sales of devices and chargers

HIGHLIGHTS

Jeff Ravencraft is the President and Chief Operating Officer of the USB Implementers Forum (USB-IF), an industry trade association formed to provide a support organization and forum for the advancement and adoption of universal serial bus (USB) technology, facilitating the development of high-quality compatible USB devices through a logo and compliance program, and promoting the benefits of USB and the quality of products that have passed compliance testing.

Jeff retired from Intel Corporation after 23 years in 2011, where he last served as a senior technology strategist. He led Intel's efforts in serial advanced technology attachment, USB 2.0, Wireless USB, and USB 3.0. Jeff has been actively involved in wired and wireless technology and standards for many years.

IEEE SA STANDARDS MEDALLION

Vince Rodriguez

RECOGNITION

For contributions to the revision of several standards related to antennas and propagation

HIGHLIGHTS

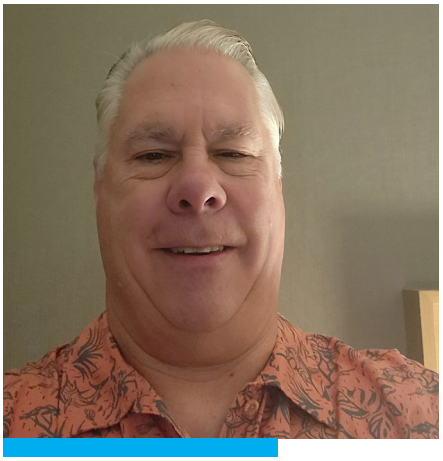
Vince Rodriguez attended The University of Mississippi, where he obtained his BSEE in 1994 and his MS and PhD degrees, both in engineering science with an emphasis in electromagnetics, in 1996 and 1999, respectively.

Vince joined EMC Test Systems (now ETS-Lindgren) as a radio-frequency (RF) and electromagnetics engineer in June 2000. In this position, he was involved in e-field generator design and the RF design of several anechoic chambers, including rectangular and tapered antenna pattern measurement chambers operating from 100 MHz to 40 GHz. In September 2004, Vince was promoted to senior principal antenna design engineer with responsibilities in developing new antennas for different applications and improving on the existing antenna line. During this period, he introduced the concept of the open-boundary quad-ridged horn at the Antenna Measurement Techniques Association (AMTA) meeting in 2005. In November 2024, he joined MI Technologies (now NSI-MI Technologies) as senior applications engineer. He is currently manager of the Electromagnetic Analysis Group.

Vince is the author of more than 30 journal publications and more than 70 conference papers. He wrote a book on anechoic chamber design and has authored chapters in two other books. He is a senior member of IEEE and a member of the IEEE Electromagnetic Compatibility (EMC) Society, where he served as distinguished lecturer from 2013 to 2014 and on the IEEE EMC Board of Directors. Vince also served as secretary of the IEEE Antennas and Propagation Society Standards Committee and as secretary for the IEEE 149 and IEEE 1128 Standards Working Groups and as co-chair for the IEEE 1720 Standards Working Group.

Vince is a Fellow of the Applied Computational Electromagnetic Society (ACES). He is a Fellow of the AMTA and a winner of its distinguished achievement award. He is currently a distinguished speaker for AMTA and was a distinguished lecturer for the IEEE EMC Society.

IEEE SA STANDARDS MEDALLION



Carl Schuetz

RECOGNITION

For outstanding leadership and contributions to the development of IEEE switchgear standards

HIGHLIGHTS

Carl Schuetz attended the Illinois Institute of Technology, where he graduated with a BS in electrical engineering. He also earned a master's certificate in electrical power engineering from Missouri Science & Technology. Carl's past work responsibilities have included equipment specialist positions at Commonwealth Edison and American Transmission Company.

Carl has been an IEEE member since 1993 and a member of the IEEE Power and Energy (PES) Switchgear Committee since 2014. While serving on the IEEE PES Switchgear Committee, Carl participated in 13 IEEE standards working groups and served as chair of the IEEE PES High-Voltage Circuit Breaker Subcommittee from 2022-2024. He also has participated in several working groups within the IEEE PES Surge Protective Devices Committee.

IEEE SA STANDARDS MEDALLION

Leonard Tsai

RECOGNITION

For exemplary leadership and continuing dedication in guiding and supporting standards that advance floating-point arithmetic and machine learning

HIGHLIGHTS

Leonard Tsai joined IEEE in 1988 and is currently a senior member, serving as Vice-Chair for the IEEE Computer Society Microprocessor Standards Committee, Working Group Chair for the IEEE P754 standard for floating-point arithmetics, Vice-Chair for the IEEE P3109 standard for arithmetic formats for machine learning, and Chair of the IEEE Consumer Technology Society Santa Clara Valley Chapter.

Currently, Leonard works at ASML US on scanning electron microscopes to close the gap for subnanometer and computational lithography. Previously, he was the chief technologist at NEC, a system architecture manager at Hewlett Packard Company, and vice-president of innovation at Compal Electronics. Leonard has contributed to many industrial and IEEE standards. He has been granted more than 30 patents and has authored many papers and publications.

IEEE SA STANDARDS MEDALLION

Menzo Wentink

RECOGNITION

For exceptional, sustained contributions to the development of IEEE Std 802.11 and license exempt wireless radio regulatory requirements

HIGHLIGHTS

Menzo Wentink received his MSc degree in electrical engineering from the University of Twente, the Netherlands in 1996. Currently he is a Principal Engineer at Qualcomm. He has been active in IEEE 802.11 Working Group since 2000, as a main contributor to quality-of-service areas and in various task group chair, vice-chair, and editor positions. His research interests are channel access, quality of service, and coexistence. He is currently also active in the European Telecommunications Standards Institute's Broadband Radio Access Networks Committee and the Bluetooth Special Interest Group.

IEEE SA STANDARDS MEDALLION

Bo Xu

RECOGNITION

For exceptional leadership and contributions to the development of IEEE standards in power system intelligent inspection, including IEEE Std 3326™-2025, IEEE Std 3327™-2025, and IEEE Std 3328™-2025

HIGHLIGHTS

Bo Xu is a distinguished leader in IEEE standards development for power system intelligent inspection. He holds key roles including Deputy Secretary General of the IEEE Power and Energy Society (PES) China Satellite Technical Committee-Substations, Secretary General of the IEEE PES Substations Committee/Substation Intelligent Inspection Subcommittee, Chair of the IEEE 3326 and IEEE 3328 Working Groups, and as a member of the IEEE 3327 Working Group.

