

IEEE ALEXANDER GRAHAM BELL MEDAL
RECIPIENTS

2020	RAJIV LAROKIA Founder & CTO, Light Company, Far Hills, New Jersey, USA	"For contributions to cellular wireless data systems."
2019	TERESA HUAI-YING MENG Professor Emeritus, Reif Weaver Dennis Professor in Electrical Engineering and Professor of Computer Science, Stanford, California, USA	"For technical contributions to and leadership in the development of wireless semiconductor technology."
2018	NAMBIRAJAN SESHADRI Former Chief Technology Officer, Broadcom Corporation, Irvine, California, USA	"For contributions to the theory and practice of wireless communications."
2017	H. VINCENT POOR Michael Henry Strater University Professor of Electrical Engineering, Princeton University, Princeton, NJ, USA	"For fundamental contributions to signal processing and its application to digital communications."
2016	ROBERTO PADOVANI Executive Vice President and Fellow, Qualcomm Technologies, San Diego, CA, USA	"For innovations enabling efficient, wideband, wireless access to the Internet, that is central to all third-generation cellular networks."
2015	FRANK KELLY Professor, University of Cambridge, Cambridgeshire, United Kingdom	"For creating principled mathematical foundations for the design and analysis of congestion control, routing, and blocking in modern communication networks."
2014	DARIUSH DIVSALAR Senior Research Scientist, Jet Propulsion Laboratory, Pasadena, CA, USA	"For fundamental contributions to the theory and practice of channel codes that transformed deep space and other forms of wireless communications."
2013	ANDREW R. CHRAPLYVY Optical Technologies Research vice-president, Alcatel-Lucent, Holmdel, NJ, USA	"For contributions to the science and technology of optical communications enabling high-speed wavelength division multiplexing through the mitigation of the effects of fiber nonlinearity."
AND	ROBERT WILLIAM TKACH Director of the Advanced Photonics Research Department	

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at Bell Labs, Alcatel-Lucent,
Holmdel, NJ, USA

2012	LEONARD KLEINROCK Professor, Computer Science Department, University of California, Los Angeles, Los Angeles, CA, USA	"For pioneering contributions to modeling, analysis, and design of packet-switching networks."
2011	AROGYASWAMI J. PAULRAJ Professor (Emeritus), Stanford University, Stanford, CA, USA	"For pioneering contributions to the application of multiantenna technology to wireless communication systems."
2010	JOHN M. CIOFFI Hitachi America Professor of Electrical Engineering, Stanford University, Stanford, CA, USA	"For pioneering discrete multitone modem technology as the foundation of the global DSL industry."
2009	ROBERT J. MCELIECE Allan E. Puckett Professor and Professor of Electrical Engineering California Institute of Technology Pasadena, CA, USA	"For fundamental contributions to the theory and practice of error-correcting codes and to the design of deep space telecommunication systems."
2008	GERARD J. FOSCHINI Bell Labs Fellow, Wireless Communications Research Department, Bell Laboratories, Alcatel-Lucent, Holmdel, NJ, USA	"For seminal contributions to the science and technology of multiple-antenna wireless communications."
2007	NORMAN ABRAMSON Vice President and CTO of SkyWare, Inc. San Francisco, CA, USA	"For contributions to the development of modern data networks through fundamental work in random multiple access"
2006	JOHN M. WOZENCRAFT Professor Emeritus, Electrical Engineering and Computer Science, MIT., Cambridge, MA, USA	"For the development of sequential decoding and the signal space approach to digital communication."
2005	JIM K. OMURA Technology Strategist, Gordon & Betty Moore Foundation, San	"For contributions to the theory of communication systems and the commercial applications of spread

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	Francisco, CA, USA	spectrum radios and public key cryptography."
2004	NOT AWARDED	
2003	JOACHIM HAGENAUER Munich University of Technology Munich, Germany	"For contributions to soft decoding and its application to iterative decoding algorithm"
2002	TSUNEO NAKAHARA Sumitomo Electric Industries Osaka, Japan	"For pioneering work on the design and development of manufacturing systems for optical fibers."
2001	NOT AWARDED	
2000	VLADIMIR A. KOTELNIKOV Russian Academy of Sciences Moscow, Russia	"For fundamental contributions to signal theory."
1999	DAVID G. MESSERSCHMITT University of California, Berkeley Berkeley, CA, USA	"For fundamental contributions to communications theory and practice, including VLSI for signal processing, and simulation and modeling software."
1998	RICHARD E. BLAHUT Dept. of Electrical & Computer Science University of Illinois, Urbana, IL, USA	"For contributions to error-control coding, particularly by combining algebraic coding theory and digital transform techniques"
1997	VINTON G. CERF Sr. Vice President MCI Telecommunications Corp. Reston, VA, USA	"For conceiving the Internet architecture and protocols, and for the vision and sustained leadership that led to the current Internet."
AND	ROBERT E. KAHN Founder and President Corp for National Research Initiative (CNRI), Reston, VA, USA	
1996	TADAHIRO SEKIMOTO NEC Corporation, Tokyo, Japan	"For pioneering contributions to digital satellite communications and industry leadership in developing digital communications."
1995	IRWIN M. JACOBS	"For outstanding contributions to

