IEEE currently bestows a Medal of Honor, fifteen Medals, thirty-three Technical Field Awards, two IEEE Service Awards, two Corporate Recognitions, two Prize Paper Awards, Honorary Memberships, one Scholarship, one Fellowship, and a Staff Award. The awards and their past recipients are listed below.

To view citations and additional recipient information, please click on the PDF link “Award Recipients with Citations” under the name of each award, medal, or recognition.

MEDAL OF HONOR
Award Recipients with Citations (PDF, 26 KB)

The IEEE Medal of Honor is the highest IEEE award. The Medal was established in 1917 and is awarded for an exceptional contribution or an extraordinary career in the IEEE fields of interest. The IEEE Medal of Honor is the highest IEEE award. The candidate need not be a member of the IEEE. The IEEE Medal of Honor is sponsored by the IEEE Foundation.

E. H. Armstrong 1917
E. F. W. Alexanderson 1919
Guglielmo Marconi 1920
R. A. Fessenden 1921
Lee deforest 1922
John Stone-Stone 1923
M. I. Pupin 1924
G. W. Pickard 1926
L. W. Austin 1927
Jonathan Zenneck 1928
G. W. Pierce 1929
P. O. Pedersen 1930
G. A. Ferrie 1931
A. E. Kennelly 1932
J. A. Fleming 1933
S. C. Hooper 1934
Balth. van der Pol 1935
G. A. Campbell 1936
Melville Eastham 1937
J. H. Drellinger 1938
A. G. Lee 1939
Lloyd Espenschied 1940
A. N. Goldsmith 1941
A. H. Taylor 1942
William Wilson 1943
Haraden Pratt 1944
H. H. Beverage 1945
R. V. L. Hartley 1946
No Award 1947
L. C. F. Horde 1948
Ralph Brown 1949
F. E. Terman 1950
V. K. Zworykin 1951
W. R. G. Baker 1952
J. M. Miller 1953
W. L. Everitt 1954
H. T. Friis 1955
J. V. L. Hogan 1956
J. A. Stratton 1957
A. W. Hull 1958
E. L. Chaffee 1959
Harry Nyquist 1960
Ernst A. Guillemin 1961
Edward V. Appleton 1962
John H. Hammond, Jr. 1963
George C. Southworth 1963
Harold A. Wheeler 1964
Claude E. Shannon 1966
Charles H. Townes 1967
Gordon K. Teal 1968
Edward L. Ginzton 1969
Dennis Gabor 1970
John Bardeen 1971
Jay W. Forrester 1972
Rudolf Kompfner 1973
Rudolf E. Kalman 1974
John R. Pierce 1975
H. Earle Vaughan 1977
Robert N. Noyce 1978
Richard Bellman 1979
William Shockley 1980
Sidney Darlington 1981
John Wilder Tukey 1982
Nicolaas Bloembergen 1983
Norman F. Ramsey 1984
John R. Whinnery 1985
Jack St. Clair Kilby 1986
Paul C. Lauterbur 1987
Calvin F. Quate 1988
C. Kumar N. Patel 1989
Robert G. Gallager 1990
Leo Esaki 1991
Amos E. Joel, Jr. 1992
Karl Johan Åström 1993
Alfred Y. Cho 1994
Lofti A. Zadeh 1995
Robert M. Metcalfe 1996
George H. Heilmeier 1997
Donald O. Pederson 1998
Charles Concoridia 1999
Andrew S. Grove 2000
Herwig Kogelnik 2001
Herbert Kroemer 2002
Nick Holonyak, Jr. 2003
Tadahiro Sekimoto 2004
James L. Flanagan 2005
James D. Meindl 2006
Thomas Kailath 2007
Gordon E. Moore 2008
Robert H. Dennard 2009
Andrew J. Viterbi 2010
Morris Chang 2011
John Hennessy 2012
Irwin Mark Jacobs 2013
B. Jayant Baliga 2014
Mildred Dresselhaus 2015
G. David Forney 2016
Kornelis (Kees) A. Schouhamer Immink 2017
Bradford W. Parkinson 2018
Kurt E. Petersen 2019
Chenming Hu 2020
**IEEE MAJOR MEDALS**

**Alexander Graham Bell Medal**

*Award Recipients with Citations (PDF, 12 KB)*

The IEEE Alexander Graham Bell Medal was established in 1976 and is awarded for exceptional contributions to communications and networking sciences and engineering. The Medal is sponsored by Nokia Bell Labs.

Amos E. Joel, Jr. 1976
William Keister 1976
Raymond W. Ketchledge 1976
Eberhardt Rechtin 1977
M. Robert Aaron 1978
John S. Mayo 1978
Eric E. Sumner 1978
Christian Jacobaeus 1979
Richard R. Hough 1980
David Slepian 1981
Harold A. Rosen 1982
Stephen O. Rice 1983
Andrew J. Viterbi 1984
Charles K. Kao 1985
Eric E. Sumner 1986
Joel S. Engel 1987
Richard H. Frenkiel 1987
William C. Jakes, Jr. 1988
Robert M. Metcalf 1988
Gerald R. Ash 1989
Billy B. Oliver 1989
Paul Baran 1990
C. Chapin Cutler 1991
John O. Limb 1991
Arun N. Netravali 1991
Harold A. Rosen 1992
Arun N. Netravali 1992
John Wozencraft 2005
Kurt H. Arnold 2006
Budtey C. D. 2007
Hamid Reza Poor 2008
Sobhan Saberi 2009
Rodney A. Kennedy 2010
Dariush Divsalar 2011
Frank Kelly 2012
Robert Padovani 2013
H. Vincent Poor 2014
Nambirajan Seshadri 2015
Teresa Huai-Ying Meng 2016

**Frances E. Allen Medal**

The IEEE Frances E. Allen Medal was established in 2020 and is presented for innovative work in computing leading to lasting impact on other fields of engineering, technology, or science. The Medal is sponsored by IBM.

Kristina M. Johnson 2021

**Mildred Dresselhaus Medal**

The IEEE Mildred Dresselhaus Medal was established in 2019 and is presented for outstanding technical contributions in science and engineering, of great impact to IEEE fields of interest. The Medal is sponsored by Google.

**Edison Medal**

*Award Recipients with Citations (PDF, 74 KB)*

The IEEE Edison Medal was established in 1904 and is presented for a career of meritorious achievement in electrical science, electrical engineering or the electrical arts. The Medal is sponsored by Samsung Electronics Co., Ltd.

Elihu Thomson 1909
Frank J. Sprague 1910
George Westinghouse 1911
William Stanley 1912
Charles F. Brush 1913
Alexander Graham Bell 1914
Nikola Tesla 1916
John J. Carty 1917
Benjamin G. Lamme 1918
W. L. R. Emmet 1919
Michael I. Pupin 1920
Cummings C. Chesney 1921
Robert A. Millikan 1922
John W. Lieb 1923
John W. Howell 1924
Harris J. Ryan 1925
William D. Coolidge 1927
Frank B. Jewett 1928
Charles F. Scott 1929
E. W. Rice, Jr. 1930
Bancroft Gherardi 1932
Arthur E. Kennelly 1933
Willis R. Whitney 1934
Lewis B. Stillwell 1935
Alex Dow 1936

Page 2 of 28
Gano Dunn 1937
Dugald C. Jackson 1938
Philip Torchio 1939
George A. Campbell 1940
John B. Whitehead 1941
Edwin H. Armstrong 1942
Vannevar Bush 1943
E. R. W. Alexanderson 1944
Philip Sporn 1945
Lee de Forest 1946
Joseph Slepian 1947
Morris E. Leeds 1948
Karl B. McEachron 1949
Otto B. Blackwell 1950
Charles F. Wagner 1951
Vladimir K. Zworykin 1952
John F. Peters 1953
Oliver E. Buckley 1954
Leonid A. Umansky 1955
Comfort A. Adams 1956
John K. Hodnette 1957
Charles F. Kettering 1958
James F. Fairman 1959
Harold S. Osborne 1960
William B. Kouwenhoven 1961
Alexander C. Monteith 1962
John R. Pierce 1963
Schedule revised 1964*
Walker L. Cisler 1965
Wilmer L. Barrow 1966
George H. Brown 1967
Charles F. Avila 1968
Hendrik W. Bode 1969
Howard H. Aiken 1970
John W. Simpson 1971
William H. Pickering 1972
B. D. H. Tellegen 1973
Jan A. Rajchman 1974
Sidney Darlington 1975
Murray Joslin 1976
Henri Busignies 1977
Daniel E. Noble 1978
Albert Rose 1979
Robert Adler 1980
C. Chapin Cutler 1981
Nathan Cohn 1982
Herman P. Schwab 1983
Eugene I. Gordon 1984
John D. Kraus 1985
James L. Flanagan 1986
Robert A. Henle 1987
James Ross Macdonald 1988
Nick Holonyak, Jr. 1989
Archie W. Straiton 1990
John Louis Moll 1991
G. David Forney, Jr. 1992
James H. Pomerene 1993
Leslie A. Geddes 1994
Robert W. Lucky 1995
Floyd Dunn 1996
Esther M. Conwell 1997
Rolf Landauer 1998
Kees A. Schouhamer Immink 1999
Jun-ichi Nishizawa 2000
Robert H. Dennard 2001
Ed Hammer 2002
No Award 2003
Federico Capasso 2004
Peter Lawrenson 2005
Fawwaz T. Ulaby 2006
Russell D. Dupuis 2007
Dov Frohman-Bentchkowsky 2008

Tingye Li 2009
Ray Dolby 2010
Isamu Akasaki 2011
Michael F. Tompsett 2012
Ivan Paul Kaminov 2013
Ralph H. Baer 2014
James Julius Spilker, Jr. 2015
Robert W. Brodersen 2016
Magnus George Craford 2017
Eli Yablonovitch 2018
Ursula Keller 2019
Freda Blaabjerg 2020
Kenichi Iga 2021

(*) Date of selection changed to date of presentation.

**Medal for Engineering Excellence**

The Medal for Engineering Excellence was established in 1986 and is presented for exceptional achievement in application engineering in the technical disciplines of the IEEE, for the benefit of the public and the engineering profession. The medal was discontinued in November 2009.

Karl E. Martersteck, Jr. 1988
Walter A. Elmore 1989
John A. Pierce 1990
Alexander Feiner 1991
Charles Elachi 1992
Bernard C. DeLoach, Jr. 1993
Richard W. Dixon 1993
Robert L. Hartman 1993
Heiner Sussner 1994
Masasuke Morita 1995
John R. Dunki-Jacobs 1996
John G. Anderson 1997
C. James Erickson 1998
Kiyoji Morii 1999
Cyril G. Veinott 2000
L. Bruce McClung 2001
No Award 2002
Ralph S. Gens 2003
Richard L. Doughty 2004
H. Landis Floyd 2004
Thomas E. Neal 2004
No Award 2005
No Award 2006
No Award 2007
No Award 2008
No Award 2009

**Medal for Environmental and Safety Technologies**

Award Recipients with Citations (PDF, 01 KB)

The IEEE Medal for Environmental and Safety Technologies was established in 2008 and is awarded for outstanding accomplishments in the application of technology in the fields of interest to the IEEE that improve the...
environment and/or public safety. The medal is sponsored by Toyota Motor Corporation.

