IEEE Power & Energy Society
2015 General Meeting

Awards Ceremony

Tuesday, July 28, 2015
Sheraton Denver Downtown Hotel
Denver, Colorado
Many of our recipients, both current and past, have donated their honoraria to the IEEE PES Scholarship Plus Fund, the IEEE PES Endowment Fund or one of our other Award Funds solicited and stewarded by the IEEE Foundation.

PES would like to thank them for their generosity.

If you would like to donate, please contact Richard Allen at the IEEE Foundation Development Office +1-732-465-5871 or richard.allen@ieee.org
PES Awards and Recognition
Donald Morrow, Chair

COMMITTEE CHAIRS

John McDaniel
- IEEE PES Award for Excellence in Power Distribution Engineering

- IEEE PES CSEE Yu-Hsin Ku Electrical Engineering Award

Steven D. Pekarek
- IEEE PES Cyril V. Veinott Electromechanical Energy Conversion Award

Anil Pahwa
- IEEE PES Douglas M. Staszeyk Distribution Automation Award

Robert Dent
- IEEE PES Meritorious Service Award

Ned Mohan
- IEEE PES Nari Hingorani Flexible AC Transmission (FACTS) Award

Mohammad Shahidehpour
- IEEE PES Outstanding Power Engineering Educator Award

A. P. Sakis Meliopoulos
- IEEE PES Outstanding Young Engineer Award

Mark Lauby
- IEEE PES Prabhakaran S. Kandur Power System Dynamics and Control Award

Robert M. Pellegrino
- IEEE PES Robert Nohren Distinguished Contributions to Power Engineering Professionalism Award

Wenyuan Li
- IEEE PES Roy Billinton Power System Reliability Award

Dennis Woodford
- IEEE PES Uno Lamm High Voltage Direct Current (HVDC) Award

Shay Bahramirad
- IEEE PES Wanda Reder Pioneer in Power Award

Ward T. Jewell
- IEEE Power & Energy Society Ramakumar Family Renewable Energy Excellence Award

Mariessa Crow
- IEEE PES Technical Committee Awards
  - IEEE PES Prize Paper Awards
  - IEEE PES Working Group Recognition Awards

Edwin C. Carlsen
- IEEE PES Chapter Awards
IEEE PES AWARDS PROGRAM

Welcome: Lynn Worrell
General Chair, PES 2015 General Meeting

Presiding: Miroslav M. Begovic
President, IEEE Power & Energy Society

Introductions: Donald Morrow
Chair, PES Awards & Recognition Committee

IEEE PES CSEE JOINT AWARD
Presented by Baosen Zheng, CSEE President and
Miroslav M. Begovic, PES President

IEEE PES CSEE Yu-Hsiu Ku Electrical Engineering Award
Boming Zhang

IEEE POWER & ENERGY SOCIETY AWARDS
Presented by Donald Morrow, PES Awards Chair

IEEE PES Award for Excellence in Power Distribution Engineering
Elisabeth A. Tobin

IEEE PES Cyril Veinott Electromechanical Energy Conversion Award
Babak Fahimi

IEEE PES Douglas M. Staszesky Distribution Automation Award
S. S. (Mani) Venkata

IEEE PES Meritorious Service Award —2014
Hans E. Weinrich

IEEE PES Meritorious Service Award—2015
John D. McDonald

IEEE PES Nari Hingorani Flexible AC Transmission (FACTS) Award
Richard Piwko

IEEE PES Outstanding Power Engineer Educator Award
Ross Baldick

IEEE PES Outstanding Young Engineer Award
Siddharth Suryanarayanan

IEEE PES Prabha S. Kundur Power System Dynamics and Control Award
Nelson Martins
IEEE PES Robert Noberini Distinguished Contributions to Power Engineering Professionalism Award
John J. Paserba

IEEE PES Roy Billinton Power System Reliability Award
Murty P. Bhavaraju

IEEE PES Uno Lamm High Voltage Direct Current (HVDC) Award
Rainer Marquardt

IEEE PES Wanda Reder Pioneer in Power Award
Sandra Cecilia Vega Gómez

IEEE Power & Energy Society Ramakumar Family Renewable Energy Excellence Award
Ziyad M. Salameh

NEW FELLOW CLASS OF 2015 ACKNOWLEDGMENT

IEEE PES Prize Paper Awards

• “Voltage Ride-Through Capability Verification of Wind Turbines With Fully-Rated Converters Using Reachability Analysis”
  Hugo Nestor Villegas Pico and Dionysios Aliprantis

• “Transient Cable Overvoltage Calculation and Filter Design: Application to Onshore Converter Station for Hydrokinetic Energy Harvesting”
  Maren Kuschke and Kai Strunz

IEEE PES Working Group Recognition Awards

Outstanding Standard or Guide
• Trial Use Guide for Testing Permanent Magnet Machines
  Haran C. Karmaker, Chair

Outstanding Technical Report
• Use of Synchrophasor Measurements in Protective Relaying Applications
  Jim O’Brien, Chair

IEEE PES Outstanding Chapter Awards - 2014

Large Chapter
• Seattle Chapter
  Kevin Schneider

Small Chapter
• Croatia Chapter
  Igor Kuzle

CLOSING: Miroslav M. Begovic
IEEE PES CSEE Yu-Hsiu Ku Electrical Engineering Award

IEEE PES CSEE Yu-Hsiu Ku Electrical Engineering Award was initiated by the IEEE Power & Energy Society (IEEE PES) and Chinese Society for Electrical Engineering (CSEE) in 2009.

The Award specifications include the recognition of a professional who has demonstrated excellent performance in the fields of electrical engineering, electrical machinery and other related areas. The recipient's contributions in electrical engineering shall be evaluated based on technical innovations and well recognized contributions in electrical power engineering and associated fields.

The award was established to commemorate Dr. Yu-Hsiu Ku (1902—2002), who made great contributions in mathematics, electrical machinery and modern control theory during his longstanding career in the US and China.

Mr. Yu-Hsiu Ku was born in 1902; he entered Beijing Tsinghua School (the former of Tsinghua University) at the age of 14. In 1923, he was sent to study at the Massachusetts Institute of Technology (MIT), USA. He was the first Chinese who obtained the doctor’s degree at MIT. Prof. Ku was the recipient of the IEEE Lamme Medal (1972) and the IEEE Millennium Medal (1999). He was also the founding member of CSEE.

This award includes a plaque, and an honorarium of $2,000 USD.

Past Recipients:
- 2010 HE Jiali
- 2011 LOU Jiafa
- 2012 YU Erkeng
- 2013 WANG Xiangheng
- 2014 MA Weiming
IEEE PES CSEE
Yu-Hsiu Ku Electrical Engineering Award

BOMING ZHANG
2015 Recipient

For his pioneering contributions in power system control center
Energy Management Systems (EMS) in China

为了表彰他在中国的电力系统控制中心能量管理系统方面的开创性工作

BOMING ZHANG (IEEE Fellow) got his Ph.D. in Electrical Engineering from Tsinghua University in 1985, and since then, he has joined Tsinghua University as an academic staff. He is now a full professor there.

