2006 Frontiers in Education Conference

Awards Presentations

Sunday, October 29 ..................................................  FIE Awards Luncheon
11:30 a.m. – 12:45 p.m.

ASEE Educational Research and Methods Division
  Distinguished Service Award

IEEE Education Society
  Achievement Award
  Best Transactions Paper Award
  Chapter Achievement Award
  Distinguished Chapter Leadership Award
  Distinguished Member Award
  Edwin C. Jones, Jr. Meritorious Service Award
  Mac Van Valkenburg Early Career Teaching Award

IEEE Technical Field Award
  Undergraduate Teaching Award

Eta Kappa Nu
  Eminent Member

Monday, October 30 ..................................................  Plenary Session
8:00 a.m. – 9:30 a.m.

  FIE Benjamin J. Dasher Best Paper Award
  FIE Helen Plants Award
  FIE Ronald J. Schmitz Award

Monday, October 30 ..............................................  Terman/Rigas Awards Luncheon
11:30 a.m. – 1:00 p.m.

  ASEE ECE Division Hewlett-Packard Frederick Emmons Terman Award
  IEEE Education Society Hewlett-Packard/Harriet B. Rigas Award
Award Selection Committee Chairs

Frontiers in Education Conference
Benjamin J. Dasher Best Paper Award ............................................. Jenna Carpenter
Helen Plants Award ...................................................................... Donald Carpenter
Ronald J. Schmitz Award ............................................................ Robert J. Hofinger

ASEE Educational Research and Methods Division
Distinguished Service Award ...................................................... Larry G. Richards

ASEE Electrical and Computer Engineering Division
Hewlett-Packard Frederick Emmons Terman Award ....................... Ali H. Sayed

Eta Kappa Nu
Eminent Member ........................................................................ Donald Christiansen

IEEE Education Society
Achievement Award ...................................................................... Lyle D. Feisel
Best Transactions Paper Award .................................................. David A. Conner
Chapter Achievement Award ..................................................... Robert A. Reilly
Distinguished Chapter Leadership Award .................................... Robert A. Reilly
Distinguished Member Award ..................................................... Joseph L.A. Hughes
Edwin C. Jones, Jr. Meritorious Service Award ......................... Edwin C. Jones, Jr.
Hewlett-Packard/Harriet B. Rigas Award ..................................... Patricia D. Daniels
Mac Van Valkenburg Early Career Teaching Award ...................... Burks Oakley II

IEEE Teaching Awards
Undergraduate Teaching Award ............................................... J. David Irwin
Frontiers in Education Conference
Benjamin J. Dasher Best Paper Award

“In-class Active Learning and Frequent Assessment Reform of Nuclear Reactor Theory Course,” FIE 2005, Session F1C.

Gregory A. Moses received B.S., M.S., and Ph.D. degrees in Nuclear Engineering in 1972, 1974, and 1976, respectively, from the University of Michigan in Ann Arbor. He took a position as Assistant Professor of Nuclear Engineering at the University of Wisconsin-Madison in January 1976. He is currently Professor of Engineering Physics, teaching courses in nuclear engineering and computational science. He served as Associate Dean of Research for the College of Engineering for ten years, 1989-1999. Professor Moses’ technical research is in inertial confinement fusion and radiation hydrodynamics computer simulations in particular. He has trained over 20 Ph.D. students and postdocs, many of whom have taken positions in U.S. national security laboratories or universities. He has a special interest in the use of computer technology to enhance student learning and has split his time between fusion research and education research for the past ten years. He was elected a member of the University of Wisconsin-Madison Teaching Academy and is a consultant to Los Alamos National Laboratory.

Michael Litzkow graduated with a Bachelor of Science degree from the University of Wisconsin-Madison in 1983. Since then he has worked on numerous research projects in the Computer Sciences Department and the College of Engineering at the university. His interests include distributed systems, software to support teaching and learning, and accessibility related issues. Past projects include the CSNET Nameserver - a white pages service for the Internet (circa 1983), the Condor distributed batch system (late 1980’s), the Wisconsin Wind Tunnel - a parallel simulator for parallel supercomputers, and eTEACH - a web-based lecture presentation and authoring system.
Frontiers in Education Conference
Helen Plants Award

Presented by: Joseph L.A. Hughes

“Best Non-Traditional Session at FIE 2005:
Cognitive Legos: Helping Your Students Construct
Scientifically Accurate Mental Models.”

Ruth Streveler recently joined Purdue University’s new Department of Engineering Education after 12 years at the Colorado School of Mines, where she was the founding Director of the Center for Engineering Education. She is co–PI on several NSF–funded projects and is currently the Acting Director for the NSF–funded Center for the Advancement of Engineering Education, a multi–campus project investigating the educational experience of engineering students. She received her BA in Biology from Indiana University–Bloomington in 1975, an MS in Zoology from the Ohio State University, Columbus, in 1977, and the Ph.D. in Educational Psychology from the University of Hawaii at Manoa in 1993. Her primary research interests are investigating students’ understanding of difficult concepts in science and engineering, and training engineering faculty to conduct rigorous research in engineering education.

