Dear IEEE Members and Friends,

We are pleased to present the 2019 IEEE Awards Program Annual Highlights Booklet, created to provide an overview of the highest awards presented on behalf of the IEEE Board of Directors. Special credit must be given to dedicated IEEE Members Sai Bharath Krishna and Rohith Joseph Mathew, who volunteered their time to develop this communication.

IEEE is proud of its Awards portfolio and even prouder of the recipients whose work is advancing technology for the benefit of humanity. Please take a few minutes to peruse the booklet to view the highlighted recipients and the many photos that depict the year in review. Of special note this year is the presentation of the IEEE President's Award to Katherine Johnson. This award has been presented only twice previously. We wish to express our gratitude to IEEE President José M. F. Moura and the IEEE Board of Directors for strongly supporting its presentation this year.

The IEEE Awards Program is made possible through the support of our donors and partners, and the dedication of more than 450 IEEE volunteers. We thank all of you for your ongoing commitment to ensuring the recognition of the trailblazers who serve as role models for the next generation of technological innovators.

Please visit the IEEE Awards web page to learn more about the IEEE Awards Program and how you can become involved as a volunteer, sponsor, or partner.

Richard V. Cox
Rich Cox, Chair
2019-20 IEEE Awards Board

Marybeth Denike
Marybeth Denike, Director
IEEE Awards Activities

DIVERSITY STATEMENT

IEEE awards recognize exceptional contributions to all IEEE fields of interest (technical and nontechnical) made by organizations and individuals regardless of nationality, gender, age, religion, ethnic background, or other personal characteristics not related to ability, performance, or qualifications. The IEEE Awards Program is committed to pursuing diversity in all its operations to help realize and maintain fair nomination and selection processes without bias or discrimination.
THANK YOU TO THE
2019 IEEE Board of Directors

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Director Emeritus: Theodore W. Hissey

Thank you to the IEEE Foundation Board of Directors, a major champion of IEEE Awards Activities.

IEEE Foundation
The IEEE Awards Board administers IEEE Medals, Technical Field Awards (TFAs), and Recognitions awards on behalf of the IEEE Board of Directors. These are the highest-level awards given by IEEE.

Through its Awards Program, IEEE advances the interests of its members by recognizing their contributions in advancing the fields of interest to IEEE to the benefit of society. By this means, the image and prestige of the organization, its members, and the profession are all enhanced. The IEEE Awards Program honors members and other professionals for their service to society.

These awards may be presented annually when, in the judgment of the Awards Board, suitable candidates are available. Candidates for the IEEE Medals, TFAs, and Recognitions shall be endorsed by the Awards Board before submission to the IEEE Board of Directors for final approval.
MEDALS & RECOGNITIONS
IEEE Medal of Honor
For an exceptional contribution or an extraordinary career in IEEE fields of interest, **sponsored by the IEEE Foundation**, to **Recipient KURT E. PETERSEN** (LFIEEE)—Member of the Silicon Valley Band of Angels, Milpitas, California, USA. **Citation:** “For contributions to and leadership in the development and commercialization of innovative technologies in the field of MEMS.”

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IEEE Alexander Graham Bell Medal
For exceptional contributions to communications and networking sciences and engineering, **sponsored by Nokia Bell Labs**, to **recipient TERESA H. MENG** (FIEEE)—Professor Emeritus, Reid Weaver Dennis Professor in Electrical Engineering and Professor of Computer Science, Stanford, California, USA. **Citation:** “For technical contributions to and leadership in the development of wireless semiconductor technology.”

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IEEE Medal for Environmental and Safety Technologies
For outstanding accomplishments in the application of technology in the fields of interest of IEEE that improve the environment and/or public safety, **sponsored by Toyota Motor Corporation**, to **Co-Recipients RICHARD NUTE (LFIEEE)—Consultant, Bend, Oregon, USA; and D. RAY CORSON—President, Queritas Consulting, Loveland, Colorado, USA; and JIM BARRICK—Senior Manager, Legal, Western Digital, Milpitas, California, USA. Citation:** “For contributions to hazard-based safety engineering as the basis for product design and product safety standard development.”

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IEEE AWARDS HIGHLIGHTS 2019
06
IEEE Edison Medal
For a career of meritorious achievement in electrical science, electrical engineering or the electrical arts, sponsored by Samsung Electronics Co., Ltd., to recipient URSULA KELLER (FIEEE)—Director of NCCR MUST (Swiss National Centre of Competence in Molecular Ultrafast Science and Technology)—ETH Zurich, Zurich, Switzerland. Citation: “For pioneering and fundamental contributions to and leadership in useable, compact ultrafast laser technology, enabling applications in metrology, sensing, and biophotonics.”

IEEE Founders Medal
For outstanding contributions in the leadership, planning, and administration of affairs of great value to the electrical and electronics engineering profession, sponsored by the IEEE Foundation, to recipient ROBIN KEITH SAXBY—Founding CEO and Chairman ARM Holdings plc (Retired), London, United Kingdom. Citation: “For achievements in developing a globally successful electronics enterprise with an innovative approach to licensing of Intellectual Property.”

