IEEE Power & Energy Society

2011 General Meeting

Awards Ceremony

Tuesday, 26 July 2011
Marriott Detroit Renaissance
Detroit, Michigan USA

The Institute of Electrical and Electronics Engineers, Inc.
Awards and Recognition
Sandra R. Ellis, Chair

COMMITTEE CHAIRS

John Estey
- IEEE Power & Energy Society Leadership in Power Award

Leo Grigsby
- IEEE Power & Energy Society Lifetime Achievement Award

Dennis Woodford
- IEEE PES Uno Lamm HVDC Award

Chen-Ching Liu
- IEEE PES Outstanding Power Engineering Educator Award

Marcio Szechtman
- IEEE PES Nari Hingorani FACTS Award
- IEEE PES Nari Hingorani Custom Power Award

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

James J. Burke
- IEEE PES Award for Excellence in Power Distribution Engineering

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

B. Don Russell
- IEEE PES Meritorious Service Award

Hamid Elahi
- IEEE PES Charles Concordia Power Systems Engineering Award

Robert Pellegrino
- IEEE PES Robert P. Noberini Distinguished Contributions to Power Engineering Professionalism Award

Richard Brown
- IEEE PES Technical Paper Awards

Edward C. Carlsen
- IEEE PES Chapter Awards

G. Larry Clark
- IEEE PES Douglas M. Staszesky Distribution Automation Award

Robert D. Saint & Mike Williams
- IEEE PES/IAS A.P. Seethapathy Rural Electrification Excellence Award

Murty Bahavaraju
- IEEE PES Roy Billinton Power System Reliability Award

Felix F. Wu & Yonghua Song
- IEEE PES/CSEE Yu Hsiu Ku Electrical Engineering Award
PROGRAM

Welcome: Kevin A. Taylor  
General Chair, PES 2011 General Meeting

Presiding: Alan C. Rotz  
President, IEEE Power & Energy Society

Introductions: Sandra R. Ellis  
Chair, PES Awards Committee

IEEE AWARD  
Presented by Enrique Tejera, IEEE Division VII Director

• IEEE Herman Halperin Electric Transmission and Distribution Award  
  John H. Brunke

IEEE POWER & ENERGY SOCIETY AWARDS

• IEEE Power & Energy Society Leadership in Power Award  
  Terry Boston

• IEEE PES Robert P. Noberini Distinguished Contributions to  
  Power Engineering Professionalism Award  
  Leann Kostek

• IEEE PES Nari Hingorani FACTS Award  
  John J. Paserba, Jr.

• IEEE PES Cyril Veinott Electromechanical Energy Conversion Award  
  Stephen D. Umans

• IEEE PES Roy Billinton Power System Reliability Award  
  Wenyuan Li

• IEEE PES Charles Concordia Power System Engineering Award  
  Hermann W. Dommel

• IEEE PES Award for Excellence in Power Distribution Engineering  
  Lee Taylor

• IEEE PES Douglas M. Staszesky Distribution Automation Award  
  Cameron Lee Smallwood

• IEEE PES Outstanding Power Engineering Educator Award  
  Thomas J. Overbye

• IEEE PES Outstanding Young Engineer Award  
  Ted K. A. Brekken
NEW FELLOW ACKNOWLEDGMENT

WORKING GROUP RECOGNITION AWARDS

Outstanding Technical Report
• “PSRC WG I 19, Redundancy Consideration for Protective Relaying Systems”
  Solveig Ward, Chair       Bryan Gwyn, Vice-Chair

Outstanding Standard or Guide
  William P. Waudby, Chair       Randall P. Crellin, Vice Chair

PRIZE PAPER AWARDS

• “IEEE PSRC Report on Performance of Relaying During Wide-Area Stressed Conditions”
  Damir Novosel, George J. Bartok, Gene Henneberg, Pratap Gopal Mysore, Demetrios A. Tziouvaras, Solveig Ward

• “Experimental and Theoretical Analysis of Vacuum Circuit Breaker Prestrike Effect on a Transformer”
  Marjan Popov, René Peter Paul Smeets, Lou van der Sluis, Hans De Herdt, Jan Declercq

OUTSTANDING CHAPTER AWARDS

Outstanding Large Chapter Award 2010
• Boston Chapter
  Bryan Gwyn, Chair

Outstanding Small Chapter Award 2010
• Richland
  Yousu Chen, Chair

CLOSING: Alan C Rotz
The IEEE Herman Halperin Electric Transmission and Distribution Award

The IEEE Herman Halperin Electric Transmission and Distribution Award was established in 1986 through an agreement between Herman Halperin and the Board of Directors of the IEEE. From 1959 through 1986, the award for outstanding contributions to the field of electric transmission and distribution was named the William M. Habirshaw Award. Herman Halperin was a recipient of the Habirshaw Award in 1962. Mr. Halperin had a distinguished career with the Commonwealth Edison Company over a period of 40 years. He was particularly noted for his pioneering contributions to the design and operation of electric plant facilities and power cable systems.

