

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

- |      |  |   |
|------|--|---|
| 2022 | MASATO SAGAWA<br>(nonmember)—President,<br>NDFEB Corporation, Kyoto,<br>Japan  | “For contributions to the development of rare earth-iron-boron permanent magnets for use in high-efficiency motors, generators, and other devices.”       |
|      | AND  |   |
|      | JOHN J. CROAT (nonmember)—<br>President, John Croat<br>Consulting, Inc., Naples,<br>Florida, USA   |   |
| 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 transportation electrification technologies for the reduction of emissions and for improving energy efficiency.” |
| 2020 | NANCY LEVESON<br>Professor of Aeronautics and<br>Astronautics, MIT, Cambridge,<br>Massachusetts, USA   | “For contributions to software safety and for the development of system safety modeling.”   |
| 2019 | RICHARD NUTE<br>Consultant, Bend, Oregon, USA  | “For contributions to hazard-based safety engineering as the basis for product design and product safety standard development.”                           |
|      | AND  |   |
|      | RAY CORSON<br>Consultant, Queritas, Loveland,<br>Illinois, USA   |   |
|      | AND  |   |
|      | JAMES GORDON BARRICK, JR.<br>Senior Manager, eDiscovery<br>and Digital Forensics, Western<br>Digital, Milpitas, California,<br>USA   |   |
| 2018 | JEROME FAIST<br>Professor, ETH Zurich, Zurich,<br>Switzerland  | “For pioneering contributions to the quantum cascade laser and optical chemical sensors for environmental sensing.”                                       |
|      | AND  |   |

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	FRANK KLAUS TITTEL J.S. Abercrombie Professor in Electrical and Computer Engineering, Professor of Bioengineering, Rice University, Houston, Texas, USA	
2017	ALBERTO BROGGI Professor, University of Parma- VisLab, Parma, Italy	"For leadership in vehicular environmental perception, and for setting worldwide milestones in safe and reliable intelligent vehicles."
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	"For developing the lithium-ion battery, which enables significant fuel conservation and reduced emissions as power storage for electric vehicles and

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