As a leading coordinator of international technical collaboration, Bo advances IEEE's substation technology agenda, aligning global technical priorities with emerging industry needs in smart inspection systems. His seminal contributions include leading the development of IEEE Std 3326™-2025 and IEEE Std 3328™-2025, which establish critical guidelines for infrared online monitoring and wheeled robot inspection in substations. These standards set benchmarks for precision and efficiency, directly enhancing substation operational practices worldwide.

IEEE SA STANDARDS MEDALLION

Lihai Zhang

RECOGNITION

For leadership and contributions to the development of a modular framework standard for a robotically-assisted surgical system

HIGHLIGHTS

Lihai Zhang is an expert in the integration of medicine and engineering, serving as a professor at Chinese PLA General Hospital, where he has served as Director of the Trauma Orthopedics Department since 2013. Holding a PhD since 2006, he has dedicated more than 20 years to advancing systematic treatments for traumatic fractures and the integration of intelligent surgical robots in clinical applications. Lihai's pioneering research integrates intelligent surgical robots, including fracture reduction robots and intuitive image navigation systems, achieving breakthrough progress in minimally invasive fracture reduction. This has resulted in more than 100 academic papers, patents, and innovative protocols that enhance surgical precision, reduce recovery times, and improve patient outcomes in orthopedic trauma care.

Lihai's work emphasizes the modularization of surgical robots and aligns with international IEEE initiatives. As an active IEEE member, he chairs the IEEE 3177 Working Group on the framework of modularity for robotically-assisted surgical systems, while also leading China's modular standards for medical robotics. His contributions have been instrumental in fostering global collaboration aimed at standardizing ethical and efficient technologies in medical robotics. Lihai has received prestigious honors, including the first prize of the Beijing Science and Creative Founder Award for Innovation.

THE RON WAXMAN DESIGN AUTOMATION STANDARDS COMMITTEE MERITORIOUS SERVICE AWARD

The Design Automation Standards Committee (DASC) is responsible for the standardization of design automation-related standards in the IEEE Standards Association. This award is named for Ron Waxman, a founder of the DASC, in recognition of his many years of leadership and service to IEEE and international standards.

The annual Ron Waxman DASC Meritorious Service Award recognizes commendable accomplishments by DASC members. The DASC Awards Committee calls for nominations and selects the recipient per the DASC Policies and Procedures. The DASC membership confirms the selection.

Recognition consists of an engraved wooden plaque.

Past Recipients

2024
Aparna Dey

2023
Dave Rich

Japan Electronics and Information Technology Industries Association (JEITA), Semiconductor System Solution Technical Committee (SSS-TC)

2022
Tom Fitzpatrick

2021
Riccardo Mariani

2020
John Biggs

2019
Ernst Christen

2018
Karen Bartleson

2017
Karen Pieper

2016
Yatin Trivedi

2015
Erich Marschner

2014
Dennis Brophy

2013
Victor Berman

2012
Stan Krolikoski

2011
Larry Saunders

2010
Hal Carter

2009
Peter Ashenden

2008
John Hines

2007
Gabe Moretti

THE RON WAXMAN DESIGN AUTOMATION STANDARDS COMMITTEE MERITORIOUS SERVICE AWARD

Justin Refice

RECOGNITION

In Recognition of Outstanding Service Exemplifying the Spirit of The DASC

HIGHLIGHTS

Justin Refice is a Distinguished Engineer at NVIDIA, where he leads the Graphics Processing Unit Design Verification Methodology team. His career has centered on advancing verification methodologies for complex hardware systems, with prior engineering roles at Unisys and AMD.

Justin has played a central role in industry standards development. He joined Accellera's Universal Verification Methodology (UVM) Working Group in 2012; was a founding member of the IEEE 1800.2 UVM Working Group; and later chaired both groups, leading the development of the IEEE 1800.2™-2020. He now serves as Vice-Chair of the Accellera UVM Working Group and continues as Chair of IEEE P1800.2, guiding its ongoing evolution.

He is also an active contributor to the IEEE 1800 SystemVerilog Working Group, with input into multiple editions of the standard.

Justin earned his bachelor's degree in computer engineering from Drexel University, where he served as secretary of the student IEEE chapter. His work reflects a blend of technical innovation and leadership in standards, strengthening the tools and frameworks on which verification engineers rely worldwide.

IEEE SA STANDARDS BOARD DISTINGUISHED SERVICE AWARD

This award is presented to current or past members of the IEEE SA Standards Board for meritorious and distinguished service to the IEEE SA Standards Board and its programs.

Recognition consists of an engraved wooden plaque.

Past Recipients

2024
Kevin Lu

2023
Daleep Mohla

2021
Ted A. Burse

2019
John Kulick

2018
Michael Janezic

2016
Richard H. Hulett

2015
Peter Balma

2013
Robert M. Grow
Ted Olsen

2012
Samuel Sciacca

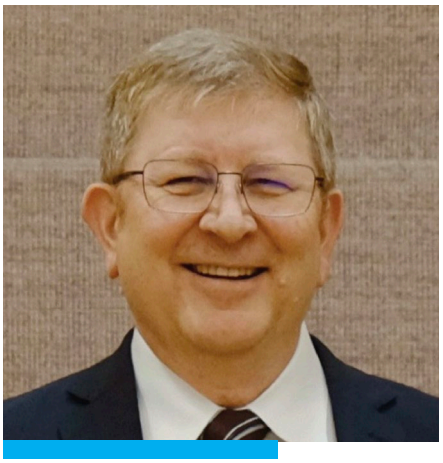
2011
Thomas Prevost

2010
Ronald Petersen

2009
David Law

2008
Steve Mills

IEEE SA STANDARDS BOARD DISTINGUISHED SERVICE AWARD



Jon Walter Rosdahl

RECOGNITION

For 20 years of sustained and outstanding contributions to IEEE SA governance activities, and for exemplary, knowledgeable, and generous service, mentorship, and leadership in IEEE standards development

HIGHLIGHTS

Jon Walter Rosdahl has been at Qualcomm Technologies, Inc. for 11 years, working as a Senior Staff Engineer in the Standards and Industry Organizations division.

