



## 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 HUAI-YING MENG** (FIEEE)—Professor Emeritus, Reif 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

**RAY CORSON** (non-member)—Consultant, Queritas, Loveland, Illinois, USA

AND

**JAMES GORDON BARRICK, JR.** (non-member)—Senior Manager, eDiscovery and Digital Forensics, 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)—Former CEO, ARM, 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 TSE** (FIEEE)—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** (MIEEE)—Professor, 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 WILLSKY** (FIEEE)—Edwin S. Webster Professor of EECS, 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** (non-member)—Former ARM Fellow, 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** (FIEEE)—Professor, University of Tokyo, Institute of Industrial Science, Tokyo, Japan

AND

**PALLAB BHATTACHARYA** (LFIEEE)—Professor, University of Michigan and Charles M. Vest Distinguished University Professor and James R. Mellor Professor of Engineering, Ann Arbor, Michigan, USA

AND

**DIETER BIMBERG** (FIEEE)—Professor, Technical University, Berlin, Germany

**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** (SMIEEE)—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)—Retired Professor, 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 OLAV 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 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** (non-member)—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** (MIEEE)—President and CEO, Markel Engineering, Montevideo, Uruguay

**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 GREEN** (MIEEE)—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)—President and CEO Emeritus, Anita Borg Foundation, 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, Max Linear Inc., Irvine, California, USA

**Citation**

“For contributions to the technical fields of error correction and quantum cryptography, engineering education, and the IEEE member experience.”