Ruth A. Streveler
Assistant Professor
Dept. of Engineering Education
Purdue University

Past Recipients

'80 Helen Plants
'81 Jim Russell and
    John C. Lindenlaub
'82 Karl A. Smith and
    Harold Goldstein
'83 E. Dendy Sloan and
    Charles F. Yokomoto
'84 David W. Johnson and
    Karl A. Smith
'85 Billy V. Koen
'86 Martha A. Nord and
    Patricia H. Whiting
'87 John C. Lindenlaub
'89 Karl A. Smith
'91 Troy E. Kostek
'92 Barbara M. Olds and
    Ronald L. Miller
'93 John C. Lindenlaub and
    Alisha A. Waller
'94 Billy V. Koen
'95 Burks Oakley II and
    Mark A. Yoder
'96 Alisha A. Waller, 
    Edward R. Doering, and
    Mark A. Yoder
'97 Karl A. Smith, 
    Elizabeth A. Eschenbach, and
    James D. Jones
'98 Alice Agogino
'99 Melinda Piket-May and Julie L. Chang
'03 William C. Oakes
'04 Susan M. Lord, Elizabeth A. Eschenbach, Alisha A. Waller, Eileen
    M. Cashman, and Monica J. Bruning
Jane Chu Prey
Program Manager
Microsoft Research
External Research & Programs

Past Recipients
'84 Carol Schmitz
'85 Lawrence P. Grayson
'86 John C. Lindenlaub
'87 George Burnett
'88 James R. Rowland
'89 Lyle D. Feisel
'90 Edwin C. Jones, Jr.
'92 Karl A. Smith
'92 Victor K. Schutz
'93 Bruce A. Einstein
'94 David V. Kerns, Jr.
'95 David R. Voltmer
'96 William E. Sayle II
'97 Richard S. Culver
'98 Dan Budny
'99 Robert J. Herrick
'00 Larry J. Shuman
'01 David L. Soldan
'02 Goranka Bjoedov
'03 Larry G. Richards
'04 James A. Roberts
'05 Robert J. Hofinger

Frontiers in Education Conference
Ronald J. Schmitz Award
Presented By: Robert J. Hofinger

“For outstanding service to the Frontiers in Education Conference.”

Jane Prey leads the Tablet Technologies in Higher Education Initiative and the Gender Equity and Pipeline Initiative for Microsoft Research, External Research and Programs. Before joining Microsoft in 2004, she was a faculty member in the Computer Science Department at the University of Virginia for 11 years. She also spent 2 years as a Program Manager at the National Science Foundation in the Division of Undergraduate Education. She is a member of the IEEE Computer Society Educational Activities Board and served on the board for the Association of Computing Machinery Special Interest Group on Computer Science Education (ACM SIGCSE). She currently serves on the Frontiers in Education Conference steering committee and is a member of the ACM Education Board.

Dr. Prey received her undergraduate degree at the University of Illinois, Urbana, and her Ph.D. at the University of Virginia.
Eric P. Soulsby
Assistant Vice Provost
University of Connecticut

Past Recipients
'95 Wallace S. Venable
'96 James E. Stice
'98 Billy V. Koen
Alisha A. Waller
'99 John C. Lindenlaub
'00 Richard S. Culver
'01 Charles F. Yokomoto
'02 Karl A. Smith
'03 Michael J. Pavelich
'04 Larry G. Richards
'05 Daniel D. Budny

ASEE ERM Division
Distinguished Service Award
Presented by: Larry G. Richards

“For contributions to the education of future engineers and their educators, through outstanding service to the ASEE Educational Research and Methods Division.”

Eric P. Soulsby completed the B.S. in electrical engineering and M.S. and Ph.D. degrees in control and communication systems, with a specialization in man-machine systems, at the University of Connecticut. In 1985, he joined the faculty of the Electrical Engineering and Computer Science department full-time as the Assistant Department Head and Lecturer of Electrical Engineering. In 1986, he became the Associate Department Head of the Electrical and Systems Engineering department. Subsequently, in 1988 he was appointed Associate Dean for Undergraduate Programs in the School of Engineering in which he managed the undergraduate engineering programs – including curriculum oversight and ABET and CSAB accreditation. During his decade of service as Associate Dean, he managed the academic affairs pertaining to undergraduate students in engineering, developed a state-wide transfer curriculum with the twelve community-technical colleges in the state, led effective teaching workshops, initiated a freshman year orientation course aimed at improving retention of engineering students, and taught courses in electrical and computer engineering. In 1999, Dr. Soulsby was appointed to a position of Special Assistant to the Vice Provost for Undergraduate Education and Instruction in which he did planning/data analysis for enrollment management and led the academic advisement implementation of the PeopleSoft student administration system. In 2006, he was appointed Assistant Vice Provost overseeing assessment of student learning outcomes for all programs at the university, while continuing to serve on the faculty of the Electrical and Computer Engineering department.

