



IEEE Long Island Section

2006 Annual Awards Ceremony

MESSAGE FROM THE CHAIRMAN

IEEE Colleagues and Friends:

It is both an honor and a pleasure to welcome you to the 2006 IEEE Long Island Section Awards Banquet. The excellent turnout this evening reflects well on the vitality of our Section and the commitment that you share in honoring those that have achieved.

Recognition is a significant component of the IEEE agenda and our Awards Committee works hard throughout the year to solicit and select those that have made significant contributions to our profession and our professional society. Awards are given from both the Long Island Section and Region 1. We also celebrate those members who have recently been elevated to the rank of Fellow. Each year we have an outstanding slate of awardees and this year is no exception. I urge you during the course of the evening to review the credentials of our awardees, which are contained in this program. I would also like to thank Jesse Taub and his Awards Committee for their hard work throughout the year and to accept our congratulations for the excellent slate of awardees they have chosen.

This evening we also recognize the members of our Executive Committee who selflessly contribute to the betterment of our society. These volunteers are the essential ingredient for our success and we thank them and their patient spouses for taking the extra time to perform in this capacity. I would also like to recognize Bob Klein for graciously accepting our invitation to be the keynote speaker and Bill DeAgro for organizing this entire event. We have evolved a sort of initiation rite of passage into the leadership of the Executive Committee whereby the newly elected 2nd Vice Chair has the duty of organizing the Awards Banquet. Most Sections have committees to do this job but we put the entire responsibility in one person's hands. Bill has done a yeoman's job and we welcome him into the ranks of the Section leadership. Please take a moment to thank him for all his hard work.

I would also like to mention our upcoming Long Island Systems, Applications and Technology Conference (LISAT), which will take place on Friday, May 5 at Farmingdale University. Our volunteers have worked very hard to make this event a success. Information concerning LISAT 06 is contained in this program. I encourage you to share it with your colleagues and urge your attendance. This is a very important venue for the Section as we try to make it a premier technology conference on Long Island.

Finally, on behalf of the entire Long Island Section I would like to extend our hearty congratulations to all of the 2006 Award recipients. Your contributions to our profession are admirable and we are very proud to honor and celebrate your accomplishments this evening.

*David Wolff
2006 IEEE Long Island Section Chairperson*



IEEE Awards Ceremony Agenda

6:00 - 7:00 PM	Guest Arrival, Hors d'oeuvres	7:45 - 8:00 PM	IEEE Long Island Section Awards Jesse Taub, Awards Chairman
7:00 - 7:10 PM	Call to Order, Welcome David Wolff Chairman, IEEE, L.I. Section	8:00 - 9:00 PM	Dinner
7:10 - 7:30 PM	Keynote Address: Robert Klein Vice President of Engineering Airborne Early Warning and Electronic Warfare Systems, Integrated Systems, Northrop Grumman Corporation	9:00- 9:15 PM	IEEE Region 1 Awards Jesse Taub, Awards Chairman
7:30 - 7:45 PM	IEEE Long Island Section Volunteer Recognition David Wolff	9:15 - 9:25 PM	IEEE Fellow Award Jesse Taub, Awards Chairman
		9:25 - 9:30 PM	Closing Remarks David Wolff Chairman, IEEE, L.I. Section
		9:30 - 10:00 PM	Dessert and Coffee



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The Institute of Electrical and Electronics Engineers, Inc. Long Island Section

2006

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Lasers and Electro Optics:
Chair: Efrain Avila, Unwired Technology
Associate Chairman: Gregory Hovagim
Microwave Theory and Techniques: James Colotti, Telephonics Corporation
Nuclear and Plasma Sciences:
Chair: Ralph James, Brookhaven National Laboratories
Vice Chair: Arlene Zhang, Brookhaven National Laboratories
Power Engineering: Robert Bruce
Signal Processing: Jame Voulgarakis
Vehicular Technology: Arlene Zhang, Brookhaven National Laboratories