IEEE Richard W. Hamming Medal
For exceptional contributions to information sciences, systems, and technology, sponsored by Qualcomm, Inc., to recipient DAVID NGAR CHING TSE (FIEEE)—Thomas Kailath and Guanghan Xu Professor, Stanford University, Stanford, California, USA. Citation: “For seminal contributions to wireless network information theory and wireless network systems.”

IEEE Medal for Innovations in Healthcare Technology
For exceptional contributions to technologies and applications benefitting healthcare, medicine, and the health sciences, sponsored by the IEEE Engineering in Medicine and Biology Society, to recipient KAMIL UGURBIL—Professor and Director, University of Minnesota, Minneapolis, Minnesota, USA. Citation: For pioneering the development and leading the advancement of ultra-high-field MRI technology for biomedical and brain research.
IEEE Jack S. Kilby Signal Processing Medal
For outstanding achievements in signal processing, sponsored by Texas Instruments, Inc., to recipient ALAN S. WILLSKY (LFIEEE)—Edwin S. Webster Professor, Department of Electrical Engineering and Computer Science and Laboratory for Information and Decision Systems, MIT, Massachusetts, USA. Citation: “For contributions to stochastic modeling, multi-resolution techniques, and control-signal processing synergies.”

IEEE James H. Mulligan, Jr. Education Medal
For a career of outstanding contributions to education in the fields of interest of IEEE, sponsored by MathWorks, Pearson, and the IEEE Life Members Fund, to recipient JOHN G. WEBSTER (LFIEEE)—Professor Emeritus of Biomedical Engineering, University of Wisconsin—Madison, USA. Citation: “For excellence in classroom teaching as well as the production of numerous reference texts that have fostered the development of biomedical engineering as a discipline.”

IEEE/RSE James Clerk Maxwell Medal
For groundbreaking contributions that have had an exceptional impact on the development of electronics and electrical engineering or related fields, sponsored by the Maxwell Medal Fund, to Co-Recipients DAVID FLYNN (SMIEEE)—Visiting Professor, University of Southampton, Cambridge, United Kingdom and DAVID JAGGAR (MIEEE)—Former ARM Fellow (Retired), Canterbury, New Zealand. Citation: “For contributions to the development of novel Reduced Instruction Set Computer (RISC) architectures adopted in 100 billion+ microprocessor cores worldwide.”
IEEE Robert N. Noyce Medal
For exceptional contributions to the microelectronics industry, sponsored by Intel Foundation, to recipient ANTON DOMIC (FIEEE)—Chief Technical Officer, Synopsys, Mountain View, California, USA. Citation: "For leadership in the research and development of advanced microelectronic design automation tools."

IEEE Dennis J. Picard Medal for Radar Technologies and Applications
For outstanding accomplishments in advancing the fields of radar technologies and their applications, sponsored by Raytheon Technologies, to recipient RICHARD KLEMM—Professor (Retired), Fraunhofer Institute for High Frequency Physics and Radar Techniques, Muenchen, Germany. Citation: "For contributions to high-resolution radar, adaptive clutter suppression, and publications for the international radar system community."

IEEE Jun-ichi Nishizawa Medal
For outstanding contributions to material and device science and technology, including practical application, sponsored by The Federation of Electric Power Companies, Japan, to Co-Recipients YASUHIKO ARAKAWA (LMIEEE)—Professor, Institute for Nano Quantum Information Electronics, Tokyo, Japan; and PALLAB BHATTACHARYA (LFIEEE)—Charles M. Vest Distinguished University Professor of Electrical Engineering and Computer Science, and James R. Mellor Professor of Engineering, University of Michigan, Michigan, USA; and DIETER H. BIMBERG (LFIEEE)—Executive Director, Bimberg Chinese-German Center for Green Photonics of the Chinese Academy of Sciences at CIOMP, Changchun, China. Citation: "For contributions to the development and commercialization of quantum dot lasers."
IEEE Medal in Power Engineering
For outstanding contributions to the technology associated with the
generation, transmission, distribution, application, and utilization of
electric power for the betterment of society, sponsored by the IEEE
Industry Applications, Industrial Electronics, Power Electronics, and
Power & Energy Societies, to recipient LIONEL O. BARTHOLD
(LFIEEE)—Independent Consultant, Queensbury, New York, USA.
Citation: “For outstanding contributions to and leadership in advancing
the technologies of electric power transmission.”

IEEE Simon Ramo Medal
For exceptional achievement in systems engineering and systems
science, sponsored by Northrop Grumman Corporation, to
recipient HAROLD “BUD” LAWSON (LFIEEE)—Consultant,
Lawson Konsult AB, Stockholm, Sweden. Citation: “For
pioneering contributions to computer systems, systems
engineering, and standards.”

IEEE John von Neumann Medal
For outstanding achievements in computer-related science and
technology, sponsored by IBM Corporation, to recipient EVA
TARDOS (MIEEE)—Jacob Gould Schurman Professor of
Computer Science, Cornell University, Ithaca, New York, USA.
Citation: “For contributions to the field of algorithms, including
foundational new methods in optimization, approximation
algorithms, and algorithmic game theory.”