Dr. Soulsby has served as the Chair and Secretary/Treasurer of the ASEE Educational Research and Methods Division and as the Program Chair and President of the ASEE Freshman Programs Division. He has also served as secretary/treasurer of the Northeast section of ASEE. He is a member of the IEEE Education Society and the IEEE Computer Society. His interests are in the areas of engineering education, student learning outcomes assessment, teaching and learning methods, human decision making, student success, numerical computing, and systems analysis.
ASEE ECE Division
Hewlett-Packard Frederick Emmons Terman Award

"For an outstanding young electrical engineering educator in recognition of his contribution to the profession"

Vijay K. Madisetti obtained his B.Tech (Honors) from the Indian Institute of Technology (IIT), Kharagpur, in 1984, and the Ph.D. in Electrical Engineering and Computer Sciences from the University of California, Berkeley, in 1989. He was awarded a General Proficiency Prize at IIT Kharagpur in 1983, and the Demetri Angelakos Outstanding Graduate Student Award at UC Berkeley in 1989.

Dr. Madisetti joined Georgia Tech in 1989, where he currently is a professor in the School of Electrical and Computer Engineering. He actively teaches, conducts research, and supervises students in the areas of digital signal processing, computer engineering, systems engineering, and services sciences. He has authored or edited several books, including *VLSI Digital Signal Processors* (Butterworth-Heinemann/IEEE Press, 1995), *The Digital Signal Processing Handbook* (CRC Press/IEEE Press, 1998), and *Platform-Centric Approach to System-on-Chip Design* (Springer, 2006). He has supervised the dissertations of 21 Ph.D. students at Georgia Tech.

Dr. Madisetti received the 1997 VHDL International Outstanding Ph.D. Advisor Award and the 2001 Georgia Tech Outstanding Doctoral Advisor Award.

Past Recipients
'69 Michael Athans
'70 Andrew P. Sage
'71 Joseph W. Goodman
'72 Taylor L. Booth
'73 Sanjit Mitra
'74 Leon Ong Chua
'75 Michael L. Dertouzos
'76 Stephen W. Director
'77 J. Leon Shohet
'78 Ronald A. Rohrer
'79 Martha E. Sloan
'80 V. Thomas Rhyne
'81 Ben Garland Streetman
'82 Toby Berger
'83 Daniel P. Siewiorek
'84 Mathukumalli Vidyasagar
'85 Peter S. Maybeck
'86 Lance A. Glasser
'87 Kenneth L. Short
'88 Adel S. Sedra
'89 Frank L. Lewis
'90 Jerry D. Gibson
'91 Barry W. Johnson
'92 H. Vincent Poor
'93 Mark S. Lundstrom
'94 Supriyo Datta
'95 Perinkolam P. Vaidyanathan
'96 Prithviraj Banerjee
'97 Edward A. Lee
'98 Edwin K. P. Chong
'99 Randy H. Katz
'00 Sergio Verdu
'01 Zoya Popovic
'02 Theodore S. Rappaport
'03 Wayne Wolf
'04 Keshab K. Parhi
'05 Ali H. Sayed
ASEE ECE Division Hewlett-Packard
Frederick Emmons Terman Award (continued)

About the Terman Award

The Frederick Emmons Terman Award is presented annually to an outstanding young electrical engineering educator by the Electrical and Computer Engineering Division of the American Society for Engineering Education. The Terman Award, established in 1969 by the Hewlett-Packard Company, consists of five thousand dollars, an engraved gold plated medal, a bronze replica of the medal mounted on a walnut plaque, and a parchment certificate.

The recipient must be an electrical engineering educator who is less than forty-five years old on June 1 of the year in which the award is presented and must be the principal author of an electrical engineering textbook published before June 1 of the year of his/her 40th birthday. The book must have been judged by his/her peers to be an outstanding original contribution to the field of electrical engineering. The recipient must also have displayed outstanding achievements in teaching, research, guidance of students, and other related activities.

About Frederick Emmons Terman

Frederick Emmons Terman received his AB degree in chemistry in 1920, the degree of Engineer in electrical engineering in 1922 from Stanford University, and his ScD degree in electrical engineering in 1924 from Massachusetts Institute of Technology. From 1925 to 1965 he served as instructor, then professor of electrical engineering, executive head of electrical engineering department, dean of the school of engineering, provost, vice-president, and, finally, as acting president of Stanford University.

Among the many honors bestowed upon him were: the IEEE Medal of Honor; the first IEEE Education Medal; the ASEE’s Lamme Medal; the 1970 Herbert Hoover Medal for Distinguished Service to Stanford University; an honorary doctor’s degree by Harvard, a decoration by the British government and the Presidential Medal for merit as a result of his war work; and the 1976 National Medal of Science from President Ford at a White House ceremony.

Dr. Terman was a professor at Stanford University when William Hewlett and Dave Packard were engineering students there. It was under Dr. Terman’s guidance in graduate work on radio engineering that Mr. Hewlett built the first tunable and automatically stabilized Weinbridge oscillator. Partially through Dr. Terman’s urging, Hewlett and Packard set up their partnership in an old garage with $538 and the oscillator as their principal assets.