The award is sponsored by the Robert and Ruth Halperin Foundation, in memory of the late Herman & Edna Halperin, and the IEEE Power & Energy Society. It is presented to an individual or team of up to three in number for outstanding contributions to electric transmission and distribution. The award consists of a certificate and honorarium.

In the evaluation process, the following criteria are considered: technological importance, successful application, originality, leadership, publications, and the quality of the nomination. The nomination deadline is 31 January.

For additional information on IEEE Technical Field Awards and Medals, to view complete lists of past recipients or to nominate a colleague or associate for IEEE Technical Field Awards and Medals, please visit http://www.ieee.org/awards.

Past Recipients:

- 2010 Carlos Katz
- 2009 Carson W. Taylor
- 2008 Robert C. Degeneff
- 2007 Eric B. Forsyth
- 2006 Anjan Bose
- 2005 James J. Burke
- 2004 Andrew John Eriksson
- 2003 P. Sarma Maruvada
- 2002 John J. Vithayathil
- 2001 Arthur C. Westrom
- 2000 Arun Gajanan Phadke
- 1999 Charles L. Wagner
- 1998 Vincent Thomas Morgan
- 1997 B. Don Russell
- 1996 Farouk A. M. Rizk
- 1995 Vernon Lee Chartier
- 1994 Abdel-Aziz A. Fouad
- 1993 Mat Darveniza
- 1992 Andrew R. Hileman
- 1991 John G. Anderson
- 1990 John A. Casazza
- 1989 - John J. Dougherty
- 1988 Luigi Paris
- 1987 Robert F. Lawrence
The IEEE Herman Halperin Electric Transmission and Distribution Award

JOHN H. BRUNKE
2011 Recipient

For leadership in the development of advanced high-voltage equipment technology, application and standardization

John H. Brunke’s pioneering work on high-voltage surge control technology has found widespread use in reducing stresses on the power grid.

During the 1970s, Dr. Brunke was one of the first engineers to design, install and test a high-voltage switching scheme using “controlled closing” to energize 230-kV shunt capacitor banks. Controlled switching is the switching on/off of high-voltage equipment and lines at a precise instant when the transient generated by the switching is reduced or eliminated.

This improves power quality and reliability while lowering equipment costs. Projects coordinated while at the Bonneville Power Administration concerning staged systems and fault testing have provided important models for identifying problems and solutions for high-voltage systems. As chair of the IEEE and CIGRE (International Council on Large Electric Systems) committees responsible for switchgear technology, Dr. Brunke has provided industry with important standards information and fostered cooperation between the two organizations. An IEEE Fellow, Dr. Brunke is currently a consulting engineer.
The IEEE PES Leadership in Power Award was established in 2007 to recognize industry leaders for exceptional contributions to the promotion of the electric power engineering profession. The award is particularly intended to highlight actions which have encouraged the development and growth of electric power engineering practitioners and the recognition of the contributions electric power engineers have made to society. In this era, electric utility leaders who recognize the crucial importance of power engineering in the safe, reliable and economical generation, transmission and distribution of electricity are rare and this award is to recognize them for their insight and wisdom.

To be eligible, recipients must be active in the electric power industry but do not need to be IEEE members. Selection is based on evaluation of accomplishments as revealed by documented testimonials from industry members. Of particular importance is evidence of the candidate’s promotion of the importance of the power engineering profession and the people practicing it. Work in encouraging industry involvement with university power engineering programs, encouraging young engineers through mentoring and career development programs, recognition programs for power engineers, encouragement of professional activities by practitioners, etc. are also considered.

*The recipient receives a sculpture, certificate, $2,000 honorarium and a travel stipend of up to $2,000.*

Past Recipients:

- 2008  Robin A. Hurst
- 2009  James A. Kelly
- 2010  James Alan Greer
IEEE PES Leadership in Power Award
Terry Boston
2011 Recipient

For his leadership as chair of the North American SynchroPhasor Initiative to enhance power system reliability, and his partnership with local universities to advance the education of Power Engineers

Terry Boston has served for over three years as CEO of PJM Interconnection, the largest power grid in North America and largest electricity market in the world.