ACTIVITY LEADERS

Awards Nomination: Jesse Taub, Consultant
Educational Activities: Charles Richardson, retired, Sperry Gyroscope Co.
Employee Assistance: Bruce Willard, Telephonics Corporation
LI Consultant's Network: Irwin Weitman, Consultant
EJCLI: Charles Richardson, retired, Sperry Gyroscope Corporation
Historian: Roderic V. Lowman
IEEE USA: Robert Bruce, Consultant
Industry Liaison: Dave Mesecher, Northrop Grumman Corporation
LISAT: Charles Rubenstein, Pratt Institute
LIMSAT: Frederick Kruger, Kruger Associates Inc.
Membership Development: Ted Pappas, KeySpan Energy
Nominations: David Mesecher, Northrop Grumman Corporation
PACE: Irwin Weitman: Consultant
Professional-Society Liaison: Dave Mesecher, Northrop Grumman Corp.
Pulse Business Manager and Editor: Prenthis Aguilar, Northrop Grumman Corporation
Student Activities: Roman Khazanovich
Tellers Committee: John Peterson, Consultant
Webmaster: James Colotti, Telephonics Corporation

Student Affairs Coordinator

Roman Khazanovich, BAE Systems
Office (631)262-8387, rkhaza@ieee.org

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2005

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Brian Quinn (Vice Chair)
Computer: Daniel Rogers, Telephonics Corporation
Electromagnetic Compatibility: Santo Mazzola, BAE Systems (Chair)
David Sterner, Honeywell (Vice Chair)
Engineering in Medicine and Biology: Joel Levitt, Pratt Institute
Lasers and Electro Optics: Efrain Avila, Unwired Technology (Chair)
Gregory Hovagim, Student (Associate Chair)
Instrument and Measurement: Ken Jacobsen
Microwave Theory and Techniques: James Colotti, Telephonics Corporation
Nuclear and Plasma Sciences:
Chair: Ralph James, Brookhaven National Laboratories
Vice Chair: Arlene Zhang, Brookhaven National Laboratories
Power Engineering: Michael Miller, Con Edison
Signal Processing: James Voulgarakis
Vehicular Technology: Arlene W. Zhang, Brookhaven National Laboratories

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EX OFFICIO OFFICERS

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Area B Chair: Gerhard Franz
METSAC Chair: Ernest A. Heidelberg



Congratulates This Years Award Recipients!

Section Awards

Outstanding Young Engineer: David Hernandez
Charles Hirsch Award: Aleksey Bolotnikov
Alex Gruenwald Award: Daniel Rogers
Harold Wheeler Award: Richard J. Kumpfbeck
Athanasios Papoulis Award: Surge Luryi & Wendy Tang

Region 1 Awards

New Technical Concepts: Richard Krabak
Electrical Engineering Management: Charles Vozzo
Enhancement of IEEE in Industry: Peter Eckstein
Enhancement of IEEE in Industry: Charles Rubenstein

Newly Elected Fellows

Peter Djuric Thomas Robertazzi



Robert W. Klein
Vice President

Engineering, Logistics & Technology
Airborne Early Warning and
Electronic Warfare Systems
Northrop Grumman Corporation

Bob Klein is the Vice President of Vice President of Engineering, Logistics for AEW & EW Systems Business Area, IS Sector, Northrop Grumman Corporation. He is responsible for over 2000 engineers located in NY, Maryland, Florida & California supporting AEW, EW, aircraft product support & services, decision support & targeting, maritime systems integration, homeland security & advanced capabilities development integrated product teams. These include the Hawkeye 2000, Advanced Hawkeye, EA -6B, EA -18, F-14, A-10, C-2, Raindrop Precision Targeting & Littoral Combat Ship support. As EL&T VP he has increased the technical staff from 1250 to 2100 personnel; implemented new tools such as the Virtual Design Environment, Software Productivity Initiatives, Knowledge Management Portal, Future Support System Environment & CMMi certification; performed collaborative design work in NY for the F-35 Joint Strike Fighter, won the \$32M Structurally Integrated Prognostics System CRAD & organized the Technology Day & Emerging Tech Expo with Senator Clinton & NYS companies.