Larry Chalfan 2010
Viccy Salazar 2010
Wayne F. Rifer 2010
Shoichi Sasaki 2011
John B. Goodenough 2012
Rachid Yazami 2012
Akira Yoshino 2012
Tsuneo Takahashi 2013
No award 2014
Rodolfo Schoeneburg 2015
Marica Paurevic 2015
Hans Weisbarth 2015
Masahiko Miyaki 2016
Yukihiro Shinohara 2016
Katsuhiyo Takeuchi 2016
Alberto Broggi 2017
Jerome Faist 2018
Frank Klaus Tittel 2018
Richard Nune 2019
Ray Corson 2019
James Gordon Barrick, Jr. 2019
Nancy Leveson 2020
Kaushik Rajashekara 2021

**Founders Medal**

**Award Recipients with Citations** (PDF, 35 KB)

The IEEE Founders Medal was established in 1952 and is awarded for outstanding contributions in the leadership, planning, and administration of affairs of great value to the electrical and electronics engineering profession. The Medal is sponsored by the IEEE Foundation.

David Sarnoff 1953
Alfred N. Goldsmith 1954
Raymond A. Heising 1957
W. R. G. Baker 1958
Haraden Pratt 1960
Ralph Bown 1961
Frederick E. Terman 1963
Andrew G. L. McNaughton 1964
Elmer W. Engstrom 1966
Harvey Fletcher 1967
Patrick H. Haggerty 1968
E. Finley Carter 1969
Morris O. Hooven 1970
Ernst Weber 1971
Masaru Ibuka 1972
William R. Hewlett 1973
David Packard 1973
Lawrence A. Hyland 1974
John G. Brainerd 1975
Edward W. Herold 1976
Jerome B. Weisner 1977
Donald G. Fink 1978
Hanzo Omi 1979
Simon Ramo 1980
James Hillier 1981
Shigeru Yonezawa 1982
Joseph M. Pettit 1983
Koji Kobayashi 1984
William C. Norris 1985

George H. Heilmeier 1986
James B. Owens 1987
Ian M. Ross 1988
Ivan A. Getting 1989
Erich Bloch 1990
Irwin Dorous 1991
Roland W. Schmitt 1992
Kenneth H. Olsen 1993
Akio Morita 1994
Malcolm R. Currie 1995
Norman R. Augustine 1996
Gordon E. Moore 1997
Alan W. Rudge 1998
Benjamin M. Rosen 1999
Robert W. Galvin 2000
Robert A. Frosch 2001
Thomas E. Everhart 2002
Ray Stata 2003
Mildred Dresselhaus 2004
Eugene Wong 2005
Toshiharu Aoki 2006
Anita K. Jones 2007
Steven B. Sample 2008
Craig R. Barrett 2009
Paul E. Gray 2010
James F. Gibbons 2011
Faqir Chand Kohli 2012
Leo Beranek 2013
Eric Schmidt 2014
James Plummer 2015
No Award 2016
Takeo Kanade 2017
N.R. Narayana Murthy 2018
Robin Keith Saxby 2019
Jen-Hsun Huang 2020
Henry Samueli 2021

**Richard W. Hamming Medal**

**Award Recipients with Citations** (PDF, 22 KB)

The IEEE Richard W. Hamming Medal was established in 1986 and is presented for exceptional contributions to information sciences, systems and/or technology. The Medal is sponsored by Qualcomm, Inc.

Richard W. Hamming 1986
Irving S. Reed 1989
Dennis M. Ritchie 1990
Kenneth L. Thompson 1990
Elwyn R. Berlekamp 1991
Lotfi A. Zadeh 1992
Jorma Rissanen 1993
Gottfried Ungerboeck 1994
Jacob Ziv 1995
Mark S. Pinsker 1996
Richard W. Hamming 1988
Peter Elias 2002
Claude Berrou 1990
Alain Glavieux 2003
Jack Keil Wolf 2004
Neil J. A. Sloane 2005
Vladimir I. Levenshtein 2006
Abraham Lempel 2007
Heinrich Hertz Medal

The IEEE Heinrich Hertz Medal was established in 1987 and is awarded for outstanding achievements in electromagnetic waves. The medal was discontinued in November 2009.

Nathan Marcuvitz 1989
John D. Kraus 1990
Leopold B. Felsen 1991
James R. Wait 1992
Kenneth G. Budden 1993
Ronald N. Bracewell 1994
Jean Van Bladel 1995
Martin A. Uman 1996
L. R. Owen Storey 1997
Chen-To Tai 1998
Akira Ishimaru 1999
Arthur A. Oliner 2000
Adrianus T. De Hoop 2001
No Award 2002
No Award 2003
No Award 2004
No Award 2005
No Award 2006
No Award 2007
No Award 2008

Medal for Innovations in Healthcare Technology

The IEEE Medal for Innovations in Healthcare Technology was established in 2009 and is presented for exceptional contributions to technologies and applications benefitting healthcare, medicine, and the health sciences. The medal is sponsored by the IEEE Engineering in Medicine and Biology Society.

Ronald Nutt 2010
David Townsend 2010
Harrison H. Barrett 2011
Savio L.Y. Woo 2012

Jack S. Kilby Signal Processing Medal

The IEEE Jack S. Kilby Signal Processing Medal was established in 1995 and is presented for outstanding achievements in signal processing. The Medal is sponsored by the Kilby Medal Fund.

Bernard Gold 1997
Charles M. Rader 1997
Thomas G. Stockham 1998
Lawrence R. Rabiner 1999
James F. Kaiser 2000
Thomas S. Huang 2001
James W. Cooley 2002
Hans W. Schuessler 2003
Thomas W. Parks 2004
James H. McClellan 2004
Fumitada Itakura 2005
Thomas Kailath 2006
Alan V. Oppenheim 2007
Robert M. Gray 2008
Charles Sidney Burrus 2009
Ronald Schafer 2010
Ingrid Daubechies 2011
Clifford Carter 2012
Bishnu S. Atal 2013
Thomas P. Barnwell, III 2014
Harry L. Van Trees 2015
Louis Scharf 2016
Martin Vetterli 2017
Bede Liu 2018
Alan Willsky 2019
Ramalingam Chellappa 2020
Emmanuel Candès 2021
Terence Tao 2021

Lamme Medal

The IEEE Lamme Medal was established in 1928 and is presented for meritorious achievement in the development of electrical or electronic power apparatus or systems. The award was discontinued in August 2008.

Allan Bertram Field 1928
Rudolf E. Hellmund 1929
William J. Foster 1930
Giuseppe Faccioli 1931
Edward Weston 1932
Lewis B. Stillwell 1933
Henry E. Warren 1934
Vannevar Bush 1935
Frank Conrad 1936
Robert E. Doherty 1937
The IEEE James H. Mulligan, Jr. Education Medal was established in 1956 and is awarded for a career of outstanding contributions to education in the fields of interest of IEEE. The medal was renamed in 1999 in honor of James H. Mulligan, Jr. The medal is sponsored by MathWorks, Pearson, and the IEEE Life Members Fund.

F. E. Terman 1956
W. L. Everitt 1957
J. F. Calvert 1958
G. S. Brown 1959
Ernst Weber 1960
George F. Corcoran 1961
Ernst A. Guillemin 1962
William G. Dow 1963
B. R. Teare, Jr. 1964
Hugh H. Skilling 1965
William H. Huggins 1966
John R. Whinnery 1967
Edward C. Jordan 1968
Donald O. Pederson 1969
Jacob Millman 1970
Franz Oellendorff 1971
M. E. Van Valkenburg 1972
Lotfi A. Zadeh 1973
John G. Truxal 1974
Charles A. Desoer 1975
John G. Linvill 1976
Robert M. Fano 1977
Harold A. Peterson 1978
John R. Ragazzini 1979
Aldert van der Ziel 1980
Ernest S. Kuh 1981
King-Sun Fu 1982
Mischa Schwartz 1983
Athanasios Papoulis 1984
James F. Gibbons 1985
Richard B. Adler 1986
Joseph W. Goodman 1987
Alan V. Oppenheim 1988
Ben G. Streetman 1989
Sanjit K. Mitra 2006
The IEEE Jun-ichi Nishizawa Medal was established in 2002 and is awarded for outstanding contributions to material and device science technology, including practical application. The medal is sponsored by the Federation of Electric Power Companies, Japan.

- Frederick H. Dill 2004
- Jerry M. Woodall 2005
- Hideo Sunami 2006
- Mitsumasa Koyanagi 2006
- Kiyoo Itoh 2006
- Nicolaas Frans De Rooij 2007
- Wolfgang Helfrich 2008
- Martin Schadt 2008
- James Fergason 2008
- Chenming Hu 2009
- Richard M. Swanson 2010
- Bernard Lechner 2011
- Peter Brody 2011
- Fang-Chen Luo 2011
- Mark T. Bohr 2012
- Robert S. Chau 2012
- Tahir Ghanvi 2012
- Burin Lin 2013
- Franz Laermer 2014
- Andrea Urban 2014
- Dimitri Antoniadis 2015
- Masayoshi Esashi 2016
- Ching W. Tang 2017
- Stephen R. Forrest 2017
- Mark Thompson 2017
- Joe C. Campbell 2018
- Yasuhiro Arakawa 2019
- Pallab Bhattacharya 2019
- Dieter Bimberg 2019
- Paul Daniel Depkus 2020
- James J. Coleman 2021

**Dennis J. Picard Medal for Radar Technologies and Applications**

The IEEE Dennis J. Picard Medal for Radar Technologies and Applications was established in 1999 and is awarded for outstanding accomplishments in advancing the fields of radar technologies and their applications. The medal is sponsored by Raytheon Company.

- Merrill Skolnik 2000
- Fritz Steudel 2001
- David K. Barton 2002
- William A. Skillman 2003
- David Atlas 2004
- William J. Caputi, Jr. 2005
- Eli Brookner 2006
- Russell K. Raney 2007
- Yaakov Bar-Shalom 2008
- Philip M. Woodward 2009
- Alfonso Farina 2010
- James Headrick 2011
- Karl Gerlach 2012
- Michael Wicks 2013
- Yuri Abramovich 2014
- Marshall Greenspan 2015
- Nadav Levanon 2016
- Hugh Griffiths 2017
- Mark Edward Davis 2018
- Richard Klemm 2019
- Joseph R. Guerci 2020
- Simon Haykin 2021

**Robert N. Noyce Medal**

The IEEE Robert N. Noyce Medal was established in 1999 and is awarded for exceptional contributions to the microelectronics industry. The medal is funded in perpetuity through an endowment from Intel Corporation.

- Morris Chang 2000
- Hajime Sasaki 2001
- Yoshio Nishi 2002
- Donald R. Scifres 2003
- Craig R. Barrett 2004
- Wilfred J. Corrigan 2005
- Shojiro Yoshida 2006
- Aart J. De Geus 2007
- Paul R. Gray 2008
- Elyahu Harari 2009
- James C. Morgan 2010
- Pasquale Pistorio 2011
- Yoon-Woo Lee 2012
- Sunlin Chou 2013
- Youssef A. El-Mansy 2013
- John E. Kelly, III 2014
- Martin van den Brink 2015
- Takeuo Sugano 2016
- Henry I. Smith 2017
- Tsugio Makimoto 2018
- Antun Domic 2019
- Susumu Kohyama 2020
- Lisa Su 2021

**Medal in Power Engineering**

The IEEE Medal in Power Engineering was established in 1999 and is awarded for exceptional contributions to the power systems industry. The medal is sponsored by the IEEE Power Engineering Society.

