IEEE POWER ENGINEERING SOCIETY

2004 GENERAL MEETING

AWARDS PROGRAM

Tuesday, 8 June 2004
Adams Mark Hotel
Denver, Colorado USA

IEEE

The Institute of Electrical and Electronics Engineers, Inc

PES Awards and Recognition

C. A. WARREN, *Chair*

Committee Chairs

W. LONG
Uno Lamm HVDC Award

C. SINGH
Outstanding Power Engineering Educator Award

W. LITZENBERGER
Nari Hingorani FACTS Award
Nari Hingorani Custom Power Award

T. OVERBYE
Walter Fee Outstanding Young Engineer Award

J. J. BURKE
Excellence in Power Distribution Engineering Award

S. D. PEKAREK
Cyril Veinott Electromechanical Energy Conversion Award

R. G. FARMER
Charles Concordia Power Systems Engineering Award

M. SHAHIDEHPOUR
Technical Paper Awards

G. G. KARADY
Chapter Awards

PROGRAM

Welcome

THOMAS WEAVER
Chair, 2004 PES General Meeting

Presiding

HANS B. (TEDDY) PÜTTGEN
President, IEEE Power Engineering Society

Presentation of Awards

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Chair, IEEE Power Engineering Society Awards

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Outstanding Power Engineering Educator Award

CHEN-CHING LIU

Nari Hingorani FACTS Award

COLIN D. SCHAUDER

Walter Fee Outstanding Young Engineer Award

MARK LAUFENBERG

Award for Excellence in Power Distribution Engineering

DAVID R. SMITH

Charles Concordia Power System Engineering Award

WILLIAM F. TINNEY

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"Overhead Distribution Conductor Motion
Due to Short-Circuit Forces"
D. J. WARD

"A New Thermal Governor Modeling in the WECC"
L. PEREIRA, J. UNDRILL, D. KOSTEREV, D. DAVIES, S. PATTERSON

Working Group Recognition Awards

OUTSTANDING TECHNICAL REPORT

"Peer-to-Peer Communications for Protective Relaying"
MURTY YALLA, *Chair*

OUTSTANDING STANDARD OR GUIDE

IEEE Std 1534-2002
"Recommended Practice for Specifying
Thyristor-Controlled Series Capacitors"
DUANE TORGERSON, *Chair*

Outstanding Chapter Awards

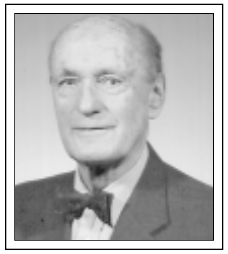
Small Chapter: Kolkata, KESAB BHATTACHARYA, *Chair*
Large Chapter: New York-Long Island, UWE ENKE, *Chair*
United Kingdom & Republic of Ireland,
THOMAS J. HAMMONS, *Chair* MARK O'MALLEY, *Chair*

Closing

HANS B. (TEDDY) PÜTTGEN

Uno Lamm High Voltage Direct Current Award

"Engineering - Accomplishment Through Imagination and Truth"



The Uno Lamm High Voltage Direct Current Award was established in 1980 by the Power Engineering Society of the IEEE on 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, as an engineer and manager, 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 Uno Lamm HVDC Award consists of a bronze medal, an engraved certificate and an honorarium of one thousand dollars.

Previous Recipients:

1981	Erich Uhlmann	1994	Thomas E. Calverley
1983	John D. Ainsworth	1995	Åke Ekström
1985	Narain G. Hingorani	1996	John Reeve
1987	Karl-Werner Kanngiesser	1997	Jos Arrillaga
1989	Aleska Gavrilovic	1998	Tadashi Senda
1990	Glenn D. Breuer	1999	Chandra Krishnayya
1991	Birger Funke	2001	Dusan Povh
1992	Carlos A. De O. Peixoto	2002	Conrad Beriger
1993	Donald M. Demarest	2003	Göte Liss

Uno Lamm High Voltage Direct Current Award

DENNIS A. WOODFORD

2004 Recipient

For leadership in the study of ac and dc systems.

Dennis Woodford received his B.E. degree in 1967 from the University of Melbourne and his M.Sc. degree in 1973 from the University of Manitoba. Following four years with English Electric Company he was Special Studies Engineer in the System Planning Department of Manitoba Hydro. In 1986 he joined the newly-formed Manitoba HVDC Research Centre as Executive Director. He held that post until 2001 when he and colleagues formed Electranix Corporation where he is President.