IEEE Corporate Innovation Award
For an outstanding innovation by an organization in an IEEE field
of interest, sponsored by IEEE, to recipient BOSE CORPORATION
—Framingham, Massachusetts, USA. Citation: “For sustained
innovation and pioneering research in audio technology leading to
affordable, high-performance products.”
**IEEE Richard M. Emberson Award**

For distinguished service advancing the technical objectives of the IEEE, sponsored by the IEEE Technical Activities Board, to recipient MARCEL KESCHNER (SMIEEE)—President, Markel Engineers, Montevideo, Uruguay and CEO of Kcode LLC, Brooklyn, N.Y. Citation: “For promoting technical activities and technical education for under-served populations, while advancing cooperation between the volunteers of IEEE across continents and cultures.”

![IEEE Richard M. Emberson Award](image)

**IEEE Haraden Pratt Award**

For outstanding volunteer service to the IEEE, sponsored by the IEEE Foundation, to recipient DAVID G. GREEN (SMIEEE)—Instructional Professor Emeritus, Department of Electrical and Computer Engineering, University of Alabama at Birmingham, Alabama, USA. Citation: “For outstanding leadership, exceptional dedicated service, and tireless energy in support of the mission and goals of IEEE.”

![IEEE Haraden Pratt Award](image)

**IEEE Honorary Membership**

Elected by the Board of Directors from among those individuals, not members of IEEE, who have rendered meritorious service to humanity in IEEE’s designated fields of interest, sponsored by IEEE, to recipient TELLE WHITNEY—Chief Executive Officer Emeritus, Consultant, and Board Member with the Anita Borg Institute, Palo Alto, CA, USA. Citation: “For leadership in supporting and promoting women in technology, and for building a highly impactful global organization dedicated to this purpose.”

![IEEE Honorary Membership](image)

**IEEE Theodore W. Hissey Outstanding Young Professional Award**

For contributions to the technical community and IEEE fields of interest, sponsored by IEEE, to recipient MARIO MILICEVIC (MIEEE)—Staff Communication Systems Engineer, MaxLinear Inc., Irvine, California, USA. Citation: “For contributions to the technical fields of error correction and quantum cryptography, engineering education, and the IEEE member experience.”

![IEEE Theodore W. Hissey Outstanding Young Professional Award](image)
IEEE President’s Award

Given to individuals, not necessarily members of IEEE, whose careers have exhibited distinguished leadership and contributions to the public, sponsored by IEEE, to recipient KATHERINE G. JOHNSON—Mt. Laurel, New Jersey, USA. Citation: “For fundamental computational contributions to the success of America’s first and subsequent manned spaceflights, including Apollo 11.”

Katherine Johnson, photographed for Vanity Fair at Fort Monroe, in Hampton, Virginia. Photograph by Annie Leibovitz.

IEEE SPECTRUM AWARD

CIENA CORP. as the winner of the IEEE Spectrum Emerging Technology Award recognized for extreme series fiber-optic data communications technology.

ZIPLINE as the winner of the IEEE Spectrum Technology in Service of Society Award for your work on drone-based blood and medicine delivery service.
The awards presented at the **2019 IEEE Honors Ceremony Gala** are supported by the generosity of these organizations and societies.
TECHNICAL FIELD AWARDS
IEEE Biomedical Engineering Award
Recognizes outstanding contributions to the field of biomedical engineering—sponsored by the IEEE Circuits and Systems Society and IEEE Engineering in Medicine and Biology Society—to recipient MATTHEW O’DONNELL (LFIEEE)—Professor and Dean Emeritus, Department of Bioengineering, University of Washington, Seattle, Washington, USA. Citation: “For leadership in biomedical ultrasonics and medical imaging technologies.”

IEEE Electronics Packaging Award
Recognizes outstanding contributions to advancing components, electronic packaging, or manufacturing technologies—sponsored by the IEEE Electronics Packaging Society—to Recipient EPHRAIM SUHIR (LFIEEE)—Professor, Portland State University, Portland, Oregon, USA. Citation: “For seminal contributions to mechanical reliability engineering and modeling of electronic and photonic packages and systems.”

IEEE Cleo Brunetti Award
Recognizes outstanding contributions to nanotechnology and technologies for microsystem miniaturization—sponsored by the Brunetti Bequest—to Co-Recipients DANIEL C. EDELSTEIN (SMIEEE)—IBM Fellow; ALFRED GRILL—IBM Fellow Emeritus; and C-K HU—Research Staff Member, IBM T.J. Watson Research Center, Yorktown Heights, New York, USA. Citation: “For contributions to manufacturable, reliable, and scalable Cu interconnect and low-k dielectric technology for CMOS.”
IEEE Control Systems Award
Recognizes outstanding contributions to control systems engineering, science, or technology—sponsored by the IEEE Control Systems Society—to recipient PRAMOD P. KHARGONEKAR (FIEEE)—Vice Chancellor for Research and Distinguished Professor, University of California, Irvine, California, USA. Citation: “For contributions to robust and optimal control theory.”