He joined Grumman Corporation in 1974 under a Scholarship, where his first assignment was on the F-14 assembly line. In 1980 after completing his masters degree, he joined Grumman full time, designing the control system for the US Marine Corps Jeff B AALC hovercraft, designing & simulating advanced aircraft, and then responsibility for the highly unstable X-29 aircraft's primary flight control system, from design, integration through 400 successful flights. In 1985 he led the flying qualities group for a classified Special Project in Southern California. In 1988 he was selected by senior management to attend a two year Outstanding Performer Development Program, with rotations in manufacturing, materiel, business operations, logistics & business

development. He joined the F-14 Program & was appointed F-14 Engineering & Test Director in 1992, where he was a key part of the team that evolved the F-14 from an air-to-air to precision strike fighter, adding FLIR, GPS/IR weapons, multi-source integration, tactical imaging, digital flight control system & fatigue life extension. During that time the F-14 IPT was recognized with the Hammer Award from the Vice President for saving \$250 million dollars in fatigue enhancements, the Program Management Award from Secretary of Defense for adding Precision Strike capability, & the Top Integrated Product Team Award from Under Secretary of Defense for Acquisition for solving the Navy's number one safety-of-flight issue through a digital flight control system. In 1999 he was appointed Eng. Director for AEW & EW Systems Business Area & in 2000 appointed Vice President for Engineering, Logistics and Technology.

He attended college on five scholarships, graduating from Princeton University with a Bachelor of Science Degree in Aerospace Engineering & from the Massachusetts Institute of Technology with a Masters of Science in Aeronautics & Astronautics, both with high honors.

He serves on a number of professional organizations including Chairman of the Technical Operations Council of the Aerospace Industries Association, Vice Chairman of the Long Island Forum for Technology, Executive Vice President of the Long Island Museum of Science & Technology, Long Island Technology Hall of Fame Committee; & Advisory Committees for Polytechnic University, SUNY Stony Brook, Stevens Institute of Technology and the Massachusetts Institute of Technology.

He resides in Lloyd Harbor with his wife Claire & their sons, Robert and Thomas.

Long Island Section Awards



Outstanding Young Engineer

Mr. David Hernandez

“For important contributions to homeland security communications”

David Hernandez began his engineering career at Polytechnic University, simultaneously earning a B.S. in Computer Engineering & an M.S. in EE. His graduate work led him to prototype work with OFDM communications - the basis for the IEEE 802.11a/g wireless stds. Dave also received his doctorate in EE focusing on signal processing & communications which was funded by the Soros Foundation and the National Science Foundation. Dave also cultivated a respectable tenure as an adjunct Professor at Polytech.

David views engineering from a variety of perspectives. As a process engineer at Photocircuits Corp. he gained valuable insight into how design decisions affect product life cycles. At Telephonics Corp., he worked on integration of a military hovercraft, giving him exposure to increasingly complex designs. At Symbol Technologies Inc., he was expected to make business decisions & was responsible for prototype demonstrations. His work in homeland security began representing Symbol in a group working to improve FDNY equipment after Sept. 11th.

Joining Northrop Grumman’s Bethpage campus, David served as integration lead for Nassau County’s component of the Homeland Security Exercise & Evaluation Program. He led a team responsible for design, development, testing, & one-time field deployment of a survivable situational awareness & response system for first responders. The system integrated technologies from ten Long Island companies.

This past year, David was promoted to serve as the head of Space Sciences & Operations for Northrop Grumman, in Bethpage. His team is working on the design of the next lunar module, as well as developing a research agenda addressing lunar settlement as part of NASA’s Project Constellation.



Charles Hirsch Award

Aleksey Bolotnikov

“For innovative development of highly efficient room temperature radiation detectors for Homeland Security and many other applications”

Aleksey Bolotnikov is an associate physicist at the U.S. Department of Energy’s Brookhaven National Laboratory. For the last 20 years, he has been engaged in development of nuclear radiation detectors. In particular, he was advancing the state of the art in the design and implementation of cadmium-zinc-telluride detectors—the small, easily portable, x-rays and gamma rays with high resolution to identify the specific source of radiation.

Bolotnikov was co-winner of the 2005 R&D 100 Award, given by R&D Magazine annually for the top 100 technological achievements of the year, for developing a cadmium-zinc-telluride detector. In addition to homeland security applications, the detectors developed by Bolotnikov and his colleagues can be used for nuclear medical imaging, environmental monitoring and cleanup, galactic events studies, and nuclear weapons safeguards.

