<table>
<thead>
<tr>
<th>Year</th>
<th>Name</th>
<th>Affiliation</th>
<th>Citation</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020</td>
<td>KAZUO YANO</td>
<td>Fellow, Hitachi, Ltd., Tokyo, Japan</td>
<td>&quot;For leadership in the development and materialization of human-centric IoT technology in the electronics industry.&quot;</td>
</tr>
<tr>
<td>2019</td>
<td>ASAD M. MADNI</td>
<td>Distinguished Adjunct Professor/Distinguished Scientist, ECE Department, Faculty Fellow, Institute of Transportation Studies, University of California Los Angeles, California, USA</td>
<td>&quot;For leadership in and pioneering contributions to the development and commercialization of sensors and systems for aerospace and automotive safety.&quot;</td>
</tr>
<tr>
<td>2018</td>
<td>IAN A. YOUNG</td>
<td>Senior Fellow, Intel Corporation, Hillsboro, Oregon, USA</td>
<td>&quot;For leadership in research and development on circuits and processes for the evolution of microprocessors.&quot;</td>
</tr>
<tr>
<td>2017</td>
<td>GARY L. PATTON</td>
<td>CTO &amp; Head of Worldwide R&amp;D, GLOBALFOUNDRIES, Malta, New York, USA</td>
<td>“For industry influence and leadership in the development of leading-edge microelectronics technology and collaborative research.”</td>
</tr>
<tr>
<td>2016</td>
<td>KELIN J. KUHN</td>
<td>Professor, Cornell University, Ithaca, New York, USA</td>
<td>“For technical leadership in the development and implementation of breakthrough CMOS technology.”</td>
</tr>
<tr>
<td>2015</td>
<td>BENEDETTO VIGNA</td>
<td>Executive Vice President and General Manager, Analog, MEMS &amp; Sensors Group, STMicroelectronics, Geneva, Switzerland</td>
<td>“For leadership in conceiving, developing, and commercializing micro-electromechanical systems (MEMS).”</td>
</tr>
<tr>
<td>2014</td>
<td>HENRY T. NICHOLAS, III</td>
<td>Retired, Newport, CA, USA</td>
<td>“For exemplary leadership and entrepreneurial vision in the commercialization of communications semiconductors that enable ubiquitous broadband connectivity.”</td>
</tr>
<tr>
<td>2013</td>
<td>WILLIAM M. HOLT</td>
<td>Senior Vice President and General Manager, Technology and Manufacturing Group, Intel Corporation, Hillsboro, OR, USA</td>
<td>“For leadership in the development and high-volume manufacturing of leading-edge logic technologies.”</td>
</tr>
<tr>
<td>2012</td>
<td>CHIH-YUAN (C.Y.) LU</td>
<td>President, Macronix International Co., Ltd., Hsin-Chu, Taiwan</td>
<td>“For leadership and contributions to research, development and industrial alliances in semiconductor technology.”</td>
</tr>
</tbody>
</table>
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 Tokyo, Japan  
“For leadership in R&D and driving international cooperation leading to the next generation of silicon wafers.”

2004 – YOUSSEF ALY EL-MANSY  
Vice-President of Tech. & Manufacturing Group, and Director of Logic Tech. Development, Intel Corp., Hillsbоро, 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  
AND  
WILLIAM C. HOLTON  
North Carolina State University  
Raleigh, NC, USA  
AND  
ROBERT M. BURGER  
North Carolina State University  
Raleigh, NC, USA  
“For leading a pioneering cooperative industry-university research effort in silicon technology.”

1997 - ROLAND P.O. HUBER  
European Commission  
Brussels, Belgium  
“For outstanding leadership in Pan European research collaboration in communications networks and services.”

1996 - MICHIYUKI 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.”
<table>
<thead>
<tr>
<th>Year</th>
<th>Name and Company</th>
<th>Company Location</th>
<th>Citation</th>
</tr>
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<tbody>
<tr>
<td>1993</td>
<td>MAX TIBOR WEISS</td>
<td>Northrop Corp.</td>
<td>Los Angeles, CA, USA</td>
</tr>
<tr>
<td>1992</td>
<td>ALAN GERALD CHYNOWETH</td>
<td>Bell Communications Research</td>
<td>Morristown, NJ, USA</td>
</tr>
<tr>
<td>1991</td>
<td>GENE STRULL</td>
<td>Westinghouse Electric Corp.</td>
<td>Baltimore, MD, USA</td>
</tr>
<tr>
<td>1990</td>
<td>RAJINDER J. KHOSLA</td>
<td>Eastman Kodak Co.</td>
<td>Rochester, NY, USA</td>
</tr>
<tr>
<td>1989</td>
<td>KLAUS D. BOWERS</td>
<td>AT&amp;T Bell Labs</td>
<td>Murray Hill, NJ, USA</td>
</tr>
<tr>
<td>1988</td>
<td>GEORGE F. SMITH</td>
<td>Hughes Aircraft Co.</td>
<td>Malibu, CA, USA</td>
</tr>
<tr>
<td>1987</td>
<td>SOLOMON J. BUCHSBAUM</td>
<td>AT&amp;T Bell Labs</td>
<td>Holmdel, NJ, USA</td>
</tr>
<tr>
<td>1986</td>
<td>WILLIAM C. HITTINGER</td>
<td>RCA Corp.</td>
<td>Princeton, NJ, USA</td>
</tr>
<tr>
<td>1985</td>
<td>GEORGE HEILMEIER</td>
<td>Texas Instruments</td>
<td>Dallas, TX, USA</td>
</tr>
<tr>
<td>1984</td>
<td>JOHN K. GALT</td>
<td>Sandia Labs.</td>
<td>Albuquerque, NM, USA</td>
</tr>
</tbody>
</table>
IEEE FREDERIK PHILIPS AWARD
RECIPIENTS

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.
Mountain View, CA, USA
"For outstanding accomplishments in the management of research and development 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
"For leadership of an industrial laboratory"
IEEE FREDERIK PHILIPS AWARD
RECIPIENTS

Bell Labs
Murray Hill, NJ, USA

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."