Prof. Boming Zhang developed the first modern computer-controlled energy management system (EMS) application software in 1990 and implemented it into the Northeast China Power Grid, which was the largest regional power grid in China at that time. Since then, he has pioneered dozens of key technologies and practical algorithms for EMS and disseminated these innovative technologies throughout control centers in China. Chief among them are the RME FEI method for bad data identification of power system state estimation in 1992, Graph-Model-Database integrated modeling method for EMS network modeling in 1994, DTS-EMS integrated technology for operator training in 1996, etc. These technologies have been widely adopted by utilities in China and some of them have become standards in China.

He has made great contributions to indigenous development of EMS application software in China. He and his team have advanced a new system-wide Automatic Voltage Control (AVC) method based on adaptive zone division and the approach has been used in more than half of the power systems in China, as well as being adopted by PJM of USA in 1998. His book, entitled Advanced Electric Power Network Analysis, has educated and influenced a whole generation of graduates in the power system profession in China.
IEEE PES Award
for Excellence in Power Distribution Engineering

Distribution represents a major utility investment for the transportation of electrical power. It is critical to the quality, reliability and economy of the product. This award was established to recognize those individuals who have contributed to the growth and value of the technology.

Since many people have contributed to the advancement of distribution technology, this award is not named honoring one individual. It is awarded annually by the IEEE PES to recognize the individual who has made a remarkable engineering contribution to the field of distribution technology. The selection committee considers all candidates brought to its attention whose work will result in substantial improvements to the effectiveness and utilization of power distribution.


The award consists of a plaque, an honorarium of $1,000 USD and a travel subsidy to attend the PES Awards Ceremony.

Past Recipients:

- 1999  John G. Anderson
- 2000  Daniel J. Ward
- 2001  Ronald H. Stillman
- 2002  John D. McDonald
- 2003  Robert Ellis Owen
- 2004  David R. Smith
- 2005  Roger Craig Dugan
- 2006  Wayne Beaty
- 2007  Cheryl A. Warren
- 2008  T. A. Short
- 2009  Reigh A. Walling
- 2010  Phillip P. Barker
- 2011  Lee Taylor
- 2012  Rick Bush
- 2014  Thomas J. Tobin
IEEE PES Award
for Excellence in Power Distribution Engineering

ELISABETH A. TOBIN
2015 Recipient
For outstanding contributions to distribution secondary networks

ELISABETH A. TOBIN began in the electric utility industry in 1979 designing protection and control circuits for generation plants, transmission lines and substations, transitioning in 1987 to manager and director for distribution engineers, electrical underground, overhead line and civil construction crews. She conceived, developed and implemented civil and electrical improvements for a downtown secondary network system.

At Snohomish County PUD #1 in Washington State since 2006, Betty retired as the Senior Manager, Planning, Engineering and Technical Services, responsible for transmission and distribution engineering, system protection, operation technology engineering, GIS, maps, records and joint use.

Betty is known for exceptional ability to anticipate and manage change, initiate and oversee technology implementation, and building, mentoring and developing highly motivated, productive teams. She was Chair of the TF on Distribution Networks, Chair of the WG on Switching and Overcurrent, member of Distribution Automation and Distribution System Design WGs, and Secretary for the Distribution Subcommittee. She received WG recognition awards, the 2005 Society of Women Engineers Achievement Award, the 2012 IEEE PES Distinguished Service Award, and the 2014 IEEE PES Seattle Chapter Outstanding Engineer Award.

Betty encouraged students to pursue engineering through her active participation in the annual STEM program that emphasizes math and science. She also served as resume reviewer for IEEE Scholarship Plus applicants.

Betty earned Bachelor’s and Master’s Degrees in EE and a Ph.D. in Biomedical Engineering from Northwestern University. She is a Washington State PE and IEEE Life Member.
This award recognizes outstanding contributions in the field of electromechanical energy conversion. Research and developments on electric motors continued throughout the 20th century and into the 21st to the point that such devices have now become an integral part of our lives. The current ubiquitous presence of the electric motor in everything we do has resulted from the work of dedicated engineers throughout the world.

The award is named for the man responsible for numerous practical improvements in the design and application of electric motors over 50 years. Dr. Cyril Veinott made seminal contributions to the development of polyphase induction motors, 400 Hz aircraft motors, and was a pioneer in the application of digital computers to the design of electric motors. He was responsible for the early measurements and mitigation of electric motor noise. He helped write many IEEE and NEMA standards for electric motors. He was the first person to be inducted into the Hall of Fame created by the Small Motor Manufacturers Association in 1985.

The IEEE PES Cyril Veinott Electromechanical Energy Conversion Award consists of a plaque and an honorarium of $5,000 USD.

Past Recipients:
- 2000 Paul I. Nippes
- 2003 M. Azizur Rahman
- 2004 Hamid A. Toliyat
- 2005 Ronald G. Harley
- 2006 Scott D. Sudhoff
- 2008 Oleg Wasynezuk
- 2009 Emil Levi
- 2010 O. A. Mohammed
- 2011 Stephen D. Umans
- 2012 J. Sheung-Chun Hsu
- 2013 Clyde V. Maughan
- 2014 James S. Edmonds
IEEE PES Cyril Veinott
Electromechanical Energy Conversion Award

BABAK FAHIMI
2015 Recipient

For developing techniques to analyze and control acoustic noise and vibration in electric machines

BABAK FAHIMI is a professor of electrical engineering and the founding director of the renewable energy and vehicular technology research center at the University of Texas at Dallas.

He received his PhD in electrical engineering from Texas A&M University in 1999. His areas of interest include numerical modeling of electromechanical converters, design and control of power electronic circuits and energy management systems.

He holds 11 US patents and has seven more pending. Dr. Fahimi has co-authored over 275 scientific articles in his field of endeavor and four of his former PhD graduates hold the rank of associate and assistant professor. Dr. Fahimi has been the recipient of the Richard M. Bass young Power Electronics investigator award from the power electronics society of the IEEE, the young investigator award from the office of naval research, the Ralph Teetor award from the society of automotive engineers, and the Fulbright scholarship from the department of state.

He is a fellow of IEEE for his contributions to “analysis and modeling of adjustable AC motor drives”. Dr. Fahimi has been the general chairman of the IEEE Applied Power Electronics and Expo, IEEE Industrial Electronics Conference, and IEEE Vehicle Power and Propulsion. His industrial experience includes being a research scientist at the Electro Standards Laboratories (1999-2002) and the VP of engineering at EF technology LLC. (2006-2008).
The IEEE PES Douglas M. Staszesky Distribution Automation Award was established to recognize individuals who have made a significant contribution to ensure the practical realization of distribution system automation.

This award is named in honor of Douglas M. Staszesky who worked with enormous energy and passion to bring new technologies and concepts to the field of distribution automation and to promote the value of investments in such systems to electric utility decision makers. The Douglas M. Staszesky Distribution Automation Award recognizes individuals who displayed that same energy and passion and who have demonstrated success in the implementation of systems that provide real benefits for electric utilities and their customers.

The funds for this award are provided by S&C Electric Company. The award is administered by the IEEE Power & Energy Society.