Bolotnikov earned an M.A. and Ph.D., both in physics, from the Moscow Engineering and Physics Institute in 1983 and 1991, respectively. After working as postdoctoral research scientist at Columbia University from 1991 to 1994, he became a Nuclear Regulatory Commission research associate at NASA’s Marshall Space Flight Center from 1994 to 1997. He joined California Institute of Technology as a senior research scientist in 1997, and he left to become an associate physicist at Brookhaven Lab in 2003. Bolotnikov holds three Patents, has authored and co-authored numerous papers and is also a member of the American Physical Society.

Athanasios Papoulis Award

Professor Serge Luryi

“For pioneering contributions to include entrepreneurial skills in engineering education on Long Island”



Serge Luryi is a Distinguished Professor at Stony Brook University and the Chairman of Stony Brook's Electrical and Computer Engineering Department. He is also the Founding Director of the New York State Center for Advanced Sensor Technology.

Dr Luryi has published over 200 scientific papers and holds 42 US patents. He received his PhD degree in theoretical physics in 1978 from the University of Toronto, Canada, with his doctoral thesis devoted to quantum mechanics of intermolecular interactions in solid hydrogen. In 1980 Dr Luryi joined Bell Laboratories at Murray Hill, NJ, where he became interested in the physics

and technology of semiconductor devices. During 1986-1990 he served as the Editor of IEEE Transactions on Electron Devices. In 1990 his research contributions were recognized at Bell Laboratories by a Distinguished Member of the Technical Staff award. Dr Luryi remained at Bell Labs until 1994 when he joined the Stony Brook faculty.

Dr Luryi was elected Fellow of the IEEE *“for contributions in the field of heterojunction devices”* in 1989. He was elected Fellow of the American Physical Society in 1993 *“for contributions to the theory of electron transport in low-dimensional systems and invention of novel electron devices.”* Dr Luryi has consistently championed including entrepreneurship as integral part of academic life in the engineering profession and believes universities should introduce future engineers to such "non-academic" subjects as patents and start-up formation. Recently, the LI Section of IEEE awarded Dr Luryi (together with Dr Wendy Tang below) its 2006 Athanasios Papoulis Education Award *“for pioneering contributions to include entrepreneurial skills in engineering education on Long Island.”*

And

Professor K. Wendy Tang

“For pioneering contributions to include entrepreneurial skills in engineering education on Long Island”



Wendy Tang is an Associate Professor at the Department of Electrical and Computer Engineering, Stony Brook University. She received her B.S., M.S. and Ph. D in Electrical Engineering from the University of Rochester in 1986, 1988 and 1991 respectively. Her current research interests are in Wireless Sensor Networks, Communication Networks and Graph Theory Applications. Her research effort is supported by the National Science Foundation. She and her colleagues are the recipients of two best paper awards in 1997 and 1998. She is also an accomplished educator who has dedicated considerable efforts in promoting entrepreneurship in engineering education and increasing women students in engineering. Her dedication in promoting women in engineering was recognized by an IEEE Region 1 Award in 1998, an IEEE Regional

Activity Board Achievement Award also in 1998 and an IEEE Third Millennium Medal Award in 2000. In 2004, together with Dr. Serge Luryi, Dr. Tang initiated a project that promotes engineering entrepreneurship in four institutions of higher education across Long Island. For their pioneering contributions, the IEEE Long Island Section awarded Dr. Luryi and Dr. Tang, the Athanasios Papoulis Education Award in 2006.

SPECIAL THANKS TO OUR AWARDS NOMINATION COMMITTEE

Jesse Taub, Chairman

**Dr. Ralph James
Alfred Lopez
Rod Lowman**

**Dr. Velio Marsocci
Richard Mohr
Arlene Zhang**



Harold Wheeler Award

Richard J. Kumpfbeck

“For technical leadership in the design, development and production of low RCS aircraft antennas”

As the Manager of Antenna Technology at BAE Systems CNIR, Mr. Kumpfbeck provides technical direction based on over 35 years of microwave and antenna hardware design and fabrication experience. For the last 15 years, he has been engaged in advancing the state of the art in the design and implementation of low RCS antennas for air vehicles. He supervised the design and development of the F/A-18 fuselage-mounted array system. This antenna system included low-profile antenna elements and an electronically controlled beam-forming network, both designed to operate in a severe vibration environment. Mr. Kumpfbeck has also developed and patented key antenna concepts for a wideband wing antenna for the ATF-23 and supervised program to develop and deliver three prototype antennas.