IEEE Electromagnetics Award
Recognizes outstanding contributions to the theory and/or application of electromagnetics—sponsored by the IEEE Antennas and Propagation, IEEE Electromagnetic Compatibility, IEEE Geoscience and Remote Sensing, and IEEE Microwave Theory and Techniques Societies—to recipient RICHARD W. ZIOLKOWSKI (FIEEE)—Distinguished Professor, University of Technology Sydney, Ultimo, Australia. Citation: “For contributions to electromagnetic metamaterial-inspired physics and engineering, and localized wave phenomena.”

IEEE James L. Flanagan Speech and Audio Processing Award
Recognizes an outstanding contribution to the advancement of speech and/or audio signal processing—sponsored by the IEEE Signal Processing Society—to recipient HERMANN NEY (FIEEE)—Professor, RWTH Aachen University of Technology, Aachen, Germany. Citation: “For pioneering contributions to statistical and computational modeling for speech recognition and machine translation.”

IEEE Fourier Award for Signal Processing
Recognizes an outstanding contribution to the advancement of signal processing other than in the areas of speech and audio processing—sponsored by the IEEE Circuits and Systems and the IEEE Signal Processing Societies—to recipient ALAN CONRAD BOVIK (FIEEE)— Cockrell Family Regents Endowed Chair Professor, University of Texas at Austin, Texas, USA. Citation: “For seminal contributions and high-impact innovations to the theory and application of perception-based image and video processing.”
IEEE Andrew S. Grove Award
Recognizes outstanding contributions to solid-state devices and technology—sponsored by the IEEE Electron Devices Society—to recipient DICH HISAMOTO (FIEEE)—Chief Senior Scientist, Hitachi, Ltd., Tokyo, Japan. Citation: “For pioneering work in the manufacturing of three-dimensional double-gate MOSFET devices.”

IEEE Herman Halperin Electric Transmission and Distribution Award
Recognizes outstanding contributions to electric transmission and distribution—sponsored by the Robert and Ruth Halperin Foundation, in memory of Herman and Edna Halperin, and the IEEE Power & Energy Society—to Recipient STEVEN A. BOGGS (FIEEE)—President, Nonlinear Systems Inc., Ashford, Connecticut, USA. Citation: “For contributions to the improved component reliability in transmission and distribution systems.”

IEEE Masaru Ibuka Consumer Electronics Award
Recognizes outstanding contributions in the field of consumer electronics technology—sponsored by Sony Corporation—to Co-Recipients TOMONORI AYOYAMA (LFIEEE)—Professor Emeritus, The University of Tokyo, Kamakura, Japan and TAKASHI HAYASAKA—Corporate Officer, Business Consulting, Tokyo, Japan. Citation: “For pioneering contributions in super-high-definition image technologies leading to 4K digital cinema and television.”
IEEE Internet Award
Recognizes exceptional contributions to the advancement of Internet technology for network architecture, mobility and/or end-use applications—sponsored by Nokia Corporation—to recipient JENNIFER REXFORD (FIEE)—Professor, Princeton University, Princeton, New Jersey, USA. Citation: “For fundamental contributions to the programmability, stability, and performance of large computer networks, and leadership within the networking community.”

IEEE Richard Harold Kaufmann Award
Recognizes outstanding contributions in industrial systems engineering—sponsored by the IEEE Industry Applications Society—to recipient SUSUMU TADAKUMA (LFIEEE)—Professor (Retired), Chiba Institute of Technology, Chiba, Japan. Citation: “For pioneering contributions to high-power converters and drives for high-speed-train and industrial applications.”

IEEE Joseph F. Keithley Award in Instrumentation and Measurements
Recognizes outstanding contributions in electrical measurements—sponsored by Keithley Instruments, a Tektronix company, and the IEEE Instrumentation and Measurement Society—to recipient ALAN FINKEL (FIEEE)—Australia’s Chief Scientist, Commonwealth of Australia, Canberra City, Australia. Citation: “For contributions to high-speed, accurate measurement of electrical transmission in the brain and other biological cells.”

IEEE Gustav Robert Kirchhoff Award
Recognizes an outstanding contribution to the fundamentals of any aspect of electronic circuits and systems that has a long-term significance or impact—sponsored by the IEEE Circuits and Systems Society—to recipient KENNETH MARTIN (LFIEEE)—President, Granite SemiCom Inc., Toronto, Canada. Citation: “For contributions to analog, mixed-signal, and digital integrated circuits, and outstanding leadership in microelectronics education and research and development.”
IEEE Leon K. Kirchmayer Graduate Teaching Award
Recognizes inspirational teaching of graduate students in the IEEE fields of interest—sponsored by the Leon K. Kirchmayer Memorial Fund—to recipient GREGORY W. WORNELL (FIEEE)—Sumitomo Professor of Engineering, Department of Electrical Engineering and Computer Science, Massachusetts Institute of Technology, Cambridge, Massachusetts, USA. Citation: “For leadership in the mentoring of research students and in the development of graduate curricula that incorporate cutting-edge research perspectives.”

