

**IEEE SIMON RAMO MEDAL  
RECIPIENTS**

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|---|---|---|
| 2022  | PRAVIN P. VARAIYA (LFIEEE)—<br>Professor Emeritus, Graduate<br>School, University of California,<br>Berkeley, Berkeley, California, USA   | “For seminal contributions to the engineering,<br>analysis, and design of complex energy,<br>transportation, and communication systems.”  |
| 2021  | ELISABETH PATÉ-CORNELL<br>(nonmember)—Department Head,<br>Management Science and<br>Engineering, Stanford University,<br>Stanford, California, USA  | “For sustained leadership in developing theory<br>and applications of probability risk analysis for the<br>design and evaluation of complex engineering<br>systems.”  |
| 2020  | BYRANA N. SURESH<br>Honorary Distinguished Professor,<br>Indian Space Research<br>Organization, Karnataka,<br>Bangalore, India  | “For outstanding leadership in developing a<br>national space program and pioneering space<br>technology.”  |
| AND   |   |   |
| K. SIVAN<br>Chairman, Indian Space Research<br>Organization, Karnataka,<br>Bangalore, India |   |   |
| 2019  | HAROLD LAWSON<br>Consultant, Lawson Konsult AB,<br>Stockholm, Sweden  | “For pioneering contributions to computer<br>systems, systems engineering, and standards.”  |
| 2018  | HEINZ STOEWER<br>President, Space Associates<br>GmbH, Muenchen, Germany   | “For pioneering accomplishments in and technical<br>leadership of space systems engineering, and for<br>profound influence on teaching and practice of<br>systems engineering.”                                   |
| 2017  | JOHN BARAS<br>Professor, University of Maryland,<br>College Park, Maryland, USA   | “For exceptional contributions to the conception<br>and commercialization of internet-over-satellite<br>systems, and for leadership in model-based<br>engineering, systems science, and engineering<br>research.” |
| 2016  | JOHN LEHOCZKY<br>Thomas Lord Professor of Statistics<br>and Mathematical Sciences, Dean<br>of the College of Humanities and<br>Social Sciences, Carnegie Mellon<br>University, Pittsburgh,<br>Pennsylvania, USA | “For technical leadership and contributions to<br>fundamental theory, practice, and standardization<br>for engineering real-time systems.”  |
| AND   |   |   |
| RAGUNATHAN RAJKUMAR<br>George Westinghouse Professor,                                       |   |   |

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Department of Electrical and  
Computer Engineering, Carnegie  
Mellon University, Pittsburgh,  
Pennsylvania, USA

- AND LUI SHA  
Donald B. Gillies Professor,  
Department of Computer Science,  
University of Illinois at Urbana-  
Champaign, Urbana, Illinois, USA
- 2015 PAUL KAMINSKI  
Chairman and Chief Executive  
Officer, Technovation Inc.,  
Sterling, Virginia, USA  
"For leading the development of advanced low-  
observable airborne systems, including the F-117,  
and the supporting tools, training, and weapons."
- 2014 LYNDON EVANS  
Director, Linear Collider  
Collaboration, European  
Centre for Particle Physics (CERN),  
Geneva, Switzerland  
"For systems leadership of the Large Hadron  
Collider Project from conceptual design  
through completion of construction."
- 2013 GENTRY LEE  
Chief Engineer, Solar System  
Exploration Directorate, Jet  
Propulsion Laboratory (JPL),  
Pasadena, CA, USA  
"For four decades of spacecraft system  
engineering excellence enabling space science  
projects, from the Viking landers to the Phoenix  
Mars polar lander."
- 2012 WILLIAM "RED" WHITTAKER  
Fredkin University Professor,  
Carnegie Mellon University,  
Pittsburgh, PA, USA  
"For pioneering contributions to mobile  
autonomous robotics, field applications of  
robotics, and systems engineering."
- 2011 NEIL SIEGEL  
Sector Vice-President and Chief  
Engineer, Northrop Grumman  
Information Systems, Carson, CA,  
USA  
"For the pioneering engineering that lead to the  
successful development of the digital battlefield, a  
lifesaving and integral part of US Army  
operations."
- 2010 BARRY W. BOEHM  
TRW Professor of Software  
Engineering, University of  
Southern California, Viterbi School  
of Engineering,  
Los Angeles, CA, USA  
"For leadership in and innovative solutions to the  
integration of systems engineering and software  
engineering."
- 2009 ALBERT F. MYERS  
Consultant, La Habra Heights, CA,  
USA  
"For invaluable contributions to the flight-control  
system and flight testing of the B-2 stealth  
bomber, which has indelibly changed how air

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warfare is conducted."