During his years in the Wheeler Antenna Laboratory, he developed the concepts that led to the design and development of the SKYRADIO commercial SATCOM antenna system. Mr. Kumpfbeck also led the development, detailed design, fabrication, and testing of several Microwave Landing System (MLS) antennas and associated components. This includes foam-encapsulated microstrip power dividers, overlapping sub-array feed networks with integrated printed circuit dipole radiators, and monitor waveguide manifold implementation. Mr. Kumpfbeck has his MS Electrical Engineering, Polytechnic Institute of Brooklyn, 1971 and his BS Electrical Engineering, Manhattan College, 1966 and has 13 patents and one publication. He also is a previous IEEE Long Island Section Charles Hirsch Memorial Award Holder and a member of G-AP and G-MTT.



Alex Gruenwald Award

Daniel Rogers

“For exemplary leadership contributing to the rising stature of the IEEE Long Island Section”

Daniel Rogers is the Junior Past Chairman of the IEEE Long Island Section and the Chairman of the Long Island Chapter of the IEEE Computer Society. Dan has worked as a software engineer and software engineering manager on real time embedded software for radars, radar jamming systems, and cell phones for over 20 years. Dan currently works at Telephonics in Farmingdale. At Telephonics, Dan is a software engineering manager and software technical lead, generally on radar projects. This has included helping in the design and development of the RDR-1700 and RDR-1700B maritime radars, which added new processors and capabilities including tracking to existing radars. Dan participated in the addition of a datalink to radar for the Predator

UAV platform. Currently, Dan is software manager on a project that will install a Radar on the Coast Guard's VTOL UAV (VUAV). This effort will include insertion of a datalink so display & control can be accomplished remotely from the radar. Dan worked at LayerOne Wireless Technology where he participated in the generation of MAC layer cell phone software that would handle 3G protocols. Dan started his career working for 18 years for AIL Systems in Deer Park, which is now EDO Systems. At AIL he worked on the B1-B bomber self protect radar jamming system (AN/ALQ-161), the EF-111A Raven Tactical Jamming System, the E-2 Hawkeye MCU Computer upgrade, the ABSR man-portable radar, and the B1-B Tail Warning Function radar. He was fortunate enough to be able to work on some of these projects from early design through Defensive System Integration Facility (DSIF) testing through flight test at such places as Edwards Air Force Base in Lancaster, California. Dan has a MS in Computer Science from Polytechnic University and a BA in English from SUNY Oswego.

Dan enjoys camping in his popup trailer with his wife Brigitte and two sons, Danny and Dylan. He has also taken to cycling and running recently.

***2006 IEEE Long Island Section
Awards Banquet Sponsorship
Honor Roll:***

BAE Systems

EDO Corporation

KeySpan Corporation

Northrop Grumman Corporation

State University of New York at Stony Brook

Telephonics Corporation

Region 1 Awards



Region 1 Award For New Technical Concepts in Electrical Engineering

Mr. Richard Krabak

“For innovations in developing complex digital and RF control systems”

Richard Krabak is a Staff Engineer and has worked at Telephonics Command Systems Division for 21 years. He has developed innovative complex digital and RF control systems for both military and commercial applications. These systems include Airborne RADAR Systems, Vessel Traffic Systems, and IFF Systems. His most recent accomplishment was conceptualizing the hardware architecture for the RDR1700B RADAR Signal Processor. This architecture transformed a traditional RADAR Signal Processor design into a lightweight, small, low cost, high performance RADAR Signal Processor. This innovative approach provides high performance maritime surveillance and imaging modes to unmanned and manned platforms unattainable with traditional approaches. In addition, Rich also functioned as the lead

hardware engineer for the RDR1700B RADAR Receiver/Transmitter, leading a team of digital and RF engineers. Rich also developed a COTS/custom based hardware architecture for the AN/APS-147 Multi-Mode RADAR Signal Data Processor. The AN/APS-147 is an advanced imaging RADAR used by the US Navy. This architecture focused on replacing a custom based design with a combination of COTS/custom firmware based hardware. Prior to architecture development, Rich functioned as a key hardware design engineer during development of the APS-147 Multi-Mode RADAR Receiver/Transmitter and Signal Data Processor. His designs incorporate extensive custom firmware and Digital Signal Processors.