His key contribution to HVdc technology was his development of the initial software and subsequent leadership of the team that developed EMTDC, one of the world's most widely used transient simulator programs. In the early 1970s the only practical way to perform electromagnetic transient studies on a dc system was with an analog simulator. Set-up time and accuracy of results were major concerns. In carrying out studies on the newly-developing Nelson River HVdc system, Dennis Woodford became convinced that future studies could be conducted more accurately and efficiently if done digitally. Beginning with the BPA Transients Program developed by Hermann Dommel (later known as the EMTP) he wrote new code for decoupled portions of the network, created control modules, and developed an interface to the base code. He subsequently led the development of a graphical user interface which then resulted in the commercial development of the PSCAD/EMTDC package which is used world-wide.

Other contributions include leading the work that resulted in the world's first commercial real-time digital simulator for power system studies; building the Manitoba HVDC Research Centre into a successful, self-sustaining research establishment; and presently through Electranix Corporation studying the integration of wind farms into ac networks.

Dennis Woodford has been an active member of IEEE and CIGRE with over 70 publications and numerous committee and working group activities. He currently is Chair of the DC and Flexible AC Transmission Subcommittee of the PES Transmission and Distribution Committee. He is a registered Professional Engineer in the Province of Manitoba and an Adjunct Professor at the University of Manitoba. He is the recipient of the Tesla Award from Westinghouse Corporation (1981) and the Merit Award from the Association of Professional Engineers of the Province of Manitoba (1985).

Outstanding Power Engineering Educator Award

For outstanding contributions and leadership in power engineering education.

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

Eligibility

- Classroom instruction in electrical engineering at a college or university with an accredited electrical engineering program or equivalent.
- A member of PES for at least one year.
- Nomination by any PES member and endorsement by the chapter or technical committee of which the individual is a member.

Prizes

- Plaque designating recipient, award and honorarium.

Previous Recipients

- 1989 Hermann W. Dommel
- 1990 Herbert H. Woodson
- 1991 Arun G. Phadke
- 1992 Roy Billinton
- 1993 Abdel-Aziz A. Fouad
- 1994 Anjan Bose
- 1995 Gerald Heydt
- 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

Outstanding Power Engineering Educator Award

CHEN-CHING LIU
2004 Recipient

For the integration of advanced concepts into power engineering educational curricula and the mentoring of students

Chen-Ching Liu is a Professor of Electrical Engineering and an Associate Dean, College of Engineering, at the University of Washington, Seattle (UW). He received his B.S. and M.S. degrees from National Taiwan University and the Ph.D. from the University of California, Berkeley. At the UW, he has been active in teaching and research in power engineering, including power system analysis and computation, intelligent system applications and power economics. Professor Liu initiated activities in power engineering educational innovation while he served as Program Director for Power Systems at National Science Foundation in 1994-95. He has supervised numerous Ph.D., M.S. and undergraduate student projects. Dr. Liu also gave tutorial courses, seminars / presentations on advanced technologies for power engineering in many countries. At the UW, Chen-Ching Liu plays a leadership role in educational and research activities sponsored by Electric Energy Industrial Consortium, Grainger Foundation Fellowship / Scholarship Program, and the Advanced Power Technologies Center.

Professor Liu was elected "Teacher of the Year" by EE students at the UW in 1985. He received the Presidential Young Investigator Award from NSF in 1987. Chen-Ching Liu was elected a Fellow of the IEEE in 1993. He received the faculty recognition award from the IEEE PES "for inspiring Robert Dahlgren to write the 1994 T. Burke Hayes Prize winning paper." Dr. Liu was a member of the IEEE PES Governing Board from 1992-97 and chaired the PES History Committee and PES Fellow Committee. He is currently a member of the PES Power Engineering Education Committee and Vice Chair of the Technical Committee on Power System Analysis, Computing and Economics (PSACE). Professor Liu received an IEEE Millennium Medal in 2000 and the 2001 PES PSACE Technical Committee Distinguished Service Award. Dr. Liu was a visiting professor at The University of Tokyo, Waseda University and the Swiss Federal Institute of Technology, Lausanne. In 2003, Dr. Liu was invited to serve as a member of the Advanced Technologies Advisory Council for the PJM Interconnection.

Nari Hingorani FACTS Award

For major contributions to the state of the art of Flexible AC Transmission (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 for 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.

