

**IEEE HONORARY MEMBERSHIP**  
**RECIPIENTS**

- 2018 – MIHAL (MIKE) LAZARIDIS  
Quantum Valley Investments,  
Waterloo, Ontario, Canada
- “For revolutionary contributions to wireless communication and visionary leadership in fostering the advancement of fundamental physics toward future innovation.”
- AND
- ANTON ZEILINGER  
President, Austrian Academy of  
Sciences, Vienna, Austria
- “For pioneering conceptual and experimental contributions to the development of quantum communications and encryption.”
- 2017 - JAMES DYSON  
CEO, Dyson Company, Wiltshire,  
United Kingdom
- “For achievements in industrial design, entrepreneurship, and manufacturing technology, and for services to the engineering profession.”
- 2016 – SERGE HAROCHE  
Professor, Collège de France, Paris,  
France
- “For the development of cavity quantum electrodynamics, leading to fundamental quantum physics studies and to a wide range of applications.”
- AND
- RODOLFO STEFANO ZICH  
President, Torino Wireless  
Foundation, Torino, Italy
- “For leadership in the global integration of electrical and electronics engineering education and research.”
- 2015 - ELON MUSK  
CEO, Chairman, Co-Founder, Tesla  
Motors, Palo Alto, California, USA
- “For leadership in and innovative contributions to space-exploration technology, combatting global warming and promoting science education, pediatric health, and clean energy.”
- 2014 — SHIRLEY M. TILGHMAN  
President Emerita and Professor of  
Molecular Biology, Princeton  
University, Princeton, New Jersey,  
USA
- “For leadership in bridging quantitative biology and engineering and for advancing higher education.”
- 2013 — NOT AWARDED
- 2012 — YOSHIO UTSUMI  
President, Japan  
Telecommunications Engineering  
and Consulting Service (JTEC) and  
Advisor, Toyota InfoTechnology  
Center Co., Ltd., Tokyo, Japan
- “For leadership in policy and initiatives leading to the growth of information and communication technologies.”

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| 2011 — AVUL PAKIR JAINULABDEEN<br>ABDUL KALAM - Former (2002-07)<br>President of the Republic of India,<br>New Delhi, India | "For outstanding contributions toward transforming society through technology and for inspiring millions of school children to harness science and technology for human welfare and national development." |
| AND   | AND  |
| WANG JIANZHOU - Chairman, China<br>Mobile Limited, Beijing, China   | "For greatly enhancing the quality of life of large populations in rural areas through visionary leadership in the deployment of affordable mobile telecommunications."                                    |
| 2010 — N. R. NARAYANA MURTHY<br>Chairman and Chief Mentor, Infosys<br>Technologies, Ltd., Bangalore, India                  | "For founding and leading the extraordinary growth of Infosys Ltd., notable for its ethical stance, and for supporting empowerment of members of disadvantaged rural communities."                         |
| 2009 — GERALD POSAKONY<br>Scientist, Pacific Northwest National<br>Laboratory, Richland, WA, USA                            | "For pioneering contributions in ultrasonic techniques for medical diagnosis and nondestructive evaluation."   |
| 2008 — JONG YONG YUN<br>Vice Chairman and CEO, Samsung<br>Electronics, Co., Ltd., Seoul, Korea                              | "For exceptional achievements in pioneering technology-driven innovation within the electronics industry, advancing engineering education, and encouraging a multidisciplinary engineering community."     |
| 2007 — IAN C. MCRAE<br>Eskom (RETIRED)<br>Germiston, South Africa   | "For contributions to electrification and development of the electrical grid in Southern Africa."  |
| AND   | AND  |
| TSUTAE SHINODA<br>Fellow, Fujitsu Laboratories Ltd.,<br>Akashi, Japan   | "For outstanding innovative and pioneering contributions to commercializing large area color plasma displays."   |
| 2006 — VLADIMIR ROKHLIN<br>Professor of Computer Science and<br>Mathematics, Yale University,<br>New Haven, CT, USA         | "For the development of the Fast Multipole Method."  |
| 2005 — DEAN KAMEN<br>President, DEKA R&D Corporation,<br>Chairman Segway LLC, Founder<br>FIRST, Manchester, NH, USA         | "For innovating numerous medical devices, thereby improving the quality of life for many, and for inspiring youth to heightened interest in engineering through imaginative competitions."                 |

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2004 — NOT AWARDED

2003 — JORMA OLLILA  
Chairman & CEO  
Nokia Corporation  
Finland

"For contributions to launching mobile communications, a major global industry that has fundamentally changed the way people communicate."

AND

AND

TADASHI SASAKI  
President & CEO  
Internat'l Center for Materials  
Research  
Japan

"For leadership of the commercialization of Liquid Crystal Displays and development of the pocket calculator."

2002 — JAMES C. MORGAN  
Applied Materials, Inc.  
Santa Clara, CA, USA

"For his contributions of 25 years to the semiconductor industry and vision in building Applied Materials into a technology pioneer enabling the global information infrastructure."

2001 — CHARLES M. GESCHKE  
Co-Chairman, Adobe Systems  
San Jose, CA, USA

"For many years of inspiring visionary leadership in the software industry related to digital publishing for the World Wide Web, print and dynamic media."

2000 — NORIO OHGA  
Sony Corporation  
Tokyo, Japan

"For visionary leadership in the development of the MiniDisc."

