

**IEEE MEDAL FOR ENVIRONMENTAL AND SAFETY TECHNOLOGIES  
RECIPIENTS**

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| 2021 | KAUSHIK RAJASHEKARA<br>(LFIEEE)—Distinguished<br>Professor of Engineering,<br>Department of Electrical &<br>Computer Engineering,<br>University of Houston, Houston,<br>Texas, USA   | “For contributions to the advancement of<br>transportation electrification technologies<br>for the reduction of emissions and for<br>improving energy efficiency.” |
| 2020 | NANCY LEVESON<br>Professor of Aeronautics and<br>Astronautics, MIT, Cambridge,<br>Massachusetts, USA   | “For contributions to software safety and<br>for the development of system safety<br>modeling.”  |
| 2019 | RICHARD NUTE<br>Consultant, Bend, Oregon, USA<br><br>AND<br><br>RAY CORSON<br>Consultant, Queritas, Loveland,<br>Illinois, USA<br><br>AND<br><br>JAMES GORDON BARRICK, JR.<br>Senior Manager, eDiscovery<br>and Digital Forensics, Western<br>Digital, Milipitas, California,<br>USA | “For contributions to hazard-based safety<br>engineering as the basis for product<br>design and product safety standard<br>development.”                           |
| 2018 | JEROME FAIST<br>Professor, ETH Zurich, Zurich,<br>Switzerland<br><br>AND<br><br>FRANK KLAUS TITTEL<br>J.S. Abercrombie Professor in<br>Electrical and Computer<br>Engineering, Professor of<br>Bioengineering, Rice University,<br>Houston, Texas, USA                               | “For pioneering contributions to the<br>quantum cascade laser and optical<br>chemical sensors for environmental<br>sensing.”                                       |
| 2017 | ALBERTO BROGGI<br>Professor, University of Parma–<br>VisLab, Parma, Italy  | “For leadership in vehicular<br>environmental perception, and for<br>setting worldwide milestones in safe and<br>reliable intelligent vehicles.”                   |

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2016	MASAHIKO MIYAKI Executive Vice President, DENSO Corporation, Kariya-shi, Japan	"For development of electronic multipoint fuel-injection systems, enabling fuel-efficient and low-emission diesel engines."
AND	YUKIHIRO SHINOHARA Executive Director, DENSO Corporation, Kariya-shi, Japan	
AND	KATSUHIKO TAKEUCHI Head of Business Unit, DENSO Corporation, Kariya-shi, Japan	
2015	RODOLFO SCHOENEBURG Daimler AG, Sindelfingen, Baden-Württemberg, Germany	"For significant contributions to automotive safety through crash prevention and passenger protection using sensors, warning systems, and autonomous restraint systems."
AND	MARICA PAUREVIC Daimler AG, Sindelfingen, Baden-Württemberg, Germany	
AND	HANS WEISBARTH Daimler AG, Sindelfingen, Baden-Württemberg, Germany	
2014	No award	
2013	TSUNEO TAKAHASH President, NF Corporation, Yokohama, Japan	"For pioneering the development of navigation technology in automobiles."
2012	JOHN BANNISTER GOODENOUGH Virginia H. Cockrell Centennial Professor of Engineering, The University of Texas at Austin, Austin, TX, USA	"For developing the lithium-ion battery, which enables significant fuel conservation and reduced emissions as power storage for electric vehicles and for smartgrids incorporating renewables."
AND	RACHID YAZAMI Professor of Materials Science and Engineering, Nanyang Technological University (NTU), Singapore	
AND	AKIRA YOSHINO Fellow, Asahi Kasei Corporation, Fuji-shi, Shizuoka,	

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Japan

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| 2011 | SHOICHI SASAKI<br>Professor, Graduate School of<br>System Design and<br>Management, Keio University,<br>Yokohama, Japan        | "For pioneering contributions to the<br>development and market penetration of<br>hybrid electric vehicles (HEVs) through<br>the invention of their power output<br>apparatus and control method." |
| 2010 | JOHN L. (LARRY) CHALFAN<br>Executive Director (retired),<br>Zero Waste Alliance,<br>Portland, OR, USA,                         | "For developing and bringing into<br>operation EPEAT, the Electronic Product<br>Environmental Assessment Tool, that<br>measures product's environmental<br>performance."                          |
| AND  | VICCY SALAZAR<br>Lead, Waste reduction,<br>Resource conservation and<br>Stewardship,<br>US EPA Region 10,<br>Seattle, WA, USA, |   |
| AND  | WAYNE F. RIFER<br>Director, EPEAT Standards and<br>Compliance Verification,<br>Green Electronics Council,<br>Portland, OR, USA |   |