Mr. Boston is chairman of the North American Transmission Forum, dedicated to excellence in performance and sharing industry best practices. He was one of the eight industry experts selected to direct the NERC investigation of the August 2003 Northeast/Midwest blackout.

Mr. Boston was chosen as one of Intelligent Utilities Magazine’s 2011 Top 11 Industry Movers and Shakers, and led PJM to win the Platts 2010 Global Leadership Award.

Mr. Boston serves as a U.S. vice president of the International Council of Large Electric Systems (CIGRE), and vice president of the Consortium for Electric Reliability Technology Solutions.

Prior to joining PJM, Mr. Boston was executive vice president of power system operations at The Tennessee Valley Authority, the largest electricity wholesaler and public power provider in the U.S. In 35 years at TVA, Mr. Boston directed divisions in transmission and power operations, pricing and contracts, and electric system reliability.

He served three years as chairman of the Southeastern Electric Reliability Council board of directors and executive committee, three years on the NERC Board/ Stakeholders Committee, and has recently been elected to the NERC Members Representative Committee.

Mr. Boston holds a bachelors of science in engineering from Tennessee Technological University and a masters of science in engineering administration from the University of Tennessee.
The IEEE PES Robert P. 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. The award is named for Robert Noberini in recognition of his many years of service to IEEE and PES.

To be eligible, recipients must be at least a IEEE Senior Member and an engineering professional. 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 IEEE professional activities. In particular, factors to be considered include length of time as an IEEE volunteer, contributions to Power & Energy activities, contributions to IEEE activities, and membership in PES (recommended).

The recipient receives a plaque and a travel stipend of up to $1,500.

Previous recipients
2008  Frank Schink
IEEE PES Robert Noberini Distinguished Contributions to Power Engineering Professionalism Award

Leann Kostek
2011 Recipient

For contributions to the IEEE Power & Energy Society and 27 years of service to the IEEE in a wide array of leadership roles

Ms. Kostek received her BS in electrical engineering cum laude from Boston’s Northeastern University in 1987. After working for seven years for Northeast Utilities in Hartford, Connecticut, she moved to Seattle, Washington.

She joined ABB-Phoenix Controls in the Business Development and Project Management department overseeing hydroelectric control system projects. She joined Puget Sound Energy in 1997.

She has held a variety of positions, Field Operations Engineer, Distribution Planner, Contract Manager and currently is a Senior Project Manager overseeing complex Transmission and Substation projects. Leann has been active in IEEE since her college days, holding offices at the Section, Regional, Technical and Board positions. She served as a board member of the Northwest Ladies Golf Association and Bernese Mt Dog Club of Seattle.
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.

The FACTS Award consists of a plaque, engraved medal and an honorarium of one thousand dollars.

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

Recent Past Recipients:
- 2003 Dusan Pohv
- 2004 Colin D. Schauder
- 2005 Masatoshi Takeda
- 2006 Abdel-Aty Edris
- 2007 Aniruddha M. Gole
- 2008 Xiaoxin Zhou
- 2010 Chris Horwill
IEEE PES Nari Hingorani FACTS Award

John J. Paserba, Jr.
2011 Recipient

For advancing the application of FACTS controllers in power systems to improve system dynamic performance


Throughout his career, John has advanced the application of FACTS controllers to improve the dynamic performance of power systems. Shortly after joining GE, John participated on the team that developed early FACTS concepts with “Scoping” and “Tailored Collaboration” system studies supported by EPRI. He was a key member of the team that developed the first multi-module thyristor controlled series compensator, including the first widely used stability model of TCSC. His subsequent work focused on advancing STATCOM applications in power systems, and with the development of coordinated control strategies for wide-area voltage-var management. John has been involved in the design and commissioning of numerous FACTS installations, including TCSC, STATCOM, SVC, and hybrid applications.

John has been an active educator on FACTS. In this role he has organized and delivered numerous courses and lectures on FACTS technologies. Within IEEE, John has promoted FACTS applications by organizing a series of Panel Sessions at PES conferences over many years; and has authored or co-authored over 60 papers, of which half were on FACTS applications and implementations.