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	QUALCOMM, Inc., San Diego, CA, USA	telecommunications, including leadership, theory, practice and product development."
1994	HIROSHI INOSE NCSIS, Tokyo, Japan	"For pioneering contributions to digital switching and modulation, and for leadership in international telecommunications."
1993	DONALD C. COX Bellcore, Red Bank, NJ, USA	"For pioneering and leadership in personal portable communications."
1992	JAMES L. MASSEY Swiss Fed. Tech. University Zurich, Switzerland	"For contributions to the theory and practical implementation of forward-error- correcting codes, multi-user communications, and cryptographic systems; and for excellence in engineering education."
1991	C. CHAPIN CUTLER The Compromise, Waterford, ME, USA	"For the invention and development of predictive coding of pictures and picture sequences."
AND	JOHN O. LIMB Hewlett-Packard, Cupertino, CA, USA	
AND	ARUN N. NETRAVALI AT&T Bell Labs., Murray Hill, NJ, USA	
1990	PAUL BARAN Interfax Inc., Menlo Park, CA, USA	"For pioneering in Packet Switching."
1989	GERALD R. ASH	"For contributions to the conception and implementation of Dynamic Nonhierarchical Routing (DNHR) in telecommunications networks."
AND	BILLY B. OLIVER AT&T Bell Labs, Holmdel, NJ, USA	
1988	ROBERT M. METCALFE 3Com Corp., Santa Clara, CA, USA	"For contributions to the invention, standardization and commercialization of local area networks -- especially the Ethernet."
1987	JOEL S. ENGEL Satellite Business Systems	"For fundamental contributions to the theory, design and deployment of cellular

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	McLean, VA, USA	mobile communications systems."
AND	RICHARD H. FRENKIEL AT&T Information Systems Labs Holmdel, NJ, USA	
AND	WILLIAM C. JAKES, JR. AT&T Bell Labs, Andover, MA, USA	
1986	BERNARD WIDROW Stanford University, Palo Alto, CA, USA	"For fundamental contributions to adaptive filtering, adaptive noise and echo cancellation, and adaptive antennas."
1985	CHARLES K. KAO ITT Corp., Shelton, CT, USA	"For pioneering contributions to optical fiber communications."
1984	ANDREW J. VITERBI Linkabit Corp., San Diego, CA, USA	"For fundamental contributions to telecommunication theory and practice and for leadership in teaching."
1983	STEPHEN O. RICE Univ. of California, San Diego, CA, USA	"For his contributions to the fundamental understanding of communications systems and to the underlying mathematics, and for inspiring younger scientists and engineers."
1982	HAROLD A. ROSEN Hughes Aircraft Company El Segundo, CA, USA	"For pioneering contributions to, and leadership in, geostationary communication satellites."
1981	DAVID SLEPIAN Bell Labs, Murray Hill, NJ, USA	"For fundamental contributions to communication theory."
1980	RICHARD R. HOUGH AT&T, Basking Ridge, NJ, USA	"For his contributions to the nationwide and international telephone network and, particularly, the introduction of electronic switching therein."
1979	A. CHRISTIAN JACOBÆUS Telefonaktiebolaget Stockholm, Sweden	"For pioneering work in the theory of switching systems and technical leadership in the development of telecommunication systems."
1978	M. ROBERT AARON Bell Labs, Holmdel, NJ, USA	"For personal contributions to, and leadership in, the practical realization of

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- high-speed digital communications."
- AND JOHN S. MAYO
Bell Labs, Murray Hill, NJ, USA
- AND ERIC E. SUMNER
Bell Labs, Whippany, NJ, USA
- 1977 EBERHARDT RECHTIN "For pioneering and lasting contributions to
Hewlett-Packard Co., deep-space-vehicle communications
Palo Alto, CA, USA technology and for leadership in defense
telecommunications."
- 1976 AMOS E. JOEL, JR. "For conception and development of
Electronic Switching Systems and their
effective introduction into a nation-wide
telephone system."
- AND WILLIAM KEISTER
- AND RAYMOND W. KETCHLEDGE
Bell Telephone Labs, Inc.,
Holmdel, NJ, USA