

## **IEEE WILLIAM E. NEWELL POWER ELECTRONICS AWARD**

### **RECIPIENTS**

- 2024 – DAVID J. PERREAULT  
Ford Foundation Professor of  
Engineering, The Massachusetts  
Institute of Technology, Cambridge,  
Massachusetts, USA  
“For contributions to the development of  
very-high-frequency power converters.”
- 2023 – DRAGAN MAKSIMOVIC  
Professor, Department of Electrical,  
Computer, and Energy Engineering,  
University of Colorado, Boulder,  
Colorado, USA  
“For contributions to digital control,  
modeling, and topologies of switched-  
mode power supplies.”
- 2022 – FANG ZHENG PENG  
University Distinguished Professor,  
Florida State University,  
Tallahassee, Florida, USA  
“For the development of cascaded  
multilevel inverters and high-power  
converter topologies, and for their  
advancement in grid-scale applications.”
- 2021 – ROBERT W. ERICKSON  
Professor, University of Colorado at  
Boulder, Boulder, Colorado, USA  
“For contributions to power electronics  
education and analysis, modeling, and  
design of power converters.”
- 2020 – IVO BARBI  
Emeritus Professor, Federal  
University of Santa Catarina,  
Florianopolis, Brazil  
“For contributions to soft-switching  
converter technologies and power  
electronics education.”
- 2019 – PATRIZIO VINCIARELLI  
CEO, Vicor Corporation, Andover,  
Massachusetts, USA  
“For visionary leadership in the  
development of high-efficiency, high-  
power-density power conversion  
components for distributed power system  
applications.”
- 2018 – RAINER MARQUARDT  
Professor for Power Electronics and  
Control, Universität der Bundeswehr  
München, Neubiberg, Germany  
“For development of the modular  
multilevel converter application in medium  
drives and high-voltage DC transmission  
systems.”
- 2017 – SEUNG-KI SUL  
Professor, Department of Electrical  
and Computer Engineering, Seoul  
National University, Seoul, Korea  
“For contributions to the sensorless  
control of rotating field electrical  
machines”
- 2016 – JOHANN W. KOLAR  
Professor, Power Electronic Systems  
Laboratory, ETH Zurich, Zurich,  
Switzerland  
“For contributions to the advancement of  
three-phase pulse-width modulation  
(PWM) converter systems and power  
electronics education.”
- 2015 – SHU YUEN RON HUI  
“For contributions to power electronics

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### RECIPIENTS

- Professor (Jointly) University of Hong Kong and Imperial College London, Department of Electrical & Electronic Engineering, University of Hong Kong applications in planar wireless charging and sustainable lighting technology."
- 2014 – FREDE BLAABJERG  
Professor, Aalborg University, Department of Energy Technology, Aalborg, Denmark "For contributions to power electronics in renewable energy and adjustable speed drives."
- 2013 – RIK W. DE DONCKER  
Professor Dr. ir. and Head of Institute for Power Electronics and Electrical Drives, RWTH Aachen University, Aachen, Germany and Director of E. ON Energy Research Center, RWTH Aachen University Honorary Doctor and Professor at Faculty for Electrical Engineering and Information Technology at Technical University Riga, Latvia "For contributions to the development of new components, topologies, and controls in power electronic systems."
- 2012 – LEO LORENZ  
Senior Principal, Infineon Technologies, Neubiberg, Germany "For contributions to the development of power semiconductor devices and integrated power modules."
- 2011 – PRAVEEN JAIN  
Professor and Canada Research Chair, Department of Electrical and Computer Engineering; Director, Queen's Centre for Energy and Power Electronics Research (ePOWER), Queen's University, Kingston, Ontario, Canada "For advancements in the theory and practice of high-frequency power conversion systems."
- 2010 – AKIO NAKAGAWA  
Fellow, Toshiba Corporation, Kawasaki, Japan "For development of non-latch-up IGBTs."
- 2009 – TADASHI FUKAO  
Independent Consultant, Yokohama, Japan "For contributions to the development of cycloconverters and bearingless drives."
- 2008 – ISTVAN NAGY  
Professor, Budapest University of Technology and Economics, Hungary "For leadership in the research, development, worldwide promotion, and university education in power electronics technology"
- 2007 – DUSHAN BOROYEVICH "For advancement of control, modeling,

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Professor, Virginia Polytechnic  
Institute & State University,  
Blacksburg, VA, USA

and design of switching power  
converters.”

2006 – DEEPAKRAJ M. DIVAN  
Georgia Institute of Technology,  
School of ECE,  
Atlanta, GA, USA

“For leadership in the development of soft-  
switching power converters.”

Prior to 2006, the IEEE William E. Newell Power Electronics Award was a society-level award and was presented from 1979 through 2005. Past society-level award recipients can be found by accessing <http://www.ieee-pels.org/awards/william-e-newell-award>.