IEEE NIKOLA TESLA AWARD
RECIPIENTS

2021 - ZI-QIANG ZHU
Professor, Department of Electronic and Electrical Engineering, University of Sheffield, Sheffield, South Yorkshire, United Kingdom
“For contributions to the design, modeling, control, and application of ac permanent magnet machines and drives.”

2020 - AKIRA CHIBA
Professor, Tokyo Institute of Technology, Tokyo Japan
“For contributions to bearingless and reluctance motors.”

2019 - TOMY SEBASTIAN
Director; Motor Drive Systems, Halla Mechatronics, Bay City, Michigan, United States
“For contributions to the design and application of high-performance permanent magnet synchronous machines to electric power steering.”

2018 - LONGYA XU
Professor, The Ohio State University, Columbus, Ohio, USA
“For contributions to design and control of efficient electric machines for wind power generation and electrified vehicles.”

2017 - ADEL RAZEK
Senior Research Director Emeritus, The National Center for Scientific Research, Gif Sur Yvette, France
“For contributions to coupled multiphysics modeling and design of electromagnetic systems.”

2016 – BRUNO LEQUESNE
President, E-Motors Consulting, LLC, Menomonee Falls, Wisconsin, USA
“For contributions to the design and analysis of actuators, sensors, and motors for automotive applications.”

2015 - ION GHEORGHE BOLDEA
Professor, University Politechnica Timisoara, Timisoara, Romania
“For contributions to the design and control of rotating and linear electric machines for industry applications.”

2014 - HAMID A. TOLIYAT
Professor and Director of Electric Power & Electronics Program, Texas A&M University, College Station, TX, USA
“For contributions to the design, analysis, and control of fault-tolerant multiphase electric machines.”

2013 - NORIO TAKAHASHI
Professor, Department of Electrical and Electronic Engineering, Okayama University, Okayama, Japan
“For contributions to finite element modeling, analysis, and optimal design tools of electrical machines.”

2012 - MANOJ R. SHAH
Senior Engineer, General Electric
“For advancements in electromagnetic design and analysis of electrical machines.”
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RECIPIENTS

Company,
Niskayuna, NY, USA

2011 – NADY BOULES
Director, Electrical & Controls
Integration Research Lab
General Motors Global Res. & Dev.
Warren, MI, USA
“For contributions to the design, analysis
and optimization of permanent magnet
machines and for advancing their
utilization in the automotive industry.”

2010 – PAUL C. KRAUSE
Professor, Purdue University
West Lafayette, IN, USA
“For outstanding contributions to the
analysis of electric machinery using
reference frame theory.”

2009 – DONALD WAYNE NOVOTNY
Professor (Emeritus),
Univ of Wisconsin
Madison, WI, USA
“For pioneering contributions to the
analysis and understanding of ac machine
dynamic behavior and performance in
adjustable-speed drives.”

2008 - TIMOTHY J. E. MILLER
Professor of Electrical Engineering
and Director, SPEED Consortium,
University of Glasgow,
United Kingdom
“For outstanding contributions to the
advancement of computer-based design
and analysis of electric machines and their
industrial dissemination”

2007 – THOMAS W. NEHL
Delphi Corporation
Shelby Township, MI, USA
“For pioneering contributions to the
simulation and design of electromechanical
drives and actuators for automotive
applications.”

2006 - KONRAD REICHERT
ETH Zentrum
Zurich, Switzerland
“For contributions to the development of
numerical methods and computer analysis
and simulation of electrical machines and
devices.”

2005 – THOMAS M. JAHNS
Grainger Professor of Power
Electronics and Electrical Machines
University of Wisconsin
Madison, WI, USA
“For pioneering contributions to the design
and application of AC permanent magnet
machines.”

2004 – SHEPPARD JOEL SALON
Professor, Electrical, Computer and
Systems Engineering Dept.
Rensselaer Polytechnic Institute
Troy, NY, USA
“For pioneering and outstanding
contributions to transient finite element
computation of electric machines coupled
to electronic circuits; and electro-
mechanical devices.”

2003 - AUSTIN H. BONNETT
VP of Technology, Emerson Electric
“For leadership in the development and
application of design standards,
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Electrical Apparatus Service Association (EASA), National Electrical Manufacturers Association (NEMA), Electric Power Research Institute (EPRI), and US Department of Energy and Affiliates (DOE)

"For contributions to the theoretical analysis, design, and construction of high performance rotating electric machinery, including superconducting turbogenerators."

2002 - JAMES L. KIRTLEY, Jr. Massachusetts Institute of Technology Cambridge, MA, USA

"For contributions to the theoretical analysis, design, and construction of high performance rotating electric machinery, including superconducting turbogenerators."

2001 - STEPHEN WILLIAMSON University of Manchester Manchester, U.K.

"For the development of advanced mathematical models and computational tools for induction machine design.”

2000 - SYED ABU NASAR University of Kentucky Lexington, KY, USA

"For leadership in the research, development and design of linear and rotating machines, and contributions to electrical engineering education."

1999 - NABEEL ALY OMAR DEMERDASH Marquette University Milwaukee, WI, USA

"For pioneering contributions to electric machine and drive system design using coupled finite-element network models."

1998 - PAUL DANDENO University of Toronto Toronto, Ontario, Canada

"For contribution to modelling and application of synchronous machines, power system controls, and stability analysis."

1997 - PRABHASHANKAR KUNDUR Powertech Labs Inc. Surrey, BC, Canada

"For contribution to modeling and application of synchronous machines, power system controls, and stability analysis."

1996 - JOHN A. TEGOPOULOS National Technical Univ. of Athens Athens, Greece

"For pioneering contributions in electrical machine design."

