

IEEE FREDERIK PHILIPS AWARD
RECIPIENTS

2022 – YUH-JIER (Y.J.) MII
Senior Vice President of Research
& Development, Taiwan
Semiconductor Manufacturing
Company Ltd., Hsinchu, Taiwan

“For leadership in developing industry-
leading foundry logic process technologies
and open innovation design platforms.”

AND

CLIFF HOU
Senior Vice President, Europe and
Asia Sales and Corporate
Research, Research and
Development, Taiwan
Semiconductor Manufacturing
Company Ltd., Hsinchu, Taiwan

2021 – No Award

“For leadership in the development and
materialization of human-centric IoT
technology in the electronics industry.”

2020 – KAZUO YANO
Fellow, Hitachi, Ltd., Tokyo, Japan

2019 – ASAD M. MADNI
Distinguished Adjunct
Professor/Distinguished Scientist,
ECE Department, Faculty Fellow,
Institute of Transportation Studies,
University of California Los
Angeles, California, USA

“For leadership in and pioneering
contributions to the development and
commercialization of sensors and systems
for aerospace and automotive safety.”

2018 - IAN A. YOUNG
Senior Fellow, Intel Corporation,
Hillsboro, Oregon, USA

“For leadership in research and development
on circuits and processes for the evolution of
microprocessors.”

2017 - GARY L. PATTON
CTO & Head of Worldwide R&D,
GLOBALFOUNDRIES, Malta, New
York, USA

“For industry influence and leadership in the
development of leading-edge
microelectronics technology and
collaborative research.”

2016 – KELIN J. KUHN
Professor, Cornell University,
Ithaca, New York, USA

“For technical leadership in the development
and implementation of breakthrough CMOS
technology.”

2015 - BENEDETTO VIGNA
Executive Vice President and
General Manager, Analog, MEMS &
Sensors Group, STMicroelectronics,
Geneva, Switzerland

“For leadership in conceiving, developing,
and commercializing micro-electro-
mechanical systems (MEMS).”

2014 - HENRY T. NICHOLAS, III

“For exemplary leadership and

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- Retired, Newport, CA, USA
entrepreneurial vision in the commercialization of communications semiconductors that enable ubiquitous broadband connectivity.”
- 2013 - WILLIAM M. HOLT
Senior Vice President and General Manager, Technology and Manufacturing Group, Intel Corporation, Hillsboro, OR, USA
“For leadership in the development and high-volume manufacturing of leading-edge logic technologies.”
- 2012 - CHIH-YUAN (C.Y.) LU
President, Macronix International Co., Ltd., Hsin-Chu, Taiwan
“For leadership and contributions to research, development and industrial alliances in semiconductor technology.”
- 2011 - DIM-LEE KWONG
Executive Director, Institute of Microelectronics, Singapore Science Park II, Singapore
“For leadership in silicon technology and excellence in the management of microelectronics R&D.”
- 2010 – JOHN E. KELLY III
IBM Sr. VP & Director of Research IBM Research
Yorktown Heights, NY, USA
“For leadership in the development and commercialization of silicon technology and for forging industry-university partnerships for semiconductor research and development.”
- 2009 – SHOJIRO ASAI
Executive VP and Member of the Board, Rigaku Corporation, Tokyo, Japan
“For leadership in research and development in electron device technologies and their applications.”
- 2008 - GILBERT J. DECLERCK
President and Chief Executive Officer, IMEC, Leuven, Belgium
“For leadership in the creation of international R&D alliances in semiconductor technologies.”
- 2007 – YONG-KYUNG (KENNETH) LEE
KT R&D Laboratories, Seoul, Korea
“For leadership in the management of research and development of broadband networks and the promotion of international collaboration.”
- 2006 - LOUIS C. PARRILLO
President, Parrillo Consulting, LLC, Austin, TX, USA
“For leadership in advancing CMOS and Bipolar technology through technical and managerial contributions.”
- 2005 – HIROYOSHI KOMIYA
Senior Advisor, Tokyo Seimitsu Co., Ltd
“For leadership in R&D and driving international cooperation leading to the next generation of silicon wafers.”

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Tokyo, Japan

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| 2004 – YOUSSEF ALY EL-MANSY
Vice-President of Tech. &
Manufacturing Group, and Director
of Logic Tech. Development, Intel
Corp.,
Hillsboro, OR, USA | "For leadership in developing state-of-the-art logic technologies for high performance/high volume general purpose microprocessors." |
| 2003 - THOMAS ROWBOTHAM
Venture Partner, St. Paul Venture
Capital,
Westboro, MA, USA | "For leadership in advancing satellite, microwave and optical fiber transmission systems and in promoting commercialization and international collaboration in telecommunications research and development." |
| 2002 – TOSHIHARU AOKI
NTT Data Corporation
Tokyo, Japan | "For leadership of research & development contributing to world-wide advances in digital switching, network intelligence and broadband communications." |
| 2001 - ARUN N. NETRAVALI
Lucent Technologies
Murray Hill, NJ USA | "For leadership in research and development leading to rapid deployment of advanced technologies into new communications systems and high-definition television." |
| 2000 - GERALD MICHAEL BORSUK
Naval Research Laboratory
Washington, DC, USA | "For managerial and technical leadership in directing the creation and transition of new materials and devices into electronic systems." |
| 1999 - ROGER J. VAN OVERSTRAETEN
IMEC
Leuven, Belgium | "For leadership in the creation and management of the Interuniversity Microelectronics Center (IMEC)." |
| 1998 - LARRY W. SUMNEY
Semiconductor Research
Corporation
Research Triangle Park, NC, USA | "For leading a pioneering cooperative industry-university research effort in silicon technology." |
| AND
WILLIAM C. HOLTON
North Carolina State University
Raleigh, NC, USA | |
| AND
ROBERT M. BURGER
North Carolina State University
Raleigh, NC, USA | |
| 1997 - ROLAND P.O. HUBER | "For outstanding leadership in Pan European |