IEEE Koji Kobayashi Computers and Communications Award
Recognizes outstanding contributions to the integration of computers and communications—sponsored by NEC Corporation—to recipient R. SRIKANT (FIEEE)—Fredric G. and Elizabeth H. Nearing Endowed Professor, Department of Electrical and Computer Engineering and Coordinated Science Lab, University of Illinois, Urbana, USA. Citation: “For contributions to congestion control and scheduling in computer communication networks.”

IEEE William E. Newell Power Electronics Award
Recognizes outstanding contributions to power electronics—sponsored by the IEEE Power Electronics Society—to recipient PATRIZIO VINCIARELLI—Chief Executive Officer, Vicor Corporation, Andover, Massachusetts, USA. Citation: “For visionary leadership in the development of high-efficiency, high-power-density power conversion components for distributed power system applications.”

IEEE Daniel E. Noble Award for Emerging Technologies
Recognizes outstanding contributions to emerging technologies recognized within recent years—sponsored by the IEEE Daniel E. Noble Award Fund—to recipient THOMAS KENNY (SMIEEE)—Professor, Department of Mechanical Engineering, Stanford University, Stanford, California, USA. Citation: “For the development and widespread commercialization of MEMS resonators for timing applications.”
IEEE Donald O. Pederson Award in Solid-State Circuits
Recognizes outstanding contributions to solid-state circuits—sponsored by the IEEE Solid-State Circuits Society—to recipient LAURENCE NAGEL (LFIEEE)—President, Omega Enterprises Consulting, Kensington, California, USA. Citation: “For the development and demonstration of SPICE as a tool to design and optimize electronic circuits.”

IEEE Frederik Philips Award
Recognizes outstanding accomplishments in the management of research and development resulting in effective innovation in the electrical and electronics industry—sponsored by Royal Philips—to recipient ASAD M. MADNI (LFIEEE)—Distinguished Adjunct Professor/Distinguished Scientist, UCLA ECE Department Faculty Fellow, Institute of Transportation Studies, University of California Los Angeles, USA. Citation: “For contributions to the development and commercialization of sensors and systems for aerospace and automotive safety.”

IEEE Photonics Award
Recognizes outstanding achievements in photonics—sponsored by the IEEE Photonics Society—to recipient MICHAL LIPSON (FIEEE)—Eugene Higgins Professor Electrical Engineering, Columbia University, New York, New York, USA. Citation: “For pioneering contributions to silicon photonics.”

IEEE Frank Rosenblatt Award
Recognizes outstanding contributions to biologically and linguistically motivated computational paradigms and systems—sponsored by the IEEE Computational Intelligence Society—to recipient ERKKI OJA (LFIEEE)—Emeritus Professor (Retired), Aalto University, Espoo, Finland. Citation: “For contributions to neural networks and unsupervised learning.”
IEEE Marie Sklodowska-Curie Award
Recognizes outstanding contributions to the field of nuclear and plasma sciences and engineering—sponsored by the IEEE Nuclear and Plasma Sciences Society—to recipient SANJIV GAMBHIR (MIEEE)—Professor and Chairman, Department of Radiology, Stanford University, Stanford, California, USA. Citation: “For the development of nuclear and optical science in the field of molecular imaging and cancer treatment.”

IEEE Charles Proteus Steinmetz Award
Recognizes exceptional contributions to the development and/or advancement of standards in electrical and electronics engineering—sponsored by the IEEE Standards Association—to Recipient INNOCENT KAMWA (FIEEE)—Chief Expert-Power Systems Simulation and Evolution, Hydro-Quebec Research Institute (IREQ), Varennes, Quebec, Canada. Citation: “For sustained leadership in the development of standards for electrical machines.”

IEEE Robotics and Automation Award
Recognizes contributions in the field of robotics and automation—sponsored by the IEEE Robotics and Automation Society—to Co-Recipients ZEXIANG LI (FIEEE)—Professor, Department of Electrical and Electronic Engineering, Hong Kong University of Science and Technology, Clearwater Bay, Hong Kong, China and FRANK WANG (MIEEE)—Founder and Chief Executive Officer, SZ DJI Technology Co., Ltd., Shenzhen, China. Citation: “For contributions to the development and commercialization of civilian drones, aerial imaging technology, robotics engineering advancement, innovation.”
IEEE Eric E. Sumner Award
Recognizes outstanding contributions to communications technology—sponsored by Nokia Bell Labs—to recipient ANDREA GOLDSMITH (FIEE)—Professor, Stanford University, Stanford, California, USA. Citation: “For contributions to the fundamental understanding and innovation in adaptive and multiple antenna techniques for wireless communication networks.”

IEEE Nikola Tesla Award
Recognizes outstanding contributions to the generation and utilization of electric power—sponsored by Wolong Electric Group, the IEEE Industry Applications Society, and the IEEE Power & Energy Society—to recipient TOMY SEBASTIAN (FIEE)—Director, Motor Drive Systems, Halla Mechatronics, Bay City, Michigan, United States. Citation: “For contributions to the design and application of high-performance permanent magnet synchronous machines to electric power steering.”