John is a Fellow of IEEE, served as Chair for the PES Power System Dynamic Performance Committee, and served on the PES Governing Board as the VP Meetings Activities.
IEEE PES Cyril Veinott
Electromechanical Energy Conversion Award

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 Cyril Veinott Electromechanical Energy Conversion Award consists of a plaque and an honorarium of $5,000.*

Past Recipients
- 2000 Paul I. Nippes
- 2003 M. Azizur Rahman
- 2004 Hamid A. Toliyat
- 2005 Ronald G. Harley
- 2006 Scott D. Sudhoff
- 2008 Oleg Wasynczuk
- 2009 Emil Levi
- 2010 Osama A. Mohammed
Steve Umans is currently an independent consultant, having retired in 2004 as Principal Research Engineer in the MIT Electrical Engineering and Computer Science Department. He is a graduate of the Massachusetts Institute of Technology, having received the S.B. and S.M. and Sc.D. degrees, all in electrical engineering.

At MIT, in addition to conducting research in the areas of electromechanics, electric machinery and electric power systems, Dr. Umans taught courses in electromagnetic field theory, electromechanics, electric power systems, and circuit and control theory.

He is a member of the IEEE PES Electric-Machinery Committee and related subcommittees.

He is author of the textbook “Fitzgerald and Kingsley’s ELECTRIC MACHINERY”, soon to be published in its 7th edition by McGraw-Hill. Dr. Umans is a Fellow of the IEEE and a member of the National Academy of Engineering. His hobbies include radio-control airplanes and amateur radio and he is active as a clarinetist in various chamber-music and orchestral groups.

Steve and his wife Denise reside in Belmont, MA and are the parents of two children.
This award was created is 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 is funded by the past students and other associates of Professor Roy Billinton and selected organizations. Management of the funds was approved by the IEEE Foundation.

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

Past Recipient

- 2010 Chanan Singh
IEEE PES Roy Billinton
Power System Reliability Award

Wenyuan Li
2011 Recipient

For contributions to theoretical methods, computing tools, databases and industrial applications in reliability and probabilistic planning of power systems

Dr. Wenyuan Li is a Principal Engineer at BC Hydro, Canada. He is an IEEE fellow, a fellow of Engineering Institute of Canada, and a fellow of Canadian Academy of Engineering. He is an advisory professor at two famous universities in China.

Dr. Li has been well recognized for his exceptional accomplishments in power system reliability and probabilistic planning. He is an author of five books, numerous papers and technical reports in reliability, optimization, planning, operation, asset management and software development. His book has been translated into Chinese, Macedonian, Albanian and Farsi languages from English and recognized across the world.

The methods and computing tools he developed have produced significant benefits to the industry and university research. He is an inventor of patents in USA and China. Dr. Li made great contributions to technical societies including IEEE PES and industry organizations through tutorials, seminars, professional courses, paper reviews, editorships and committee activities at national and international levels.

Dr. Li is an editor or on the editorial board of five journals and serves as a chair or a member of technical advisory committees for many international conferences. He also provided considerable consultations to professionals, universities and companies in more than 10 countries. His achievements have been recognized by various awards and honors, including those from IEEE PES, IEEE Canada, Chinese government and the power industry.
IEEE PES Charles Concordia
Power Systems Engineering Award

This IEEE PES Award recognizes outstanding individuals who have contributed to high-voltage electric power system engineering. The field encompasses operations, planning, control, modeling, and analysis of high-voltage power systems and includes the system’s interaction with turbine-generators.

Electrification was the single most important engineering accomplishment in the 20th century, according to the National Academy of Engineering. A significant part of this accomplishment has been the development of high-voltage power systems throughout the world. These developments come from the work and creativity of dedicated engineers who have devoted their careers to the utilization and enhancement of high-voltage bulk power systems. The award is to recognize such dedicated individuals.

The award is named for a man who contributed greatly to power system engineering during a long career (1926 until his death in 2003). His contributions to the technical advancements of Power System Dynamics during the 20th century are unequaled.

The award consists of a plaque and a $5000 honorarium. The funds for the award are provided by the General Electric Company.

The award was established in 2002 and was presented for the first time in 2003.

Previous Recipients:
• 2003 Paul de Mello
• 2004 William F. Tinney
• 2005 Prabha S. Kundur
• 2005 John Undrill
• 2007 Richard Farmer
Hermann W. Dommel grew up in Germany, where he received his engineering degrees in Electrical Engineering from the Technical University of Munich. He worked there from 1959 to 1966 as a Research Associate in the High Voltage Institute. During 1964-65 and from 1966 to 1973 he worked for Bonneville Power Administration in Portland, Oregon, U.S.A. on power system analysis software for electromagnetic transients, which became the present “EMTP” through contributions from many others. He also worked on optimal power flow and transient stability programs.