The recipient receives a plaque and a travel stipend of up to $1,500 USD, and will designate an engineering school to receive a $2,000 USD scholarship.

Past Recipients:

- 2009 Dean Craig and Jack Li
- 2010 Robert W. Uluski
- 2011 Cameron Lee Smallwood
- 2012 Anil Pahwa
- 2013 Nokhum Markushevich
- 2014 George Larry Clark
S. S. (MANI) VENKATA joined Alstom Grid Inc. in January 2011 as a Principal Scientist. He also continues his affiliation with the University of Washington since 1979. He was Dean of School of Engineering at Clarkson University during 2004-2005. From 1996 to 2003 he was Professor and Chairman of the department at ISU. Before joining ISU, he taught at the University of Washington, Seattle, West Virginia University, and the University of Massachusetts, Lowell for 25 years.

Prof. Venkata interacted with more than 30 utilities and industries for the past 45 years. Venkata has published and/or presented over 350 publications in refereed journals and conference proceedings, and is a co-author of the book *Introduction to Electric Energy Systems*, Prentice-Hall Publications, 1987.

Dr. Venkata is a Life Fellow of the IEEE. At the IEEE level, he is a member of the IEEE Fellows Committee since 2010. He had also served as the Seattle Section Chair, and the Student Branch Advisor.

At the PES level he is Chair of the PES Smart Grid R&D Committee. He served as Vice Chairman of the Technical Council during from 2011 to 2013. He was a member of the PES Executive Committee and Governing Board during 2004-07 as the Vice-President of Publications.

In 1996 he received the Outstanding Power Engineering Educator Award from the IEEE Power Engineering Society. He also received the Third Millennium Award from the IEEE in 2000.
The IEEE PES Meritorious Service Award is given to a PES Member who has made outstanding contributions in leadership, technical activities, and educational activities of the IEEE Power & Energy Society.

The selection of the awardee is based on outstanding and meritorious service to the IEEE Power & Energy Society.

The IEEE PES Meritorious Service Award consists of a plaque and travel subsidy of up to $1,000 USD for recipient to attend presentation ceremony.

Past Recipients:
- 1972 Andrew R. Cooper
- 1974 Howard C. Barnes
- 1977 Thomas H. Lee
- 1980 Julius G. Derse
- 1989 Charles L. Rudasill, Jr.
- 1990 Charles L. Wagner
- 1991 Theodore W. Hissey
- 1992 William R. Brownlee
- 1994 S. Harold Gold
- 1995 Leo L. Grigsby
- 1996 C. John Essel
- 1997 John W. Pope
- 1998 Roger K. Sullivan
- 1999 Virginia Sulzberger
- 2001 Robert A. Dent
- 2006 B. Don Russell
- 2008 John W. Estey
- 2009 Melvin I. Olken
- 2010 Frank E. Shink
- 2012 Saifur Rahman
- 2013 Wanda K. Reder
IEEE PES Meritorious Service Award

HANS E. WEINRICH
2014 Recipient

For the internationalization of the PES and the improving of the organization and image of the Society

HANS E. WEINRICH received his BA in Electrical Engineering in Germany and a PMD degree from the Harvard Business School in Cambridge MA. He spent his professional carrier with BBC Brown Boveri, later ABB working initially in Germany, France and Switzerland and from 1968 onwards in the US. He retired in 2000 as Vice President in the Transmission and Distribution sector of the firm.

Hans Weinrich joined the IEEE in 1970 and the PES Governing Board in 1980. He was elected President Elect in 1991 and served as President of the then Power Engineering Society in 1993 and 1994. Thereafter he was elected to the IEEE Board of Directors and served as Division VII Director in 1995 and 1996.

Living in Princeton NJ close to the IEEE Headquarters in Piscataway, NJ he was able to occasionally serve on ad hoc committees such as the Fellow Nominations Committee.

In his professional volunteer activities Hans Weinrich also served as President of the United States National Committee CIGRE from 1999 to 2005.

When not spending time with his extended family he spends his leisure time traveling, skiing and officiating at local organizations such as the Princeton Ski and Sail Club.
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- 2001 Robert A. Dent
- 2006 B. Don Russell
- 2008 John W. Estey
- 2009 Melvin L. Olken
- 2010 Frank E. Shink
- 2012 Saiful Rahman
- 2013 Wanda K. Reder
- 2014 Hans E. Weinrich
IEEE PES Meritorious Service Award

JOHN D. MCDONALD

2015 Recipient

For contributions to PES technical activities, especially the Substations Committee and the Distinguished Lecturers Program, and to the administration of the Society

JOHN D. MCDONALD is Director of Technical Strategy, Industry Standards and Policy Development for GE Digital Energy. In John’s 44 years of active participation in IEEE PES John has made significant contributions in leadership, technical activities and educational activities. John was on the IEEE PES Governing Board from 1998 through 2009 serving as Secretary in 2000-2003 and President in 2006-2007. During these 12 years John worked with all three PES Executive Directors.

As a charismatic leader of PES and IEEE, ambassador of PES expertise to many places worldwide through the Distinguished Lecturer Program, initiator of the PES Long Range Planning Committee, initiator of the Joint Technical Committee Meetings, 28 years of distinguished technical service to the Substations Committee (including Chair in 2001-2002), led the Search Committee to hire Pat Ryan as PES’ 3rd Executive Director in April 2007, and mentor to a large number of past and current PES volunteers and leaders, John has established a lasting legacy and influenced PES at all levels. From being a PES Atlanta Chapter monthly lunch speaker each year to serving on the IEEE and IEEE-SA Board of Directors and the IEEE Smart Grid Steering Committee, John’s experience, wisdom, and polite and friendly demeanor reverberate to this day, while his many activities continue to benefit the profession.

John received his BSEE and MSEE degrees from Purdue University and an MBA in Finance from the University of California-Berkeley.

John and Jo-Ann have been married for 35 years and have two children and two grandchildren.
IEEE PES Nari Hingorani FACTS Award

For major contributions to the state of the art of
Flexible AC Transmission System (FACTS) technology and its applications

Power electronics and other static controllers are making a major impact on future power systems through application in transmission, distribution, and small generation. Applications in transmission and distribution include HVDC, FACTS and Custom Power. Since the introduction of the Flexible AC Transmission System (FACTS) concept, the technology has been moving ahead at an increasing pace. Very significant near to long term benefits of FACTS technology are now recognized in the industry.

The FACTS Award is presented to individuals who have made a major contribution to the state of the art of FACTS technology and its applications. Funded by contributions from the following companies:

- ABB
- ALSTOM
- EPRI
- GE Energy
- Hingorani Power Electronics
- National Grid Corporation
- S&C Electric
- Siemens
- Silicon Power Corporation
- Westinghouse

The FACTS Award consists of a plaque, engraved medal and an honorarium of $1,000 USD.