Dr. Terman died in December 1982. It is in appreciation of his accomplishments and guidance that Hewlett-Packard is proud to sponsor the Frederick Emmons Terman Award.
Eta Kappa Nu
Eminent Member

Presented by: J. David Irwin

Abe M. Zarem received the Distinguished Alumni Award from Caltech, where he earned his Doctor of Science degree, and was elected to the Hall of Fame at Illinois Institute of Technology, where he obtained his B.S. in electrical engineering. He has been engaged in an extraordinarily broad spectrum of academic, civic, industrial, governmental, and professional management activities covering many fields of endeavor and for which he has received many honors.

His achievements include developing the “Zarem camera,” a high-speed camera with no moving parts, designated by the U.S. Navy as the world’s fastest, and stemming from his participation in the Manhattan District Project; and serving as special advisor to the vice president of the United States due to his efforts concerning the application of scientific research to improving how people live, work, and play. A model of the “world’s first practical ion engine,” which Zarem’s company, Electro-Optical Systems, designed, now resides in the Smithsonian Institution in Washington, D.C.

In 1963, Dr. Zarem served as senior vice president of Xerox and left in 1970 to initiate a private, technical, and management consultancy. This became the underpinning of Dr. Zarem’s later contributions on management training and consulting with special attention to the understanding and development of strategic thinking and executive leadership. He returned to Xerox in 1975 as founder and CEO of Xerox Development Corporation (XDC). Created at his suggestion for pursuing innovative means of identifying and capturing unusual business opportunities related to “inventing the future,” XDC achieved extraordinary success in a few short years.

He is a member of Tau Beta Pi and Eta Kappa Nu (Delta), and won HKN’s Outstanding Young Electrical Engineer Award in 1948. In the past two decades, he has continued his very active role as a strategic business development advisor in the broad fields of information technology and telecommunications, embracing interactive distance learning, telemedicine, education, and entertainment, fulfilling his life-long goal and objective “to identify talent and to challenge it to greater achievements.”

About Eminent Member Recognition

Eta Kappa Nu established the Eminent Member recognition in 1950 as the society’s highest membership classification. It is to be conferred upon those select few whose technical attainment and contributions to society through leadership in the fields of electrical and computer engineering have resulted in significant benefits to humankind. Since 1950, only 113 individuals have been selected to receive this honor.
IEEE Education Society
Achievement Award

Presented by: Daniel M. Litynski

“If sustained positive contributions to engineering education.”

George Peterson is the Executive Director of ABET, Inc. He has served as head of Faculty and Teacher Development in the Division of Undergraduate Education and as Program Director in the Undergraduate Science, Engineering and Mathematics Education Division at the National Science Foundation (NSF) in Washington, DC; as Chairman of the Department of Electrical Engineering at the U.S. Naval Academy in Annapolis, Maryland; and as Assistant Vice President for Academic Affairs and Professor of Electrical Engineering at Morgan State University in Baltimore, Maryland. He has held numerous volunteer positions: Electrical Engineering Program Evaluator; IEEE Education Activities Board’s Committee on Engineering Accreditation Activities; Engineering Accreditation Commission (EAC); EAC Criteria Committee; EAC Executive Committee; and 1991-1992 EAC Chair. He currently chairs the Council for Higher Education Accreditation (CHEA) Specialized Advisory Panel and serves on its Committee on Recognition and International Commission.

His awards include the 1990 IEEE Meritorious Achievement Award in accreditation activities; 1999 Black Engineering of the Year Award for the Promotion of Higher Education; and the University of Illinois Electrical and Computer Engineering Alumni Association 2000 Distinguished Alumnus Award. He received the honorary degree of Doctor of Humanities from the North Carolina Agricultural and Technical State University in May 2001. He is a Fellow of the Institute of Electrical and Electronics Engineers (IEEE), a Fellow of ABET, a Fellow of the Institution of Engineers of Ireland, and a Fellow of the Institution of Electrical Engineers (IEE) of the United Kingdom. He is a registered Professional Engineer in the states of Colorado and Maryland.
IEEE Education Society
Best Transactions Paper Award
Presented by: Daniel M. Litynski


Euan Lindsay completed a Ph.D. in the field of Engineering Education at the University of Melbourne, Australia, in 2005. In 2004 he moved to Curtin University of Technology, Perth, Australia, where he lectures in Mechatronic Engineering. His research interests include engineering education, telecontrol (particularly internet-based telecontrol), artificial neural networks, and rehabilitative technologies for people with sensing impairments. He is a member of the Executive of the Australasian Association for Engineering Education, and co-edits the Australasian Journal of Engineering Education. In 2005 Dr. Lindsay was named as one of the 30 Most Inspirational Young Engineers in Australia.

Malcolm C. Good received the Ph.D. degree in mechanical engineering from the University of Melbourne in 1975. He is currently Professor of Mechanical and Manufacturing Engineering in that university, and was Head of Department from 1992-1996. Prior to his current appointment (1989), Professor Good was Program Leader for Integrated Manufacture in the CSIRO Division of Manufacturing Technology. He has held visiting appointments at ISVR (Southampton), HSRI (Michigan), General Electric CRD (Schenectady), and Cambridge University. He has been President of the Australian Robot Association, Australian Contact Person for the International Advanced Robotics Program, Interim Director of the Advanced Engineering Centre for Manufacturing, and is currently a program leader and board member of the Research Centre for Advanced By-Wire Technologies. Professor Good’s research has been in the fields of fluid mechanics, vehicle and machine dynamics, highway geometrics, human factors of automobile and motorcycle control, vehicular impacts with roadside structures, dynamics and control of machine tools and industrial robots and, most recently, automotive drive-by-wire technologies.

