

**IEEE JAMES H. MULLIGAN, JR. EDUCATION MEDAL**  
**RECIPIENTS**

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| 2019 | JOHN G. WEBSTER<br>Professor Emeritus of<br>Biomedical Engineering,<br>University of<br>Wisconsin–Madison, Madison,<br>Wisconsin, USA  | “For excellence in classroom teaching as well as the production of numerous reference texts that have fostered the development of biomedical engineering as a discipline.” |
| 2018 | DELORES M. ETTER<br>Professor Emeritus,<br>Department of Electrical<br>Engineering, Southern<br>Methodist University, Dallas,<br>Texas, USA  | “For contributions to engineering through innovative textbooks on problem solving with computing languages and software tools.”  |
| 2017 | STEPHEN P. BOYD<br>Samsung Professor in the<br>School of Engineering;<br>Professor, Department of<br>Electrical Engineering;<br>Professor (by courtesy),<br>Department of Management<br>Science and Engineering;<br>Professor (by courtesy),<br>Department of Computer<br>Science, Stanford University,<br>Stanford, California, USA | “For inspirational education of students and researchers in the theory and application of optimization.”   |
| 2016 | SIMON S. HAYKIN<br>Distinguished University<br>Professor, Electrical and<br>Computer Engineering,<br>McMaster University,<br>Hamilton, Ontario, Canada   | “For contributions to engineering education in adaptive signal processing and communication.”  |
| 2015 | RICHARD GORDON BARANIUK<br>Victor E. Cameron Professor<br>of Electrical and Computer<br>Engineering, Rice University,<br>Houston, Texas, USA   | “For fundamental contributions to open educational resources for electrical engineering and beyond.”   |
| 2014 | JOHN GEORGE PROAKIS<br>Professor Emeritus,<br>Northeastern University,<br>Winchester,<br>Massachusetts, USA  | “For contributions to electrical engineering education through influential textbooks and inspiring leadership in integrating research and education.”                      |

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2013	J. DAVID IRWIN Earle C. Williams Eminent Scholar, Auburn University, Auburn, AL, USA	"For excellence in engineering education through creative and enduring leadership and innovative textbooks."
2012	FAWWAZ T. ULABY Chen-To Tai Professor of EECS, University of Michigan, Ann Arbor, MI, USA	"For contributions to undergraduate and graduate engineering education through innovative textbooks, dedicated mentoring of students, and inspirational teaching."
2011	RAJ MITTRA Professor of Electrical Engineering, Penn State University, University Park, PA, USA	"For contributions to graduate education, engineering research and research training in electromagnetic communication."
2010	RANDY H. KATZ Professor, Department of Electrical Engineering and Computer Sciences, Division of Computer Sciences, University of California, Berkeley, CA, USA	"For contributions to engineering education through influential textbooks, innovative curricular development, exceptional mentorship and inspired graduate and undergraduate teaching."
2009	JOSE B. CRUZ, JR. Distinguished Prof. of Engineering and Prof. of Electrical and Computer Engineering, Ohio State University, Columbus, OH, USA	"For excellence in engineering education through creative leadership, innovative textbooks, inspirational mentoring, and research contributions to circuits, controls and systems."
2008	JOSEPH BORDOGNA Alfred Fitler Moore Prof. of Engineering, University of Pennsylvania, Dept of Electrical and Systems Engineering Philadelphia, PA, USA	"For creative contributions to engineering education through leadership in integrating research and education."
2007	ANDREW S. TANENBAUM Prof. of Computer Science, Dept of Computer Science, Faculty of Sciences, Vrije Universiteit, Amsterdam, The Netherlands	"For contributions to education in computing, especially computer organization, networking and operating systems."