Jon is an IEEE senior member and has been an IEEE member for 40 years. He has served on the IEEE SA Standards Board (SASB) or on one of its subcommittees for 20 years. He has served in various SASB leadership roles, including chair of the New Standards Committee (for three years), chair of the Procedures Committee (for two years), and SASB vice-chair (for six years).

Jon was the IEEE Computer Society (CS) vice-president for standards activities from 2017 to 2018 and has served on the IEEE CS Standards Activities Board for the last seven years. He served on the IEEE Communications Society Standards Development Board in 2016.

As an active member of the IEEE 802 Standards community since 1993, he has served as the IEEE 802.11 Vice-Chair for 19 years, the IEEE 802 Executive Secretary for 15 years, as well as other supporting roles.

He has BS and ME degrees in electrical engineering from Utah State University. He started his career working in a mechanical properties laboratory at Morton Thiokol, then developed LAN drivers at Novell, and finally focused on wireless standards while at Micro Linear, Samsung, CSR, and Qualcomm.

IEEE SA INTERNATIONAL AWARD

This award is presented to an IEEE SA individual member who has made extraordinary contributions to the advancement of the international goals of the IEEE SA, and to establishing the IEEE SA as a world-class leader in standardization.

Recognition consists of a globe paperweight and certificate.

Past Recipients

2024
Teruo Onishi

2023
Dennis Brophy

2022
Richard H. Hulett

2021
Jingxuan (Joanne) Hu

2019
Garry Roedler

2018
Leslie T. Falkingham
William Whyte

2017
Giorgi Bit-Babik
Craig A. Colopy

2016
Anne A. Bosma

2015
Bill Long
J. Patrick Reilly

2014
Melvin Reynolds
John White

2013
Andrew Myles

2012
David John Law

2011
Bertram Jon Klauenberg

2010
Robert F. Heile

2009
James R. Michalec
David T. Stone

2008
Hermann Koch

2007
James W. Moore

2006
Ben C. Johnson
Roger B. Marks

2005
Denis L. Dufournet
Carl R. Stevenson

2004
Michael R. Murphy

2003
Ronald C. Petersen

2002
Wallace S. Read

IEEE SA INTERNATIONAL AWARD

Ludwig Winkel

RECOGNITION

For outstanding contributions to the fields of industrial automation and international standardization over an extraordinary career spanning nearly five decades

HIGHLIGHTS

Ludwig Winkel became an independent consultant in 2018 after 41 years working for Siemens AG in the domain of industrial automation and international standardization. At the beginning of his career, he was in a research and development (R&D) group responsible for implementing an IEEE P488-compliant communication interface in measurement devices, and he became a group leader of an R&D division for closed-loop control functions combined with programmable logic controllers (PLCs). Then Ludwig became responsible for multiple projects for controllers used in process-control application domains like power plants, food and beverages, pharmaceutical production, and refineries. Based on this, he was an R&D partner in the development of a PLC-based control system for process automation applications.

Since 1992 Ludwig has been actively involved in standards for automation systems as convenor, chair, editor, or rapporteur of different groups in standardization bodies such as IEEE; International Electrotechnical Commission (IEC); the International Organization for Standardization; the European Telecommunications Standards Institute; the German Commission for Electrotechnical, Electronics, and Information Technologies; the European Committee for Electrotechnical Standardization; and the International Society for Automation. Ludwig was the convenor and chair of the joint project IEC/IEEE 60802 that brought together experts from the internet and telecommunication communities in IEEE 802 and in IEC Technical Committee 65.

He owns a patent and was a co-author of the book *Low-Rate Wireless Personal Area Networks: Enabling Wireless Sensors With IEEE 802.15.4, 3rd Edition*.

IEEE SA CORPORATE AWARD

This award may be presented annually to an IEEE SA member organization for providing outstanding leadership and contributions to the IEEE SA. Consideration shall be given to those nominees who have worked to achieve the IEEE Standards Association vision and mission.

Centre for Development of Telematics (C-DOT)

RECOGNITION

For pioneering contributions in advancing IEEE standards in wireless broadband, rural 5G, and telecom education, and for building globally recognized frameworks for standards-based innovation from India through leadership and advocacy

HIGHLIGHTS

The Centre for Development of Telematics (C-DOT) is the premier telecom research and development (R&D) center of the Department of Telecommunications, Ministry of Communications, Government of India. Established in August 1984, C-DOT has more than four decades of relentless innovation in designing, developing, and deploying indigenous telecom technologies tailored to the Indian landscape. Its contributions have been pivotal in driving the digitization of India's telecom networks.

Over the years, C-DOT has delivered impactful solutions in diverse domains, including 4G and 5G technologies, cybersecurity, quantum communications, disaster management, artificial intelligence, internet of things/machine-to-machine communications, and smart cities. By fostering homegrown innovation, C-DOT has addressed India's strategic and security needs while laying the foundation for future-ready telecom systems.

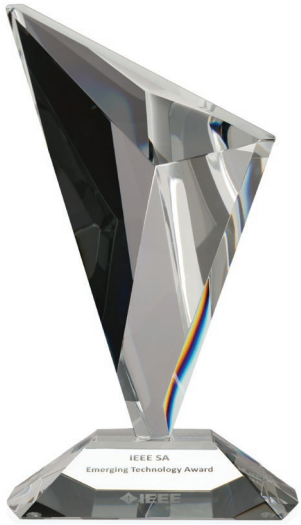
Today, C-DOT is dedicated to elevating India's global standing in advanced telecom technologies. Its initiatives are structured under five specialized Centres of Excellence:

- Mobile Wireless Communications (5G, 6G, and beyond)
- Telecom and Cybersecurity
- Quantum-Secured Communications
- Advanced Artificial Intelligence
- Niche Telecom Applications

C-DOT has also nurtured a strong manufacturing ecosystem by transferring its technologies to Indian manufacturers, enabling large-scale production of high-quality telecom solutions. Its mission continues to focus on high-impact problem-solving, academia-industry collaboration, and positioning India as a global telecom leader.

In the last five years, C-DOT has received several prestigious national and international awards, including the ITU WSIS Award for impactful R&D. It plays a leading role in many global standardization bodies, with its scientists contributing to key committees on wireless broadband, rural 5G, and telecom education.