- Junichi Nishizawa 2000
- James R. Allan 2001
- Dean C. Karnopp 2002
- Nikos P. Papanikolau 2003
- Trond Solberg 2004
- Claudio A. Canizares 2005
- Kazuo Kuroki 2006
- Ramesh Raskar 2007
- H.songnam Park 2008
- Michel M. Mansour 2009
- Paul M. Barlow 2010
- Minh H. Tran 2011
- Romeo I. Mucha 2012
- Robert S. Balogh 2013
- Henry L. Garner 2014
- Andreas J. Miloro 2015
- Fabio Felps 2016
- Michael A. Pai 2017
- Juan Qian 2018
- Frank C. M. Fthenakis 2019
- Peter E. Uhlmann 2020
- Michael C. Zanini 2021
The IEEE Simon Ramo Medal was established in 1982 and is awarded for exceptional achievement in systems engineering and systems science. The medal is sponsored by Northrop Grumman Corporation.

Samuel C. Phillips 1984
Amaledo M. Angelini 1986
William W. Simmons 1987
John S. Mayo 1988
Edward H. Sussenguth 1989
Paul E. Green, Jr. 1991
Claud M. Davis 1993
Jack M. Sipress 1994
Joseph T. Threston 1995
Donald J. Leonard 1996
No Award 1997
No Award 1998
No Award 1999
Andrew P. Sage 2000
Kurt E. Petersen 2001
Bradford Wells Parkinson 2002
David R. Heebner 2003
Boris E. Chertok 2004
Nikolai N. Sheremetevsky 2004
Neal A. Richardson 2005
George Gelb 2005
Baruch Berman 2005
Donald C. Wetzel 2006
Victor B. Lawrence 2007
Chrysostomos L. Nikias 2008
Albert F. Myers 2009
Barry W. Boehm 2010
Neil Siegel 2011
William “Red” Whittaker 2012
B. Gentry Lee 2013
Lyndon Evans 2014
Paul Kaminski 2015
John P. Lehoczky 2016
Ragunathan Rajkumar 2016
Lui Sha 2016
Prabha S. Kundur 2010
William F. Tinney 2011
Edmund O. Schweitzer III 2012
Hermann W. Dommel 2013
Thomas Anthony Lipo 2014
Fred C. Lee 2015
Arun G. Phadke 2016
Marjan Kazmierkowski 2017
Hirofumi Akagi 2018
Lionel Olav Barthold 2019
Rik W. De Doncker 2020
Praveen K. Jain 2021

The IEEE/RSJ James Clerk Maxwell Medal was established in 2006 and is awarded for groundbreaking contributions that have had an exceptional impact on the development of electronics and electrical engineering or related fields.

Irwin M. Jacobs 2007
Andrew J. Viterbi 2007
Sir Timothy Berners-Lee 2008
A. Sangiovanni-Vincentelli 2009
Amar G. Bose 2010
IEEE RECOGNITIONS

IEEE HONORARY MEMBERSHIP
Award Recipients with Citations (PDF, 37 KB)

IEEE Honorary Members are elected by the IEEE Board of Directors from among those who have rendered meritorious service to mankind in IEEE's designated fields of interest and who are not members of the IEEE. The award is sponsored by IEEE.

- John Bardeen 1981
- Walter H. Brattain 1981
- Edwin H. Land 1981
- Brian W. Josephson 1982
- Donald E. Knuth 1982
- Wolfgang K. H. Panofsky 1982
- George D. Dantzig 1983
- Cecil H. Green 1983
- Norman Ramsey 1983
- M. G. K. Menon 1984
- Herbert A. Simon 1984
- Hideo Yamashita 1985
- Arthur E. Bryson, Jr. 1986
- Gene H. Golub 1987
- Arno A. Penzias 1987
- Luis W. Alvarez 1988
- No Award 1989
- No Award 1990
- Akio Morita 1991
- Mark Krivocheev 1992
- Robert W. Galvin 1993
- Michael Carpentier 1994
- Ralph E. Gomory 1994
- Lars Henry Ramquist 1995
- Léon M. Lederman 1996
- Hiroyuki Mizuno 1996
- Pekka J. Tarjanne 1997
- Pavagada V. Indiresan 1998
- Sheila E. Widnall 1998
- No Award 1999
- Norio Ohga 2000
- Charles M. Geschke 2001
- James C. Morgan 2002
- Jorma Ollila 2003
- Tadashi Sasaki 2003
- No Award 2004
- Dean Kamen 2005
- Vladimir Rokhlin 2006
- Ian C. McRae 2007
- Tsutae Shinoda 2007
- Jong Yong Yun 2008

IEEE THEODORE W. HISSEY OUTSTANDING YOUNG PROFESSIONAL AWARD
Award Recipients with Citations (PDF, 78 KB)

The IEEE Theodore W. Hissey Outstanding Young Professional Award, established in 2017, may be awarded to a young professional for contributions to the technical community and IEEE fields of interest. The Award is sponsored by IEEE.

- Mario Milicevic 2019
- Sampathkumar Veeraraghavan 2020
- Kartik Kulkarni 2021

IEEE SERVICE AWARDS

Richard M. Emberson Award
Award Recipients with Citations (PDF, 25 KB)

The IEEE Richard M. Emberson Award was established in 1986 and is presented for distinguished service advancing the technical objectives of the IEEE. The Award is sponsored by the IEEE Technical Activities Board.

- Merlin G. Smith 1988
- Jose B. Cruz, Jr. 1989
- Harold Chestnut 1990
- Stephen J. Kahne 1991
- Bruno O. Weinschel 1992
- William R. Tackaberry 1993
- Oscar N. Garcia 1994
- Theodore W. Hissey, Jr. 1995
- Theodore S. Saad 1996
- Friedolf M. Smits 1997
- H. Troy Nagle 1998
- Edward A. Parrish 1999
- J. David Irwin 2000
- Charles J. Robinson 2001
- Robert W. Lucky 2002
- Wilfred Kenneth Dawson 2003
- Kenneth R. Laker 2004
- Lloyd A. (Pete) Morley 2005
- Don Bolle 2006
No Award 2007  
James T. (Tom) Cain 2008  
Harold L. Flescher 2009  
James M. Tien 2010  
Donald C. Loughry 2011  
Bruce Eisenstein 2012  
Leah H. Jamieson 2013  
Wanda K. Reder 2014  
Raymond S. Larsen 2015  
Stephen Weinstein 2016  
David Hodges 2017  
Donald Heirman 2018  
Marcel Keschner 2019  
John Vig 2020  
Lewis Terman 2021  

(*) Date of selection changed to date of presentation.

IEEE CORPORATE RECOGNITIONS

Corporate Innovation Award
Award Recipients with Citations (PDF, 42 KB)

The Corporate Innovation Award was established in 1985 as the Corporate Innovation Recognition and is presented for outstanding innovation by an organization in an IEEE field of interest. The award is sponsored by IEEE.

Alfred N. Goldsmith 1972
Elgin B. Robertson, Sr. 1973
James H. Mulligan, Jr. 1974
Walter J. Barrett 1975
Clarence H. Linder 1976
Schedule revised 1977*
Ivan S. Coggeshall 1978
John D. Ryder 1979
Raymond W. Sears 1980
Robert H. Tanner 1981
Thomas H. Lee 1983
William W. Middleton 1984
Donald S. Brereton 1985
Robert C. Winton 1986
Robert F. Cotellessa 1987
Irene C. Peden 1988
Edward J. Doyle 1989
Robert M. Saunders 1990
Thelma Estrin 1991
Richard J. Backe 1992
Harold S. Goldberg 1993
Ronald G. Hoelzeman 1994
Henry L. Bachman 1995
Walter E. Proebster 1996
Robert A. Rivers 1997
Frederick T. Andrews 1998
Vijay K. Bhargava 1999
Charles A. Eldon 2000
Arthur P. Stern 2001
Robert T. H. Alden 2002
Charles Turner 2003
Jerry Yeargan 2004
Daniel Benigni 2005
Antonio C. Bastos 2006
Luis T. Gandia 2007
Maurice Papo 2008
James H. Beall 2009
Raymond D. Findlay 2010
Levent Onural 2011
Hugh Rudnick 2012
Barry L. Shoop 2013
V. Prasad Kodali 2014
Fumio Harashima 2015
Moshe Kam 2016

John T. Barr 2017
Loretta J. Arellano 2018
David Green 2019
Mary Ellen Randall 2020
Evelyn H. Hirt 2021

The IEEE Haraden Pratt Award was established in 1971 and is presented for outstanding volunteer service to the IEEE. The Award is sponsored by the IEEE Foundation.

Intel Corporation 1986
Southern California 1986
Sony Corporation 1987
IBM Corporation 1987
AT&T Bell Laboratories 1988
Hewlett-Packard Company 1989
IBM Corp. - Somers, NY 1990
Apple Computer, Inc. 1991
Ericsson Radio Systems AB 1992
Philips Electronics 1992
Jet Propulsion Laboratory 1993
Bellcore 1994
IBM Corp. - Armonk, NY 1995
Texas Instruments/Digital Signal Processing Group 1996
Motorola, Inc. 1997
Microsoft Corporation 1998
BBN Technologies 1999
Nokia Corporation 1999
Lucent Technologies 2000
Sun Microsystems 2000
Cadence DesignSystems, Inc. 2001
Seiko Epson Corporation 2002
Taiwan Semiconductor Manufacturing Co., Ltd. 2002
Xerox Corporation 2003
Titan Corporation 2003
Hewlett-Packard Company 2004
QUALCOMM, Inc. 2004
AMD 2005
NTT DoCoMo 2005
ARM Limited 2006
Toyota Motor Corporation 2007
Texas Instruments 2007
DLP Products 2007
Research in Motion 2008
Corning, Inc. 2009
IBM T.J. Watson Research Center 2009
Samsung Electronics Co., Ltd. 2010
IMEC 2011
SANYO Electric Co., Ltd. 2012
Applied Materials, Inc. 2013
Defense Advanced Research Projects (DARPA) 2014
Sandisk Corporation 2015
Ernst Weber Managerial Leadership Award

The IEEE Ernst Weber Managerial Leadership Award was established in 1985 as the Ernst Weber Engineering Leadership Recognition and is awarded for exceptional managerial leadership in the fields of interest to the IEEE. The award is sponsored by IEEE. The award was discontinued after 2016.

William C. Norris 1986
Kenneth H. Olsen 1986
Andrew S. Grove 1987
Ralph E. Gomory 1988
Arnaldo M. Angelini 1989
Roland W. Schmitt 1989
Irwin Dorros 1990
Edson Fregni 1990
Seymour R. Cray 1990
Bernard M. Gordon 1992
Percy Barnevik 1993
Clarence G. Thornton 1994
John B. Terry 1995
Alan G. Chynoweth 1996
Sol Tribbawasser 1996
William J. Weisz 1997
John H. Crawford 1997
Jerome Swartz 1998
Angus McMillan Tait 1998
Bernard S. Meyerson 1999
Joel S. Birnbaum 2000
Michael J. Birck 2001
Chris Earnshaw 2001
No Award 2002
William J. Spencer 2003
Pasquale Pistorio 2004
No Award 2005
No Award 2006
Narayan N. R. Murthy 2007
No Award 2008
No Award 2009
Hidehito Obayashi 2010
Tze-Chiang Chen 2011
Tetsuya Iizuka 2012
Gururaj Deshpande 2013
Paul E. Jacobs 2014
Shang-Yi Chiang 2015
David Fairbanks Welch 2016

IEEE PRIZE PAPER AWARDS

W. R. G. Baker Award

Award Recipients with Citations (PDF, 43 KB)

The IEEE W. R. G. Baker Award was established in 1956 and is presented for the most outstanding paper reporting original work published in any IEEE archival publications (such as TRANSACTIONS, JOURNALS, and LETTERS), MAGAZINES, or PROCEEDINGS published during a three to five year window prior to the presentation of the award. It is sponsored by the IEEE Circuits and Systems, Communications, Control Systems, Information Theory, Power and Energy, Signal Processing, and Vehicular Technology Societies. The award was discontinued in February 2016.