Euan Lindsay
Dept. of Mechanical Engineering
Curtin University of Technology
Australia

Malcolm C. Good
Professor, Mechanical and Manufacturing Engineering
University of Melbourne
Australia

Past Recipients
'99 J.A. Buck, H. Owen, J.P. Uyemura, C.M. Verber, and D.J. Blumenthal
'00 David J. Russomanno and Ronald D. Bonnell
'01 Christopher W. Trueman

'02 Mohan Krishman and Mark J. Paulik
'03 Tyson S. Hall, James O. Hamblen, and Kimberly E. Newman
'04 M. Brian Blake
'04 Russell L. Pimmel
'05 Antonio J. Lopez-Martin
The Nordic Chapter of the IEEE Education Society was founded in 2002 on the initiative of Trond Clausen from the IEEE Norway Section. The goal was to build a common base for exchange of ideas about engineering education in the Nordic countries of Denmark, Finland, Iceland, Norway, and Sweden. The chapter has organized a series of workshops, (held mainly in Uppsala, Sweden, but also in Denmark and Norway) based on various themes; e.g., “Internationalization,” “Teaching and Assessing,” “Cross-disciplinarity,” and the upcoming December 2006 workshop on “Perspectives on use of technology.” Board meetings have been valuable in establishing an understanding among the board members about similarities and differences in engineering education in the participating countries. One example of the resulting benefits is that the workshop in Denmark led to an exchange program between Uppsala University, Sweden and Olin College, Massachusetts, USA.

Mats Daniels is the current chair of the IEEE Nordic Education Society Chapter and holds a senior lecturer position in the department of information technology at Uppsala University, Sweden, where he has taught courses since his enrollment as Ph.D. student in 1980 and earned a technical licentiate exam in 1985. He has been director of undergraduate studies at the department since 1991, after coming back from a sabbatical in Melbourne, Australia. Daniels has been active in establishing computing education as a research area at the department and has published mainly about international student collaboration. He has led development and research projects in computing education, e.g., the Runestone project (www.docs.uu.se/docs/runestone), and leads CeTUSS, the Swedish national center for pedagogical development in technology education (www.cetuss.se). He is a senior member of IEEE and is active within ACM SIGCSE as ITiCSE site coordinator, checking out future sites for their European conference in computer science education.

Trond Clausen received the B.S. degree in electrical engineering in 1973 from South Dakota School of Mines and Technology, Rapid City, and the M.S. degree in 1973 from The Norwegian Institute of Technology, Trondheim. From 1978 to 1989 he served as Rector at Telemark School of Engineering Technology, and, simultaneously, from 1979 to 1983, as Rector of a multidisciplinary vocational school. He is currently an Associate Professor at Telemark University College, Porsgrunn, Norway. His interests lie in research and development, and he is active in national
IEEE Education Society Chapter Achievement Award (continued)

organizational work and international cooperation. Prof. Clausen received the IEEE Education Society Meritorious Service Award in 2004. He served as an at-large member of the IEEE Education Society Administrative Committee from 1999 to 2001 and is currently serving a second term from 2005 to 2007. He is also a Vice-Chair of the Regional and Chapters Committee, and the Founder and Vice-Chair of the Education Society Nordic Chapter.

**Flemming K. Fink** received his M.Sc.E.E. from Aalborg University, Denmark, in 1978. Subsequently he was a researcher at Odense University, Denmark, and teacher at the Engineering College in Odense. Since 1986 he has been with Aalborg University doing research and teaching in speech recognition and digital signal processing. Fink was Director of Studies for the engineering programs in Electronics and information technology from 1993-2005 and initiated an internationalization of the curriculum in 1997. He established the Centre for Continuing Engineering Education - ELITE in 2001, offering continuing education in all fields of engineering and technology. Fink has published several papers on Problem Based Learning, University–Industry cooperation and Continuing Professional Development, and he developed the concept of Facilitated Work Based Learning. He is a Senior Member of IEEE, a member of the Administrative Council of SEFI, and member of the Council of IACEE.

**Jorma Kyyrā** received the M.Sc. and D.Sc. degrees from Helsinki University of Technology (TKK), Finland, in 1987 and 1995, respectively. In 1985 he joined the Power Electronics laboratory where he has worked in various teaching and research positions. In 1996 he became Associate Professor of Power Electronics and, in 1998, Professor of Power Electronics. His research interests include power converters for ac drives, dc-dc converters, modeling of converters, power factor correction and distributed power systems. He has published several scientific articles on these topics and also gives regularly courses at TKK on these topics. Dr. Kyyrā was Vice-Chairman of the IEEE Finland Section, 1995-2004, and founding board member of the IEEE Nordic Education Society Chapter. He is director of a research institute, Institute of Intelligent Power Electronics, at TKK and executive director of Research Foundation of TKK since 2003. He is also founding chairman of the new IEEE IAS/IES/PELS/PES Finland Chapter.