IEEE SA EMERGING TECHNOLOGY AWARD



This award is presented to an individual, working group, or company that has advanced, initiated, or progressed a new technology within the IEEE SA open consensus process that meets the following criteria: The IEEE SA work product is a balloted standards draft or an approved standard, recommended practice, or guide. It is not necessary for the final document to be approved, but substantial progress beyond the Project Authorization Request (PAR) is necessary.

The IEEE SA work product:

- Is the first or one of few such activities for the technology, industry, or market(s) for which it is targeted
- Is a technology, industry, or market where broad consensus agreements are not yet widely deployed or not yet fully commercialized
- Has positive market relevance
- Puts IEEE in a leadership position
- Extends the IEEE SA standards portfolio

Recognition consists of an engraved sculpture and a certificate.

Past Recipients

2024
James T. Reilly
IEEE 2933 Working Group

2023
IEEE 1547.9 Working Group

2022
IEEE 2800 Working Group
IEEE 2846 Working Group
IEEE 2941 Working Group

2021
IEEE P2675 Working Group
IEEE P7007 Working Group

2020
IEEE 802.1 Working Group

2019
IEEE 1876 Working Group

2018
Lee Coulter
IEEE 802.3 Working Group

2017
Erik Jan Marinissen
IEEE 802.11 Working Group

2016
Giovanni Acampora
Stephen F. Bush

2015
IEEE Robotics and Automation Society Ontologies for Robotics and Automation Working Group

2014
Yuan-Ting Zhang
IEEE P2700 Standard for Sensor Performance Parameter Definitions Working Group

2013
Pierre Martin

2011
IEEE 802.22 Working Group

2010
IEEE 11073 Personal Health Devices Working Group
IEEE Rail Transit Vehicle Interface Standards Committee Working Group #2

IEEE SA EMERGING TECHNOLOGY AWARD

Yu Su

RECOGNITION

For pioneering contributions to 5G cellular-connected unmanned aerial vehicle (UAV) technologies and international standards for UAV communication systems

HIGHLIGHTS

Yu Su is Vice President of China Mobile Chengdu Institute of Research and Development, where he has led pioneering innovations in 5G cellular-connected unmanned aerial vehicle (UAV) technologies and international standardization. He is recognized as the chief designer of China's first 5G-connected drone system, which transformed UAV operations by replacing short-range proprietary links with wide-area 5G cellular networks. His work enabled beyond visual line of sight (BVLOS) drone control, increased communication bandwidth tenfold, reduced latency by 80%, and now accounts for the majority share of China's market.

Yu also led the development of the UAV-based 5G emergency communication system, the first of its kind to be commercially deployed in natural disaster zones. This system has restored connectivity during critical events such as the 2021 Zhengzhou China flood, the 2022 Luding earthquake, and Typhoon Doksuri in 2024, offering critical communication support for rescue teams and the public.

Beyond technical innovation, Yu has been deeply engaged in global standardization. He chairs the working groups that produced IEEE 1937.8™-2024 and IEEE 1937.12™-2025, serves as Secretary of the IEEE Unmanned Aerial Vehicles Applications and Communications Standards Committee, and chairs GSMA's Drone Interest Group, promoting international collaboration. His contributions have shaped widely adopted UAV communication standards and elevated IEEE's leadership in low-altitude digital infrastructure.

IEEE SA EMERGING TECHNOLOGY AWARD

Gisele Waters

RECOGNITION

For contributions to the field of artificial intelligence as the Chair of IEEE Std 3119-2025, IEEE Standard for the Procurement of Artificial Intelligence and Automated Decision Systems

HIGHLIGHTS

Gisele Waters is the Co-Founder of the AI Procurement Lab (AIPL), a non-profit capacity builder. AIPL offers and evaluates artificial intelligence (AI) procurement guidance, tools, and training programs, and it conducts AI procurement policy analysis. For four years, Gisele led the development of IEEE 3119™-2025. IEEE and the AIPL also co-produced a training program, Responsible Procurement of AI, under the IEEE Blended Learning Program.

Gisele is globally recognized as an AI governance and procurement standards builder, human-centered service designer, author, educator, researcher, and program evaluator. She has built multidisciplinary guidance and tools for more than 25 years in education, healthcare, and information technology, all threaded together by her passion for mitigating high risk to vulnerable populations and communities.

Gisele has served as an Adjunct Professor at Nova Southeastern University's Fischler College of Education & School of Criminal Justice since 2004. She earned her PhD in educational psychology with a focus on how individuals learn and develop. She also serves as a Review Editor (Blockchain for Science) on the *Frontiers in Blockchain* Editorial Board, as a Review Editor for *Digital Society: Ethics, Socio-Legal and Governance of Digital Technology* at Springer Nature Technology, and as a Strategic Advisor for Equideum Health. She is a Fellow at ForHumanity, an international non-profit developing AI audit criteria for high-risk AI systems. She was globally honored by Lighthouse3 and the global Women in AI Ethics Initiative as one of "100 Brilliant Women in AI Ethics" in 2019 and 2020.

IEEE SA EMERGING TECHNOLOGY AWARD

Lei Yan

RECOGNITION

For leadership in establishing international standards for low-altitude sensing and hydrogen-powered UAV systems, significantly advancing the field of remote sensing and unmanned aerial applications

HIGHLIGHTS

Lei Yan is a leading authority in the emerging low-altitude economy, a Professor at Peking University, and a Distinguished Senior Professor at University Tunku Abdul Rahman. He has played a pioneering role in building the international framework for low-altitude sensing and energy-enabled unmanned aerial vehicle (UAV) systems. His efforts have accelerated engineering uptake and international collaboration across academia, industry, and public agencies, with growing adoption and deployment in real-world scenarios across Asia and beyond.

Lei founded and now chairs the IEEE Unmanned Aerial Vehicles Applications and Communications Standards Committee's (IEEE AerCom's) Low-Altitude Sensing Subcommittee—the first IEEE technical platform dedicated to high-precision, high-mobility sensing in low-altitude domains—and launched the IEEE 1958 hydrogen energy UAV standards series. The series is now recognized as the fourth major UAV standards pillar alongside the application series (IEEE 1936), the technology series (IEEE 1937), and the communication series (IEEE 1939). Under his coordination, interfaces across IEEE AerCom standards are being aligned with the IEEE 1958 energy series to support long-endurance, safety-aware operations and cross-task interoperability.