Past Recipients:
- 1999 Laslo Gyugui
- 2000 David J. Young
- 2001 Einar Larsen
- 2002 Ibrahim A. Erinmez
- 2003 Dusan Povh
- 2004 Colin D. Schauder
- 2005 Masatoshi Takeda
- 2006 Abdel-Aty Edris
- 2007 Aniruddha M. Gole
- 2008 Xiaoxin Zhou
- 2010 Chris Horwill
- 2011 John J. Paserba, Jr.
- 2012 Stig L. Nilsson
- 2013 Edson H. Watanabe
- 2014 Ned Mohan
RICHARD PIWKO joined GE in 1976 after earning the MSEE degree from Worcester Polytechnic Institute. He devoted his entire career to GE’s power systems engineering group (presently known as GE Energy Consulting) where he and his colleagues assist worldwide clients in the analysis and resolution of a wide variety of power systems issues—including large-scale power system stability, power system operations and economics, series capacitor compensation of transmission lines, HVDC transmission, turbine-generator torsional interactions, and large-scale integration of wind and solar generation into bulk power grids. His role has also included development of new products for GE, including the Thyristor-Controlled Series Capacitor, the Variable Frequency Transformer, and the Torsional Stress Relay.

For the past 10 years, his efforts have focused on large-scale integration of renewable wind and solar generation into bulk power systems. He and his team have developed analytical methods and tools to assess the operational impacts of variable generation resources on the operation, reliability and dynamic performance power grids. He contributed to numerous wind and solar integration studies covering a large portion of North America, developing operational techniques that enable increased penetration of renewable energy.

Within the IEEE Power and Energy Society, he has served as chair of the HVDC and FACTS Subcommittee and chair of the Transmission and Distribution Committee. He is presently chair of the Wind and Solar Power Coordinating Committee.

Mr. Piwko transitioned to a part-time position at GE in 2012.
IEEE PES Outstanding
Power Engineering Educator Award

This award recognizes excellence in classroom teaching, course development and the promotion of student, local, transnational and technical activities.

To be eligible for this award, an individual must provide classroom instruction in electrical engineering at a college or university with an accredited electrical engineering program or equivalent, be a member.

The award consists of a plaque and honorarium of $1,000 USD.

Past Recipients:
- 1996  S. S. Venkata
- 1997  Peter W. Sauer
- 1998  Chanan Singh
- 1999  Mohamed E. El-Hawary
- 2000  Vijay Vittal
- 2001  Charles A. Gross
- 2002  Bruce F. Wollenberg
- 2003  Leo Grigsby
- 2004  Chen-Ching Liu
- 2005  Robert J. Thomas
- 2006  James S. Thorp
- 2007  Göran Andersson
- 2008  Ned Mohan
- 2009  Lalit Goel
- 2010  Richard G. Farmer
- 2011  Thomas J. Overbye
- 2012  Mohammad Shahidehpour
- 2013  Saifur Rahman
- 2014  Ali Abur
IEEE PES Outstanding Power Engineering Educator Award

ROSS BALDICK
2015 Recipient

For contributions to power system engineering for restructured electricity markets

ROSS BALDICK is a Professor and Leland Barclay Fellow in the Department of Electrical and Computer Engineering at The University of Texas at Austin. He received his B.Sc. and B.E. degrees from the University of Sydney, Australia and his M.S. and Ph.D. from the University of California, Berkeley.

From 1991-1992 he was a post-doctoral fellow at the Lawrence Berkeley Laboratory. In 1992 and 1993 he was an assistant professor at Worcester Polytechnic Institute.

Dr. Baldick has published over seventy-five refereed journal articles and has research interests in a number of areas in electric power. His current research involves optimization, economic theory, and statistical analysis applied to electric power system operations, the public policy and technical issues associated with electric transmission under electricity market restructuring, the robustness of the electricity system to terrorist interdiction, electrification of the transportation industry, and the economic implications of integration of renewables. His book, Applied Optimization, is based on a graduate class, “Optimization of Engineering Systems” that he teaches in the electrical and computer engineering department at The University of Texas. He also teaches a three-day short-course “Introduction to Electric Power for Legal, Accounting, and Regulatory Professionals” and a one-day short-course “Locational Marginal Pricing” for non-technical professionals in the electricity industry. He is a former editor of IEEE Transactions on Power Systems and former chairman of the System Economics Sub-Committee of the IEEE Power Engineering Society Power Systems Analysis, Computation, and Economics Committee.

Dr. Baldick is a Fellow of the IEEE and Director of the NSF I/UCRC on Electric Vehicles: Transportation and Electricity Convergence.
IEEE PES Outstanding Young Engineer Award

This award recognizes outstanding contributions in the leadership of technical society activities including local and/or transnational PES and other technical societies, leadership in community and humanitarian activities, and evidence of technical competence through significant engineering achievements.

To be eligible for the Outstanding Young Engineer Award, an individual must be thirty-five years of age or under on January 1 of the year the award is presented, be a member of PES for at least one year, and have a minimum of a B.S. in Electrical Engineering from an accredited electrical engineering program or equivalent. He or she can be nominated by any PES member and must endorsed by the chapter or technical committee of which the individual is a member.

The recipient receives a plaque and will designate a college or university with an accredited program in electrical engineering or equivalent to receive a $2,000 USD scholarship for an electrical engineering undergraduate.

Past Recipients: (Through 2007, the recipient received the Walter Fee Outstanding Young Engineer Award)

Past Recipients:

- 1994 Lei Wang
- 1997 Mariesa L. Crow
- 1998 Kraig J. Olejniczak
- 1999 Miguel Velez-Reyes
- 2000 Christopher W. Hickman
- 2002 Jeffrey H. Nelson and Noel N. Schulz
- 2003 Richard E. Brown
- 2004 Mark Laufenberg
- 2005 Efrain O’Neill–Carrillo
- 2006 Marcelino Madrigal and Ganesh Venayagamoorthy
- 2007 Karen Nan Miu Miller
- 2008 William (Bill) Rosehart
- 2009 Zhenyu (Henry) Huang
- 2010 Luiz A. Barroso
- 2011 Ted K. A. Brekken
- 2012 Alejandro D. Dominguez Garcia
- 2013 Gabriela Hug-Glanzmann
- 2014 Shay Bahramirad
IEEE PES Outstanding Young Engineer Award

SIDDHARTH SURYANARAYANAN
2015 Recipient

For demonstrating outstanding technical competence through significant engineering achievements in development and application of algorithms for energy management systems and for service to the IEEE PES

SIDDHARTH SURYANARAYANAN is an associate professor in the Department of Electrical and Computer Engineering at Colorado State University where he has been since 2010.

He obtained the Ph.D. in electrical engineering from Arizona State University in 2004.

His research interest lies in the broad area of algorithm development for energy management systems and his teaching interests are in electric power systems engineering.

Currently, he is volunteering as the secretary of the Power and Energy Education Committee (PEEC) of the IEEE Power & Energy Society (PES).
As the development of the complex system known as the interconnected bulk power system unfolded around the world, it became critical to understand its nonlinear behavior as well as develop and deploy system controls vital to manage dynamic system behavior to ensure reliability. Even today, as the bulk power system evolves to accommodate an unprecedented change in resource mix and technology innovation, it is critical to manage integration of new and emergent technologies. Without this ability to model the general dynamic behavior of the bulk power system and devise suitable coordinated systems controls, the modernization of the bulk power system would be inhibited. These developments come from the work of dedicated engineers who devote their careers to the deep understanding of bulk power system dynamic behavior, including transient, small-signal, voltage, and frequency stability, along with the development of controls vital to support bulk power system security and quality of power supply.