Since 1973 he has been with the Department of Electrical Engineering at the University of British Columbia in Vancouver, BC, Canada, where he held the Industrial Research Chair sponsored by BC Hydro & Power Authority and the Natural Sciences and Engineering Research Council of Canada from 1995 to 2000. Since October 2000 he has been Professor Emeritus. From 1980 to 1984, he served on the executive of the Vancouver Section IEEE. In 1979, he was elected Fellow of IEEE. In 1989 he received the “Outstanding Power Engineering Educator Award” from the IEEE Power Engineering Society and in 2007 the IEEE Canada Power Medal “for outstanding contributions to optimal power flow, transient stability and electromagnetic transient analysis in electric power systems”.

Dr. Dommel is the author or co-author of 75 papers in journals, and 93 papers in conference proceedings. He is a Registered Professional Engineer in BC, and a member of CIGRÉ.
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 bronze plaque naming the recipient and the award, an honorarium of $1000 and a travel subsidy to attend the PES Awards Ceremony.

Recent 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
IEEE PES Award for Excellence in Power Distribution Engineering

Lee Taylor
2011 Recipient

For vision and innovation in electric distribution reliability, and for sharing this vision and innovation with his friends and colleagues in the electric utility industry

Lee Taylor has worked 40 years for Duke Energy, the past 22 years as their lead distribution reliability engineer. Lee received his bachelor’s degree (Physics) from the University of North Carolina in 1971 and is a professional engineer. He is past chair of the Southeastern Electric Exchange (SEE) Power Quality and Reliability Committee. In 2010, the SEE presented Lee with the Director’s Award for contributions to the electric power industry, an award presented for only the second time in SEE history. Lee serves on several IEEE/PES committees and working groups, and has co-authored a number of papers and articles on distribution system reliability analysis and improvement techniques. Presently, Lee serves as chair for the IEEE/PES Working Group on Switching and Overcurrent Protection.

Lee’s primary accomplishments in distribution reliability focus on the practical and effective application of reliability improvements based on thorough root cause analysis of distribution outages. His work has helped create significant reliability improvements for his own company. In recognition of this work, this year Lee received Duke Energy’s James B. Duke Award which is presented annually for outstanding employee accomplishments. In addition, Lee has continually sought to share these reliability techniques within the industry, through presentations to industry groups including EEI, CEATI, SEE and IEEE. He has also initiated “best practices” sharing with other utilities, including actual on-site meetings where engineers and managers can observe the actual reliability processes and programs in action.
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 administrated by the IEEE Power & Energy Society.

The recipient receives a plaque and a travel stipend of up to $1500, and will designate an engineering school to receive a $2,000 scholarship.

Past Recipients:
- 2009    Dean Craig and Jack Li
- 2010    Robert W. Uluski
Cameron Smallwood is the Senior Vice President of Cooperative Planning for United Cooperative Services.

He has over 18 years of experience in engineering and technology in the electric utility industry. He graduated from Texas A&M College Station with a BS in Bioengineering, electrical engineering emphasis, and graduated from Georgia Institute of Technology with a MS in Electrical and Computer Engineering.

He has been an active part of the IEEE for over 15 years, serving on various committees relating to the rural electric sector of the utility industry and the standards association and has published numerous papers with IEEE in varying conference proceedings and magazines regarding implementing and utilizing technology in the electric utility industry.

He is a senior member of IEEE and is a registered professional engineer in the State of Texas.
IEEE PES Outstanding
Power Engineering Educator Award

For leadership in the power engineering field and contributions
to the engineering profession and engineering education

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 of PES for at
least one year, and be nominated by any PES member and endorsed by
the chapter or technical committee of which the individual is a member.

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

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
Thomas J. Overbye is the Fox Family Professor of Electrical and Computer Engineering at the University of Illinois at Urbana-Champaign where he has taught since 1991. He received his BS, MS, and Ph.D. degrees in Electrical Engineering from the University of Wisconsin-Madison in 1983, 1988 and 1991 respectively.

Over his twenty years as an educator he has taught a variety of different courses including power system analysis, power system operations, renewable electric energy systems, electromechanics, and engineering ethics.

He is an author of the Power System Analysis and Design book, by Glover, Sarma and Overbye, now in its fifth edition. Dr. Overbye is also the original developer of PowerWorld Simulator, an innovative computer program for power system analysis, education and visualization, and is a co-founder of PowerWorld Corporation.