IEEE Data Trading System Working Group

RECOGNITION

For the development of IEEE Std 3800-2024, IEEE Standard for a Data-Trading System: Overview, Terminology, and Reference Model

HIGHLIGHTS

The IEEE DTS (Data Trading System) Working Group (WG) was formed in June 2020 based on work begun under the IEEE Industry Connections Data Trading program. It achieved a unique feat by standardizing the architecture of the intermediary function, a critical component for data spaces. This pioneering work by the IEEE DTS WG culminated in the publication of IEEE Std 3800™-2024, IEEE Standard for a Data-Trading System: Overview, Terminology, and Reference Model.

As autonomous, distributed, and cooperative data federations, data spaces are poised for significant industrial development. The data-space concept is critical, as it protects data sovereignty while enabling data-free flow with trust (DFFT). Recognizing this importance, legislative frameworks are now being implemented in Europe and are under consideration in several Asian countries, making the IEEE DTS WG's standardization work timely and influential.

Beyond developing this foundational standard, the IEEE DTS WG spearheaded the establishment of the International Open Forum on Data Society (IOFDS). This forum fosters collaboration among international data space-related organizations and has successfully promoted international cooperation involving major stakeholders. With the International Data Spaces Association, the IEEE DTS WG co-hosts "Data Spaces Week," a semiannual collaborative symposium that has attracted more than 800 participants from 30 organizations across 10 countries. The IEEE DTS WG's leadership in chairing this significant event underscores its central role in the global community.

IEEE 1857.11 Sub-Working Group

RECOGNITION

For the development of IEEE Std 1857.11-2024, IEEE Standard for Neural Network-Based Image Coding

HIGHLIGHTS

The IEEE 1857.11 Sub-Working Group was founded in 2021 under the IEEE 1857 Working Group, which is part of the Data Compression Standards Committee of the IEEE Computer Society. The predecessor of the IEEE 1857.11 Sub-Working Group, known as the Future Video Coding Study Group, was founded in 2015 and actively investigated image and video coding technologies and standards. The IEEE 1857.11 Sub-Working Group is currently chaired by Dong Liu of the University of Scince and Technology of China, and co-chaired by Jiaying Liu of Peking University and Zhan Ma of Nanjing University. The IEEE 1857.11 Sub-Working Group has approximately 50 active members coming from both academia and industry.

The IEEE 1857.11 Sub-Working Group developed IEEE Std 1857.11T™-2024, IEEE Standard for Neural Network-Based Image Coding, which is a pioneering standard leveraging artificial intelligence technologies to enhance image compression efficiency. The IEEE 1857.11 Sub-Working Group continuously devotes itself to advancing image coding standards, currently focusing on image coding with large generative models and exploring promising technologies of image coding for visual intelligence.

IEEE SA EMERGING TECHNOLOGY AWARD

At the time this standard was completed, the Imaging Performance of Active Millimeter-Wave Systems Working Group had the following membership:

Sherif Ahmed, *Chair*
Lee Spanier, *Vice Chair*
Douglas McMakin, *Vice-chair*

Jack Glover, *Secretary*
Lawrence Hudson, *Technical Editor*

Andrew Aceti
Laura Aume
Ra'id Awadallah
Jeffrey Barber
Richard Burdette
Stephen Cockey
Robert Flacco
Andrew Foland
William Garrett
Christopher Gregory
Frank Gumbmann
Michael Jenning
Angela Lundberg
Linda Marchese
Barry Masters
Yonas Nebiyeloul-Kifle
Joseph Palma
Nicholas Paulter
Chondrea Richard
Colin Sanford
Georg Schnattinger
Firas Shaikh
David Sheen
Barry Smith
Steve Smith
Scott Trosper
James Weatherall
Christoph Weiskopf

IEEE N42.59 Working Group

RECOGNITION

For development of the first imaging performance standard for millimeter-wave systems for security screening of humans

HIGHLIGHTS

The IEEE N42.59 Working Group (WG) produced IEEE Std N42.59™-2024, IEEE Standard for Measuring the Imaging Performance of Active Millimeter-Wave (MMW) Systems for Security Screening of Humans. The IEEE N42.59 WG was formed in 2016 initially under the ANSI N42 Accredited Standards Committee and was later transferred to IEEE in 2021. Public, private, and academic experts in MMW engineering, electromagnetics, imaging science, and aviation security collaborated over these years to consolidate this first worldwide standard detailing imaging charts with specific fabrication drawings, test methodologies, implementation algorithms, and statistical measures to score the relevant MMW image quality metrics.

Given the novelty of MMW imaging technology utilized in security screening of persons around the globe, the standard's development required the IEEE N42.59 WG to produce original research and devise robust analysis steps of image quality deemed most relevant to threat-detection capabilities by engaging with security agencies, vendors, and end users alike. The standard has already begun impacting aviation security venues to assess engineering change proposals while avoiding costly, time-consuming, and cumbersome threat-based testing.

IEEE P2851 Working Group

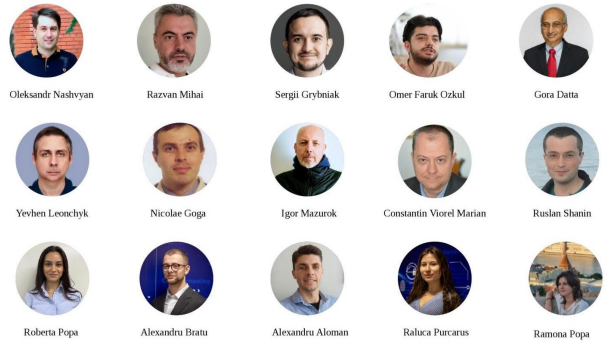
IEEE P2851
Working Group

RECOGNITION

For contributions to functional safety applied in a multi-domain context and for improving interoperability between the different elements of the dependability lifecycle

HIGHLIGHTS

The IEEE P2851 Working Group is a global standardization committee operating under the IEEE Computer Society's Functional Safety Standards Committee. Its primary mission is to solve the critical industry challenge of data exchange and interoperability for functional safety across the complex supply chain of safety-critical systems, such as those found in automotive, industrial, medical, and avionics domains. It produced IEEE Std 2851™-2023, IEEE Standard for Functional Safety Data Format for Interoperability within the Dependability Lifecycle.