D. R. Fewer 1957
R. J. Kircher 1957
R. L. Trent 1957
R. L. Kyhl 1958
H. F. Webster 1958
R. D. Thronton 1959
E. J. Nalos 1960
Manfred Clynnes 1961
Marvin Chodorow 1962
Tore Wesseli-Berg 1962
Leonard Lewin 1963
Donald L. White 1964
D. C. Youla 1965
Robert G. Gallager 1966
Dean E. McCumber 1967
Allan G. Chynoweth 1967
J. Anderson 1968
H. B. Lee 1968
Tosior Koga 1969
George J. Friedman 1970
Cornelius T. Leondes 1970
Andrew H. Bobeck 1971
Robert F. Fischer 1971
Anthony J. Perneski 1971
J. P. Remeika 1971
L. G. Van Uultert 1971
Dirk J. Kuzenga 1972
Anthony E. Siegman 1972
Leon O. Chua 1973
David B. Large 1973
Lawrence Ball 1974
Arnold J. Farstad 1974
Stewart E. Miller 1975
Enrique A. J. Marcatili 1975
Tingye Li 1975
Robert W. Keyes 1976
Manfred R. Schroeder 1977
Eugene C. Sakschaug 1977
James S. Kresge 1978
Stanley A. Miske, Jr. 1978
Stephen W. Director 1979
Gary D. Hachtel 1979
Gordon M. Jacobs 1980
David J. Allstot 1980
Robert W. Brodersen 1980
Paul R. Gray 1980
Timothy C. May 1981
Murray H. Woods 1981
Garry D. Alley 1982
Carl O. Bozler 1982
Ryszard A. Malewski 1983
Chinh T. Nguyen 1983
Kurt Feiser 1983
Nils Hylten-Cavallius 1983
Yannis Tsididis 1984
John W. Adams 1985
The IEEE Donald G. Fink Award was established in 1979 and is presented for the outstanding survey, review, or tutorial paper in any of the IEEE TRANSACTIONS, JOURNALS, MAGAZINES, or PROCEEDINGS issued between 1 January and 31 December of the preceding year. The Award is sponsored by the IEEE Life Members Fund. The award was discontinued after 2016.
Andreas F. Molisch 2011
Larry J. Greenstein 2011
Mansoor Shafi 2011
Kannan Krishnan 2012
Stefano Galli 2013
Anna Scaglione 2013
Zhifang Wang 2013
Dipankar Raychaudhuri 2014
Narayan B. Mandayam 2014
Theodore S. Rappaport 2015
Shu Sun 2015
Rimma Mayzus 2015
Hang Zhao 2015
Yaniv Azar 2015
Kevin Wang 2015
George N. Wong 2015
Jocelyn K. Schulz 2015
Mathew Samimi 2015
Andrew R. Teel 1998
Naresh Shanbhag 1999
Geoffrey M. Davis 2000
Annamalai, Jr. 2001
Muriel Medard 2002

Leon K. Kirchmayer Prize Paper Award
Award Recipients with Citations (PDF, 14 KB)

The IEEE Leon K. Kirchmayer Prize Paper Award was established in 1997 and is presented for the most outstanding paper in any IEEE publication issued between 1 January and 31 December of the preceding year by an author or joint authors under thirty years of age at the time the original manuscript was submitted. The award was discontinued in 2002.

Andrew R. Teel 1998
Naresh Shanbhag 1999
Geoffrey M. Davis 2000
A. Annamalai, Jr. 2001
Muriel Medard 2002

Browder J. Thompson Memorial Prize Paper Award
Award Recipients with Citations (PDF, 34 KB)

The IEEE Browder J. Thompson Memorial Prize Paper Award was established in 1945 and is presented for the most outstanding paper in any IEEE publication issued between 1 January and 31 December of the preceding year by an author or joint authors under thirty years of age at the time the original manuscript was submitted. This award was discontinued after the 1997 Award and replaced by the Leon K. Kirchmayer Prize Paper Award.

G. M. Lee 1946
C. L. Dolph 1947
W. H. Huggins 1948
R. V. Pound 1949
J. F. Hull 1950
A. W. Randals 1950
A. B. Macnee 1951
H. W. Welch, Jr. 1952
R. C. Booton, Jr. 1953
R. L. Petritz 1954
B. D. Smith, Jr. 1955
J. E. Bridges 1956
D. A. Buck 1957
Arthur Karp 1958
F. H. Blecher 1959
J. W. Gewartowski 1960
Eiichi Goto 1961
Henri B. Smets 1962
Chih-Tang Sah 1963
Harry B. Lee 1964
S. R. Hofstein 1965
F. P. Heiman 1965
Kenneth M. Johnson 1966
Leon O. Chua 1967
R. A. Rohrer 1967
Michael L. Dertouzos 1968
Malvin C. Teich 1969
J. David Rhodes 1970
L. J. Griffiths 1971
G. David Forney, Jr. 1972
Jerry Mar 1973
J. Justesen 1974
Nuggehally S. Jayant 1975
Russell M. Mersereau 1976
Dan E. Dudgeon 1976
Michael R. Portnoff 1977
David A. Houshshell 1978
Marvin B. Lieberman 1979
Alan S. Willsky 1980
Lawrence H. Goldstein 1981
Sig Skelboe 1982
Daniel S. Kimes 1983
Julie A. Kirchner 1983
John C. Curlander 1984
Douglas MacGregor 1985
David S. Mothersole 1985
John K. Ousterhout 1986
Daniel Welt 1987
Jon Webb 1987
Lothar Thiele 1988
Roberto G. Rojas 1990
Keshab K. Parhi 1991
Bertrand S. Clark 1992
Andrew R. Barron 1992
Ramsey W. Haddad 1993
Anton T. Dahbura 1993
Anup B. Sharma 1993
Oliver M. Collins 1994
No Award 1995
Carl W. Baum 1996
Venugopal V. Veeravalli 1996
Hong-Yi Tzeng 1997
Kai-Yeung (Sunny) Siu 1997

Page 13 of 28
IEEE STAFF AWARD

Eric Herz Outstanding Staff Member Award
Award Recipients with Citations (PDF, 37 KB)

The IEEE Eric Herz Outstanding Staff Member Award was established in 2005 in honor of Eric Herz, for sustained contributions by a present or past full-time staff member. The award may be awarded on an annual basis when a suitable candidate is nominated.

<table>
<thead>
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<td>Mary Ward-Callan</td>
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<td>2019</td>
<td>Jonathan Dahl</td>
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<td>2020</td>
<td>Patrick Ryan</td>
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</table>

IEEE TECHNICAL FIELD AWARDS

Biomedical Engineering Award
Award Recipients with Citations (PDF, 16 KB)

The IEEE Biomedical Engineering Award was established in 2011 and is presented for outstanding contributions to the field of biomedical engineering. The award is sponsored by the IEEE Engineering in Medicine and Biology, the IEEE Circuits and Systems Society, and the IEEE Signal Processing Society.

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Cledo Brunetti Award
Award Recipients with Citations (PDF, 59 KB)

The IEEE Cledo Brunetti Award was established in 1975 and is presented for outstanding contributions to nanotechnology and technologies for microsystem miniaturization.

<table>
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Electronics Packaging Award
Award Recipients with Citations (PDF, 35 KB)

The IEEE Electronics Packaging Award was
established in 2002 and awarded for outstanding contributions to advancing components, electronic packaging or manufacturing technologies. The award is sponsored by the IEEE Electronics Packaging Society.

John W. Balde 2004  
Yutaka Tsukada 2005  
C.P. Wong 2006  
Dimitry Grabbe 2007  
Karl Pützitz 2008  
Paul A. Totta 2008  
George G. Harman 2009  
Herbert Riechl 2010  
Rao R. Tummala 2011  
Mauro Walker 2012  
John Lau 2013  
Avram Bar-Cohen 2014  
Nasser Bozorg-Grayeli 2015  
Michael Pecht 2016  
Paul S. Ho 2017  
King-Ning Tu 2017  
William Chen 2018  
Ephraim Suhir 2019  
Mitsumasa Koyanagi 2020  
Chin C. Lee 2021  

**Control Systems Award**  
*Award Recipients with Citations* (PDF, 57 KB)

The IEEE Control Systems Award was established in 1980 and is presented for outstanding contributions to control systems engineering, science, or technology. The award is sponsored by the IEEE Control Systems Society.

Howard H. Rosenbrock 1982  
Arthur E. Bryson, Jr. 1984  
George Zames 1985  
Charles A. Desoer 1986  
Walter Murray Wonham 1987  
Dante C. Youla 1988  
Yu-Chi Ho 1989  
Karl Johan Aström 1990  
Roger W. Brockett 1991  
Harold J. Kushner 1992  
Moshe M. Zakai 1993  
Elmer G. Gilbert 1994  
Petar V. Kokotovic 1995  
Vladimir A. Yakubovich 1996  
Brian D. O. Anderson 1997  
Jan C. Willems 1998  
A. Stephen Morse 1999  
Sanjoy K. Mitter 2000  
Keith Glover 2001  
Pravin Varaiya 2002  
N. N. Krasovski 2003  
John Doyle 2004  
Manfred Morari 2005  
P.R. Kumar 2006  
Lennart Ljung 2007  
Mathukumalli Vidyasagar 2008  
David Q. Mayne 2009  
Graham Clifford Goodwin 2010  
Eduardo D. Sontag 2011  
Alberto Isidori 2012  
Stephen P. Boyd 2013  
Tamer Basar 2014  
Bruce Francis 2015  
Arthur J. Krener 2016  
Richard M. Murray 2017  
John Tsitsiklis 2018  
Pramod Khargonekar 2019  
Anders Lindquist 2020  
Hidenori Kimura 2021  

**Harry Diamond Memorial Award**  
*Award Recipients with Citations* (PDF, 29 KB)

The IEEE Harry Diamond Memorial Award was presented for outstanding technical contributions in the field of government service in any country, as evidenced by publication in professional society journals. This award was discontinued as an IEEE-level award in 1992, it is currently being offered as an IEEE-USA Technical Achievement Award.