This award is funded by contributions from the following companies:

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

Previous Nari Hingorani FACTS Award Recipients:

- 1999 Laszlo Gyugui
- 2000 David John Young
- 2001 Einar Larsen
- 2002 Ibrahim Arslan Erinmez
- 2003 Dusan Povh

Nari Hingorani FACTS Award

Colin D. Schauder

2004 Recipient

For contributions to the basic concepts, design, installation and commissioning of voltage-source inverter-based FACTS controllers.

Colin Schauder was born in Port Elizabeth, South Africa, and attended the University of Cape Town, South Africa, where he was awarded the B.Sc. and Ph.D. degrees in Electrical Engineering in 1972 and 1978 respectively. His research was in the analysis and control of induction motors. From 1978 to 1983 he was employed by the GEC Electrical Projects Company in Rugby, England, where he developed new concepts for the control of high performance ac motor drives. In 1983 he joined the Power Electronics Department at the Westinghouse R&D Center in Pittsburgh, PA, and was employed at that location until July, 2000. At Westinghouse he rose to the position of Consulting Engineer, the highest position on the Westinghouse technical advancement ladder.

Since 1990 he has been developing and implementing new concepts for the application of high power electronics to the compensation of electric power transmission and distribution systems. He is the inventor or co-inventor of many of the basic concepts in the field of Flexible AC Transmission Systems (FACTS), including the acclaimed Unified Power Flow Controller (UPFC), and has led the design, installation and commissioning of some of the largest force-commutated voltage-sourced inverters. These include the TVA STATCOM at Sullivan Substation, commissioned in 1995, which was the first large inverter-based FACTS installation in the U.S, and the historic AEP UPFC at Inez Substation, dedicated in 1997, which was the first UPFC installation, and also the first demonstration of a Static Synchronous Series Compensator (SSSC).

From 1998 to 2000, Dr. Schauder was the FACTS Technical Manager for Siemens FACTS and Power Quality Division. In this position, he led the design team for the ground-breaking NYPA Convertible Static Compensator project at Marcy Substation. This installation provides eleven different power circuit configurations and is the first demonstration of the Interline Power Flow Controller (IPFC). Although he left Siemens in 2000, Dr. Schauder continued to support this project as a consultant until its completion in 2003.

Since 2000, Dr. Schauder has established an independent business activity as a consultant in FACTS, power electronics, and control systems. Since 2003 he has also been employed on a part-time basis by SatCon Technology Corporation, Cambridge, Massachusetts.

Dr. Schauder holds 35 separate patents. He has authored numerous technical publications and received many awards for his work, including 18 Westinghouse awards, 4 IEEE/IAS Prize Paper awards, and two R&D Magazine R&D100 awards.

Walter Fee Outstanding Young Engineer Award

For 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.

Eligibility

- Thirty-five years of age or under on January 1 of the year the award is presented.
- Nomination by any PES member and endorsement by the chapter or technical committee of which the individual is a member.
- A member of PES for at least one year.
- Minimum of a B.S. in Electrical Engineering from an accredited electrical engineering program or equivalent.

Prizes

- Plaque designating recipient and award.
- Recipient will designate a college or university with an accredited program in electrical engineering or equivalent to receive a $5,000 scholarship for an electrical engineering undergraduate.

Previous Recipients

- 1988 Pierre Bornard
- 1989 Ali Nourai
- 1990 John G. Kappenman
- 1991 Kwa-Sur Tam
- 1992 Mark Lauby
- 1993 Tom Overbye
- 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

Walter Fee Outstanding Young Engineer Award

MARK LAUFENBERG

2004 Recipient

For outstanding contributions in power industry entrepreneurship and engineering..

Dr. Mark Laufenberg has been the President of PowerWorld Corporation, which he co-founded, since its inception in 1996. He received his Ph.D. in Electrical Engineering in 1996 from the University of Illinois at Urbana-Champaign, and has been the Principal Investigator on several National Science Foundation Small Business Innovation Research grants, including an on-going Phase II grant. He has taught a course on technical entrepreneurship at the University of Illinois, where he was a Visiting Professor. He has industrial experience at KEMA, Pacific Gas & Electric, and the Jet Propulsion Laboratory.