IEEE P3271.01 Working Group

RECOGNITION

For developing IEEE P3271.01, Draft Standard for Recurring Transactions Using Distributed Ledger Technologies (DLTs)

HIGHLIGHTS

The IEEE P3271.01 Working Group focuses on efforts to create IEEE P3271.01, Draft Standard for the Recurring Transactions Using Distributed Ledger Technologies (DLTs). This draft standard introduces the first structured, non-custodial framework for automated recurring payments, overcoming the absence of trustless solutions in digital financial infrastructures.

The draft standard uses mechanisms such as lazy evaluation and debt collection transactions, which allows cost minimization, improves efficiency, and enhances security across diverse DLT platforms. The standard supports a diverse range of real-world applications, such as subscription services and utility billing, transparent tax collection, and automated yield distributions and dividend payments.

IEEE P3351 Working Group

RECOGNITION

For development of IEEE Std 3351-2025, IEEE Standard for Levitation System of Electromagnetic Suspension-type Maglev Vehicles

HIGHLIGHTS

The IEEE P3351 Working Group (WG) was established in 2023 under the IEEE High-Speed Rail and Maglev Standards Committee. The IEEE P3351 WG brings together experts from both industry and academia who have extensive experience and deep expertise in maglev vehicle levitation systems, combining strong theoretical knowledge with practical engineering experience.

Since its establishment, the IEEE P3351 WG has been dedicated to advancing the standardization and industrialization of maglev transportation technology. Its core mission is to develop a comprehensive technical standard system covering maglev vehicle levitation systems, levitation controllers, levitation sensors, and levitation electromagnets. This system aims to define technical parameters, functional and performance requirements, test methods, and acceptance criteria, providing a unified and reliable technical foundation for the industry.

The IEEE P3351 WG has completed its first standard, IEEE 3351™-2025. This milestone achievement systematically defines key terminology, system architecture, operational environmental conditions, technical requirements, and test guidelines for maglev levitation systems. It establishes an internationally recognized framework for the design, verification, and evaluation of levitation systems. The development of this standard not only fills a critical gap in the field, but also lays a solid foundation for the global collaborative development and large-scale application of maglev transportation technology.

IEEE SA LIFETIME ACHIEVEMENT AWARD

This award is presented to a current or past member of the IEEE Standards Association who has made a significant technical contribution in a standards committee and has shown a 15-plus year commitment to standards development within IEEE and other national and international standardization activities.

Recognition consists of a sculpture and framed certificate.

Past Recipients

2024
R. Allen Bernstorf
Thomas M. Kurihara
Kang B. Lee
Wei-Jen Lee

2023
Jerome Blair
Leonardo Chiariglione
Paul Forquer
Ernie Gallo
Robert M. Grow

2022
Steven B. Carlson
Norman Finn
Annette D. Reilly
Richard A. Tell

2021
Curtis Ashton
Ben C. Johnson

2020
Chung-Kwang Chou
Howard Wolfman

2019
Garry Roedler

2018
T. W. (Ted) Olsen

2017
Philip J. Hopkinson

2016
Michael Johas Teener

2015
Mick Seaman

2014
Todd Cooper
Gary Robinson

2013
Richard DeBlasio
Tony Jeffree

2012
Francois Martzloff

2011
Joseph L. Koepfinger

IEEE SA LIFETIME ACHIEVEMENT AWARD

Adam Cron

RECOGNITION

For continuous and outstanding service to the standards development community in the field of electronic testing and design-for-test solutions

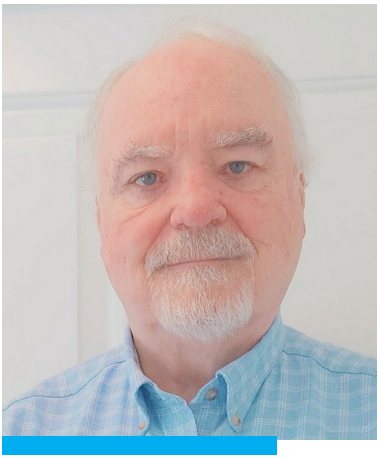
HIGHLIGHTS

Adam Cron is a Distinguished Architect at Synopsys, working with customers worldwide on complex test, security, and silicon lifecycle management tool flows and architectures for digital integrated circuits (ICs). He has helped architect design-for-test, design-for-manufacturing, and security tools for several generations of products.

As a Syracuse University computer engineering graduate, Adam worked in test-related fields at Motorola and Texas Instruments, where he got his first exposure to IEEE standards while designing the first ICs compliant to IEEE Std 1149.1. In the past, Adam has served as chair or vice-chair of the IEEE Test Technology Standards Committee, overseeing the development of IEEE test standards for about a dozen years.

Adam is Chair of the IEEE 1838 Working Group, which standardized 3D-IC test access; Editor of IEEE 1149.4 for a mixed-signal test bus; and a member of IEEE test standards working groups such as IEEE 1687, IEEE 1687.2, IEEE 2929, and IEEE 3405. He is an IEEE Computer Society Golden Core recipient for longstanding service to the Society and the recipient of the 2024 IEEE Computer Society Hans Karlsson Standards Award. Adam has authored several papers, articles, book chapters, and patents, and he is a frequent speaker or panelist at conference sessions held at events such as the International Test Conference and the Design Automation Conference.

IEEE SA LIFETIME ACHIEVEMENT AWARD



Leslie T. Falkingham

RECOGNITION

For more than 25 years of leadership and significant contributions to the creation and development of national and international standards from IEEE, IEC, and BSI in the field of electrical switchgear

HIGHLIGHTS

Leslie T. Falkingham is an internationally recognized specialist in high-voltage switchgear design and development, particularly vacuum interrupters and vacuum switchgear. For more than 25 years he has been an active contributor to switchgear standards, initially with the British Standards Institute as well as the International Electrotechnical Commission (IEC), the International Organization for Standardization, the European Committee for Standardization, and the European Committee for Electrotechnical Standardization. His unique contribution to standards development has been in applying his deep technical knowledge in combination with the discipline of leading teams working on cutting-edge research and development. For his contribution to the development of IEC standards, he was given the IEC 1906 Award in 2011.

