



2019 IEEE MEDALS AND RECOGNITIONS RECIPIENTS AND CITATIONS

1. [**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."

2. [**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."

3. [**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 for Research 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."

4. [**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 (non-member)—President, Queritas Consulting, Loveland, Colorado, USA

AND

JIM BARRICK (non-member)—Senior Manager, Legal, Western Digital, Milipitas, California, USA

Citation

“For contributions to hazard-based safety engineering as the basis for product design and product safety standard development.”

5. [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 (non-member)—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.”

6. [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.”

7. [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 (non-member)—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."

8. [**IEEE JACK S. KILBY SIGNAL PROCESSING MEDAL**](#), for outstanding achievements in signal processing, sponsored by *Texas Instruments, Inc.*, to

Recipient

ALAN S. WILLISKY (LFIEEE)—Edwin S. Webster Professor, Department of Electrical Engineering and Computer Science and Laboratory for Information and Decision Systems, MIT, Massachusetts Institute of Technology, Cambridge, Massachusetts, USA

Citation

"For contributions to stochastic modeling, multi-resolution techniques, and control-signal processing synergies."

9. [**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."

10. [**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, Madison, Wisconsin, 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."

11. [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, Ann Arbor, 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.”

12. [IEEE ROBERT N. NOYCE MEDAL](#), for exceptional contributions to the microelectronics industry, sponsored by *Intel Foundation*, to

Recipient

ANTUN DOMIC (FIEEE)—Chief Technical Officer, Synopsys, Mountain View, California, USA

Citation

“For leadership in the research and development of advanced microelectronic design automation tools.”

13. [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 Company*, to

Recipient

RICHARD KLEMM (non-member)—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.”

14. [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.”

15. [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.”

16. [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.”

17. [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.”

18. [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.”

19. [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.”

20. [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 (non-member)—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.”

21. [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.”

22. [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 (non-member)—Mt. Laurel, New Jersey, USA

Citation

“For fundamental computational contributions to the success of America's first and subsequent manned spaceflights, including Apollo 11.”