Since PowerWorld Simulator was originally commercialized in 1996, there has been extensive development of the software. Dr. Laufenberg has led the development team and design sessions for new software features. This development has resulted in a much-improved product that is achieving ever-increasing popularity within the industry. In addition, PowerWorld now also markets and distributes five optional add-ons to the base Simulator package. PowerWorld's newest product, PowerWorld Retriever, allows users to visualize real-time or archived system data using PowerWorld's industry leading visualizations, and has been installed at numerous large control centers.

PowerWorld now has over 350 separate corporate entities as customers and users of Simulator and Retriever, in 42 different countries around the world. PowerWorld currently employees 14 people, including five with their Ph.D.'s in Electrical Engineering and three additional employees who hold M.S. degrees in Electrical Engineering.

At PowerWorld, Dr. Laufenberg has been the principal investigator on five National Science Foundation (NSF) Small Business Innovation Research Phase I research grants, and is currently the principal investigator on a Phase II NSF research grant.

Dr. Laufenberg is the co-author on several published articles in research journals and conference papers published in conference proceedings. His Ph.D. dissertation was entitled "Dynamic sensitivity functions and the stability of power systems with FACTS controllers".

Before completing his Ph.D. and co-founding PowerWorld Corporation in 1996, Dr. Laufenberg held internships at KEMA in Fairfax, Virginia, and Pacific Gas & Electric in San Francisco. He also held a co-op position at the Jet Propulsion Laboratory in Pasadena, California, where he worked in the spacecraft power systems group.

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.

Prizes

- A bronze plaque with naming the recipient and the award
- An honorarium of $1000
- Travel subsidy to attend the PES Awards Ceremony

The award is funded by long-term grant commitments received from the Asplundh Co., Chance Co., Commonwealth Edison Co., Georgia Power Co., Kearney-National Inc., Pacific Gas & Electric Co., PECO Energy Co., and the S&C Electric Co.

Previous Recipients

- 1989 Sidney R. Gilligan
- 1990 Paul L. Pearson, Jr.
- 1991 Harvey W. Mikulecky
- 1992 Jack H. Lawson
- 1993 William E. Shula
- 1994 John R. Conrad
- 1995 Franco Reggiani
- 1996 James J. Burke
- 1998 Joseph L. Koepfinger
- 1999 John G. Anderson
- 2000 Daniel J. Ward
- 2001 Ronald H. Stillman
- 2002 John D. McDonald
- 2003 Robert Ellis Owen

Award for Excellence in Power Distribution Engineering

DAVID R. SMITH

2004 Recipient

For engineering contributions in distribution secondary networks, transformer applications and analysis.

David Smith is a registered professional engineer (electrical), a Fellow Member of IEEE, and is an Executive Consultant with Shaw Power Technologies. A native of Altoona, Pennsylvania, he received a BSEE degree from Penn State in 1963 where he was a member of Eta Kappa Nu, and an MSEE degree from the University of Pittsburgh in 1968.

Throughout most of his career, he has been involved with power distribution system analysis, design, equipment application, special studies, failure investigations, and educational programs. From 1963 to 1988 he was with Westinghouse Electric Corporation in a variety of engineering capacities, and since 1988 has been with Power Technologies.

He conducted pioneering work in ferroresonance in four- and five-legged core distribution transformers, sequence impedances and circulating currents in circuits employing multi-wire concentric neutral cables, voltage unbalance in four-wire delta circuits, low-side surges in three-wire services, neutral sizing in low-voltage networks, and the digital simulation of simultaneous faults. Significant contributions have been made in developing functional characteristics for micro-processor based network protector relays, protection schemes for 480-volt spot networks, and application of closed transition switching and co generation on spot networks. Enhancements to network protectors and test equipment that provide increased safety for the operators have resulted from his efforts.

The network simulator that he developed allows students to better understand the factors affecting real and reactive flows in spot networks, and the impact of network relay close and trip characteristics/settings on protector response to varying loads.

Teaching experience included courses on power distribution engineering at Carnegie Mellon University and the University of Pittsburgh. Presently he is the instructor of PTI's courses on Low-Voltage Networks, and Distribution Transformer Applications. He is a holder/co-holder of five patents, with three on network protector relays.

He was active in the Performance Characteristics Subcommittee of the IEEE Transformers Committee, and the Capacitor and Distribution Subcommittees of the IEEE T and D Committee. He has been an author/presenter of IEEE tutorials on Distribution Transformers, LV Networks, and Recloser/Sectionalizer use Application at both the national and local levels.