A. V. Haeff 1950  
M. J. E. Golay 1951  
Newbern Smith 1952  
R. M. Page 1953  
Harold Zahn 1954  
Bernard Salzberg 1955  
W. S. Hinman, Jr. 1956  
Georg Goubau 1957  
E. W. Allen, Jr. 1958  
J. W. Herbstreit 1959  
K. A. Norton 1960  
H. L. Brueckmann 1961  
William Culshaw 1962  
Allen H. Schooley 1963  
James R. Wait 1964  
George J. Thaler 1965  
John J. Egli 1966  
Rudolf A. Stampfl 1967  
Harry I. Davis 1968  
Maurice Apstein 1969  
Allen V. Astin 1970  
Arthur H. Guenther 1971  
William B. McLean 1972  
Harold Jacobs 1973  
Chester H. Page 1974  
Louis Costrell 1975  
Maxime A. Faget 1976  
Jacob Rabinow 1977  
David M. Kerns 1978  
Henry P. Kalmus 1979  
Martin Greenspan 1980  
George Abraham 1981  
Jules Aarons 1982  
Merrill I. Skolnik 1983  
Sydney R. Parker 1984  
Howard S. Jones, Jr. 1985  
Thomas G. Galliorenzi 1986  
Carl E. Baum 1987  
Richard J. Doviak 1988  
Dusan S. Zmic 1988  
William F. Utlaut 1989  
Robert E. Hebner, Jr. 1990  
Harold L. Hughes 1991
The IEEE Electromagnetics Award was established in 1996 and is presented for outstanding contributions to the theory and/or application of electromagnetics. The award is sponsored by the IEEE Antennas and Propagation, Microwave Theory and Techniques, Geoscience and Remote Sensing, and Electromagnetic Compatibility Societies.

- Robert E. Collin, 1999
- Roger F. Harrington, 2000
- Fawwaz T. Ulaby, 2001
- Robert C. Hansen, 2002
- Leopold B. Felsen, 2003
- Jin Au Kong, 2004
- Clayton R. Paul, 2005
- Raj Mittra, 2006
- Carl Edward Baum, 2007
- Werner Wiesbeck, 2008
- Kenneth K. Mei, 2009
- Thomas B. A. Senior, 2010
- Yahya Rahmat-Samii, 2011
- Nader Engheta, 2012
- Leung Tsang, 2013
- Allen Tafove, 2014
- Donald Wilton, 2015
- Giorgio Franceschetti, 2016
- Weng Cho Chew, 2017
- Tatsuo Itoh, 2018
- Richard W. Ziolkowski, 2019
- Tapan Kumar Sarkar, 2020
- Constantine A. Balanis, 2021

The IEEE Fourier Award was established in 2012 and is presented for an outstanding contribution to the advancement of signal processing, other than in the areas of speech and audio processing. The award is sponsored by the IEEE Signal Processing Society and the IEEE Circuits and Systems Society.

- Georgios B. Giannakis, 2015
- Bede Liu, 2016
- Russ Mersereau, 2017
- Peter Stoica, 2018
- Alan C. Bovik, 2019
- Alfred O. Hero, III, 2020
- K. J. Ray Liu, 2021

The IEEE Andrew S. Grove Award was established in 1999 and is presented for outstanding contributions to solid-state devices and technology. The award is sponsored by the IEEE Electron Devices Society.

- Wolfgang Fichtner, 2000
- Al F. Tasch, 2001
- Dimitri A. Antoniadis, 2002
- Mark T. Bohr, 2003
- Krishna C. Saraswat, 2004
- T. P. Ma, 2005
- Chang-Gyu Hwang, 2006
- James D. Plummer, 2007
- Stefan K. Lai, 2008
- Eric Fossum, 2009
- Bijan Davari, 2010
- Judy Hoyt, 2011
- Eugene A. Fitzgerald, 2011
- Jean-Pierre Colinge, 2012
- Shinichi Takagi, 2013
- Sanjay Banerjee, 2014
- Masayoshi Esashi, 2015
- Carlos Hernandez Diaz, 2016
- Sorin Cristoloveanu, 2017
- Gurtej S. Sandhu, 2018
- Digh Hisamoto, 2019
- Evelyn L. Hu, 2020
- Hideaki Aochi, 2021
- Ryota Katsumata, 2021
- Masaru Kito, 2021

The IEEE James L. Flanagan Award was established in 2002 and is presented for an outstanding contribution to the advancement of speech and/or audio signal processing. The award is sponsored by IEEE Signal Processing Society.

- Gunnar Fant, 2004
- Kenneth N. Stevens, 2004
- Frederick Jelinek, 2005
- James D. Johnston, 2006
- Allen Gersho, 2007
- Raj Reddy, 2008
- John Makhouli, 2009
- Sadaoki Furui, 2010
- Julia Hirschberg, 2011
- James Baker, 2012
- Janet Baker, 2012
- Victor Zue, 2013
- Biling-Hwang Juang, 2014
- Stephen John Young, 2015
- William M. Habirshaw, 2021

- Takehiro Moriya, 2016
- Mark Yoffee Liberman, 2017
- Mari Ostendorf, 2018
- Hermann Ney, 2019
- Hynek Hermansky, 2020
- David Nahamoo, 2021
The William M. Habirshaw Award was presented for outstanding contributions in the field of the transmission and distribution of electric power. This award was discontinued after the 1986 Award and replaced by the IEEE Herman Halperin Electric Transmission and Distribution Award.

- William A. Del Mar, 1959
- Selden B. Crary, 1960
- Samuel B. Griscom, 1961
- Herman Halperin, 1962
- L. M. Robertson, 1963
- C. S. Schifreen, 1964
- Wilfred F. Skeats, 1965
- I. Birger Johnson, 1966
- Robert J. Wiseman, 1967
- Eugene C. Starr, 1968
- James A. Rawls, 1969
- Fred J. Vogel, 1970
- Gunnar Jancke, 1971
- Lionel Cahill, 1972
- J. J. Archambault, 1972
- Eugene W. Boehne, 1973
- Herbert R. Stewart, 1974
- Everett J. Harrington, 1975
- Francis J. Lane, 1976
- Schedule revised, 1977*
- Martin H. McGrath, 1978
- Howard C. Barnes, 1979
- Theodore J. Nagel, 1979
- Edward W. Kimbark, 1980
- William R. Johnson, 1981
- Peter L. Bellaschi, 1982
- Andrew F. Corry, 1983
- Ralph S. Gens, 1984
- Harry M. Ellis, 1985
- Harold N. Scherer, Jr., 1986

(*) Date of selection changed to date of presentation.

Herman Halperin Electric Transmission and Distribution Award

The IEEE Herman Halperin Electric Transmission and Distribution Award was established in 1986 and is awarded for outstanding contributions to electric transmission and distribution. The award is sponsored by the Robert and Ruth Halperin Foundation, in memory of the late Herman & Edna Halperin, and the IEEE Power and Energy Society.

- Robert F. Lawrence, 1987
- Luigi Paris, 1988
- John J. Daugherty, 1989
- John A. Casaza, 1990
- Andrew R. Hileman, 1992
- Mat Darveniza, 1993
- Abdel-Aziz A Fouad, 1994

Masaru Ibuka Consumer Electronics Award

The IEEE Masaru Ibuka Consumer Electronics Award was established in 1987 and is presented for outstanding contributions in the field of consumer electronics technology. The award is sponsored by Sony Corporation.

- Heitaro Nakajima, 1989
- Johannes Petrus Sinjou, 1989
- Norman L. Stauffer, 1990
- Gilbert F. Amelio, 1991
- Isamu Washizuka, 1992
- George L. Brantingham, 1993
- Paul S. Breedlove, 1993
- Richard H. Wiggins, 1993
- Carl G. Eilers, 1994
- Irving S. Reed, 1995
- Gustave Solomon, 1995
- Kees A. Schouhamer Immink, 1996
- Ray M. Dolby, 1997
- Jerrold A. Heller, 1998
- Leonardo Chiariglione, 1999
- Marvin H. White, 2000
- Ulrich Reimers, 2001
- Takashi Fujiio, 2002
- Koizo Hayashi, 2002
- Masao Sugimoto, 2002
- Masahiko Morizono, 2002
- Yuichi Ninomiya, 2002
- Richard H. Small, 2003
- Neville Thiele, 2003
- Karl Heinz Brandenburg, 2004
- No Award, 2005
- Wayne Bretl, 2006
- Richard Citta, 2006
- Wayne Luplow, 2006
- Tomlinson Holman, 2007
- Ralph H. Baer, 2008

(*) Date of selection changed to date of presentation.
The IEEE Award in International Communication was established in 1966 and is awarded for outstanding contributions to international communication. The award was discontinued in November 2007.

E. Maurice Deloraine 1966
Leonard Jaffe 1967
Edward W. Allen 1968
Henri Busignies 1969
Herre Rinia 1970
Eugene F. O'Neill 1971
Johannes A. Greefkes 1972
Frank de Jager 1972
Vladimir A. Kotelnikov 1973
Leslie H. Bedford 1974
John G. Puente 1975
Sidney Metzger 1976
No Award 1977
F. Louis H. M. Stumpers 1978
A. Nejat Ince 1979
Armig B. Kandoian 1980
Richard C. Kirby 1981
Hiroshi Inose 1982
Lynn W. Ellis 1983
No Award 1984
Frederick T. Andrews, Jr. 1985
Richard B. Nichols 1986
Ken-Ichi Miya 1987
John S. Ryan 1988
Theodor Irmer 1989
Samuel J. Campanella 1990
Jack M. Sipress 1991
Francesco Carassa 1992
Pekka J. Tarjanne 1993
Stephen Robin Temple 1994
David D. Clark 1995
Kunishi Nosaka 1996
Maurizio Decina 1997
No Award 1998
Hisashi Kaneko 1999
No Award 2000
Sogo Okamura 2001
Karl Heinz Rosenbrock 2002

Internet Award
Award Recipients with Citations (PDF, 19 KB)

The IEEE Internet Award was established in 1999 and is presented for exceptional contributions to the advancement of Internet technology for network architecture, mobility and/or end-use applications. The award is sponsored by Nokia Corporation.

Paul Baran 2000
Donald W. Davies 2000
Leonard Kleinrock 2000
Lawrence G. Roberts 2000
Louis Pouzin 2001
Stephen D. Crocker 2002
Paul V. Mockapetris 2003
Raymond Tomlinson 2004
David H. Crocker 2004
Sally Floyd 2005
Scott Shenker 2006
No Award 2007
Michael (Mike) Brescia 2008
Virginia Travers 2008
Robert M. Hinden 2008
Lixia Zhang 2009
Stephen Deering 2010
Jun Murai 2011
Mark Handley 2012
David Mills 2013
Jon Crowcroft 2014
KC Claffy 2015
Vern Paxson 2015
Henning Schulzrinne 2016
Deborah Estrin 2017
Ramesh Govindan 2018
Jennifer Rexford 2019
Stephen L. Casner 2020
Eve M. Schooler 2020

Reynold B. Johnson Data Storage Device Technology Award
Award Recipients with Citations (PDF, 12 KB)

The IEEE Reynold B. Johnson Data Storage Device Technology Award was established in 2004 and is presented for outstanding contributions to the advancement of information storage with emphasis on technical contributions in computer data storage device technology. The award was discontinued in February 2011.

Eliyahou Harari 2006
Sanjay Mehrotra 2006
Jack Yuan 2006
Reynold B. Johnson Information Storage Systems Award
Award Recipients with Citations (PDF, 20 KB)

The IEEE Reynold B. Johnson Information Storage Systems Award was established in 1992 and is presented for outstanding contributions to information storage, with emphasis on computer storage systems. The award is sponsored by the IEEE Reynold B. Johnson Information Storage Systems Award Fund. The award was discontinued in 2016.