1995 - THOMAS A. LIPO University of Wisconsin Madison, WI, USA

"For pioneering contributions to the simulation and application of electric machinery in solid-state ac motor drives."

1994 - CARL FLICK TECHNO-LEXIC Westinghouse Electric Corporation Orlando, FL, USA

"For long-term creative contributions and leadership in the design and development of advanced high-speed generators."
<table>
<thead>
<tr>
<th>Year</th>
<th>Recipient Name</th>
<th>Affiliation</th>
<th>Country</th>
<th>Citation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1993</td>
<td>MADABUSHI V.K. CHARI</td>
<td>General Electric Co.</td>
<td>Schenectady, NY, USA</td>
<td>&quot;For pioneering contributions to finite element computations of nonlinear electromagnetic fields for design and analysis of electric machinery.&quot;</td>
</tr>
<tr>
<td>1992</td>
<td>THOMAS HERBERT BARTON</td>
<td>University of Calgary</td>
<td>Calgary, Alberta, Canada</td>
<td>&quot;For the practical application of the generalized theory of electrical machines to A.C. and D.C. drives.&quot;</td>
</tr>
<tr>
<td>1991</td>
<td>MICHEL E. POLOUJADOFF</td>
<td>University Pierre et Marie Curie</td>
<td>Paris, France</td>
<td>&quot;For contributions to the theory of electrical machinery and its application to linear induction motors.&quot;</td>
</tr>
<tr>
<td>1990</td>
<td>GORDON R. SLEMON</td>
<td>University of Toronto</td>
<td>Toronto, Ontario, Canada</td>
<td>&quot;For application of modeling in electric power equipment and technical leadership in power education.&quot;</td>
</tr>
<tr>
<td>1989</td>
<td>DIETRICH R. LAMBRECHT</td>
<td>Siemens AG</td>
<td>Ruhr, West Germany</td>
<td>&quot;For leadership and contributions to advances in large turbine generator design, construction, and application.&quot;</td>
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<tr>
<td>1988</td>
<td>EDWARD I. KING</td>
<td>Westinghouse Electric Corp.</td>
<td>Orlando, FL, USA</td>
<td>&quot;For contributions to computer-aided analysis and design of large rotating machinery.&quot;</td>
</tr>
<tr>
<td>1987</td>
<td>J. COLEMAN WHITE</td>
<td>Electric Power Research Institute</td>
<td>Palo Alto, CA, USA</td>
<td>&quot;For contributions to the research, development, and design of ac and dc rotating machines.&quot;</td>
</tr>
<tr>
<td>1986</td>
<td>ERIC R. LAITHWAITE</td>
<td>Imperial College of Science &amp; Tech.</td>
<td>London, England</td>
<td>&quot;For contributions to the development and understanding of electric machines and especially of the linear induction motor.&quot;</td>
</tr>
<tr>
<td>1985</td>
<td>EUGENE C. WHITNEY</td>
<td>Westinghouse Electric Corp.</td>
<td>Pittsburgh, PA, USA</td>
<td>&quot;For outstanding contributions to the development, design, and construction of large rotating electric machinery.&quot;</td>
</tr>
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<td>1984</td>
<td>HERBERT H. WOODSON</td>
<td>University of Texas</td>
<td>Austin, TX, USA</td>
<td>&quot;For contributions to power generation technology particularly in superconducting generators and magnetohydrodynamic generators.&quot;</td>
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<tr>
<td>1983</td>
<td>NO AWARD</td>
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<tr>
<td>1982</td>
<td>SAKAEO YAMAMURA</td>
<td>University of Tokyo</td>
<td>Tokyo, Japan</td>
<td>&quot;For contributions to the theory of linear induction motors and the development of magnetic levitation of track vehicles.&quot;</td>
</tr>
<tr>
<td>Year</td>
<td>Name</td>
<td>Institution</td>
<td>Location</td>
<td>Citation</td>
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<tr>
<td>1981</td>
<td>DEAN B. HARRINGTON</td>
<td>General Electric Co.</td>
<td>Schenectady, NY, USA</td>
<td>&quot;For contributions to the design, development and performance analysis of large steam turbine-generators.&quot;</td>
</tr>
<tr>
<td>1980</td>
<td>PHILIP H. TRICKY</td>
<td>Duke University</td>
<td>Durham, NC, USA</td>
<td>&quot;For advancement in the development and application of Tesla's theories through precise designs of small induction machines.&quot;</td>
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<tr>
<td>1979</td>
<td>JOHN W. BATCHELOR</td>
<td>Westinghouse Electric Corp.</td>
<td>East Pittsburgh, PA, USA</td>
<td>&quot;For contributions to the design of large turbine driven generators and the development of related international standards.&quot;</td>
</tr>
<tr>
<td>1978</td>
<td>CHARLES H. HOLLEY</td>
<td>General Electric Co.</td>
<td>Schenectady, NY, USA</td>
<td>&quot;For contributions to the evolution of turbine generator designs with achievement in performance and reliability.&quot;</td>
</tr>
<tr>
<td>1977</td>
<td>CYRIL G. VEINOTT</td>
<td>University of Missouri</td>
<td>Rolla, MO, USA</td>
<td>&quot;For his leadership in development and application of small induction motors.&quot;</td>
</tr>
<tr>
<td>1976</td>
<td>LEON T. ROSENBERG</td>
<td>Allis-Chalmers Power System Inc.</td>
<td>West Allis, WI, USA</td>
<td>&quot;For his half-century of development and design of large steam turbine driven generators and his important contributions to literature.&quot;</td>
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</tbody>
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