His current research interests include electric power system analysis, visualization, dynamics, and cyber security.

Dr. Overbye was the recipient of the IEEE PES Walter Fee Outstanding Young Engineer Award in 1993, the 2001 IEEE PES Regional Outstanding Engineer Award, the 2005 NSF IUCRC Alexander Schwarzkopf Prize for technological innovation, and a 2005 University of Wisconsin-Madison College of Engineering Distinguished Achievement Award. Finally, Dr. Overbye served on the U.S. DOE’s Power Outage Study Team in 1999, helped with the development of DOE’s National Transmission Grid Study in 2001-2002, and participated in the August 14th 2003 Blackout investigation.
IEEE PES Outstanding Young Engineer Award

This award recognizes outstanding contributions in the leadership of technical society activities including local and/or transactional 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 be 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 scholarship for an electrical engineering undergraduate.

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

- 1994 Lei Wang
- 1997 Mariesa L. Crow
- 1998 Kraig Joseph Olejniczak
- 1999 Miguel Velez-Reyes
- 2000 Christopher Wayne Hickman
- 2002 Jeffrey H. Nelson, Noel N. Schulz
- 2003 Richard Eric Brown
- 2004 Mark Laufenberg
- 2005 Efrain O’Neill-Carrillo
- 2006 Marcelino Madrigal, Ganesh Venayagamoorthy
- 2007 Karen Nan Miu Miller
- 2008 William (Bill) Rosehart
- 2009 Zhenyu (Henry) Huang
- 2010 Luiz A. Barroso
IEEE PES Outstanding Young Engineer Award
Ted K.A. Brekken
2011 Recipient

For outstanding contributions in the leadership of technical society activities, leadership in community and humanitarian activities, and evidence of technical competence

Ted K.A. Brekken is an Assistant Professor in Energy Systems at Oregon State University. He received his B.S., M.S., and Ph.D. from the University of Minnesota under Dr. Ned Mohan in 1999, 2002, and 2005. He studied electric vehicle motor design at Postech in Pohang, South Korea in 1999. He also studied wind turbine control at the Norwegian University of Science and Technology (NTNU) in Trondheim, Norway in 2004-2005 on a Fulbright scholarship.

His research interests include control, power electronics and electric drives; specifically digital control techniques applied to renewable energy systems. Current research activities include control of modeling of ocean wave energy converters, control of large-scale energy storage, and studying the impacts of large-scale integration of diverse renewable power sources. Dr. Brekken has led and participated in over $21 M in research funding, with 40 conference papers published or accepted, and 10 journal papers published or accepted, with several more under revision.

He is co-director of the Wallace Energy Systems and Renewables Facility (WESRF), one of the highest-power university-based energy systems labs in the US. He is also a recipient of the NSF CAREER award, the OSU College of Engineering Engelbrecht Young Faculty Award in 2010, the OSU Electrical Engineering and Computer Science “Innovative Teaching Award” for 2009-2010, the OSU College of Engineering Loyd Carter Award for outstanding and inspirational teaching for 2008, the OSU IEEE Teacher of the Year for 2008, and the OSU Electrical Engineering and Computer Science Most Enthusiastic Professor for 2007-2008.
IEEE Fellows

Fellows elected to the class of 2011 who are members of the IEEE Power & Energy Society

Dan Hammerstrom
for contributions to high performance computer architectures for pattern recognition, image processing, and neural network emulation

Charles Mozina
for contributions to protection of electrical power systems

Joseph Ojo
for contributions to dual stator winding electric machines

Pankaj (PK) Sen
for leadership in arc flash hazard research and electrical safety curriculum

Mesut Baran
for developments in analysis, monitoring and control methods for electric power distribution systems

Janusz Bialek
for contributions to transmission pricing and power system dynamics

Klaus Brand
for contributions to substation automation and power system protection, control and operation

José Brandao Faria
for contributions to electric power system components

Shijie Cheng
for contributions to control of power systems with energy storage

Hermann Koch
for advancements in gas-insulated transmission lines

Dwarakadas Kothari
for contributions in electrical engineering education

Koichi Nara
for contributions to automation of power distributive systems

Ali Nourai
for contributions to energy storage technologies

Richard Taylor
for contributions to protection of electrical power systems

Lei Wang
for contributions to power system stability

Qing-Hua Wu
for contributions to artificial intelligence applications in power systems
Working Group Recognition Awards