**Flemming K. Fink**
Professor  
Aalborg University  
Denmark

**Jorma Kyyrā**
Professor  
Helsinki University of Technology  
Finland
IEEE Education Society
Distinguished Chapter Leadership Award
Presented by: Daniel M. Litynski

“For exceptional contributions to the Society and the Austria chapter, and for outstanding leadership in the development of professional conferences throughout the world.”

Michael E. Auer received his Ing. degree (1971) and his Ph.D. degree (1975) with a thesis on “Design and Analysis of ECL Circuits” from the Dresden University of Technology. From 1974-91 he was an assistant professor of Electrical Engineering and Informatics at this university. From 1991-95 he was with F+O Electronic Systems GmbH, Heidelberg as head of the software department. His research was related to high-speed digital circuits (ECL), real time and network programming, embedded control systems, programming in C, C++, PERL, system and network administration of heterogeneous networks, telelearning/teleteaching, and remote working environments.

In 1995 Dr. Auer was appointed Professor of Electrical Engineering at Carinthia Tech Institute, Villach, Austria. He also works as a visiting professor at the universities of Amman (Jordan), Brasov (Romania), and Patras (Greece). He is member of IEEE, ACM, VDE, and IGIP; author or co-author of more than 120 publications; and a leading member of numerous national and international organizations in the field of e-learning. Since 2005 he is chair of the IEEE Education Society Austrian Chapter.

Dr. Auer is founder and chair of the annual International Conference “Interactive Computer aided Learning” (www.icl-conference.org) in Villach, Austria; chair of the steering committee of the annual International Conference “Remote Engineering and Virtual Instrumentation” (www.online-lab.net/rev); and chair or member of the Program Committees of several international conferences and workshops. He has experience leading several national and international projects in the fields of remote engineering and technology supported learning. He is editor-in-chief of the International Journal of Online Engineering, the International Journal of Emerging Technologies in Learning, and acts as associated editor for Middle and Eastern Europe of the European Journal of Open and Distance Learning.

In June 2006 Dr. Auer was elected as President and CEO of the International Association of Online Engineering. He was included in the 2006 & 2007 editions of Who’s Who in Science and Engineering.
Manuel Castro, Electrical and Computer Engineering educator in the Spanish University for Distance Education (UNED), has an Industrial Engineering degree from the ETSII (Industrial Engineering School) of the Madrid Polytechnic University (UPM) and a Doctoral Engineering degree from the same university. He received the Extraordinary Doctoral Award in the UPM and the Viesgo 1988 Award for the doctoral thesis improving Scientific Research about the Industrial Process Electricity Application.

He received the 1997 and 1999 UNED Social Council awards for the Best Didactic Materials in Experimental Sciences. He works as researcher, coordinator, and director in different projects, ranging from solar system and advanced microprocessor system simulation to telematics and distance learning systems, acting now as Senior Technical Coordinator. He is now with the UNED (Spanish University for Distance Education) as Professor in the Electronics Technology subject inside the Electrical and Computer Engineering Department, as well as Head of the Department. He served as UNED’s New Technologies Vice-rector, UNED’s Information Services Center Director, and Research Vice-director and Academic Affairs Vice-director of the Engineering School.

Dr. Castro worked five years for Digital Equipment Corporation as Senior System Engineer. He has published technical books and articles for journals and conferences, as well as multimedia materials. He belongs to organizing committees of FIE (International Chair), ISES, TAEES, and SAAEI conferences, as well as reviewer and chairman. He is Senior Member of IEEE, a member of the Administrative Committee of the IEEE Education Society, and past-Chairman and founder of the Spanish Chapter of the IEEE Education Society. He is Vice-President of the Board Member of the Spanish ISES. His research interest focuses in systems application of simulation techniques, distance learning applications, and CAEE.
IEEE Education Society
Distinguished Member Award

Presented by: Daniel M. Litynski

“For outstanding service to the Education Society as a member of the Administrative Committee and as editor of IEEE Transactions on Education, for service to IEEE, for leadership in engineering education, and for technical contributions in electromagnetics and integrated optics.”

Ted E. Batchman is currently dean of the College of Engineering at the University of Nevada, Reno and is also Professor of Electrical Engineering. He received the B.S.E.E., M.S.E.E., and Ph.D. degrees from the University of Kansas in 1962, 1963 and 1966, respectively. He was previously Director of the School of Electrical Engineering at the University of Oklahoma from 1988–1995. He is a Life Fellow of the IEEE, a member of the Optical Society of America, a member of ASEE, and a member of SPIE. He has received the IEEE Millennium Medal and the Education Society’s Achievement Award and Meritorious Service Award.

Dr. Batchman’s record of service to engineering education includes being a member of the IEEE Education Society Administrative Committee, serving on the awards committee, being a representative to the FIE Steering Committee, a member of the Transactions on Education Publications Board and Finance Committee, and chairing the Ben Dasher Awards Committee for FIE. He was also the IEEE Education Society member of the 2000 FIE Program Committee and general chair of FIE 2001. He represented the IEEE Education Society at the International Conference on Engineering and Computer Education in Madrid, Spain in 2005.