Rich enjoys mentoring and learning from other engineers, and is a trained musician.



Region 1 Award For New Technical Concepts in Electrical Engineering

Mr. Charles Vozzo

“For exceptional technical and managerial leadership of Radar Programs”

Charles Vozzo is Director of Software Engineering at Telephonics Corporation, Command Systems Division, in Farmingdale. He is currently responsible for the Software Engineering department, as well as process improvement within the Division.

He started out as a software developer in 1982 with Eaton’s AIL Division, working on the B1-B program. He was subsequently transferred to the Command Systems Division to work on a Navy Very Low Frequency (VLF) receiver system. With the acquisition of that Division by Telephonics Corporation, he became part of the Telephonics family. Over the years, Charles worked his way through

the ranks to become a Software Manager, working mostly on digital receivers, and acquired extensive knowledge of real-time embedded systems, Digital Signal Processors (DSP), and their architectures.

In 1992, Charles was assigned to his first Radar program, the LAMPS Multi-Mode Radar, as Software Manager. Since then, he has served as Software Manager and Engineering Manager on several Maritime Surveillance Radar and IFF projects, including the APS-143, RDR, and NATO AWACS product lines. In 2005, he was given responsibility for process improvement within the Command Systems Division, and successfully led the effort to transition to the Capability Maturity Model Integrated (CMMI) and achieve a formal rating. He is still involved with many Radar development programs, including management, consultation, and proposal work.

Charles is a member of the Technical Advisory Board (TAB) of the Systems and Software Consortium (SSCI), a nonprofit initiative of nearly 100 U.S. companies, government agencies, and universities that provides training, intellectual property, and consulting services for engineering practices, project management, and process improvement. He has also been a member of the IEEE for many years, and has belonged to the Computer, Systems, and Engineering Management Societies.

Charles received his Bachelor’s degree in Computer Science and Applied Mathematics from the State University of New York at Albany in 1982. His Master’s Degree in Computer Science was earned at Polytechnic University in 1988.

Charles is married with two children. He is very active in the local volunteer Fire Department as a member of the Fire Council, the governing body of the Fire Department, and as an Emergency Medical Technician (EMT).



Region 1 Award For Enhancement of IEEE Industry and Community Service

Mr. Peter Eckstein

Peter A. Eckstein received the B.S. degree in Electrical Technology from the New York Institute of Technology in 1967. He received an M.S. in Applied Physics from Adelphi University in 1971 and an M.S. in Management Engineering in 1974. In 1967 he began his career as an engineer with Bell Aerosystems, Buffalo, New York. He was involved in the design of the sensor channel for a gravimeter, a device to measure changes in local gravitational acceleration in the micro-g range. He also developed the velocity sensor for the Minuteman Missile nosecone. In 1968 he was employed by Grumman Corporation, where he worked on the design, development and test of various state-of-the-art systems for the support of the electronic warfare system flown aboard the Navy's EA-6B aircraft. In 1979 he was promoted to his first management position as a Group Leader on the F-14 program. He left that program to head Grumman's Central Engineering effort for the development of Test Program Sets, (TPS), for the support of all Grumman built Navy aircraft (EA-6B, F-14, A6 and E2C). In 1983 he returned to the F-14 program as a Project Leader. In 1988 he was transferred to the Digital TPS Section as a Group Head, responsible for the TPS development process across all programs. He also had administrative responsibility for all engineers involved in those efforts. During this period he developed and subsequently taught a course in TPS engineering to newly hired engineers. In 1995 he was promoted to Principal Engineer on the E2C program, where he worked in business development. He was the chief technical writer and Technical Volume Manager for all E2C support equipment proposals written in response to government RFPs. When Grumman moved the TPS efforts to Chesapeake, Virginia in the mid 90s, he assumed that same role for all company TPS proposals. In addition, he was responsible for developing the support philosophy and costing strategy for those proposals. Eckstein was also the point of contact for all subcontractors on all technical matters. In addition to his other responsibilities, he also headed the Corporate Center Of Excellence for all support equipment, developing and/or refining the TPS development process and the metrics used to monitor that effort. Eckstein was also Grumman's representative to the National Defense Industrial Association, where he was a member the CASS TPS Committee on Government Acquisition Policy and Procedure. He also served as Grumman's technical representative for AUTOTESTCON and for the Society of Logistics Engineers, (SOLE). He left Grumman, by then Northrop Grumman, in 2000 to work for Raytheon Company as a Senior Principal Engineer. He was involved in the technical and cost account management of development efforts for exciters for radar systems for the Army and Navy. In 2003 he returned to Northrop Grumman where he is involved in the design and development of an advanced logistics environment for major Navy/Air Force weapon systems.