- John M. Harker 1993
- C. Denis Mee 1994
- James U. Lemke 1995
- Nobutake Imamura 1996
- Alan F. Shugart 1997
- Jean-Pierre Lazzari 1998
- David Patterson 1999
- Randy Katz 1999
- Garth Gibson 1999
- Mark H. Kryder 2000
- Tu Chen 2001
- Christopher H. Bajorek 2002
- H. Neal Bertram 2003
- Virgil S. Spieriosu 2004
- Bruce A. Gurney 2004
- Francois Dolivo 2005
- Jaishankar M. Menon 2006
- Dave Hitz 2007
- Thomas E. Sparling 2007
- Marcus O. Durham 2008
- David A. Oliver 2009
- Baldwin Bridger, Jr. 2009
- Alton Dewitt Patton 2000
- Louie J. Powell 2001
- H. Landis Floyd, II 2002
- Edward L. Owen 2003
- Richard L. Naeelen 2004
- A. P. Meliopoulos 2005
- George Younkin 2006
- M. Azizur Rahman 2007
- Hirofumi Akagi 2008
- Ronald G. Harley 2009
- Gerald T. Heydt 2010
- David Doyle 2011
- John Nelson 2012
- Kaushik Rajashekar 2013
- Robert D. Lorenz 2014
- Charles J. Mozina 2015
- G.S. Peter Castle 2016
- Erling Hesla 2017
- Greg Charles Stone 2018
- Susumu Takadoshi 2019
- Koki Matsuse 2020
- Stephen D. J. McArthur 2021

Joseph F. Keithley Award in Instrumentation and Measurement
Award Recipients with Citations (PDF, 22 KB)

The IEEE Joseph F. Keithley Award in Instrumentation and Measurement was established in 2000 for outstanding contributions in electrical measurement. The award is sponsored by Keithley Instruments, a Tektronix company and the IEEE Instrumentation and Measurement Society.

- No Award 2003
- Henry P. Hall 2004
- Clark A. Hamilton 2005
- Alessandro M. Ferrero 2006
- Douglas Kent Rytting 2007
- Robert G. Fulks 2008
- Bryan P. Kibble 2009
- No Award 2010
- Reza Zoughi 2011
- Rik Pintelton 2012
- Dylan Forrest Williams 2013
- Thomas E. Linnenbrink 2014
- Jean-Charles Bolomey 2015
- Samuel Benz 2016
- Jerome John Blair 2017
- David Wayne Allan 2018
- Alan S. Finkel 2019
- Dario Petri 2020
- Eric W. Strid 2021
- Reed K. Gleason 2021

Richard Harold Kaufmann Award
Award Recipients with Citations (PDF, 25 KB)

The IEEE Richard Harold Kaufmann Award was established in 1986 and is presented for outstanding contributions in industrial systems engineering. The award is sponsored by the IEEE Industry Applications Society.

- Walter C. Huening, Jr. 1988
- Bernard W. Whittington 1989
- Rene Castenschiold 1990
- John R. Dunki-Jacobs 1991
- Kao Chen 1992
- George W. Walsh 1993
- Daniel J. Love 1994
- N. Shan Griffith 1995
- Marcus O. Durham 1996
- Thomas E. Sparling 1997
- James A. Oliver 1998
- Baldwin Bridger, Jr. 1999
- Alton Dewitt Patton 2000
- Louie J. Powell 2001
- H. Landis Floyd, II 2002
- Edward L. Owen 2003
- Richard L. Naeelen 2004
- A. P. Meliopoulos 2005
- George Younkin 2006
- M. Azizur Rahman 2007
- Hirofumi Akagi 2008
- Ronald G. Harley 2009
- Gerald T. Heydt 2010
- David Doyle 2011
- John Nelson 2012
- Kaushik Rajashekar 2013
- Robert D. Lorenz 2014
- Charles J. Mozina 2015
- G.S. Peter Castle 2016
- Erling Hesla 2017
- Greg Charles Stone 2018
- Susumu Takadoshi 2019
- Koki Matsuse 2020
- Stephen D. J. McArthur 2021

Mervin J. Kelly Award

The IEEE Mervin J. Kelly Award was bestowed in
recognition of outstanding contributions in the field of telecommunication. This award was discontinued in 1975.

- Mervin J. Kelly 1960
- Harry Nyquist 1961
- Claude E. Shannon 1962
- W. L. Everitt 1963
- Harald T. Friis 1964
- Stephen O. Rice 1965
- Murray G. Crosby 1966
- Harry F. Olson 1967
- William R. Bennett 1968
- Hendrik C. A. Van Duuren 1969
- David A. McLean 1970
- Harold A. Rosen 1971
- Roger A. Sykes 1972
- Leon S. Nergaard 1973
- Harold M. Barlow 1974
- Alton C. Dickieson 1975

**Gustav Robert Kirchhoff Award**

Award Recipients with Citations (PDF, 17 KB)

The IEEE Gustav Robert Kirchhoff Award was established in 2003 and is presented for outstanding contribution to the fundamentals of any aspect of electronic circuits and systems that has a long-term significance or impact. The award is sponsored by the IEEE Circuits and Systems Society.

- Leon O. Chua 2005
- Gabor Temes 2006
- Yannis P. Tsividis 2007
- Alfred Fettweis 2008
- Ernest S. Kuh 2009
- Hitoshi Watanabe 2010
- Charles A. Desoer 2011
- Ronald A. Rohrer 2012
- Sanjit Kumar Mitra 2013
- Chung Laung Liu 2014
- Yosiro Oono 2015
- P.P. Vaidyanathan 2016
- Marcel Pelgrom 2017
- Alan Willson, Jr. 2018
- Kenneth W. Martin 2019
- Martin Hasler 2020
- Thomas Lee 2021

**Leon K. Kirchmayer Graduate Teaching Award**

Award Recipients with Citations (PDF, 25 KB)

The IEEE Leon K. Kirchmayer Graduate Teaching Award was established in 1990 and is awarded for inspirational teaching of graduate students in the IEEE fields of interest. The award was renamed in 2002 in honor of Leon K. Kirchmayer. The award is sponsored by the Leon K. Kirchmayer Memorial Fund.

- James H. Mulligan, Jr. 1992
- Rudolf Saal 1993
- Thomas K. Gaylord 1994
- Alberto Sangiovanni-Vincentelli 1995
- Sung-Mo (Steve) Kang 1996
- Ronald W. P. King 1997
- Gabor C. Temes 1998
- Lester Fuess Eastman 1999
- Weng Cho Chew 2000
- H. Vincent Poor 2001
- Vijay K. Bhargava 2002
- Robert G. Meyer 2003
- Simon Haykin 2004
- Jagdishkumar Aggarwal 2005
- Toby Berger 2006
- Michael Shur 2007
- Supriyo Datta 2008
- Roger W. Brockett 2009
- Alan N. Willson, Jr. 2010
- John D. Cressler 2011
- Anthony Constantinides 2012
- Hidenori Akiyama 2013
- John Mathew Cioffi 2014
- Daniel J. Costello 2015
- K.J. Ray Liu 2016
- Chung-Chieh Jay Kuo 2017
- Mark S. Lundstrom 2018
- Gregory Wornell 2019
- Shu Lin 2020
- Andrea Goldsmith 2021

**Koji Kobayashi Computers and Communications Award**

Award Recipients with Citations (PDF, 27 KB)

The IEEE Koji Kobayashi Computers and Communications Award was established in 1986 and is awarded for outstanding contributions to the integration of computers and communications. The award is sponsored by NEC Corporation.

- Stuart Wecker 1988
- Alexander G. Fraser 1989
- Elwyn R. Berlekamp 1990
- Stephen S. Lavencberg 1991
- Martin Reiser 1991
- Vinton G. Cerf 1992
- Robert E. Kahn 1992
- Gottfried Ungerboeck 1993
- Jonathan Shields Turner 1994
- Norman Abramson 1995
- K. Mani Chandy 1996
- Tim Berners-Lee 1997
- Jack Kell Wolf 1998
- Whitfield Diffie 1999
- Martin E. Hellman 1999
- Ralph Charles Merkle 1999
- Ronald L. Rivest 2000
- Adi Shamir 2000
- Leonard Adleman 2000
- John M. Cioffi 2001
- Van Jacobson 2002
- Bruce Hajek 2003
- No Award 2004
- Frank Kelly 2005
- Nicholas F. Maxemchuk 2006
- Donald F. Towsley 2007
- Don Coppersmith 2008
- Nick McKeown 2009
The IEEE Eli Lilly Medical and Biological Engineering Award was established in 1992 and is presented for outstanding achievement in, and contribution to, the field of medical and biological engineering. The award was discontinued in 2000.

Max Anliker 1993
Earl E. Bakken 1994
No Award 1995
No Award 1996
No Award 1997
No Award 1998
No Award 1999

The IEEE Morris E. Leeds Award was established in 1958 and is presented for outstanding contributions in the field of electrical measurement. Special consideration is given to contributions made before the candidate's thirty-sixth birthday. The award was discontinued in 2000.

Herbert B. Brooks 1959
Perry A. Borden 1960
Theodore A. Rich 1961
Bernard E. Lenahan 1962
Francis B. Silsbee 1963
John G. Ferguson 1964
Harold E. Edgerton 1965
William W. Mumford 1966
Henry R. Chope 1967
Albert J. Williams, Jr. 1968
Harry W. Houck 1969
Harold I. Ewen 1970
Martin E. Packard 1971
Forest K. Harris 1972
C. Howard Vollum 1973
Norbert L. Kusters 1974
No Award 1975
Francis L. Hermach 1976
Arthur M. Thompson 1977
Thomas M. Dauphinee 1978

The IEEE Morris N. Liebmann Memorial Award was established in 1919 and is awarded for important contributions to emerging technologies recognized within recent years. This award was discontinued after the 2000 award and replaced by the IEEE Daniel E. Noble Award for Emerging Technologies.

L. F. Fuller 1919
R. A. Weagant 1920
R. A. Heising 1921
C. S. Franklin 1922
H. H. Beverage 1923
J. R. Carson 1924
Frank Conrad 1925
Ralph Bown 1926
A. H. Taylor 1927
W. G. Cady 1928
E. V. Appleton 1929
A. W. Hull 1930
Stuart Ballantine 1931
Edmond Bruce 1932
Heinrich Barkhausen 1933
V. K. Zworykin 1934
F. B. Llewellyn 1935
B. J. Thompson 1936
W. H. Doherty 1937
G. C. Southworth 1938
H. T. Friis 1939
H. A. Wheeler 1940
P. T. Farnsworth 1941
S. A. Schelkunoff 1942
W. L. Barrow 1943
W. H. Hansen 1944
P. C. Goldmark 1945
Albert Rose 1946
J. R. Pierce 1947
S. W. Seeley 1948
C. E. Shannon 1949
O. H. Schade 1950
R. B. Dome 1951
William Shockley 1952
J. A. Pierce 1953
R. R. Warnecke 1954
A. V. Loughren 1955
Kenneth Bullington 1956
O. G. Villard, Jr. 1957
E. L. Ginzton 1958
Nicolaas Bloembergen 1959
C. H. Townes 1959
J. A. Rajchman 1960
Leo Esaki 1961
Victor H. Rumsey 1962
Ian Munro Ross 1963
Arthur L. Schawlow 1964
William R. Bennett, Jr. 1965
Paul K. Weimer 1966
No Award 1967
Emmett N. Leith 1968
John B. Gunn 1969
John A. Copeland 1970
Martin Ryle 1971
Stewart E. Miller 1972
Nick Holonyak, Jr. 1973
William S. Boyle 1974
George E. Smith 1974
A. H. Bobeck 1975
P. C. Michaels 1975
H. E. D. Scovil 1975
Herbert J. Shaw 1976
H. A. Bobeck 1977
Herbert J. Shaw 1977
Siegfried K. Wiedmann 1977
Kuen C. Kao 1978
Robert D. Maurer 1978
John B. MacChesney 1978
Ping King Tien 1979
A. J. DeMaria 1980
Calvin F. Quate 1981
John R. Arthur, Jr. 1982
Alfred Y. Cho 1982
Robert W. Brodersen 1983
Paul R. Gray 1983
David A. Hodges 1983
David E. Carlson 1984
Christopher R. Wronski 1984
Russell D. Dupuis 1985
Harold M. Manasevit 1985
Bishnu S. Atal 1986
Fumitada Itakura 1986
No Award 1987
Deepakraj M. Divan 2006
Dushan Boroyevich 2007
Istvan Nagy 2008
Tadashi Fukao 2009
Akio Nakagawa 2010
Praveen Jain 2011
Leo Lorenz 2012
Rik W. De Doncker 2013
Frede Blaabjerg 2014
Shu Yueh Ron Hui 2015
Johann W. Kolar 2016
Seung-Ki Sul 2017

**Jack A. Morton Award**

**Award Recipients with Citations** (PDF, 36 KB)

The IEEE Jack A. Morton Award was established in 1974 and is presented for outstanding contributions in the field of solid-state devices. This award was discontinued after the 1999 Award and replaced by the IEEE Andrew S. Grove Award.