Charles Concordia Power Systems Engineering Award

This IEEE PES Award recognizes outstanding individuals who have contributed to high-voltage electric power system-engineering. This field encompasses Operations, Planning, Control, Modeling, and Analysis of high-voltage power systems and includes the system's interaction with turbine-generators. Electrification is 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 has contributed greatly to power system engineering during a long career (1926 to 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 cash honorarium. The funds for the award are provided by General Electric Co. The award is administrated by the IEEE PES Awards and Recognition Committee.

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

Previous recipient

- 2003 F. Paul de Mello

Charles Concordia Power Systems Engineering Award

WILLIAM. F. TINNEY
2004 Recipient

For advancements in power system computation.

William F. Tinney attended Oregon State University for two years, studying electrical engineering. In 1943 he enlisted in the US Army Air Force and was commissioned as a Communications Officer. He then attended the Harvard-MIT Radar School, became a Radar Officer and served in that capacity until his discharge in 1946. He resumed his education at Stanford University and received a B.S. in electrical engineering. In graduate school he continued engineering studies and received an M.A.in education in 1949.

In 1950 Mr. Tinney obtained employment with the Bonneville Power Administration (BPA). In 1955 he was assigned to look into the possibility of solving the power flow problem on a digital computer. He developed a solution method and programmed it on the IBM 650 computer. In 1956 the program replaced the network analyzer for production power flow studies at BPA. Thereafter until his retirement from BPA he continued to work in various capacities in the emerging new field of power system computer applications.

Mr.Tinney's most far-reaching contributions have been in sparse matrix technology. In 1961 he developed an entirely new programming technique for sparse matrix operations that greatly increased their speed and reduced their memory requirements and used it to implement Newton's method for solving the power flow problem. He and other investigators have continued making advancements in sparsity techniques up to the present time. He has also done significant work on optimal power flow, state estimation, fault analysis and other problems. In the early days of power system computation, the programs he and his colleagues developed at BPA were widely distributed, adapted and used by many other organizations. Since retiring from BPA in 1979 as head of its System Analysis Section, he has been an independent consultant.

Mr. Tinney received the Gold Medal for Distinguished Service from the U.S. Department of Interior and an IEEE Third Millenium award. Four IEEE Transactions papers he co-authored won best paper prizes and another received the W.G. R. Baker Prize. His most unusual award was the Order of the Sacred Treasure, conferred by the Emperor of Japan in 1989.

He is an IEEE Fellow and a member of the National Academy of Engineering.

Prize Paper Award

"Overhead Distribution Conductor Motion Due to Short-Circuit Forces"

D. J. Ward

Daniel J. Ward received the BE from Stevens Institute of Technology and the MSEE from Union College. While at GE, he completed their advanced engineering program and worked on distribution equipment application studies. He joined Virginia Power in 1988 and is a principal engineer involved in distribution studies aimed at system reliability improvements as well as R&D activities.

Mr. Ward chairs the IEEE Distribution Subcommittee and the ANSI C84.1 Committee on Voltage Standards for Electric Power Systems and Equipment. A member of the Transmission and Distribution and the Insulated Conductors Committees, Dan is a registered professional engineer in Virginia. He has authored and co-authored more than 30 technical papers, including two prize papers. Dan received the PES Award for Excellence in Power Distribution Engineering in 2000 and was named IEEE Fellow in 2004 for his contributions to electric power distribution systems.

Prize Paper Award

"A New Thermal Governor Modeling Approach in the WECC"

L. Pereira, J. Undrill, D. Kosterev, D. Davies, S. Patterson

Les Pereira received his BSEE from the University of Kerala, India and M.Sc. in Electrical Engineering from Imperial College of Science & Technology, London England, 1970. He is presently the Director of Transmission Planning and Design at Northern California Power Agency, Roseville California. His previous experience includes engineering in India, England, Greece and the USA. Active in the Western Electricity Coordinating Council (WECC), his is Chair of the Governor Modeling Task Force, and member of the Planning Coordination Committee, Modeling & Validation Workgroup, and California Operating Studies Group. He represents WECC in the NERC IDWG. He is a registered professional engineer in California and a Senior Member of the IEEE. His interests include stability simulations, generating unit dynamic modeling, and testing and model validation of generators.

John Undrill received a PhD degree from the University of Canterbury in New Zealand. He has worked in Power System dynamics and control for 40 years at GE, Power Technologies Inc, and Electric Power Consultants Inc. He is presently a Principal Consultant at General Electric.