Region 1 Award For Enhancement of IEEE Industry and Community Service

Dr. Charles Rubenstein

Charles Rubenstein is a tenured professor at Pratt Institute's graduate School of Information and Library Science in Brooklyn, New York and a visiting professor of engineering at the Institute for Research and Technology Transfer at Farmingdale University (SUNY). He has an earned doctorate in bioengineering (Polytechnic Institute of New York) and the Master's in library and information science (Pratt Institute).

In over 25 years of service to IEEE, he has received many honors for his work in professional activities including the Robert S. Walleigh Distinguished Professionalism Award, IEEE-USA Citation of Honor, USAB Divisional Activities Award, IEEE Third Millennium Medal, and the Regional Activities Board Innovation Award.

Dr. Rubenstein, an internationally known Distinguished Lecturer for the Engineering Management Society and Computer Society Chapter Tutorial Programs, has delivered HTML and e-Commerce tutorials at conferences in the United States, Canada, Puerto Rico, and India, Section seminars based on IEEE 802.11 wireless technologies, Leadership Skills Workshops as well as S-PAC "Scalability of Membership" and "Tips for Attending Professional Conferences" presentations.

A senior member of the IEEE, Rubenstein has served on the IEEE-USA Board of Directors, the IEEE Publications Boards and the Technical Activities Board as well as the Region 1 Board and the IEEE Engineering Management Society (EMS) Board.

A frequent participant in LI Section ExCom meetings, he is currently IEEE-USA Liaison to the IEEE Conferences Committee; Vice President, Conferences for EMS; Region 1 Conference Coordinator; Chair of the Long Island Systems, Applications and Technology Conference (LISAT), and Member-at-large of the New York Section's Executive Committee.

Fellow Award



Professor Petar Djuric

“For contributions to Monte Carlo based methods to signal processing”

Petar M. Djuric received his B.S. and M.S. degrees in electrical engineering from the University of Belgrade, in 1981 and 1986, respectively, and his Ph.D. degree in electrical engineering from the University of Rhode Island (URI), in 1990. From 1981 to 1986 he was Research Associate with the Institute of Nuclear Sciences, Vinca, Belgrade. In 1986 he moved to Kingston, Rhode Island, where he was accepted in the Ph.D. Program of the Electrical Engineering Department at URI and where he started to work with Professor Steven Kay. While at the university, he was a recipient of two graduate student Fellowships. Since 1990 he has been with Stony Brook University, where he is now Professor in the Department of Electrical and Computer Engineering. He works in the area of statistical signal processing, and his primary interests are in the theory of modeling, detection, estimation, and time series analysis & its application to a wide variety of disciplines including wireless communications and biomedicine. Since 1990 he has been recipient of many research grants from the National Science Foundation and industry. Currently he has 10 Ph.D. students and has supervised 14 more. Recently he has received a Fellowship from the Spanish Ministry of Science and Education. He has also been awarded with three visiting Professorships by the Institut National Politechnique in Toulouse, France, and he is a Visiting Fellow of the University of Cambridge, England. He has frequently been invited to lecture at universities in the United States and overseas. Prof. Djuric publishes regularly in several professional journals, and he regularly attends various conferences, symposia, and workshops. He has published about 200 refereed papers. Prof. Djuric has served on numerous technical committees for the IEEE. He is the current Vice President-Finance of the IEEE Signal Processing Society. He was the Area Editor for Special Issues of the Signal Processing Magazine and Associate Editor of the IEEE Transactions on Signal Processing. He was also Chair of the IEEE Signal Processing Society Committee on Signal Processing - Theory and Methods. Prof. Djuric has served on the Editorial Board of several professional journals.