IEEE Innovation in Societal Infrastructure Award
Recognizes significant technological achievements and contributions to the establishment, development, and proliferation of innovative societal infrastructure systems through the application of information technology with an emphasis on distributed computing systems—sponsored by Hitachi, Ltd. and the IEEE Computer Society—to Co-Recipients ANDY VIDAN (SMIEEE)—CEO & Co-Founder, Composable Analytics, Inc., Cambridge, Massachusetts, USA, and PAUL BREIMYER—Director of Software Engineering, Audible Inc., Cambridge, Massachusetts, USA, and GREGORY G. HOGAN (MIEEE)—Associate Group Leader, Advanced Sensors & Techniques, Massachusetts Institute of Technology, USA. Citation: “For development of real-time collaborative and distributed emergency response and recovery systems.”
2019 IEEE Eric Herz Outstanding Staff Member Award

Recognizes a present or past full-time staff member of the IEEE with at least ten years of service—sponsored by IEEE—to recipient JONATHAN DAHL (AMIEEE)—Lead Director, Professional Education & Services, Educational Activities, Piscataway, New Jersey, USA. Citation: “For leadership in and contributions toward the extraordinary growth in the awareness and reach of the IEEE’s electronic libraries.”
IEEE Awards proudly acknowledges its 2019 Technical Field Award sponsors. These are some of the world’s leading organizations, societies, and individuals whose generous support helps to recognize and promote technological advances for the benefit of humanity. Our partners include:

- Brunetti Bequest
- IEEE Power & Energy Society
- Hitachi, Ltd.
- Keithley Instruments, Inc.
- Leon K. Kirchmayer Memorial
- IEEE Power Electronics Society
- NEC Corporation
- Nokia Bell Labs
- Nokia Corporation
- Royal Philips
- Sony Corporation
- Dr. Kiyo Tomiyasu
- IEEE Antennas and Propagation Society
- IEEE Circuits and Systems Society
- IEEE Computational Intelligence Society
- IEEE Computer Society
- IEEE Control Systems Society
- IEEE Education Society
- IEEE Electromagnetic Compatibility Society
- IEEE Electron Devices Society
- IEEE Electronics Packaging Society
- IEEE Engineering in Medicine and Biology Society
- Wolong Electric Group

- IEEE Instrumentation and Measurement Society
- IEEE Intelligent Transportation Systems Society
- IEEE Microwave Theory and Techniques Society
- IEEE Nuclear and Plasma Sciences Society
- IEEE Photonics Society
- Robert and Ruth Halperin Foundation
- IEEE Geoscience and Remote Sensing Society
- IEEE Industry Applications Society
- IEEE Industrial Electronics Society
- IEEE Signal Processing Society
- IEEE Solid-State Circuits Society
- IEEE Standards Association
- IEEE Vehicular Technology Society
- IEEE Robotics and Automation Society
QUALCOMM
An Evening of Innovation
Prior to the 2019 VIC Summit and Honors Ceremony, the Awards Board collaborated with Qualcomm on a pre-event held on the Qualcomm campus titled “An Evening of Innovation.” Special thanks to Qualcomm for their tremendous support this year by increasing their involvement with IEEE by hosting and sponsoring “An Evening of Innovation” on 16 May 2019, along with the IEEE Awards Program and IEEE Foundation, at their headquarters.

Attendees of the "Evening of Innovation" were treated to inspiring words from Qualcomm and IEEE Executives, and the recipients of four of our 2019 Medals and Recognitions: Medal of Honor recipient, Kurt Petersen; Founders Medal recipient, Sir Robin Saxby; Hamming Medal recipient, David Tse; and Tom Froeschle from Bose Corporation, the recipient of the IEEE Corporate Innovation Award. Rory Moore, CEO and Co-Founder of EvoNexus, served as the moderator for the Evening of Innovation panel. This event provided an opportunity to hear a Q&A session with some of the 2019 IEEE Medals and Recognition recipients. IEEE President José Moura and Qualcomm Executives opened the event with welcome remarks.

Many thanks to the IEEE Foundation for hosting the welcome reception for the speakers and VIPs attending event. The welcome reception was held in a perfect location – by the IEEE Milestone Plaque celebrating Code Division Multiple Access (CDMA). A light reception followed, sponsored by the IEEE San Diego Section, IEEE Region 6, and the IEEE University Partnership Program. Qualcomm sponsors the IEEE Richard W. Hamming Medal. Special thanks to Qualcomm’s leadership and everyone who donated their time and effort to make this collaboration a success.
THANK YOU TO OUR
EVENING OF INNOVATION SPONSORS

Qualcomm

IEEE Region 6

IEEE San Diego Section

IEEE University Partnership Program

THANK YOU FOR HOSTING
AN EVENING OF INNOVATION

Qualcomm
VICS 2019
VISION, INNOVATION, AND CHALLENGES SUMMIT
The third IEEE Vision, Innovation, and Challenges Summit (IEEE VIC Summit) and Honors Ceremony took place at the Marriott Marquis San Diego Marina Hotel, San Diego, California on Friday, 17 May 2019.