Nominees for the award must have been an IEEE PES member for at least 10 years with tangible and visible achievements this area.

The award consists of a plaque and an honorarium of $3,000 USD.

Past recipients:

- 2014 Peter W. Sauer
IEEE PES Prabha S. Kundur
Power System Dynamics and Control Award

NELSON MARTINS
2015 Recipient

For the development of dynamic analysis software tools and techniques for large-scale electric power systems and for leadership in understanding power system dynamic phenomena.

NELSON MARTINS is research consultant on power system analysis and assistant to the Director General of CEPEL.

He has been active in IEEE PES Power System Dynamic Performance Committee and CIGRÉ for over 3 decades.

He was the originator and long-time developer of the small-signal stability software used by the Brazilian utilities and the Brazilian System Operator.

His other research interests include specialized eigenvalue computation methods for large scale systems, power system stabilizer design, FACTS & HVDC controls, coordination of multiple controllers, power system harmonics and model reduction for RLC networks and control applications.

He published 48 papers in major power engineering and numerical linear algebra journals in addition to other 150 conference papers.

He supervised 9 PhD and 17 MSc students and was elected a Foreign Member of the US National Academy of Engineering (NAE) in 2015.
IEEE PES Robert Noberini Distinguished Contributions to Power Engineering Professionalism Award

The IEEE PES Robert Noberini Distinguished Contributions to Power Engineering Professionalism Award was established in 2006 to honor members of the power engineering profession for long-term dedicated effort and outstanding accomplishments in advancing the aims of IEEE professional activities in the IEEE Power & Energy Society (PES). The award is named for Robert Noberini in recognition of his many years of service to IEEE and PES.

To be eligible, recipients should be at least IEEE Senior Members and professionals of engineering. Selection for the award is based on the dedication, effort, quality and most particularly on clearly successful accomplishment and achievement in advancing the social, economic, legal and ethical aims of the IEEE professional activities. In particular, factors to be considered include time as IEEE volunteer, contributions to Power Engineering activities, contributions to IEEE activities, IEEE member grade and PES membership (recommended).

This award consists of a plaque, and a travel stipend of up to $1,500 USD.

Past Recipient:

• 2008 Frank E. Schink
• 2011 Leann Kostek
IEEE PES Robert Noberini Distinguished Contributions to Power Engineering Professionalism Award

JOHN J. PASERBA
2015 Recipient

For contributions to the advancement of professional awareness of students through presentations to IEEE Student Organizations in the USA and leadership in facilitating over 30 student leadership training workshops.

JOHN J. PASERBA is the General Manager – High Voltage Switchgear Division at Mitsubishi Electric Power Products where he has held leadership positions in power system studies, power electronic (FACTS) projects, and switchgear manufacturing since 1998. John began his career at GE’s Power Systems Energy Consulting in 1988. He teaches a graduate course in power engineering at the University of Pittsburgh, and has taught in Pennsylvania State University’s Advanced Power School, GE’s Power Systems Engineering Course, and University of Wisconsin-Madison’s Professional Development program. John holds a M.E. from Rensselaer Polytechnic Institute and a B.E.E. from Gannon University.

John, IEEE Fellow, has served in a variety of PES roles including: Governing Board - VP Meeting Activities; 8-year officer of the Power System Dynamic Performance Committee; Technical Council; numerous roles for PES conferences and meetings; and PES magazine and Transactions Editorial Boards. John received the 2011 IEEE PES Nari Hingorani Flexible AC Transmission Systems Award and several IEEE PES Service Awards.

For over 20 years, John has participated in IEEE Professional Activities, primarily engaging IEEE Student Members. He is a National Speaker for the IEEE-USA Student Professional Awareness Conferences, speaking at universities on engineering professionalism and career management based on his experiences in the power and energy industry. He was a 10-year member and Chair of the IEEE-USA Student Professional Awareness Committee and a 12-year member of the IEEE-MGA Student Activities Committee where he served as Industrial Representative, Student Professional Awareness Subcommittee Chair, and Chair. John received a 2012 IEEE-USA Citation of Honor for leadership in promoting engineering through student activities and the 2014 IEEE-USA Jim Watson Student Professional Awareness Achievement Award for advancing student professional awareness activities.
This award was created in honor of Roy Billinton, Professor Emeritus at University of Saskatchewan, Canada. Dr. Billinton is an IEEE Life Fellow, Foreign Associate of U.S. National Academy of Engineering, Fellow of Royal Society of Canada, and Fellow of Canadian Academy of Engineering. He has published over 850 papers and 8 books, has given tutorials, presentations and seminars in over thirty countries, delivered over one hundred short courses on system reliability, and served on IEEE PES committees and other industry committees. He supervised more than 120 Ph.D. and Master Degree candidates who are spread throughout the United States, Canada and other countries.

Areas covered by the award includes modeling, analysis and data development to quantify power system reliability, and assessments to plan and operate reliable electric utility generation, transmission, distribution systems or interconnected power system grids.

The award has been funded by the past students and other associates of Professor Roy Billinton and selected organizations. Management of the funds were approved by the IEEE Foundation.

The recipient of the IEEE PES Roy Billinton Power System Reliability Award receives a plaque and an honorarium of $3,000 USD.

Past Recipients:
• 2010 Chanan Singh
• 2011 Wenyuan Li
• 2012 Armando M. Leite Da Silva
• 2013 Ronald N. Allen
• 2014 Mark G. Lauby
IEEE PES Roy Billinton Power System Reliability Award

MURTY P. BHAVARAJU

2015 Recipient

For pioneering contributions to applications of reliability methods to energy and capacity markets and leadership in gaining industry acceptance of such methods in North America

MURTY P. BHAVARAJU after receiving BE and ME from India, M.Sc. and Ph.D. from University of Saskatchewan, Canada, Murty Bhavaraju joined PSE&G in New Jersey in 1969 where he worked in various engineering and managerial positions. He worked in the areas of system reliability, generation planning, and Integrated Resource Planning. He represented PSE&G on reliability and planning related PJM committees.

Murty was on loan to Electric Power Research Institute during 1978-79 where he set up goals for EPRI research in power system reliability and planning. He initiated a number of EPRI funded research projects that resulted in practical methods and software.

After retiring from PSE&G in 2004, Murty joined PJM as a Senior Consultant. He was a key member of the team that developed the PJM forward capacity market popularly known as Reliability Pricing Model.

Murty is an IEEE Life Fellow and a Member of US National Academy of Engineering. He served PES in various positions: Chaired Application of Probability Methods Subcommittee; Chaired Working Group that developed Standard 762-1987 on power plant productivity definitions; Chaired Power System Engineering Committee; Chaired PES Fellow Committee; Member of IEEE Fellow Committee; Editor-in-Chief, IEEE Transactions on Power Systems.