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2006	SANJIT K. MITRA Prof. of Electrical and Computer Engineering, University of California, Santa Barbara, CA	"For outstanding contributions to electrical engineering education through pioneering textbooks, innovative laboratory development, and curriculum reform."
2005	H. VINCENT POOR George Van Ness Lothrop Professor in Engineering, Princeton University, Princeton, NJ	"For leadership in electrical engineering education through inspired teaching, a classic textbook, innovative curricular development and research."
2004	PAUL R. GRAY Prof., Electrical Engineering & Computer Sciences, Executive Vice Chancellor & Provost Univ of California, Berkeley, CA	"For exemplary contributions to electrical engineering education through mentoring of students, an influential textbook, and University-wide academic leadership."
2003	YASUHARU SUEMATSU National Institute of Informatics Tokyo, Japan	"For outstanding leadership in graduate and undergraduate education as a mentor, professor, and president, and for pioneering contribution to research and education in optical communication devices."
2002	PETAR KOKOTOVIC Univ. of California Santa Barbara, CA	"For leadership in control engineering theory and engineering education as an inspirational teacher and mentor."
2001	BRIAN D.O. ANDERSON Australian Academy of Science, Australia	"For outstanding graduate texts of lasting value and far-reaching international influence, and for outstanding leadership in the development of electrical engineering education in Australia."
2000	DAVID A. PATTERSON University of California, Berkeley, CA	"For inspirational teaching through the development of creative curricula and teaching methodology, for important textbooks, and for effective integration of education and research missions."
1999	ANDRIES VAN DAM Brown University Providence, RI	"For his field-defining textbooks, the introduction of innovative educational technology, and inspired undergraduate teaching."
1998	STEPHEN W. DIRECTOR University of Michigan Ann Arbor, MI	"For contributions to electrical engineering education through innovative textbooks, leadership in undergraduate curriculum

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		reform, and inspired graduate teaching."
1997	DAVID A. HODGES University of California Berkeley, CA	"For innovative teaching of microelectronics, and pioneering education in semiconductor manufacturing."
1996	ADEL S. SEDRA University of Toronto Toronto, Ontario, Canada	"For outstanding contributions to electrical engineering education through textbooks, guiding and mentoring of students, research, and academic leadership."
1995	THOMAS KAILATH Stanford University Stanford, CA	"For leadership in graduate engineering education through a classic textbook in linear systems and creative interdisciplinary research."
1994	C. L. LIU University of Illinois Urbana, IL	"For leadership in engineering education through teaching and textbooks in mathematical foundations of computer science and system theory."
1993	RONALD A. ROHRER Carnegie-Mellon University Pittsburgh, PA	"For innovation in bringing electrical engineering practice into the classroom and merging academic research with industrial needs."
1992	RONALD W. SCHAFER Georgia Institute of Tech., Atlanta, GA	"For excellence in curriculum development, teaching, and textbooks in digital signal processing and digital speech processing."
1991	HERMANN A. HAUS Massachusetts Institute of Tech., Cambridge, MA	"For creative contributions to education in electromagnetic fields and waves, and quantum electronics."
1990	JAMES D. MEINDL Rensselaer Polytechnic Institute, Troy, NY	"For establishment of a pioneering academic program for the fabrication and application of integrated circuit."
1989	BEN G. STREETMAN University of Austin Austin, TX	"For leadership in engineering education at the undergraduate and graduate levels, for the contribution of a textbook used worldwide, and for creative research in solid-state electronics."
1988	ALAN V. OPPENHEIM Massachusetts Institute of Tech., Cambridge, MA	"For leadership in engineering education through teaching, textbooks, and video tape series in digital signal processing."

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1987	JOSEPH W. GOODMAN Stanford University Stanford, CA	"For leadership in engineering education through teaching and textbooks in optical signal processing."
1986	RICHARD B. ADLER Massachusetts Inst. of Tech. Cambridge, MA	"For leadership in engineering education through teaching and textbooks in semiconductor electronics and electromagnetics."
1985	JAMES FRANKLIN GIBBONS Stanford University Stanford, CA	"For development of the concept of tutored video instruction and outstanding teaching and research contributions in semiconductor electronics."
1984	ATHANASIOS PAPOULIS Polytechnic Institute of Tech. Farmingdale, NY	"For inspirational leadership in teaching through thought-provoking lectures, research, and creative textbooks in signal analysis, stochastic processes, and systems."
1983	MISCHA SCHWARTZ Columbia University New York, NY	"For leadership in engineering education through devoted teaching and publication of outstanding textbooks."
1982	KING-SUN FU Purdue University West Lafayette, IN	"For contributions to engineering education through inspired teaching and research in computer engineering, system theory and pattern recognition."
1981	ERNEST S. KUH University of California Berkeley, CA	"For leadership in engineering education and contributions to research in circuits and systems."
1980	ALDERT VAN DER ZIEL University of Minnesota Minneapolis, MN	"For leadership in engineering education, and for contributions to noise theory in electronic devices."
1979	JOHN R. RAGAZZINI New York University New York, NY	"For leadership in engineering education and pioneering research in sampled-data control systems."
1978	HAROLD A. PETERSON University of Wisconsin Madison, WI	"In recognition of contributions to engineering education through teaching and research in power systems."
1977	ROBERT M. FANO	"For leadership in engineering education