Robert N. Hall 1976
Morgan Sparks 1977
Juri Matisoo 1978
Martin P. Lepselter 1979
James F. Gibbons 1980
Nick Holonyak, Jr. 1981
D. Frohman-Bentchkowsky 1982
Jun-ichi Nishizawa 1983
Hans S. Rupprecht 1984
Jerry M. Woodall 1984
Robert D. Burnham 1985
Donald Scifres 1985
William Streifer 1985
Herbert Kroemer 1986
Dennis D. Buss 1987
Richard A. Chapman 1987
Michael A. Kinch 1987
Frank Stern 1988
Chi-Tang Sah 1989
Gregory E. Stillman 1990
Charles M. Wolfe 1990
Tak H. Ning 1991
Hwa N. Yu 1991
Takuo Sugano 1992
Toshihisa Tsukada 1993
Robert E. Kerwin 1994
Donald E. Klein 1994
John C. Sarace 1994
Yoshio Nishi 1995
Robert W. Dutton 1996
Chenming Hu 1997
Isamu Akasaki 1998
Shuji Nakamura 1998
Charles H. Henry 1999

**William E. Newell Power Electronics Award**

**Award Recipients with Citations** (PDF, 13 KB)

The IEEE William E. Newell Power Electronics Award was established in 2005 and is awarded for outstanding contributions to power electronics. The award is sponsored by the IEEE Power Electronics Society.

Deepakraj M. Divan 2006
Dushan Boroyevich 2007
Istvan Nagy 2008
Tadashi Fukao 2009
Akio Nakagawa 2010
Praveen Jain 2011
Leo Lorenz 2012
Rik W. De Doncker 2013
Frede Blaabjerg 2014
Shu Yueh Ron Hui 2015
Johann W. Kolar 2016
Seung-Ki Sul 2017
The IEEE Daniel E. Noble Award for Emerging Technologies was established in 2000 and is awarded for outstanding contributions to emerging technologies recognized within recent years. The award is sponsored by the IEEE Daniel E. Noble Award fund.

- Katsutoshi Izumi 2001
- Masataka Nakazawa 2002
- Kenichi Iga 2003
- Larry J. Hornbeck 2004
- David L. Harame 2005
- Carlos A. Paz de Araujo 2006
- Stephen R. Forrest 2007
- Richard H. Friend 2007
- Ching Tang 2007
- James M. Daughton 2008
- Stuart Parkin 2008
- Saied Tehrani 2008
- Larry F. Weber 2009
- Shinichi Abe 2010
- Shoichi Sasaki 2010
- Takehisa Yaegashi 2010
- Mark Burgener 2011
- Ronald E. Reedy 2011
- Subramanian S. Iyer 2012
- Jan P. Allebach 2013
- Gabriel Michel Rebeiz 2014
- Khalil Najafi 2015
- Mark G. Allen 2016
- Miguel A. L. Nicolelis 2017
- Rajiv V. Joshi 2018
- Thomas Kenny 2019
- Miroslav Micovic 2020

The IEEE Solid-State Circuits Award was established in 1987 and is presented for outstanding contributions to solid-state circuits. The award was renamed in 2005 in honor of Donald O. Pederson. The award is sponsored by the IEEE Solid-State Circuits Society.

- James D. Meindl 1989
- Toshiaki Masuhara 1990
- Frank Wanlass 1991
- Barrie Gilbert 1992
- Kiyoo Itoh 1993
- Paul R. Gray 1994
- Lewis M. Terman 1995
- Rudy J. van de Plassche 1996
- Robert W. Brodersen 1997

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The IEEE Frederik Philips Award was established in 1971 and is awarded for outstanding accomplishments in the management of research and development resulting in effective innovation in the electrical and electronics industry. The award is sponsored by Philips Electronics N. V.

- Frederik J. Philips 1971
- William O. Baker 1972
- John H. Dessauer 1973
- Chauncey Guy Suits 1974
- C. Lester Hogan 1975
- Koji Kobayashi 1976
- No Award/schedule revised*1977*
- William E. Shoup 1978
- Gordon E. Moore 1979
- William M. Webster 1980
- Dean A. Watkins 1981
- Werner J. Kleen 1982
- Allen E. Puckett 1983
- John K. Galt 1984
- George Heilmeier 1985
- William Hittinger 1986
- Solomon J. Buchsbaum 1987
- George F. Smith 1988
- Klaus D. Bowers 1989
- Rajinder J. Khosla 1990
- Gene Strull 1991
- Alan Gerald Chownoweth 1992
- Max Tibor Weiss 1993
- Minoru Nagata 1994
- James C. McGroddy 1995
- Michiyuki Uenohara 1996
The IEEE Photonics Award was established in 2002 and awarded for outstanding achievement(s) in photonics. The award is sponsored by the IEEE Photonics Society.

Tingye Li 2004
Rod C. Alferness 2005
Frederick J. Leonberger 2006
David Neil Payne 2007
Joe C. Campbell 2008
Robert L. Byer 2009
Ivan Kaminow 2010
Amnon Yariv 2011
Elie Yablonovitch 2012
Peter F. Moulton 2013
James Fujimoto 2014
Philip St. John Russell 2015
Mark Thompson 2016
John Bowers 2017
Ursula Keller 2018
Michel Lipson 2019
Christopher R. Doerr 2020
Jack Jewell 2021

(* ) Date of Selection changed to date of presentation.

**Photonics Award**

**Award Recipients with Citations** (PDF, 15 KB)

The IEEE Photonics Award was established in 2002 and awarded for outstanding achievement(s) in photonics. The award is sponsored by the IEEE Photonics Society.

Tingye Li 2004
Rod C. Alferness 2005
Frederick J. Leonberger 2006
David Neil Payne 2007
Joe C. Campbell 2008
Robert L. Byer 2009
Ivan Kaminow 2010
Amnon Yariv 2011
Elie Yablonovitch 2012
Peter F. Moulton 2013
James Fujimoto 2014
Philip St. John Russell 2015
Mark Thompson 2016
John Bowers 2017
Ursula Keller 2018
Michel Lipson 2019
Christopher R. Doerr 2020
Jack Jewell 2021

**Judith A. Resnik Award**

**Award Recipients with Citations** (PDF, 23 KB)

The IEEE Judith A. Resnik Award was established in 1986 and is awarded for outstanding contributions to space engineering, within the fields of interest of the IEEE. The award was discontinued in 2013.

Peter Michael Bay 1989
Douglas K. Waineo 1990
Leslie J. Deutsch 1991
No Award 1992
Bonnie J. Dunbar 1993
Johannes Dietrich 1994
Leandre Pourcelot 1995
Paul G. Steffes 1996
Rodney S. Rougolot 1997
Oliver M. Collins 1998
Christopher S. Ruf 1999
No Award 2000
No Award 2001
Yvonne C. Brill 2002
Suresh M. Joshi 2003
Anthony W. England 2004

The IEEE Emanuel R. Piore Award was established in 1976 and is presented for outstanding contributions in the field of information processing in relation to computer science. The award was discontinued in 2013.
The IEEE Robotics & Automation Award was established in 2002 and awarded for outstanding contributions to robotics and automation. The award is sponsored by the IEEE Robotics and Automation Society.

- Joseph F. Engelberger 2004
- Seiemon Inaba 2005
- George A. Bekey 2006
- Gerd Hirzinger 2007
- Paul G. Backes 2008
- Larry H. Matthies 2008
- Eric T. Baumgartner 2008
- Antal Bejczy 2009
- Toshio Fukuda 2010
- Hirochika Inoue 2011
- Bernhard Roth 2012
- Ruzena Bajcsy 2013
- Shigeo Hirose 2014
- Rodney Allen Brooks 2015
- Raffaeo D'Andrea 2016
- Oussama Khatib 2017
- Matthew T. Mason 2018
- Zexiang Li 2019
- Frank Wang 2019
- Vijay Kumar 2020
- Tomas Lozano-Perez 2021
- Jean-Claude Latombe 2021

The IEEE Frank Rosenblatt Award was established in 2004 and awarded for outstanding contributions to biologically and linguistically motivated computational paradigms and systems. The award is sponsored by the IEEE Computational Intelligence Society.

- Lawrence J. Fogel 2006
- James C. Bezdek 2007
- Teuvo Kohonen 2008
- John J. Hopfield 2009
- Michio Sugeno 2010
- Hans-Paul Schwefel 2011
- Vladimir Vapnik 2012
- Terrence J. Sejnowski 2013
- Geoffrey E. Hinton 2014
- Marco Dorigo 2015
- Ronald R. Yager 2016
- Stephen Grossberg 2017
- Enrique Ruspini 2018
- Erkki Oja 2019
- Xin Yao 2020
- James M. Keller 2021

The IEEE David Sarnoff Award was established in 1959 and is presented for exceptional contributions to electronics. The award is sponsored by the IEEE Sarnoff Fund. This award is discontinued after 2016.

- David Sarnoff 1959
- Rudolf Kompfner 1960
- Charles H. Townes 1961
- Harry B. Smith 1962
- Robert H. Hall 1963
- Henri G. Busignies 1964
- Jack A. Morton 1965
- Jack S. Kilby 1966
- James Hillier 1967
- Walter P. Dyke 1968
- Robert H. Rediker 1969
- John B. Johnson 1970
- Alan L. McWhorter 1971
- Edward G. Ramberg 1972
- Max V. Mathews 1973
- F.L. J. Sangster 1974
- Bernard C. DeLoach, Jr. 1975
- George H. Heilmeier 1976
- Jack M. Manley 1977
- Harrison E. Rowe 1977
- Stephen E. Harris 1978
- A. Gardner Fox 1979
- Tingye Li 1979
- Cyril Hilsum 1981
- Nobutoshi Kihara 1982
- Hermann K. Gummel 1983
- Alan D. White 1984
- Jameson Dane Rigden 1984
- Henry Kressel 1985
- Yasuharu Suematsu 1986
- Frank F. 1987
- Alan B. Fowler 1987
- Izuo Hayashi 1988
- Herwig Kogelnik 1989
- Charles V. Shank 1989
- Leroy L. Chang 1990
- Federico Capasso 1991
- Jim Hsieh 1992
- Rao R. Tummala 1993
- Won-Tien Tsang 1994
- Karl Hess 1995
- Hiroyuki Sakaki 1996
- Milton Feng 1997
- Tatsuo Izawa 1998
- Gerard Albert Mourou 1999
- Alastair Malcolm Glass 2000
- P. Daniel Dapkus 2001
- Young-Kai Chen 2002
- Peter Asbeck 2003
- Frederick A. Kish, Jr. 2004
- Pierre Tournois 2005
- Mau-Chung F. Chang 2006
- Umesh K. Mishra 2007
The IEEE Marie Sklodowska-Curie Award was established in 2008 and is presented for outstanding contributions to the field of nuclear and plasma sciences and engineering. The award is sponsored by the IEEE Nuclear and Plasma Sciences Society. The award is discontinued after 2016.