Outstanding Technical Report

“PRSC WG I 19, Redundancy Considerations for Protective Relaying Systems”

Solveig Ward, Chair      Bryan Gwyn, Vice-Chair

Outstanding Standard or Guide


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Prize Paper Award

“IEEE PSRC Report on Performance of Relaying During Wide-Area Stressed Conditions”

Damir Novosel, George J. Bartok, Gene Henneberg, Pratap Gopal Mysore, Demetrios A. Tziouvaras, Solveig Ward

Damir Novosel, IEEE Fellow, is President of Quanta Technology. His major area of expertise is in power system monitoring, protection, control, and automation. Damir holds 16 US and international patents and has published over 100 articles in Refereed Journals and Conference Proceedings. He is Chair of the IEEE PES Technical Council and IEEE PES VP of Technology. Damir holds PhD and MSc degrees in electrical engineering from Mississippi State University and University of Zagreb, Croatia, respectively.

George J. Bartok received the Master’s degree in Electric Power Engineering from Rensselaer Polytechnic Institute, Troy, NY. He is Principal Power System Engineer with RLC Engineering in Augusta, ME. He has 42 years experience in power system planning, operation, and protection. He has authored and presented several technical papers in the areas of power system protection, automation, and simulation. He is a Senior Member of IEEE and a registered professional engineer in Connecticut and Maine.

Gene Henneberg received his BSE from Walla Walla College and MSEE from Washington State University. He has been an engineer at NV Energy in transmission planning, substation construction and maintenance and protection engineering for several years. He is a member of the WECC Relay Work Group and Chair of the WECC Remedial Action Scheme Reliability Subcommittee. He is active in the IEEE Power Systems Relaying Committee and has authored and presented several conference papers. Technical interests include dielectric design, gaseous and solid insulation, materials, and insulation ageing.
Pratap Gopal Mysore is with HDR Engineering Inc. as National Relay and Protection engineer. Prior to joining HDR in January 2011, he was with Xcel Energy for over twenty-three years. He is actively involved in standards development activities of IEEE and is presently the chair of substations subcommittee of IEEE Power Systems Relaying Committee. He is the recipient of an IEEE local chapter Outstanding Engineer award in 2000.

Demetrious A. Tsiouvaras received his BSEE from the University of New Mexico and MSEE from Santa Clara University. He is an IEEE SM and a member of Power System Relaying Committee and CIGRE. He worked at PG&E Co. as a principal protection engineer. In 1998, he joined Schweitzer Engineering Laboratories, Inc. He holds four patents and has authored more than 50 technical papers. He chaired the CIGRE.

Solveig Ward has over 34 years experience working in a variety of managerial, product management and marketing roles in the protective relaying and communications area in ABB, RFL Electronics, and Quanta Technology.

She is a Senior Member of IEEE and Chair of its System Protection Subcommittee. Solveig has authored over 20 papers and magazine articles. She is co-author of three transaction papers, co-editor of one book, and holds one patent in the relay protection field.
Prize Paper Award

“Experimental and Theoretical Analysis of Vacuum Circuit Breaker Prestrike Effect on a Transformer”

Marjan Popov, René Peter Paul Smeets, Lou van der Sluis, Hans De Herdt, Jan Declercq

Marjan Popov received his Ph.D. degree in Electrical Power Engineering from Delft University of Technology, The Netherlands in 2002. From 1993 to 1998 he was with the University of Skopje, Macedonia and in 1997 with the University of Liverpool, U.K. At present, he is Associate Professor in Electrical Power Systems at Delft University of Technology. His research interest is in intelligent protection for future power systems, power system transients and large scale of renewable energy.

René Peter Paul Smeets has been employed at KEMA, Netherlands, since 1995 in high-power testing. He received a Ph.D. degree from Eindhoven University in 1987. During 1991 he worked with Toshiba Co. in Japan.

He is professor at Eindhoven University and active in several working groups in research and standardization in power engineering (CIGRE, IEC). He is Fellow of IEEE and chairs the “Current Zero Club”. He published over 200 papers on high-power switching and testing.
Lou van der Sluis (M’81, SM’86) obtained his M.Sc. in electrical engineering from the Delft University of Technology in 1974. He joined the KEMA High Power Laboratory in 1977 where he was involved in the development of a data acquisition system, computer calculations of test circuits and the analysis of test data. Since 1992 he has been a professor at his alma mater in the Power Systems Department. Prof. Van der Sluis authored the books “Transients in Power Systems” and “Electrical Power System Essentials”.