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| 2008 | <p>CHRYSOSTOMOS L. (MAX) NIKIAS<br/>Provost and Senior Vice President<br/>for Academic Affairs, Professor of<br/>Electrical Engineering-Systems<br/>University of Southern California<br/>Los Angeles, CA, USA</p> | <p>"For outstanding leadership in engineering systems research and education, and for pioneering contributions to integrated media systems for the entertainment industry."</p> |
| 2007 | <p>VICTOR B. LAWRENCE<br/>Stevens Institute of Technology,<br/>Associate Dean and Batchelor<br/>Chair Professor of Electrical &amp;<br/>Computer Engineering, Hoboken,<br/>NJ, USA</p>                             | <p>"For technical innovation and leadership in the systems engineering of worldwide data communications networks."</p>  |
| 2006 | <p>DONALD C. WETZEL<br/>Retired, Co-Founder, Chairman<br/>and Sales Manager, Electronic<br/>Signature Verification Systems,<br/>Dallas, TX, USA</p>  | <p>"For conceiving, implementing, and promoting the Automatic Teller Machine (ATM)."</p>  |
| 2005 | <p>NEAL A. RICHARDSON<br/>Retired, TRW Corp<br/>Rancho Palos Verdes, CA, USA</p>   | <p>"For pioneering conception, design and demonstration of a practical hybrid automobile power train providing extremely low exhaust emissions and high fuel efficiency."</p>   |
| AND  | <p>GEORGE H. GELB<br/>Retired, TRW Corp and private<br/>consultant<br/>Rancho Palos Verdes, CA, USA</p>  |   |
| AND  | <p>BARUCH BERMAN<br/>Retired, TRW Corp and private<br/>consultant,<br/>Rancho Palos Verdes, CA, USA</p>  |   |
| 2004 | <p>BORIS E. CHERTOK<br/>Rocket-Space Corporation<br/>"Energy"<br/>Moscow, Russia</p>   | <p>"For significant contributions to systems engineering and technical leadership of control systems design for the orbiting space station Mir (Peace)."</p>                    |
| AND  | <p>NIKOLAI N. SHEREMETEVSKY<br/>Advisor to Director<br/>All-Russia Institute for<br/>Electromechanics, Moscow, Russia</p>  |   |
| 2003 | <p>DAVID HEEBNER<br/>Consultant, McLean, VA, USA</p>   | <p>"For leadership in introducing towed line array sonar systems for long range detection of submarines."</p>   |
| 2002 | <p>BRADFORD W. PARKINSON<br/>Stanford University</p>   | <p>"For leading the concept development and the reduction to practice the satellite-based,</p>  |

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	Stanford, CA, USA	worldwide navigation system known as the global positioning system (GPS)."
2001	KURT E. PETERSEN President & COO, CEPHEID Sunnyvale, CA, USA	"For contributions to micro-electromechanical systems (MEMS) science and technology and their integration into systems applications."
2000	ANDREW P. SAGE George Mason University Fairfax, VA, USA	"For outstanding contributions to the field of systems engineering."
1999	NO AWARD	
1998	NO AWARD	
1997	NO AWARD	
1996	DONALD J. LEONARD AT&T Bell Laboratories Murray Hill, NJ, USA	"For engineering leadership in design and development of intelligent networks, digital electronic switching, transmission and signaling systems, and network databases."
1995	JOSEPH T. THRESTON Martin Marietta Corporation Moorestown, NJ, USA	"For leadership of the design, development and production of the AEGIS ship combat system."
1994	JACK M. SIPRESS AT&T Bell Laboratories Holmdel, NJ, USA	"For technical leadership in planning, developing, and implementing the first international long haul lightwave submarine cable system."
1993	CLAUD M. DAVIS IBM Corporation Poughkeepsie, NY, USA	"For leadership in the pioneering development of computer-aided air traffic control systems."
1992	NO AWARD	
1991	PAUL E. GREEN, JR. IBM Corporation Yorktown Heights, NY, USA	"For the introduction of modern system techniques to the interpretation of seismic waves, and the application of these techniques to distinguishing earthquakes from underground nuclear explosions."
1990	NO AWARD	
1989	EDWARD H. SUSSENGUTH IBM Corporation Research Triangle Park, NC, USA	"For system engineering of a major computer communication network."
1988	JOHN S. MAYO	"For technical leadership in the development and

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|      | AT&T Bell Laboratories<br>Murray Hill, NJ, USA                           | implementation of the world's largest integrated digital communications network."  |
| 1987 | WILLIAM W. SIMMONS<br>TRW Space & Tech. Group,<br>Redondo Beach, CA, USA | "For the establishment and application of fundamental system design principles to the practical design and construction of very large solid-state laser facilities."   |
| 1986 | ARNALDO MARIA ANGELINI ENEL<br>Rome, Italy                               | "For technical and managerial leadership in the integration of the Italian electric power system and for contributions to education in Systems Science and Engineering."                                     |
| 1985 | NO AWARD   |  |
| 1984 | SAMUEL C. PHILLIPS<br>TRW, Inc., Los Angeles, CA, USA                    | "For technical leadership in system engineering leading to the success of the Apollo lunar program and of various space and missile programs enhancing national security and expanding technical frontiers." |