Dmitry Kosterev received his PhD in Electrical Engineering from Oregon State University in 1996. Currently, he is an Electrical Engineer with the Bonneville Power Administration. Dr.Kosterev has performed many network planning studies. He is involved in power plant modeling and testing, control tuning, load modeling. He participated in developing models for Pacific HVDC Intertie and its controls. Dr.Kosterev prepared and performed many disturbance validation studies for model validation.

Donald Glen Davies has been employed by Western Electric Coordinating Council (WECC) for over 20 years. He compiles the annual study report, documenting the results of power flow and stability studies. He also reviews dynamic model test and validation data provided by generator owners for input into dynamic model data files. He received bachelors and masters degrees in electrical power engineering from Brigham Young University in 1978.

Shawn Patterson received his BS and MS degrees in Electrical Engineering from the University of Colorado in 1985 and 1995. He works for the Bureau of Reclamation specializing in power system stability, computer modeling, excitation systems, and governors. He is a registered Professional Engineer in the state of Colorado and an active member of the IEEE Power Engineering Society, where he is currently involved with several excitation system working groups. He is

Working Group Recognition Awards

Outstanding Technical Report

"Peer-to-Peer Communications for Protective Relaying"

Murty Yalla, *Chair*

A. P. Apostolov
J. R. Beatty
S. Borlase
J. Bright
J. F. Burger
S. Dickson
G. J. Gresko
W. G. Hartmann
J. W. Hohn
D. K. Holstein
A. Kazemi
G. L. Michel
C. R. Sufana
J. T. Tengdin
M. J. Thompson
E. A. Udren

Outstanding Standard or Guide

IEEE Std 1534-2002 "Recommended Practice for Specifying Thyristor-Controlled Series Capacitors"

Thyristor Controlled Series Capacitor Working Group
Duane Torgerson, *Chair*

B. Bhargava
H. Bilodeau
T. Campbell
A. Edris
C. Gama
V. Gor
R. Haas
E. Horgan
J. Joyce
L. Kirschner
G. Lee
W. Litzenberger
B. Mehraban
N. Miller
S. Miske
J. Samuelsson
H. Sarmiento
B. Wikstrom

2003 Outstanding Small Chapter Award

Kolkata Chapter

Kesab Bhattacharya, *Chair*

The **Kolkata** Chapter sponsored six technical meetings in 2003. The meetings dealt with different technical and economic subjects including: Behavior of String Insulators under Different Pollution Levels, Lighting Design and Case Studies, Lighting Control, Chaotic Ferroresonance in Power Transformers, Impulse Behavior of Transformers, and Modern Trends in Lighting. These successful technical meetings were well attended. In addition to the technical meetings the Chapter's Executive Committee held four meetings in 2003.

The chapter organized the all-India Seminar on "Integrated Operation of Power Systems" jointly with the Electrical Engineering Division, West Bengal State Center of the Institution of Engineers (India). In addition a workshop on "Impact of Electricity Privatization on the Existing Electric Power Systems" was organized jointly by the IEEE Kolkata Section and the Power Engineering Society Chapter.

The educational activities included a one-day tutorial on 'Wavelet Transform and Fractal Analysis in Pattern Recognition, a half-day seminar on "Power System Problems in Jharkhand Computer Networks and Power Systems" and "Application of Soft-Computing Techniques in Power Systems".

The chapter nominated three members for senior grade and one member's significant contributions were acknowledged by a certificate of appreciation. The chapter honored a prominent member with the Outstanding Chapter Engineer Award.

A major objective of the chapter throughout the year was to involve a large number of students in all the chapter activities even though they are not PES members. This exposed the students to the state-of-the-art technological developments in the power industry. A concrete example of this was the technical visit of the students to a 220 kV substation. Other student activities of the chapter such as a Web Content Development contest generated great enthusiasm among the student volunteers.

The chapter appointed a GOLD member as treasurer of the chapter and organized a technical meeting for GOLD members.

All the programs of the chapter involved members of academia as well as practicing engineers from different industries and power utilities for exchange of information and ideas as well as exploring possible ways and means of technology transfer.

The crowning achievement to an outstanding year is, ultimately, winning the PES Outstanding Small Chapter Award. The Power Engineering Society very proudly salutes the Kolkata chapter and its officers for their truly outstanding performance in the small chapter category.