Murty contributed to two CIGRE reports: Power System Reliability Analysis-Application Guide and Composite Power System Reliability Evaluation. Murty served as a member of the NERC Reliability Criteria Subcommittee representing Mid-Atlantic Area Reliability Council. Murty published over 40 technical papers in the area of power system reliability and analysis.
IEEE PES Uno Lamm
High Voltage Direct Current Award

The IEEE PES Uno Lamm High Voltage Direct Current Award was established in 1980 by the recommendation of the DC Transmission Subcommittee. It provides a means for special recognition of those outstanding engineers and scientists who have contributed to the advancement of high voltage direct current (HVDC) technology.

The award is named for the man most responsible for the research and development that led to the first practical application of an HVDC connection between AC systems. The keys to the solution of this problem were the development of an electric valve which could be used in high capacity, high voltage converters, and a fundamental system technology. This outstanding engineer and scientist was Dr. Uno Lamm, an IEEE Fellow and the 1965 recipient of the Benjamin Lamme Medal.

Dr. Lamm graduated from the Royal Institute of Technology, Stockholm, in 1927 and acquired his Doctorate of Technology in 1943. He joined ASEA in 1928 with the task of developing mercury arc rectifiers as an early assignment. During his career with ASEA, he received progressively more responsible appointments: head of the Rectifier Department; head of ASEA’s Nuclear Department; Electrotechnical Director; and Consultant to the President of ASEA. Dr. Lamm died in 1989 at the age of 85.

At the invitation of the Subcommittee, ASEA of Sweden provided the initial funds that were used to underwrite this Award. In order to sustain this important Award and to permit selection of a medalist every year, the subcommittee solicited additional funds from selected manufacturers and electric utility companies.

The IEEE PES Uno Lamm HVDC Award consists of a bronze medal, a plaque and a honorarium of $1,000 USD.

Recent Past Recipients:
(more recipients are listed online)
• 2003  Gote Liss
• 2004  Dennis A. Woodford
• 2005  Michael L. Woodhouse
• 2006  Gunnar Asplund
• 2007  Peter Lips
• 2008  Willis F. Long
• 2009  Marcio Szechtman
• 2010  Mohamad M. Rashwan
• 2012  Bjarne R. Andersen
• 2014  Jose Antonio Jardini
IEEE PES Uno Lamm
High Voltage Direct Current Award

RAINER MARQUARDT
2015 Recipient

For his invention of the Modular Multilevel Converter topology which was a breakthrough of VSC in HVDC in the whole world and revolutionized HVDC technology

RAINER MARQUARDT was born in Hannover, Germany in 1953. He received the Dipl.-Ing. (M.Sc.) and Dr.-Ing. degree (Ph.D.) in electronic communication and power electronics respectively from the University of Hannover, where he worked until October 1983 as Research Scientist at the Institute for Power Electronics (Prof. K. Heumann).

Afterwards, he joined Siemens AG/Erlangen working as R&D-Engineer, leader of power electronics development of traction and head of innovation for power electronics.

He performed numerous industrial research and development projects for high power applications in power transmission and advanced AC-Drive systems for traction applications. He has filed more than 50 patents in these areas.

Currently, he leads the institute of “Power Electronics and Control” at the “University of Bundeswehr/München” as a Full Professor and is chairman of Research Institute ITIS.
IEEE PES Wanda Reder Pioneer in Power Award

The IEEE PES Women in Power Committee was created to foster a more diverse leadership by supporting career advancement, networking and education of women in the electric power and energy industry. One important way this mission is supported, is through the formal recognition of a worthy female member of this community.

The IEEE PES Wanda Reder Pioneer in Power Award seeks to recognize a deserving female in the field of power engineering. The Award is intended to provide visibility to the awardee’s efforts, accomplishments and future potential while empowering her to be an inspiration and role model for other women in the industry. The award is in honor of the first female president of IEEE PES, Ms. Wanda Reder.

In addition to recognizing the recipient, the Award brings attention to the value of fostering a diverse talent pool. It further empowers the recipient to have a greater influence on the growth and development of others in the industry.

Nominees for the award must be female and senior members of the IEEE PES. Tangible and visible achievements in one or more of the following:
- Innovation and technology development;
- Entrepreneurship and innovative business models;
- Education and mentorship;
- Related achievements.

The awardee will receive a plaque and a honorarium of $1,500 USD.

Past Recipients:
• 2014   Jessica J. Bian
IEEE PES Wanda Reder Pioneer in Power Award

SANDRA CECILIA VEGA GÓMEZ
2015 Recipient

For pioneering leadership in the area of power transformers in Costa Rica and dedicated volunteer service to the electric power industry

SANDRA CECILIA VEGA GÓMEZ is currently with the Instituto Costarricense de Electricidad (ICE). ICE is charge of generation, transmission and distribution of electricity of Costa Rica. She has worked in maintenance and high voltage testing. Eng. Vega is currently responsible for testing on site of power transformers and for developing the reports on overall state of power transformers related to grid reliability. Under her leadership, different procedures at ICE had been made to establish work instructions according to international standards.

Eng. Vega steered multiple technical industry groups. Her trending and statistical analysis has provided vital technical guidance for developing effective and risked-based industry standard requirements. Her work has been used by many organizations, including INTECO, CIEMI, ALTAE, IEEE.

Her latest efforts have been the implementation of reliability-based maintenance for the power transmission network at ICE. She also plays a key role in the implementation of the proposed of the Asset Management System at ICE.
IEEE Power & Energy Society Ramakumar Family Renewable Energy Excellence Award

This award, established in 2011, recognizes outstanding contributions in the field of developing, utilizing and integrating renewable energy resources, particularly those that have minimal carbon footprints, in the national and global energy scenarios. Feeding the electrical energy generated from innovative conversion technologies into conventional utility grids and operating the combined system satisfactorily, plus the effective use of locally available renewable energy resources in remote and rural areas to improve the human living environment are major components in this mix. The need to stimulate and encourage activity towards these goals is the primary objective of this award.

The award is funded through a quasi-endowment fund established through the IEEE Foundation and provided by an External Source/Donor. A corpus of U.S. $50,000 has been endowed by the Ramakumar family.

Nominees must be members of IEEE and PES with clearly identifiable and valuable contributions in the field of renewable energy.

This award consists of a plaque, and a honorarium of $1,000 USD.

Past Recipient:

• 2012  Ned Mohan
• 2013  Vladimir Miranda
• 2014  J. Charles Smith
IEEE Power & Energy Society Ramakumar Family Renewable Energy Excellence Award

ZIYAD M. SALAMEH
2015 Recipient

For contributions in the development of variable speed wind generation, hybrid wind/PV installations, and modeling and integration of electric batteries

ZIYAD M. SALAMEH got his Diploma (with honors) from Moscow Power Engineering Institute Russia in 1974 and his M.Sc. and Ph.D from University of Michigan (Ann Arbor) in 1980 and 1982 respectively.

Dr. Ziyad Salameh is a professor of Electrical and Computer Engineering (ECE) Department at the University of Massachusetts Lowell since 1985; he chaired the ECE Department for three years 2001-2004.

Dr. Salameh is the director of the center for Electric Car and Renewable Energy (EC&RE), the center has four wind turbines erected on the roof of University (2.4kw, 1.5kw, 0.5kw and 0.3kw), two arrays of photovoltaic panels (10.6kw and 2.5kw), super capacitor station, 1.2kw fuel cell and two banks of battery storage. The center has also 10 electric cars for research and education.