He was active on the IEEE Educational Activities Board, having served as chair of the Pre-College Education Coordinating Committee, and was co-chair of the first national deans of engineering and education conference (Dean’s Summit I) in 2001. He is general chair of the ASEE Pacific Southwest Conference in April 2007.

Dr. Batchman was editor-in-chief of the IEEE Transaction on Education from 1997 to 2001, during which time several issue included the new multimedia CDs as part of Education Society’s move to bring the electronic publication format to the attention of educators.
IEEE Education Society
Distinguished Member Award

Presented by: Daniel M. Litynski

“For outstanding service to the Education Society as a member of the Administrative Committee and as editor of IEEE Transactions on Education, for service to IEEE and the profession, and for significant contributions to electrical and computer engineering education.”

David A. Conner received his bachelor and masters degrees in electrical engineering from Auburn University and his doctorate in electrical engineering from the Georgia Institute of Technology. His 45-year professional career has included full-time faculty positions at five universities and industrial employment with IBM’s Federal Systems Division. Dr. Conner is a licensed Professional Engineer in the states of Alabama, Georgia, Kentucky, and Tennessee.

Dr. Conner is an IEEE Life Fellow with service to IEEE including membership on the Board of Directors as a Delegate/Director and as Treasurer. In addition, he has served on the IEEE Executive Committee, the Educational Activities Board (EAB), the Regional Activities Board (RAB), and IEEE-USA Board. His Institute-level activities have included service on over 30 IEEE committees and task forces, many of which he chaired. During 2003, Dr. Conner served as an IEEE Congressional Fellow, providing technical and scientific advice within the US Congress. Within the IEEE Education Society, Dr. Conner has served on numerous committees and is currently serving as Editor-in-Chief of the IEEE Transactions on Education. Currently, he is also serving as a Director and the Treasurer of the IEEE Foundation.

In addition to being an IEEE Fellow, Dr. Conner has received numerous local, regional, national, and international awards. His IEEE awards include the Alabama Section Engineer of the Year Award (twice), the Region 3 Outstanding Engineer Award, the Region 3 Outstanding Educator Award, the Region 3 Outstanding Service Award, the EAB Meritorious Achievement Award in Major Educational Innovation, the RAB Outstanding Service Award, the IEEE Millennium Metal, the Benjamin J. Dasher Award, and the Education Society Meritorious Service Award.

Dr. Conner and his wife of 47+ years (the former Jerry Ann Macks) have four sons (all engineers) and eight grandchildren.
IEEE Education Society
Edwin C. Jones, Jr.
Meritorious Service Award
Presented by: Daniel M. Litynski

“For meritorious service to the Education Society through leadership and a global vision for the formation and enhancement of society Chapters, development of the Society’s website and online bulletin, and creation of the online Distinguished Lecturer Program.”

Robert A. Reilly received a Bachelor of Science degree from the University of Massachusetts at Amherst in 1974, a Master of Education degree from Springfield College, Massachusetts, in 1976, and a Doctoral of Education degree from the University of Massachusetts at Amherst in 1997. He served as a Post-Doctoral Research Associate at the University of Massachusetts. At the MIT Media Lab, he was a Visiting Scientist for 6 years, where he worked in his primary research area, which is the development of affect-sensitive cognitive machines.

Dr. Reilly holds several leadership positions in the Education Society. He is the Society’s Webmaster, having assumed this role in 2003 and rebuilt and reinvigorated the Society’s Web site. Also in 2003 he was appointed Chair of the Chapters Committee. Since then the Education Society has increased from 9 chapters to 57 very active chapters spanning more than 40 countries. He also has developed and deployed an organizational structure for the Chapters Committee. In November 2003, he initiated News & Notes, which is the Society’s news bulletin. He still holds all these offices and expects to further evolve them.

Additionally Dr. Reilly has served several times as Guest Editor of the IEEE Transactions on Education, and currently serves as an at-large member of the Society’s Administrative Committee.

Robert A. Reilly
Past Recipients
'78 Warren B. Boast
'79 Joseph M. Biedenbach
'80 Edwin C. Jones, Jr.
'81 Lyle D. Feisel
'82 Roy H. Mattson
'83 Robert F. Fontana
'84 Gerald R. Peterson
'85 Luke H. Noggle
'86 James A. Mulligan
Sidney S. Shamis
'87 Thomas K. Gaylord
'88 Robert F. Cotellessa
'89 E. Ben Peterson
'90 Darrell L. Vines
'91 Victor K. Schutz
'92 William K. LeBold
'93 Frank S. Barnes
'94 Patricia D. Daniels
'95 Robert W. Ritchie
'96 Marion O. Hagler
Donald E. Kirk
'97 Robert Sullivan
'98 Burks Oakley II
'99 Gerald L. Engel
'00 Ted E. Batchman
'01 William E. Sayle II
'02 James Rowland
'03 David A. Conner
'04 Trond Clausen
'05 J. David Irwin
Rodney J. Soukup
IEEE Education Society
Hewlett-Packard / Harriet B. Rigas Award

Presented by: Wayne C. Johnson

“Outstanding woman engineering educator in recognition of her contributions to the profession.”