Hans De Herdt was born in Rumst, Belgium on October 7, 1964. He obtained his M.Sc. in electrical-mechanical engineering in 1987 from the Katholieke Universiteit Leuven, Belgium. In 1989 he joined Pauwels Trafo Belgium as an R&D project engineer. He is currently working for CG Power Systems Belgium as developer of an integrated transformer design system. His main interests are electromagnetic field calculations, transient voltage calculations, insulation coordination and transformer modeling.

Jan Declercq M.Sc, MBA, Ph.D. at KU Leuven, Belgium, research at Purdue University USA and joined Pauwels Trafo Belgium afterwards. He is now Chief Business Development Officer of CG Power, a products and systems provider in Transmission and Distribution. He is active in Agoria, FOSG, EWEA, IEEE, IEC , Cigré. As convenor of Cigré A2WG24 on Thermal Performance, he received the Cigré Technical Award. His interests are transformers and systems in smart grids and renewable energy.
The Boston Chapter is recognized for its outstanding performance during 2010 under the leadership of Chapter Chairman Bryan Gwyn and the Chapter Executive Committee.

The Chapter Executive Committee is very proud of their achievements for the year 2010 after rejuvenating the Chapter in 2009. The Boston PES Chapter had a great year in 2010 as excitement grew with interesting technical meetings, excellent educational programs, and communications with members about the Chapter. The chapter met many of their goals in serving the greater Boston engineering community and has grown the membership base significantly.

The Boston Chapter is well deserving of the 2010 PES Outstanding Large Chapter Award.

Some significant 2010 high points include:

- A total of 13 technical and educational meetings were held during the year.
- Technical meeting averaged over 45 attendees and included topics such as:
  - Evolution of a Transmission System
  - Power Transformer Diagnostics
  - Distributed Generation Interconnection
  - Wind Power Design Considerations
  - Grounding (DLP)
- Two multi-day educational programs on Transformers and Power Cables were highly successful with 82 and 46 attendees respectively. CEUs were approved and awarded to attendees.
- A technical tour of a local combined cycle generating plant was attended by 22 members and guests.
- Support for student related activities are provided in a variety of ways. This included:
  - Regular communication and interaction with the Student Chapters at four local universities
  - A newly created technical paper contest for high school students
- Total membership has increased each year for the past five years, with an increase of over 30% in the past two years due to the focused efforts of the chapter Executive Committee.
- The Chapter is committed to upgrading the membership status of its members, as four chapter members were advanced to Senior grade. The chapter continues to work with others for upgrades and other recognitions.

Runners-up in this category were the Madras, New York and Queensland chapters.
The Richland Chapter is recognized for its outstanding performance under the leadership of Chapter Chair, Yousu Chen and the Chapter Executive Committee,

The Richland PES Chapter continued its history of providing a wide range of programs and services to its members including technical meetings, educational events, tours, and support of the engineering profession. An effective web site has essential information for the chapter membership... which grew by 20% in 2010.

The recognition of Richland Chapter as the 2010 PES Outstanding Small Chapter is well deserved.

Some examples of 2010 activities:

• Numerous technical meetings at a various locations throughout the area. These were primarily delivered by local professors, industry leaders, and supplemented by the Distinguished Lecturer program. These events were well attended averaging almost 30 members and guests. Topics included:
  - Electrical Field Measurement
  - Synchronized Control, Protection, and Operation of Electric Power Systems
  - Energy Storage: How Much Do We Need?
  - Operating a Large, Complex Engineering System: The California Aqueduct
  - Smart Grid Information Clearinghouse

• A technical tour of the Grand Coulee Dam

• Three educational programs including the topics of “Power System Controls: Today and Future”, “Smart Grid, the Future Energy Grid” and “Reliability of restructured electric power system – what is the impact of smart grid?”

• A variety of Public Affairs programs to promote the engineering profession.

• Student activity support through events such as the Annual Mid-Columbia Science and Engineering Fair, various GOLD activities, and support of the local PES student chapters.

• The Chapter supported the successful upgrade of three Senior Members and continues ongoing efforts.

• Membership recognition was achieved by utilizing the Outstanding Chapter Engineer Award and numerous other means throughout the year.

• Very effective Membership Development and Growth Program which resulted in a chapter membership increase of 20% in 2010.

• A web page that contains essential details of the Chapter, its activities, and its relationship to the section.

Runners-up in this category were the Delhi, Long Island, Singapore and Western Saudia Arabia chapters
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