For many years Leslie has been a member of the IEEE Switchgear Committee, serving in a large number of working groups. He worked on the creation of the first dual-logo standards between IEEE and IEC, and is presently Chair of the Joint Working Group for IEEE/IEC 62271-37-082. His contribution to these dual-logo standards was recognised in 2018 when he received the IEEE SA International Award.

IEEE SA LIFETIME ACHIEVEMENT AWARD

Lauri J. Hiivala

RECOGNITION

For more than 45 years of meritorious service to the IEEE Insulated Conductors Committee, outstanding contributions to the science and technology of underground cables, and to the development of associated international standards

HIGHLIGHTS

After graduating from the University of Toronto with a bachelor's degree of applied science in electrical engineering, Lauri J. Hiivala held various positions with Canada Wire & Cable (now Nexans Canada), involving the design and development of power cables and their accessories from 300 V to 500 kV. Prior to retirement, he was the director of application engineering for the Energy Networks Business Group.

He has served in various positions for the IEEE Power and Energy Society's Insulated Conductors Committee's (ICC's) Executive and Administrative Committee, including Chair from 1994-1995, and for the Insulated Cable Engineers Association (ICEA) (President from 2002-2005). He is currently Vice-Chair of Awards for the IEEE ICC.

Throughout his career and even after retirement, Lauri has been involved in standards activities not only in IEEE, but also in ICEA, the International Electrotechnical Commission, the American National Standards Institute, and the Canadian Standards Association.

IEEE SA LIFETIME ACHIEVEMENT AWARD

Richard H. Hulett

RECOGNITION

For 45 years of leadership and contributions to global trace heating standards

HIGHLIGHTS

Richard H. Hulett, a Life Fellow of IEEE, received his BSME and MSME degrees from Stanford University. He has more than 45 years of experience in pioneering the application of electrical trace heating and in its standards development. Initially, Richard joined Raychem Corporation and was involved in developing performance ratings and long-term reliability on innovative technology for self-regulating heating cables. As technical director in the 1980s, he led an effort to increase the safety of electrical heat tracing systems in industrial applications.

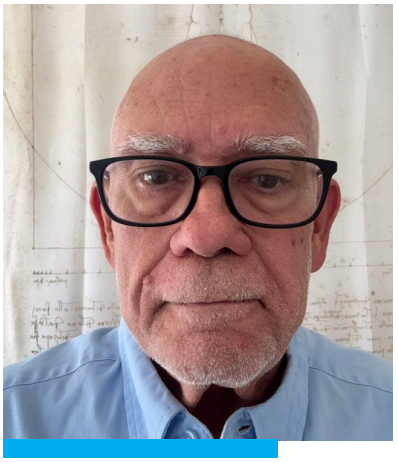
After joining Thermon Manufacturing in 1994, Richard worked on characterizing new metal alloy heat tracing capabilities. As vice president of electrical products, he worked on advancing conductive polymer heating technology. He is currently a consultant for Thermon.

Richard began his involvement in standards as a working group member of IEEE 515. He was chair for subsequent five revisions and was also involved in the development of IEEE 515.1 for commercial applications.

In 2001, Richard joined the IEEE SA Standards Board (SASB). In his 14 years on the IEEE SASB, he served on multiple committees as chair of the IEEE SASB Procedures Committee and as SASB chair. He was also a member of the IEEE SA Board of Governors.

Internationally, Richard was a working group member for International Electrotechnical Commission (IEC) 62086-1 and IEC 62086-2. In the interest of worldwide harmonization of standards, Rich pursued IEEE/IEC joint development standards, serving as co-convener for IEEE/IEC 60079-30-1-2015, IEEE/IEC 62395-1-2024, and IEEE/IEC 62395-2-2024. Recently, Richard has been involved in the adoption process for these standards in multiple organizations to create worldwide standards in trace heating.

IEEE SA LIFETIME ACHIEVEMENT AWARD



Richard Kennedy

RECOGNITION

For significant contributions to radio regulations in support of the IEEE 802 family of wireless standards

HIGHLIGHTS

In a career encompassing nearly 60 years, Richard Kennedy has focused primarily on data communications, beginning in 1977 at Milgo Electronics designing modems. He later shifted his focus to wireless technologies as the communications architect for the Consumer Division of Compaq, moving to where he could be most effective: standards and regulatory.

During the next 25 years, Richard helped establish standards for the European Telecommunications Standards Institute, the US Federal Communications Commission, and many other international regulatory bodies to open the 5 GHz band. Under Hewlett Packard Enterprises, he was a founding member of the coalition that conquered the vast 6 GHz band for unlicensed and license-exempt wireless technologies. He chaired several regulatory groups within IEEE 802.11 and IEEE 802 (and the Wi-Fi Alliance) to address the multitude of regulatory challenges associated with spectrum sharing.

Richard retired in August 2025 after almost three years with the Bluetooth SIG as they expanded operations beyond the 2.4 GHz band while maintaining minimal impact on IEEE 802 wireless technologies.

IEEE SA LIFETIME ACHIEVEMENT AWARD

Jim McDowall

RECOGNITION

For leadership in the development of IEEE battery standards and testing protocols

HIGHLIGHTS

Jim McDowall is an IEEE Life Fellow, cited for leadership in stationary battery standards and the energy storage industry. As a consultant with decades of experience, Jim specializes in energy storage safety and related codes and standards. He is an expert in lithium-ion batteries and energy storage applications, and is a member of the US Department of Energy/Environmental System Science Safety Strategic Plan Advisory Committee. Jim was a director of the Energy Storage Association (now American Clean Power Association) for 14 years, including two years as chair. Jim is a former Chair of the IEEE Energy Storage and Stationary Battery Committee, has led numerous standards projects, and is currently serving as the Committee's Standards Coordinator.

IEEE SA LIFETIME ACHIEVEMENT AWARD

Daleep Mohla

RECOGNITION

For contributions to IEEE SA and for leadership of arc-flash standards development

HIGHLIGHTS

Daleep Mohla has been an active member of IEEE for more than 50 years, first joining the organization as a student in 1972. Over the course of his distinguished career in electrical engineering, Daleep has earned international recognition for his leadership in electrical safety and his unwavering commitment to advancing IEEE standards.