2003 Outstanding Large Chapter Award

New York-Long Island Chapter

J. A. (Alan) Osborne, *Chair*

The **NY-LI Chapter** sponsored twenty-five technical and administrative meetings in 2003. The meetings dealt with different technical and economic subjects including: Downtown PATH Restoration, New Technology for the Grid, Phase Matching System using GPS, Next Generation of Dry Type Transformers, Square D Power Monitoring, NYC Transit New Control Center and Solar Power. These successful technical meetings attracted a large number of engineers from the New York area. In addition to the technical meetings, the chapter's executive committee held eight meetings in 2003.

The chapter sponsored an educational lecture at New York City College entitled "How the Power System Works." Another very important educational activity was the organization of a large number of review courses for the Professional Engineering Exam.

The chapter celebrated Engineer's Week with a guest speaker organized by the chapter. Other engineering societies attended the talk. This generated collaboration with other engineering societies and improved IEEE standing in the engineering community.

The chapter honored a prominent member with the Outstanding Chapter Engineering Award. Three engineers from the chapter were nominated for the Region 1 Award and the chapter made one IEEE Fellow nomination in 2003.

The chapter membership increased from 562 to 589 in 2003. The chapter members regularly visit local colleges explaining the roll of the engineer in the society. This activity contributed to the membership development.

The chapter organized meetings for GOLD members. Particularly successful was the well-attended financial and networking seminar.

The chapter activities are published in the IEEE NY Monitor, which is sent to 6000 engineers in the area.

On the education front, the chapter sponsored student branch activities at six universities and colleges around the New York area.

The crowning achievement to an outstanding year is, ultimately, winning the PES Outstanding Large Chapter Award. The Power Engineering Society very proudly salutes the New York and Long Island Chapter and its officers for their truly outstanding performance in the large chapter category.

2003 Outstanding Large Chapter Award

United Kingdom & Republic of Ireland Chapter

Thomas J. Hammons, *Chair, January-October*
Mark O'Malley, *Chair, October-December*

The **UKRI** Chapter sponsored 20 well-attended technical meetings in 2003. The meetings dealt with various subjects ranging from Economic Harmonics Measurement, Wind Energy Related Problems and Sustainable Power Systems in the 21st Century.

The UKRI Chapter also organized the following international conferences.

- Conference on Wind-Power in Ireland (Dublin, March 6 2003). This was a great success with about 130 attending.
- Eleventh International School on HV Engineering and Testing (Newcastle, July 13-18, 2003). Co-sponsored with British National Committee CIGRE and IEE. Very successful. Attendance 47.
- 38th International University Power Engineering Conference (UPEC 2003): September 1-3, 2003 (co-sponsors included IEEE PES Greece and UKRI Chapters; British National Committee CIGRE; IEE, and Centre for Renewable Energy Sources). 185 papers were presented.

The chapter organized several panel session dealing with current energy related issues. Also, the members of the chapter served as panelist for different meetings,

Each year the chapter sponsors the IEEE Power Engineering Society Chapter Student Prize Paper Award for students at the University of Bath. The papers deal with Power Engineering -related topics.

Each year more than 100 universities in the chapter are contacted concerning student recruitment by a member of the chapter. The student members in the chapter have increased by more than 16% over the past year (from 1070 to 1237). About 10 student branches have been or are being established.

The chapter received the PES High Performing Chapter Award. The chapter sponsored two IEEE Fellow nominations and received a PES Outstanding Chapter Engineer Award.

The crowning achievement to an outstanding year is, ultimately, winning the PES Outstanding Chapter Award. The Power Engineering Society very proudly salutes the United Kingdom and Republic of Ireland Chapter and its officers for their truly outstanding performance in the large chapter category

IEEE Fellows

Fellows elected in 2004 who are members of the IEEE Power Engineering Society

Shirabe Akita

Harbans L. Bajaj

Miroslav Miodrag Begovic

Antonio J. Conejo

John S. Engelhardt

Gary Roy Engmann

Djalma Mosqueira Falcao

Turan Gonen

Charles F. Henville

Kenji Iba

Masaru Ishii

Harold Kirkham

Xiao-Rong Li

Yilu Liu

Jerry D. Lloyd

James Dickey McCalley

Robert Mark Nelms

Edward La Verne Owen

Justin Schwartz

Dariush Shirmohammadi

Tarlochan Singh Sidhu

Daniel Ward

Jay Williams

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