Charles Kennedy 2011
Gennady Andreevich 2012
Veljko Radeka 2013
Malcolm H. Hudson 2014
Brian F. Hutton 2014
Lawrence A. Shepp 2014
Glen Knoll 2015
Simon Cherry 2016
Chandrashekar Joshi 2017
David Robert Nygren 2018
Sanjiv Gambhir 2019
Michael A. Lieberman 2020
Michel Defrise 2021

The IEEE Innovation in Societal Infrastructure Award was established in 2011 and is presented for significant technological achievements and contributions to the establishment, development, and proliferation of innovative societal infrastructure systems through the application of information technology with an emphasis on distributed computing systems. The award is sponsored by Hitachi, Ltd. and the IEEE Computer Society.

Balaji Prabhakar 2014
Takemochi Ishii 2015
Hirokazu Ihara 2015
Atsunobu Ichikawa 2015
William H. Sanders 2016
Antonello (Anto) Monti 2017
David F. Ferraiolo 2018
D. Richard Kuhn 2018
Ravi Sandu 2018
Andy Vidan 2019
Paul Breimyer 2019

The IEEE Charles Proteus Steinmetz Award was established in 1979 and is presented for exceptional contributions to the development and/or advancement of standards in electrical and electronics engineering. The award is sponsored by the IEEE Standards Association.

Leon Podolsky 1980
No Award 1981
Ralph M. Showers 1982
William A. McAdams 1983
H. Baron Whitaker 1984
Charles L. Wagner 1985
Chester H. Page 1986
Bruce B. Barrow 1987
Joseph L. Koepfinger 1989
Warren H. Cook 1990
Fletcher J. Buckley 1991
Donald C. Fleckenstein 1992
Ivan G. Easton 1993
Clayton H. Griffin 1994
L. Bruce McClung 1995
Marco W. Migliaro 1996
Donald N. Heirman 1997
L. John Rankine 1997
William J. McNutt 1998
Dennis Bodson 1999
Hiroshi Yasuda 2000
Stanley Baron 2001
Ben C. Johnson 2002
Donald C. Loughry 2003
Julian Forster 2004
Wallace S. Read 2005
Steven Mark Halpin 2006
Vic Hayes 2007
Roy Billinton 2008
James Thomas Carlo 2009
Richard DeBlasio 2010
James W. Moore 2011
Daleep C. Mohla 2012
Mohindar Sachdev 2013
Mark McGranaghan 2014
Steven Mills 2015
Hermann Koch 2016
David John Law 2017
Craig M. Wellman 2018
Innocent Kamwa 2019
Solveig M. Ward 2020
Haran C. Karmaker 2021

The IEEE Eric E. Sumner Award was established in 1995 and is presented for outstanding contributions to communications technology. The award is sponsored by Nokia Bell Labs.

Balaj Prabhakar 2014
Takemochi Ishii 2015
Hirokazu Ihara 2015
Atsunobu Ichikawa 2015
William H. Sanders 2016
Antonello (Anto) Monti 2017
David F. Ferraiolo 2018
D. Richard Kuhn 2018
Ravi Sandu 2018
Andy Vidan 2019
Paul Breimyer 2019

Gregory Hogan 2019
Masaru Kitsuregawa 2020
Elisa Bertino 2021
Jean-Pierre Coudreuse 1997
Donald L. Duttweiler 1998
Debasis Mitra 1998
Man Mohan Sondhi 1998
Howard Frank 1999
Ivan T. Frisch 1999
No Award 2000
No Award 2001
John E. Midwinter 2002
Tsuneo Nakahara 2002
Werner Bux 2003
Hans R. Mueller 2003
Gerard J. Foschini 2004
Krishan Sabnani 2005
Robert A. Scholtz 2006
Moe Z. Win 2006
Michael G. Luby 2007
Amin Shokrollahi 2007
Thomas L. Koch 2008
Roberto Padovani 2009
Reinaldo Valenzuela 2010
H. Vincent Poor 2011
Jack H. Winters 2012
Andreas F. Molisch 2012
Siavash Alamouti 2013
Hamid Jafarkhani 2013
Vahid Tarokh 2013
Alan Eli Willner 2014
Sanjoy Mitter 2015
Shuo-Yen Robert Li 2016
Raymond W. Yeung 2016
Ning Cai 2016
William C. Lindsey 2017
Peter W. Shor 2018
Andrea J. Goldsmith 2019
Theodore S. Rappaport 2020
En-Hui Yang 2021

**Nikola Tesla Award**

Award Recipients with Citations (PDF, 33 KB)

The IEEE Nikola Tesla Award was established in 1975 and is presented for outstanding contributions to the generation and utilization of electric power. The award is sponsored by The Grainger Foundation and the IEEE Power and Energy Society.

Leon T. Rosenberg 1976
Cyril G. Weinott 1977
Charles H. Holley 1978
John W. Batchelor 1979
Philip H. Trickey 1980
Dean B. Harrington 1981
Sakae Yamamura 1982
No Award 1983
Herbert H. Woodson 1984
Eugene C. Whitney 1985
Eric R. Laithwaite 1986
J. Coleman White 1987
Edward I. King 1988
Dietrich R. Lambrecht 1989
Gordon R. Slemmon 1990
Michel E. Poloujadoff 1991
Thomas H. Barton 1992
Madabushi V. K. Chari 1993
Carl Flick 1994
Thomas A. Lipo 1995

John A. Tegopoulos 1996
Prabha Kundur 1997
Paul L. Dandeno 1998
Nabeel Aly Omar Demerdash 1999
Syed A. Nasar 2000
Steve Williamson 2001
James L. Kirtley 2002
Austin H. Bonnett 2003
Sheppard J. Salon 2004
Thomas M Jahns 2005
Konrad Reichert 2006
Thomas W. Nehl 2007
T. J. E. Miller 2008
Donald Wayne Novotny 2009
Paul C. Krause 2010
Nady Boules 2011
Manoj R. Shah 2012
Norio Takahashi 2013
Hamit A. Toliyat 2014
Ion George Boldea 2015
Bruno Lequesne 2016
Adel Razek 2017
Longya Xu 2018
Tomy Sebastian 2019
Akira Chiba 2020
Zi-Qiang Zhu 2021

**Kiyo Tomiyasu Award**

Award Recipients with Citations (PDF, 16 KB)

The IEEE Kiyo Tomiyasu Award was established in 2000 and is awarded for outstanding early to mid-career contributions to technologies holding the promise of innovative applications. The award is sponsored by the Kiyo Tomiyasu Fund, and the IEEE Geoscience and Remote Sensing and Microwave Theory and Techniques Societies.

Casimer De Cusatis 2002
Keshab K. Parhi 2003
David B. Fogel 2004
Chai K. Toh 2005
Muhammad A. Alam 2006
Alberto Moreira 2007
George V. Eleftheriades 2008
Shih-Fu Chang 2009
Tsu-Jae King Liu 2010
Moe Z. Win 2011
Mung Chiang 2012
Carlos A. Coello Coello 2013
George Chrikikos 2014
Kaustav Banerjee 2015
Vivek Subramanian 2015
Yonina Eldar 2016
Emilio Frazzoli 2017
Nicholas Laneman 2018
Robert W. Heath, Jr. 2019
Jeffrey G. Andrews 2019
Andrea Alù 2020
Zhu Han 2021

**Transportation Technologies Award**

Award Recipients with Citations (PDF, 13 KB)
The IEEE Transportation Technologies Award was established in 2011 and is awarded for advances in technologies within the fields of interest to the IEEE as applied in transportation systems. The award is sponsored by IEEE Industry Applications Society, IEEE Industrial Electronics Society, IEEE Intelligent Transportation Systems Society, IEEE Microwave Theory and Techniques Society, IEEE Power Electronics Society, IEEE Power & Energy Society, and the IEEE Vehicular Technology Society.

Linos J. Jacovides 2014
Robert Dean King 2015
Petros Ioannou 2016
Claire Tomlin 2017
James C.C. Chan 2018
Hao Huang 2019
Markos Papageorgiou 2020
Philip T. Krein 2021

Undergraduate Teaching Award
Award Recipients with Citations (PDF, 23 KB)

The IEEE Undergraduate Teaching Award was established in 1990 and is presented for inspirational teaching of undergraduate students in the field of interest of IEEE. The award is sponsored by the IEEE Education Society.

James W. Nilsson 1992
Ronald G. Hoelzeman 1993
N. Narayana Rao 1994
David G. Meyer 1995
David A. Patterson 1996
Karan L. Watson 1996
Chand R. Viswanathan 1997
J. David Irwin 1998
Michael G. Pecht 1999
Haniph A. Lachman 2000
No Award 2001
No Award 2002
Mehrdad Ehsani 2003
Richard C. Jaeger 2004
Yannis Tsividis 2005
John B. Peatman 2006
Clayton R. Paul 2007
Muhammad Harunur Rashid 2008
John C. Bean 2009
Ned Mohan 2010
Raghunath K. Shevgaokar 2011
Santosh K. Kurinec 2012
Charles K. Alexander 2013
Hsi-Tseng Chou 2014
Branislav M. Notaros 2015
Terri Fiez 2016
Bonnie Heck Ferri 2017
Susan M. Lord 2018
Lisa Gresham Huettel 2019
Rajesh Kannan Megalingam 2020
Cristiane Agra Pimentel 2021

Vladimir K. Zworykin Award
Award Recipients with Citations (PDF, 12 KB)

The IEEE Vladimir K. Zworykin Award was presented for outstanding technical contributions in the field of electronic television. The award was discontinued in 1986.

B. D. Loughlin 1952
Frank Gray 1953
A. V. Bedord 1954
H. B. Law 1955
F. J. Bingley 1956
Donald Richman 1957
C. P. Ginsburg 1958
P. K. Weimer 1959
P. C. Goldmark 1961
G.A. Morton 1962
P.J. Rice, Jr. 1963
W. E. Evans, Jr. 1964
Norman F. Fyler 1965
Ray D. Kell 1966
Keiji Suzuki 1967
Kurt Schlesinger 1968
Otto H. Schade 1969
Charles H. Coleman 1970
Alfred C. Schroeder 1971
Robin E. Davies 1972
Albert Macovski 1973
Senri Miyaoika 1974
Eugene I. Gordon 1975
Ralph E. Simon 1975
Dalton H. Pritchard 1977
Sam Kaplan 1978
Albert M. Morrell 1979
Walter Bruch 1980
Naohiro Goto 1981
Jon K. Clemens 1983
Eugene O. Keizer 1983
Takehiro Kakizaki 1984
Yasuharu Kubota 1984
No award 1985
Norikazu Sawazaki 1986

To view discontinued awards go to the Engineering and Technology History Wiki at: https://ethw.org/IEEE_Awards