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	Massachusetts Institute of Tech., Cambridge, MA	through teaching and outstanding research in computer science, information theory, and electromagnetic theory."
1976	JOHN G. LINVILL Stanford University Stanford, CA	"For leadership as a teacher, author and administrator, and for contributions in solid-state electronics and technology."
1975	CHARLES A. DESOER University of California Berkeley, CA	"For innovative teaching through publication of standards-setting textbooks and through dedicated and inspired supervision of a generation of highly successful students."
1974	JOHN G. TRUXAL State University of New York Stony Brook, NY	"For pioneering the introduction of engineering concepts into the high-schools and for his outstanding textbooks and leadership in engineering education."
1973	LOTFI A. ZADEH University of California Berkeley, CA	"For inspired and dedicated teaching, and distinguished leadership in system theory."
1972	MAC ELWYN VAN VALKENBURG Princeton University Princeton, NJ	"For outstanding textbooks in circuit theory, innovations in undergraduate teaching, inspired guidance of students, and professional leadership in electrical engineering."
1971	FRANZ OLLENDORFF Israel Institute of Technology Haifa, Israel	"For contributions to the teaching of electrical engineering, especially the preparation of classic texts on electromagnetic fields, and for leadership in building a distinguished program in a new institute."
1970	JACOB MILLMAN Columbia University New York, NY, USA	"For his impact in the areas of electronic devices and circuits through his outstanding textbooks and his stimulating teaching."
1969	DONALD O. PEDERSON University of California Berkeley, CA	"For inspiring teaching and for educational leadership in electronics, notably integrated circuits."
1968	EDWARD C. JORDAN University of Illinois Urbana, IL	"For leadership in bringing new technological developments into electrical engineering education, and in creating an integration of research with education in a major

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		department."
1967	JOHN R. WHINNERY University of California Berkeley, CA	"For his outstanding teaching, his inspired leadership in educational administration, and his excellent pioneering textbooks."
1966	WILLIAM H. HUGGINS The Johns Hopkins University Baltimore, MD	"For his creative approach to and extraordinary effectiveness in teaching; and for his abiding interest in and rapport with students."
1965	HUGH HILDRETH SKILLING Stanford University Stanford, CA	"For leadership in undergraduate education and, in particular, for innovation and lucid exposition of complex ideas in his textbooks."
1964	B. RICHARD TEARE, JR. Carnegie Institute of Technology Pittsburgh, PA	"In recognition of his dedication to excellence in the field of teaching, his singular devotion to improvement of this art, his outstanding contributions to the technology of his profession, and his ability to combine a keen sense of practical values with a thorough grounding in science to solve general problems of staff and curricula development in engineering."
1963	WILLIAM G. DOW University of Michigan Ann Arbor, MI	"For his outstanding contributions to teaching, to educational theory and to research, and his inspiring leadership in faculty development."
1962	ERNST A. GUILLEMIN Massachusetts Institute of Technology, Cambridge, MA	"For inspirational and intellectual leadership in the revolutionary changes in engineering education."
1961	GEORGE F. CORCORAN University of Maryland College Park, MD	"For his contributions to electrical engineering education both in classroom teaching and in the creating of a series of undergraduate text books which have had far reaching influence on the education of electrical engineers."
1960	ERNST WEBER Brooklyn Polytechnic Institute Brooklyn, NY	"For excellence as a teacher in science and electrical engineering, for creative contributions in research and development, for broad professional and administrative leadership and in all for a considerate approach to human relations."

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1959	GORDON S. BROWN Massachusetts Institute of Technology Cambridge, MA	No citation given
1958	J. F. CALVERT University of Pittsburgh Pittsburgh, PA	No citation given
1957	W. L. EVERITT University of Illinois Urbana, IL	No citation given
1956	F. E. TERMAN Stanford University Stanford CA	No citation given