New IEEE Fellows Class of 2015

the following are PES Members or were evaluated by the
Power & Energy Society

Vivek Agarwal
for contributions to topologies and control schemes
for solar photovoltaic energy conversion and power quality enhancement

Hector Altuve
for contributions to power line and transformer protection

Anastasios Bakirtzis
for contributions to
optimization of power systems operation and scheduling

Alberto Borghetti
for contributions to modeling of
power distribution systems under transient conditions

Ming Cheng
for contributions to the development and control of stator permanent
magnet machines for vehicular propulsion and wind power generation

Chandan Chakraborty
for contributions to estimation
techniques and control of induction machine and drive systems

Javier Contreras
for contributions to modeling and forecasting of electricity markets
New IEEE Fellows Class of 2015

the following are PES Members or were evaluated by the
Power & Energy Society

Francisco De Leon
for contributions to
transformer modeling for electromagnetic transient studies

Edward Dobrowolski
for leadership in interactive control center technology

Babak Fahimi
for contributions to
modeling and analysis of AC adjustable speed motor drives

Manimaran Govindarasu
for contributions to security of power grids

Gary Hoffman
for leadership in the advancement of
monitoring systems for power transformers and power line protection

Yi Hu
for leadership in wide-area synchronized measurement systems

James Jodice
for contributions to the testing of protective relays
New IEEE Fellows Class of 2015

the following are PES Members or were evaluated by the Power & Energy Society

Deepa Kundur
for contributions to signal processing techniques for multimedia and cyber security

David Lubkeman
for contributions to power system distribution systems

Luis Marti
for contributions to modeling and simulation of electromagnetic transients

Paolo Mattavelli
for contributions to power converters for grid-connected applications and power management

Stephen McArthur
for contributions to intelligent systems with application in power engineering

Timothy McCoy
for leadership in ship-board electric power systems

Shengwei Mei
for contributions to power systems robust control and complexity analysis
New IEEE Fellows Class of 2015

the following are PES Members or were evaluated by the
Power & Energy Society

Stefan Mozar
for development of safety solutions for electronic equipment

Philip Overholt
for leadership in the
development and deployment of synchrophasor technology

Rasheek Rifaat
for contributions to protection of industrial power systems

Surya Santoso
for contributions in automated
root cause analysis of electric power quality disturbance phenomena

Jian Sun
for contributions to
modeling and control of power electronic circuits and systems

Rajeev Thottappillil
for contributions to
the understanding of lightning and electromagnetic interference

Vaithianathan Venkatasubramanian
for contributions to
on-line detection of oscillatory behavior of electric power systems
IEEE PES Prize Paper Award

Each year each Technical Committee of the Technical Council is entitled and encouraged to award the author(s) of an outstanding technical paper with the IEEE PES Technical Committee Prize Paper Award. Each committee is also encouraged to nominate a paper from their committee for the Society-level IEEE PES Prize Paper Award, most committees choose to select the same paper. One (or two) paper is chosen from all the nominations for the Society-level IEEE PES Prize Paper Award.

The IEEE PES Prize Paper Award consists of a plaque for each author and $200 USD for a single author; $100 USD each for two (2) or more authors.

Funded by the IEEE PES Endowment Fund, managed by the IEEE Foundation.
IEEE PES Prize Paper Award

“Voltage Ride-Through Capability Verification of Wind Turbines With Fully-Rated Converters Using Reachability Analysis”

HUGO NESTOR VILLEGAS PICO
And
DIONYSIOS ALIPRANTIS

Published in the June 2014 issue (Vol. 29, No. 2) of the IEEE Transactions on Energy Conversion

IEEE PES Prize Paper Award

“Transient Cable Overvoltage Calculation and Filter Design: Application to Onshore Converter Station for Hydrokinetic Energy Harvesting”

MAREN KUSCHKE
And
KAI STRUNZ

Published in the July 2013 issue (Vol. 28, No. 3) of the IEEE Transactions on Power Delivery
“Voltage Ride-Through Capability Verification of Wind Turbines With Fully-Rated Converters Using Reachability Analysis”

HUGO NESTOR VILLEGAS PICO (S’10) received his B.S. in electrical engineering (automation and control) from Universidad de las Fuerzas Armadas (former Escuela Politécnica del Ejército - ESPE), Ecuador, in 2008.

He worked as a supervisor of electrical maintenance in the Guangopolo Power Station, CELEC-TERMOPICHINCHA, Ecuador, 2007--2009.

He was a Fulbright recipient and a Master's student of electrical engineering at Iowa State University, Ames, IA, 2009-2011.

Currently, he is pursuing his Ph.D. at Purdue University, West Lafayette, Indiana. His research interests include hydro and wind energy conversion, power system modeling and control, and analysis of dynamical systems.

DIONYSIOS ALIPRANTIS (IEEE Senior Member, 2009) was born in Athens, Greece. He received the Diploma degree in electrical and computer engineering from the National Technical University of Athens, Greece, in 1999, and the Ph.D. degree from Purdue University, West Lafayette, Indiana, USA, in 2003.

He is currently an Associate Professor of Electrical and Computer Engineering at Purdue University. Prior to joining Purdue, he was an Assistant Professor of ECE at Iowa State University.

Prof. Aliprantis' teaching and research interests are related to electromechanical energy conversion, with emphasis on electric machinery (their modeling, simulation, and design), power electronics (particularly machine drives), applications of automatic control to power electronics-based systems, and the analysis of power systems. More recently his work has focused on technologies that enable the integration of renewable energy sources in the electric power system, and the electrification of transportation.

Prof. Aliprantis was a recipient of the National Science Foundation CAREER award in 2009. He serves as an Associate Editor for the IEEE Transactions on Energy Conversion.
MAREN KUSCHKE studied electrical engineering with a focus on electrical drives, photovoltaics, and electric energy systems at TU Berlin in Germany and KTH Stockholm, Sweden. She graduated with the Dipl.-Ing. degree in 2008 and the Dr.-Ing. degree with summa cum laude in 2014 from TU Berlin, respectively. For her outstanding performance as a student of electrical engineering, Maren received the VDI Award from the Association of German Engineers in 2009 and the IEEE PES German Chapter Best Master Thesis Award in 2010. Since 2009, she has been a research assistant and project co-ordinator at TU Berlin. Her doctoral research was supported by a scholarship from the Reiner Lemoine Foundation.

Dr. Kuschke was Local Organization Chair of the conference IEEE PES Innovative Smart Grid Technologies (ISGT) Europe 2012 in Berlin. She was a member of the German VDE Task Force Infrastructure for Climate-friendly Power Transmission. Her invited presentations included talks at the Jeju 2011 Symposium on Microgrids and the 2011 APEC Workshop on Addressing Challenges in AMI Deployment and Smart Grids in Taipei.