1999 — NOT AWARDED

1998 — SHEILA E. WIDNALL  
Secretary  
United States Air Force  
Washington, DC, USA

"For outstanding leadership to United States Air Force science and technology"

1998 — PAVAGUDA VENKATA INDIRESAN  
President, Indian National Academy  
of Engineering  
New Delhi, India

"For contributions to the growth of electrical engineering in India through his leadership in education, applied research and professional engineering institutions"

1997 — PEKKA J. TARJANNE  
Secretary-General  
International Telecommnucation  
Union  
Geneva, Switzerland

"For outstanding leadership and contributions to the implementation of new working methods and structures for the International Telecommunications Union."

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- 1996 — HIROYUKI MIZUNO  
Matsushita Electric Industrial  
Company  
Osaka, JAPAN  
"For technical leadership in semiconductor research, manufacturing and its application in consumer electronics and for promoting international technical cooperation."
- 1996 — LEON M. LEDERMAN  
Director Emeritus  
Fermilab  
Batavia, IL, USA  
"For his leadership in research and science education and his advocacy of the importance of science education to the intellectual and economic health of society."
- 1995 — LARS H. RAMQVIST  
LM Ericsson  
Stockholm, Sweden  
"For distinguished and far-sighted leadership of the Ericsson Group in a period of rapid technology change and market development."
- 1994 — RALPH E. GOMORY  
(retired - IBM, NY)  
Alfred P. Sloan Foundation  
New York, NY, USA  
"For his outstanding leadership of the research activities of IBM, and the resulting technological benefits to IBM and the computer and semiconductor industries."
- 1994 — MICHEL A. G. CARPENTIER  
Information Market and  
Exploitation Research  
Commission of European  
Communities  
Brussels, Belgium  
"For leadership in pioneering the R&D and policy initiatives at the European Community level in the areas of environment and information and communication technologies."
- 1993 — ROBERT W. GALVIN  
Motorola, Inc.  
Schaumburg, IL, USA  
"For distinguished leadership of Motorola, Inc., and for his many beneficial contributions to quality processes, competitiveness, and public policy."
- 1992 — MARK KRIVOCHEEV  
State Radio Res. Inst.  
Moscow, Russian Federation  
"For technical contributions to television and leadership in developing international standardization."
- 1991 — AKIO MORITA  
SONY Corp.  
Tokyo, Japan  
"For his distinguished leadership of Sony Corporation and the integration of emerging technologies into consumer electronics products."
- 1990 — NOT AWARDED
- 1989 — NOT AWARDED
- 1988 — LUIS W. ALVAREZ  
University of California  
"For the invention and development of the first successful aircraft landing system"

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- Berkeley, CA, USA
- 1987 — GENE H. GOLUB  
Stanford University  
Stanford, CA, USA
- 1987 — ARNO A. PENZIAS  
AT&T Bell Labs.  
Murray Hill, NJ, USA
- 1986 — ARTHUR E. BRYSON, JR.  
Stanford University  
Stanford, CA, USA
- 1985 — HIDEO YAMASHITA  
University of Tokyo  
Tokyo, Japan
- 1984 — M. G. K. MENON  
Government of India  
New Delhi, India
- 1983 - CECIL H. GREEN  
Texas Instruments  
Dallas, TX, USA
- 1982 — WOLFGANG K. H. PANOFSKY  
Stanford Linear Accel. Ctr.  
Stanford, CA, USA
- 1982 — DONALD E. KNUTH
- using ground control radar and the first proton linear accelerator; for numerous discoveries in the field of particle and resonance physics; and for pioneering work on the extraterrestrial impact theory."
- "For improvements in signal processing, modeling, control, and other areas through numerical methods for least-squares estimation and matrix singular value decomposition."
- "For leadership in the research activities of AT&T Bell Laboratories, and for outstanding contributions to radio communications and radio astronomy."
- "For contributions to education and for research in the theory and implementation of optimal control techniques."
- "For contributions to research in computers, for fostering international cooperation in the science and technology of information processing, and for leadership in electrical engineering education."
- "For contributions to the planning and growth of science and technology, particularly electronics, and its application to development; promotion of international scientific cooperation; and experimental research in particle physics and cosmic rays."
- "For creative philanthropy fostering collaboration of educational institutions and industry in the advancement of electrical sciences."
- "For extensive pioneering contributions to the development of linear particle accelerators, advancement of high power microwave technology, and high energy particle physics."
- "For his contributions to the field of

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| Stanford University<br>Stanford, CA, USA                               | computer science, through research and education."  |
| 1982 — BRIAN D. JOSEPHSON<br>Univ. of Cambridge<br>Cambridge, England  | "For his prediction (discovery) of pair tunneling between superconductors which constitutes the basis of a Josephson junction technology for high speed and low power computing elements and memories." |
| 1981 — WALTER H. BRATTAIN<br>Bell Laboratories<br>Murray Hill, NJ, USA | "For significant contributions to fundamental semiconductor physics leading to the invention of the TRANSISTOR."  |
| 1981 — JOHN BARDEEN<br>University of Illinois<br>Urbana, IL, USA       | "For significant contributions to solid state physics leading to the invention of the TRANSISTOR and to the theoretical understanding of superconductivity."  |
| 1981 — EDWIN H. LAND<br>Polaroid Corporation<br>Cambridge, MA, USA     | "For his pioneering work in science and technology of photography and light."   |