Eve A. Riskin received her BS degree in electrical engineering from the Massachusetts Institute of Technology, Cambridge, in 1984, a Master's degree in EE from Stanford University, California, in 1985, a Master's degree in Operations Research from Stanford in 1986, and the Ph.D. degree in EE from Stanford in 1990. Since 1990, she has been in the Electrical Engineering Department at the University of Washington, where she is now Associate Dean of Academic Affairs in the UW College of Engineering. She is also Professor of Electrical Engineering and Director of the ADVANCE Center for Institutional Change.

With the UW ADVANCE program, Dr. Riskin works on mentoring and leadership development programs for women faculty in STEM (science, technology, engineering, and mathematics) fields. Her research interests include image compression and image processing, with a focus on developing video compression algorithms to allow for cell-phone transmission of American Sign Language. She was awarded a National Science Foundation Young Investigator Award in 1992, a Sloan Research Fellowship in 1994, and the 2006 Women in Engineering Programs and Advocates Network (WEPAN) University Change Agent Award.

Eve A. Riskin
Associate Dean of Academic Affairs,
College of Engineering
Professor of Electrical Engineering
University of Washington

Past Recipients
'95 Denice D. Denton
'96 Karan L. Watson
'97 Patricia D. Daniels
'98 Delores M. Etter
'99 Sherra E. Kerns
'00 Leah Jamieson
'01 Valerie Taylor
'02 Nan Marie Jokers
'03 Joanne Bechta Dugan
'04 Jennifer L. Welch
Lisa G. Huettel
Assistant Professor of the Practice
Electrical and Computer Engineering
Duke University

Past Recipients
'04 Parham Aarabi
'05 John R. Buck

IEEE Education Society
Mac Van Valkenburg
Early Career Teaching Award

Presented by: Daniel M. Litynski

“For outstanding contributions to electrical and computer engineering education, including curricular innovation, exemplary classroom teaching, and novel laboratory development.”

Lisa G. Huettel is an Assistant Professor of the Practice in the Department of Electrical and Computer Engineering at Duke University’s Pratt School of Engineering. She received an S.B. degree in Engineering Science from Harvard University in 1994, and subsequently received M.S. and Ph.D. degrees in Electrical Engineering from Duke University in 1996 and 1999, respectively.

Dr. Huettel conducts research in the area of signal processing with applications to remote sensing. She is also active in engineering education, specifically the development of undergraduate curricula and laboratories and the use of technology to facilitate active learning. Her innovations have included the use of iPods to facilitate the collection and analysis of biological signals, and the introduction of Tablet PCs to engage students and to bridge lectures and laboratories in Duke’s new introductory ECE course. Her novel uses of technology in engineering education have been featured on CBS News, Discovery Channel Canada, and MTV. She has received, in support of her educational research activities, grants from the National Science Foundation, Agilent, Hewlett Packard, Microsoft, Texas Instruments, and the Lord Foundation.

Her teaching has been recognized by her students and her peers who awarded her the 2004 Klein Family Distinguished Teaching Award in Duke’s Pratt School of Engineering. She has also been nominated multiple times for Duke’s university-wide Distinguished Undergraduate Teaching Award.
IEEE Undergraduate Teaching Award

Presented by: Leah Jamieson

“For a distinguished career of inspirational teaching and mentoring of undergraduate students in digital systems design.”

John B. Peatman, professor of electrical and computer engineering at the Georgia Institute of Technology, is acknowledged by his students and colleagues as a role model for undergraduate educators. His more than 40 years of stellar classroom teaching and six definitive textbooks on digital systems design are matched only by his concern for his students and their ongoing professional and personal welfare.

In 1969 Professor Peatman received the Georgia Tech Student Government Association’s Dean George C. Griffin Award, which honors faculty members “who have unselfishly promoted student activities.” That academic year, he created the electrical engineering senior seminar program, which brought noted speakers to address seniors about such diverse topics as graduate school choices in engineering, law, or business; the business roles of research and manufacturing engineers; job expectations; and personal issues. Each year, for the next three decades, he opened his home to seniors to choose the speakers for the one-hour course.

He received the Georgia Tech Outstanding Teacher Award in 1971 and was selected three times by the Electrical Engineering senior class for the Georgia Tech ECE Outstanding Teacher Award. As a result of his dedicated mentoring of students, he was on a first-name basis with the thousands of students who were in his classes. His extraordinary memory and a collection of note cards have enabled him to maintain contact with many graduates now working in business and academe. Dr. Peatman brought digital hardware design to Georgia Tech. He has authored six textbooks on digital systems and on design with microcontrollers. More than 150,000 copies of his books have been used at 160 universities. In 1989, he participated in a Motorola-sponsored program in which students developed a low-cost microcomputer emulator board, which was then commercialized.

An IEEE Life Fellow, Dr. Peatman is the recipient of the 1999 McGraw-Hill/Jacob Millman Award presented by the IEEE Education Society to an author in the field of electrical engineering. He holds a bachelor’s degree in electrical engineering from Swarthmore College in Pennsylvania and master’s and doctoral degrees from Case Western Reserve University in Cleveland, Ohio.