KAI STRUNZ graduated with the Dipl.-Ing. degree from Saarland University in Saarbrücken, Germany, in 1996, and he obtained the Dr.-Ing. degree with summa cum laude from the same university in 2001. From 1995 to 1997, he pursued research at Brunel University in London. From 1997 to 2002, Dr. Strunz was research engineer at EDF in the Paris area. From 2002 to 2007, he was tenure-track Assistant Professor of Electrical Engineering at the University of Washington in Seattle. Since September 2007, he has been Professor and holder of the chair of Sustainable Electric Networks and Sources of Energy (SENSE) at TU Berlin.

Professor Strunz was General Chair of the conference IEEE PES Innovative Smart Grid Technologies (ISGT) Europe 2012 in Berlin. He is Chairman of the IEEE PES Subcommittee on Distributed Generation & Energy Storage and Chairman of the IEEE Subcommittee on Research in Power & Energy Education. For the IPCC (Intergovernmental Panel on Climate Change), he acted as Review Editor from 2009 to 2011.

Dr. Strunz received the National Science Foundation CAREER award in 2003. Kai obtained the Outstanding Teaching Award of the Department of Electrical Engineering at the University of Washington in 2004. He received the Dr.-Eduard-Martin Award of Saarland University for outstanding scientific performance during doctoral studies in 2002 and the VDE Award for the best Dipl.-Ing. degree results in the Department of Engineering Sciences of Saarland University, 1996.
IEEE PES Working Group Recognition Awards

Outstanding Standard or Guide
And
Outstanding Technical Report

Each year each Technical Committee of the Technical Council is entitled and encouraged choose to award one working group with the IEEE PES Technical Committee Working Group Recognition Award. Each committee is also encouraged to nominate their working groups for one of the Society-level Working Group Awards, IEEE PES Working Group Recognition Awards Outstanding Standard or Guide or Technical Report. Two working groups are chosen out of all the nominations for these Society-level Awards and are recognized at the IEEE PES General meeting. The officers are given a plaque and mounted certificates for the members.
Outstanding Standard or Guide

“Trial Use Guide for Testing Permanent Magnet Machines”

Electric Machinery Committee
Haran C. Karmaker, Chair
H. Bulent Ertan, Vice-Chair
Mehdi Abolhassani, Secretary

Members:
E. Agamloh
R. Daugherty
A. El-Serafi
V. Garg
D. Gonzalez
R. Islam
M. A. Masrur
S. Kalsi
J. R. Michalec
R. Nokl
M A. Rahman
J. Roach
S. Royak
D. M. Saban
N. Stranges
S. Umans
R. Vyas
R. Wamkeue
D. Wood
P. Wung

Outstanding Technical Report

“Use of Synchrophasor Measurements in Protective Relaying Applications”

Power System Relaying Committee
Jim O’Brien, Chair
Alla Deronja, Vice Chair

Members:
Alex Apostolov
Andrew Arana
Miroslav Begovic
Sukumar Brahma
Gustavo Brunello
Fernando Calero
Herb Faulk
Yi Hu
Gary Kobet
Harold Kirkham
Yuan Liao
Chih-Wen Liu Yuchen Lu
Don Lukach
Ken Martin
Joe Mooney
Jay Murphy
Krish Narendra
Damir Novosel
Mahendra Patel
Elmo Price
Sinan Saygin
Veselin Skendzic
Rick Taylor
Demetrios Tziouvaras
Solveig Ward
IEEE PES Outstanding Large Chapter Award

SEATTLE CHAPTER
Kevin Schneider, Chair

The EXCOM of this chapter set a clear goal in December of 2013 “to engage a larger portion of the geographically diverse membership, to better serve members that have been historically underserved, and to increase value to the general membership”. They have definitely achieved this goal through a large, diverse, well organized and effective EXCOM team. Through the hard work and dedication of this group of volunteers, they provided significant and wide ranging value and service to PES members, students and others in the Seattle area power community.

Some significant 2014 highlights include:

- 11 wide ranging technical meetings and tours covering topics such as utility scale batteries, distribution automation, hydroelectric, steam, wind and solar generation plants, substations, and information infrastructure. Meetings were geographically dispersed and broadly attended.
- 4 Educational Programs and tutorials on topics including NERC training certification, instrument transformers and PE licensing.
- 6 events highlighting PES and promotion of the engineering profession including historical perspectives on power in the northwest, the social impact of electricity, engineering career fair, and an informal meet and greet social event. Several of the events had significant participation by the general public and non-members.
- Outstanding and wide ranging activities focusing on students and student chapters, including substation, wind farm, grid storage, and distributed protection/control talks and tours. Activities also included career planning and interview skill training.
- 4 Young Professional affinity group activities in the form of social events and webinars.
- Membership Advancement efforts were undertaken throughout the year, including successful Sr. member elevations and a Fellow nomination.
- Multiple member recognition efforts, including the decision to initiate a new local “Outstanding Educator of the Year” award.
- Consistent membership growth for several years for this large chapter of 475 HG members, with a 1.7% increase in 2014.
- Chapter involvement in the planning committees and participation in 2 PES conferences in the Seattle area.
- A comprehensive web site. The chapter has done significant analysis of web site utilization and continues to refine it to better serve the Seattle PES members and power community.

RUNNERS-UP IN THIS CATEGORY WERE THE
Austin/Central Texas (R5), Bangalore (R10), Madras (R10), Malaysia (R10), New Orleans (R5), New York (R1), Queensland (R10), Southern Alberta (R7), Twin Cities (R4), UKRI - UK and Ireland (R8) Chapters
Since its creation in 1998, the Croatia PES Chapter has grown in its membership and number of activities. In 2014, the chapter doubled its total number of activities to over 16 and broadened the geographical locations of its meetings. It plans to continue growth even further in the coming years. The Chair, chapter officers and other volunteers provide excellent leadership and service for the benefit of the local PES members, students and others in the local power industry.

Some examples of 2014 activities include:

- 12 Technical programs on a variety of topics including nuclear energy technology, power system reliability and control, power system operation problems, renewable energy sources, smart grids, energy storage and more.
- A full day technical excursion/workshop on wind and hydro plant provided value to both students and industry
- Promotion of PES, IEEE and the engineering profession via lectures and other activities.
- Wide ranging and numerous activities focused on students. Events included a nuclear power plant visit, a multi-week LabVIEW training course, social and charity events, and Membership Action activities.
- Significant Chapter officer involvement with 2 major local conferences, EnergyCon and pacworld.
- Ongoing membership recognition was achieved by utilizing the Outstanding Chapter Engineer Award and several other means throughout the year.
- A focus on membership growth and advancement which has resulted an outstanding increase of 24% to a total of 94 HG members at the end of 2014. The chapter has plans to continue efforts for even further growth in the coming years.
- A chapter web site highlighting upcoming activities and other information for members
IEEE Power & Energy Society
Award Endowment Fund

*Founding Benefactors*

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- TXU Energy
- Alstom Grid
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- ABB
- Murty P. Bhavaraju
- In Memory of John W. Pope; *The Southern Company*
- Charitable Foundation and his friends
- Dr. Rama Ramakumar and Family
- Bob and Alice Dent

*The endowments of the Founding Benefactors help provide permanent funding for IEEE Power & Energy Society awards.*

If your corporation is interested in finding out more about this worthy cause, please contact:

Richard Allen, IEEE Foundation Development Office
+1-732-465-5871 or richard.allen@ieee.org