The IEEE VIC Summit provided a unique opportunity to connect with, learn from, and build partnerships with some of the most notable technologists in the world. There were inspiring talks with world-class speakers, engaging conversations, and great networking opportunities.
VIP RECEPTION

sponsored by IEEE Awards and IEEE Foundation
“You all did a wonderful job on the VIC Summit and the Honors Ceremony. The program was beautifully executed and came off without a hitch. Congratulations to you all.”

Rob Anderson  
IEEE Awards Board Treasurer

“This is the highlight of a very long and adventure-filled career. The presence of so many of my family was a complete surprise. I was overwhelmed. The whole affair was beautifully organized and the IEEE staff very helpful.”

Lionel Barthold  
IEEE Medal in Power Engineering Recipient

“It was an excellent meeting and a great chance to meet colleagues on the Awards Board and IEEE staff. It was also exciting to spend time with two young engineers in the mentoring program. Congratulations on a job well done!”

Jim Hollenhorst  
IEEE Awards Board Member

“I have a lot of respect for IEEE, and the caliber of the award recipients was incredible. I was proud to be among them.”

Telle Whitney  
IEEE Honorary Member Recipient
“The IEEE VIC Summit and Awards Ceremony recently held in San Diego was an absolute class act! The day was packed with events, both professional and social, and everything happened without a single lapse. The highlight of the day was the Awards Ceremony itself and I have not witnessed any other similar event done so well, anywhere in the world. Behind it all were the IEEE Awards Team members who were absolutely fantastic and my interactions with them were nothing but the best. IEEE is the largest professional society in the world and events like this make it the greatest. I have been an IEEE member since 1978 and I am proud to be associated with it and its relevant societies and councils.”

Pallab Bhattacharya
Co-recipient of the IEEE Jun-ichi Nishizawa Medal

“What a wonderful event! I would never have considered attending and am so grateful for the experience. I’ve only recently been involved with IEEE Chicago Section (last 5 years or so), participating in the Product Safety Engineering Society and Women in Engineering. I wish I had joined when I first began my career. It’s been very rewarding and inspiring.

I enjoyed every bit of the event. The VIC Summit was the best IEEE event I’ve ever attended. I will definitely promote it, and plan on attending again in the future.”

Carol Smith
Winner of the IEEE Awards/Membership Promotion
IEEE MEDALS, RECOGNITIONS, AND TECHNICAL FIELD AWARDS

The IEEE Awards Program is a more than 100-year-old, peer-recognized program of achievement that has recognized leaders and visionaries who have paved the road of discovery in ways no one would ever imagine. IEEE Awards inspire achievement and set a standard of excellence and a motive to aspire to shape the future for the benefit of humanity, one innovation at a time.

Technology Areas of Recognition
including, but not limited to:

- Biomedical Engineering
- Communications
- Computer Technology
- Control and Information
- Devices
- Education
- Environmental and Safety
- Healthcare
- Materials
- Microelectronics
- Photonics
- Power Engineering
- Robotics
- Signal Processing
- Transportation

Nomination deadlines:

15 January:
IEEE Technical Field Awards
IEEE Eric Herz Outstanding Staff Member Award

15 June:
IEEE Medals, Honorary Membership, Corporate Recognitions, Young Professional Award and Service Awards
1. Nominators must complete the nomination form and finalize it by the deadline.

2. A min. of three, and a maximum of a five endorsement letters should be submitted.

3. Nominations are reviewed by committees, and recommendations are made.

4. Recommendations are submitted to the IEEE Board of Directors for the final approval.

5. The award recipients are informed that they have been selected.

For detailed nominator guidelines, visit ieee.org/awards
AWARDS TIMELINE

JANUARY 2019

14 January: Welcome information sent to the 2019 Awards Board.

15 January: Nomination deadline for 2020 Technical Field Awards and the 2019 IEEE Eric Herz Outstanding Staff Member Award.

17 January: AB Presentation & Publicity Committee Meeting.

23 January: AB Nominations & Appointments Committee Meeting.

FEBRUARY 2019

12 February: Members of the 2020 IEEE Awards Board held an in-person meeting with Awards staff. The purpose of this meeting was planning for the future of the Awards Program.

15 February: The IEEE Power & Energy Society joined the IEEE Photonics Society and the IEEE Young Professionals Committee as the third co-sponsor of the IEEE Theodore W. Hissey Outstanding Young Professional Award.

19 February: TFA & Eric Herz Award Selection Committee telecons began to review nominees for 2020 TFAs and the 2019 Eric Herz Award; recipients and alternates are being proposed for review by the Technical Field Awards Council on 28 March 2019.

19 February: AB Presentation & Publicity Committee Meeting, Status of planning for the 2019 VIC Summit and Honors Ceremony.

21 February: AB Awards Policy and Portfolio Review Committee Meeting. First meeting of the year/Introduction to APPRC and status of open items and activities.

27 February: ESF Task Force Meeting. First meeting of the year / Introduction to ESF Task Force and status of activities.

MARCH 2019

Throughout the month: TFA selection committee meetings continue.
14 March: AB Nominations & Appointments Committee Meeting.