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| European Commission
Brussels, Belgium | research collaboration in communications networks and services." |
| 1996 - MICHİYUKI UENOHARA (Retired)
NEC Research Institute
Tokyo, Japan | "For fostering cooperative R&D management and advancement of microelectronics technology." |
| 1995 - JAMES C. MCGRODDY
IBM/T. J. Watson Research Center
Yorktown Heights, NY, USA | "For leadership in the efficient and successful transfer of technology from research into products." |
| 1994 - MINORU NAGATA
Hitachi Central Research Lab.
Tokyo, Japan | "For leadership in research and development of silicon integrated circuits, and fostering international information exchange." |
| 1993 - MAX TIBOR WEISS
Northrop Corp.
Los Angeles, CA, USA | "For leadership in building electronics research and engineering organizations for the development and operation of national security space systems." |
| 1992 - ALAN GERALD CHYNOWETH
Bell Communications Research
Morristown, NJ, USA | "For contributions to industrial research management, and fostering the relationship between research, industry, universities and government." |
| 1991 - GENE STRULL
Westinghouse Electric Corp.
Baltimore, MD, USA | "For outstanding accomplishment in the management of microelectronics and integrated circuit developments and their applications to aerospace systems." |
| 1990 - RAJINDER J. KHOSLA
Eastman Kodak Co.
Rochester, NY, USA | "For initiating and leading the development of a microelectronics program that led to his company's preeminence in high-density imaging sensors." |
| 1989 - KLAUS D. BOWERS
AT&T Bell Labs
Murray Hill, NJ, USA | "For the management of research and development leading to innovations in solid-state electronics." |
| 1988 - GEORGE F. SMITH
Hughes Aircraft Co.
Malibu, CA, USA | "For successful leadership of an industrial research laboratory resulting in innovative contributions in electronics and electro-optics." |
| 1987 - SOLOMON J. BUCHSBAUM
AT&T Bell Labs
Holmdel, NJ, USA | "For the management of the development of advanced communications and defense systems." |
| 1986 - WILLIAM C. HITTINGER | "For leadership in electronics research and |

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| RCA Corp.
Princeton, NJ, USA | development." |
| 1985 - GEORGE HEILMEIER
Texas Instruments
Dallas, TX, USA | "For innovative accomplishments in the direction of industrial and government research and development." |
| 1984 - JOHN K. GALT
Sandia Labs.
Albuquerque, NM, USA | "For managerial leadership that resulted in the understanding of the physics and chemistry of III-V compounds associated with the concepts of luminescence, of heterostructure devices, and of the molecular beam epitaxial process." |
| 1983 - ALLEN E. PUCKETT
Hughes Aircraft Co.
Los Angeles, CA, USA | "For foresight and judgment in the management of research and development leading to significant advances in communication satellite systems." |
| 1982 - WERNER J. KLEEN
European Space Agency
Munich, Germany | "For technical and managerial roles in the development and manufacture of microwave tubes in Europe." |
| 1981 - DEAN A. WATKINS
Watkins-Johnson Company
Palo Alto, CA, USA | "For managerial leadership in research and development of traveling-wave tubes." |
| 1980 - WILLIAM M. WEBSTER
RCA Labs
Princeton, NJ, USA | "For sustained leadership in the management of research and development." |
| 1979 - GORDON E. MOORE
INTEL Corp.
Santa Clara, CA, USA | "For effective direction of research and development in silicon integrated circuit technology." |
| 1978 - WILLIAM EARL SHOUPP
Westinghouse & Nat'l Academy of
Engrg.
Washington, DC, USA | "For organizational ability in managing electronics and nuclear energy research and development, particularly in development of the first submarine atomic power plant." |
| 1977 - NO AWARD | |
| 1976 - KOJI KOBAYASHI
Nippon Electric Co., Ltd.
Tokyo, Japan | "For leadership in the management of research, development, and the production of telecommunication and electronic systems." |
| 1975 - C. LESTER HOGAN
Fairchild Corp. | "For outstanding accomplishments in the management of research and development |

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Mountain View, CA, USA

resulting in important innovation in the semiconductor device industry."

1974 -CHAUNCEY GUY SUITS
General Electric
Schenectady, NY, USA

"For his leadership in guiding the research efforts of a major technologically diversified industrial company."

1973 - JOHN H. DESSAUER
Xerox Corp.
New York, NY, USA

"For his pioneering research and development efforts and outstanding accomplishments in the field of xerography."

1972 - WILLIAM O. BAKER
Bell Labs
Murray Hill, NJ, USA

"For leadership of an industrial laboratory where pioneering research was used to create a wide spectrum of new technology throughout the telecommunication industry."

1971 - FREDERIK J. PHILIPS

"For fostering management of research and development that has been effective in the creation of numerous new products."