He has presented IEEE standards tutorials and technical sessions across the globe—including the United States, Canada, China, Taiwan, India, and Brazil—sharing his expertise and inspiring professionals worldwide. Since 1998, Daleep has served on the IEEE SA Standards Board and its committees, and previously led the Standards Department of the IEEE Industry Applications Society (IAS). He currently chairs the IEEE Industrial and Commercial Power Systems Standards Development Committee.

Daleep has received numerous awards, including distinguished service awards from IEEE SA and IEEE IAS, an IEEE SA Managing Director Special Recognition, and the IEEE Charles Proteus Steinmetz Award. He is an IEEE Fellow.

Beyond his technical contributions, Daleep is a tireless champion for mentoring young professionals and international engagement in standards development. His efforts have helped build a strong IEEE IAS standards program in China and expanded global access to IEEE standards through Spanish-language publication.

IEEE SA LIFETIME ACHIEVEMENT AWARD

Hans-Wolfgang Oertel

RECOGNITION

For outstanding contributions and commitment to the IEEE Power and Energy Society Surge Protective Devices Committee (SPDC), which ensured surge suppression components were integral to industry standards

HIGHLIGHTS

Hans-Wolfgang Oertel started his US career in 1979 at Joslyn Electronic Systems as a new product development manager for gas tube technology. In 1997, he became a technical director, then vice president of technology, traveling globally to present protectors and address issues at telecommunication companies. After Bourns acquired Joslyn in 2001, he led technical development and production for surge protective components.

Before his employment at Joslyn, Wolfgang was a development and production engineer at Siemens in Berlin, working on gas discharge tubes, transmitter tubes, and vacuum switches and establishing production lines in Siemens' international subsidiaries.

He holds a BS in material science, completed Grennan Air Force training (working on failure analysis for F-104G Starfighter planes), and earned a Diplom Engineer (MS) in process engineering from the Engineering Academy in Berlin. Now retired, Wolfgang consults for Bourns.

Since early 1980, Wolfgang has been active in IEEE, chairing Working Group 3.6.1 of the IEEE Surge Protective Devices Committee. He is a member of the US Technical Advisory Group for the International Electrotechnical Commission Standards Committees 37A and B. He is a member of the International Telecommunications Union-Telecommunications' Study Group 5, has contributed to Telcordia standards, and is part of the Alliance for Telecommunications Industry Solutions/Protection Engineering Group's Protection Advisory Board.

IEEE SA LIFETIME ACHIEVEMENT AWARD

Nicholas Paulter

RECOGNITION

For leadership in the production of standards for the Waveform Generation, Measurement, and Analysis Committee of the IEEE Instrumentation and Measurement Society

HIGHLIGHTS

Nicholas Paulter has dedicated himself for more than three decades to the advancement of electrical pulse metrology, specializing in the intricate measurement of ultra-short duration electrical impulses. His expertise significantly impacted primary standards laboratories across commercial, testing, and military sectors.

His professional journey began at Los Alamos National Laboratory, where he pioneered the development of laser-based measurement systems for the characterization of transient electrical phenomena. He later joined the National Institute of Standards and Technology (NIST), contributing to the development and refinement of testing and evaluation methods for ultra-fast electrical impulses.

Throughout his career at NIST and beyond, Nicholas played a crucial role in establishing new standards of precision and accuracy within the field. His significant contributions extended to the development of associated documentary standards through the IEEE and the International Electrotechnical Commission. His legacy within the field of metrology is one of innovation and precision.

IEEE SA LIFETIME ACHIEVEMENT AWARD

Steven G. Whisenant

RECOGNITION

For nearly five decades of dedicated service to the electric power industry, IEEE, the Surge Protective Device Committee, and EPRI in the development of surge protection and neutral grounding standards

HIGHLIGHTS

Steven G. Whisenant earned his BS in electrical engineering from North Carolina State University, his master's in engineering from Rensselaer Polytechnic Institute, and his master's in business administration from Queens College (Charlotte, NC). He was employed by Duke Energy for almost 50 years, starting as a principal engineer and moving through several project management and manager roles, ultimately serving as a senior engineer. Steven has extensive experience in the electric utility business including design and analysis of power systems for nuclear stations, transmission substation design and analysis, distribution operations, and power quality.

He developed and facilitated the Center for Advanced Power Engineering Research (CAPER), a membership-driven consortium among several universities and industry partners in the US Southeast region working to develop and demonstrate grid modernization technologies and enhance the educational experience for students in electric power engineering.

Steven is a registered Professional Engineer and a senior life member of IEEE. He has been a member of the IEEE Power and Energy Society for 50 years, serving as a Working Group Chair, the Chair of the IEEE PES Surge Protective Devices Committee, and the IEEE Charlotte Section Chair.

Steven developed and taught courses for Professional Engineers as an instructor at the University of North Carolina-Charlotte. He received Product Champion and Innovator Awards from the Electric Power Research Institute and an Industry Excellence Award from the Southeastern Electric Exchange.

2025 IEEE SA Board of Governors

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- James E. Matthews III, IEEE SA Past President
- Lei Wang, IEEE SA Standards Board (SASB) Chair
- David Law, Past SASB Chair
- Gary Stuebing, IEEE SA Entity Collaborative Activities Governance Board (CAG) Chair
- Yatin Trivedi, IEEE SA Treasurer
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- Shmuel Auster, Member-at-Large
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- Meng Lu, Member-at-Large
- Ashish Mahajan Member-at-Large
- Vikass Monebhurrun, Member-at-Large
- Glenn Parsons, Member-at-Large
- Walter Weigel, Member-at-Large
- Doug Zuckerman, Member-at-Large
- David Chen, Non-voting Member
- Alex Kraus, Non-voting Member
- Ruth Lewis, Non-voting Member
- Maike Luiken, Non-voting Member
- Kishik Park, Non-voting Member
- Dorothy Stanley, Non-voting Member

2025 IEEE SA Awards and Recognition Committee

- Ted Burse, Chair
- Shmuel Auster
- Dorothy Stanley
- Yatin Trivedi
- Keith Waters
- Victoria Kuperman-Super, Administrator

2025 IEEE SA Awards Ceremony Program and Brochure

- Julie Alessi
- Ian Barbour
- Jennifer Biolsi
- Victoria Kuperman-Super
- Dave Ringle
- Heather Robinson

IEEE SA STANDARDS ASSOCIATION

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