21 March: AB Presentation & Publicity Committee Meeting.

28 March: TFA Council meets to review and endorse the proposed candidates for the 2020 TFAs.

APRIL 2019

2 April: Awards Staff Forum on Open Water nomination platform.

5 April: IEEE President Jose' M.F. Moura and IEEE President-Elect Toshio Fukuda rehearse for the Honors Ceremony at the IEEE Operations Center in Piscataway.

8 April: ESF Task Force Meeting.

8-25 April: Second telecons for 2019 Medals and Recognitions Committees.

9 April: AB Meeting.

15 April: AB Nominations & Appointments Committee Meeting.

16 April: AB Presentation & Publicity Committee Meeting.


MAY 2019

16 May: IEEE Awards and Qualcomm Collaboration Pre-Event, “An Evening of Innovation”, featuring IEEE Medal recipients and hosted by Qualcomm in collaboration with IEEE Awards, and in partnership with IEEE Region 6, IEEE San Diego Section and IEEE Global Sales -- on the Qualcomm campus in San Diego, CA, USA.

17 May: 2019 IEEE VIC Summit/Honors VIP Session in collaboration with the IEEE Foundation/Honors Ceremony at Marriott Marquis San Diego Marina – San Diego, CA, USA.

18 May: AB Chair Rich Cox and his wife, Nancy, attended a special dinner in honor of Sir Robin Saxby, 2019 IEEE Founders Medal recipient at the Marriott Marquis San Diego Marina – Hosted by the University of Liverpool.

23 May: AB APPRC Meeting
**JUNE 2019**

4 June: Awards Team Meeting with IEEE Open Water nomination platform users.

6 June: ESF Task Force Meeting.

11 & 18 June: Orientations for 2019 TFA Chair and Committee Members.

15 June: Nomination deadline for 2020 IEEE Medals & Recognitions.

19 June: AB ESF Meeting.

22 June: IEEE TAB Committee on Diversity & Inclusion Meeting – Hilton Atlanta.

23-24 June: IEEE Board of Directors Meeting – Hilton Atlanta, USA. The Board approved the proposed recipients of the 2020 TFAs and the 2019 Eric Herz Outstanding Staff Member Award.

25 June: AB Presentation & Publicity Committee Meeting.

**JULY 2019**

**Medals & Recognitions Selection Committee teleconferences throughout the month** - Select proposed recipients and alternate for 2020 IEEE Medals & Recognitions.

TFA Selection Committee teleconferences throughout the month.

**10 July:** Articles by 2019 VICS Speaker Ayanna Howard - https://ieee-vics.org/speakers/ayana-howard/- are published in IEEE Spectrum on-line and in Tech Talks.


**18 July:** AB Presentation & Publicity Committee Meeting.

**30 July:** AB ESF Meeting.
AUGUST 2019

1-23 August: Medals & Recognitions Selection Committee teleconferences continue - Select proposed recipients and alternates for 2020 IEEE Medals & Recognitions.

22 August: AB Nominations & Appointments Committee teleconference.

22 August: AB Presentation & Publicity Committee teleconference.

28 August: Recognitions Council Meeting - Endorse proposed recipients and alternates for 2020 IEEE Recognitions.

29 August: Medals Council Meeting - Endorse proposed recipients and alternates for 2020 IEEE Medals.

SEPTEMBER 2019

11 September: Awards Board Meeting.

12 September: Awards Staff Forum with Awards Colleagues across IEEE.

19 September: Awards Board Presentation & Publicity Committee Meeting.

OCTOBER 2019

1 October: Happy IEEE Day!
Testimonials from many of our 2019 Medal & Recognition Recipients were posted on the IEEE Day website and on social media.

15 October: Awards Board Presentation & Publicity Committee Meeting.

29 October: Meeting with 2019 IEEE President-Elect to review plans for the 2020 VIC Summit and Honors Ceremony.

NOVEMBER 2019

8 November: AB APPRC Meeting.

12 & 14 November: Orientations for 2020 IEEE Medal and Recognition Committee Members.
14 November: AB Nominations & Appointments Committee Teleconference.

19 November: Awards Board Presentation & Publicity Committee Teleconference.

21-25 November: IEEE Meeting Series in Boston, MA, USA.

22 November: Presentation of the 2019 IEEE Eric Herz Outstanding Staff Member Award to Jonathan Dahl, Lead Director, Continuing Professional Education – IEEE Educational Activities (Retired).

23 November: TAB Committee on Diversity & Inclusion meeting - Awards Board Chair Rich Cox presented updates on Diversity & Inclusion progress in the Awards Program.

24-25 November: IEEE Board of Directors Meeting. Recipients of the 2020 IEEE Medals and Recognitions approved by the Board. Establishment of the IEEE Mildred Dresselhaus Medal approved by the Board.

DECEMBER 2019

27 November - 20 December: 2019 IEEE Medal & Recognitions Selection Committee telecons.
Main Topic: Encouraging Nominations for the 2021 IEEE Medals & Recognitions.

3 December: Awards Staff Forum.

11 December: Awards Board OpCom Meeting.

17 December: Awards Board Presentation & Publicity Committee Meeting.
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For more information, email awards@ieee.org
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