Fellow Award



Professor Thomas Robertazzi

“For contributions to parallel processor scheduling”

Thomas G. Robertazzi (S'75-M'77-SM'91-F06) received the Ph.D from Princeton University, Princeton, NJ, in 1981 and the B.E.E. from the Cooper Union, New York, NY in 1977.

Thomas G. Robertazzi is presently a Professor in the Department of Electrical and Computer Engineering at Stony Brook University, Stony Brook N.Y. In supervising a very active research area, he has published extensively in the areas of parallel processor and grid scheduling, ad hoc radio networks, telecommunications network planning, ATM switching, queuing and Petri networks. He has authored, co-authored or edited four books in the areas of performance evaluation, scheduling and network planning. He also edited for books for the IEEE Communications Society and was an associate editor of the journal *Wireless Networks* in the 1990's.

IEEE Long Island Salutes our Award Winners and All Our Sponsors



*The College of Engineering and Applied Sciences
and the
Department of Electrical and Computer Engineering
at Stony Brook University
Wish to extend their congratulations to our
IEEE awards recipients*

Petar Djuric, Fellow Award

Thomas Robertazzi, Fellow Award

Serge Luryi, Papoulis Award

Wendy Tang, Papoulis Award



IEEE facts

- The IEEE is a non-profit, technical professional association of more than 377,000 individual members in 150 countries.
- The IEEE produces 30 percent of the world's published literature in electrical engineering, computers and control technology.
- The IEEE annually holds more than 300 major conferences
- IEEE Vision: To advance global prosperity by fostering technological innovation, enabling members' careers and promoting community world-wide.
- IEEE Mission: The IEEE promotes the engineering process of creating, developing, integrating, sharing, and applying knowledge about electro and information technologies and sciences for the benefit of humanity and the profession.
- The IEEE and its predecessors, the AIEE (American Institute of Electrical Engineers) and the IRE (Institute of Radio Engineers), date to 1884.

BAE Systems Congratulates

Richard Kumpfbeck

on Receiving the Long Island Section

Harold Wheeler Award

and Salutes All of the

Long Island Section Awardees

BAE SYSTEMS

Innovating for a safer world.

EDO Corporation
would like to congratulate the 2006
IEEE Long Island Section
award recipients for their contributions:

Alesksey Bolotnikov

David Hernandez

Richard Kumpfbeck

Serge Luryi

Daniel Rogers

K. Wendy Tang

Peter Eckstein

Richard Krabak

Charles Rubenstein

Charles Vozzo

Petar Djuric

Thomas Robertazzi

*KeySpan Corporation and the
Electric Business Unit
Congratulate the Recipients
of the
2006 IEEE
Long Island Section Awards*



Northrop Grumman

Salutes



Peter Eckstein
David Hernandez

Members of our Airborne Early Warning, Electronic Warfare Systems and Space Sciences team in Bethpage and recipients of the Enhancement of IEEE in Industry and Community Service and Outstanding Young Engineer, respectively; and all of this year's IEEE award winners.

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**SPECIAL CONGRATULATIONS
TO OUR AWARDED EMPLOYEES**

**DANIEL ROGERS
RICHARD KRABAK
CHARLES VOZZO**

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About the IEEE LI Section Awards

Harold Wheeler Award

This Award recognizes an IEEE member who has demonstrated outstanding technical and management abilities. Harold Wheeler was a world-famous engineer, who throughout his career at Hazeltine and Wheeler Labs, made many important technical contributions. He was a founding member of the IEEE Long Island Section.

Alex Gruenwald Award

This Award honors an IEEE member who has made important contributions to our profession on Long Island, and to the IEEE at large. Alex Gruenwald was an IEEE pioneer in the area of professional activities. He was a very active member of the Long Island Section, and went on to be a Region 1 Director.

Charles Hirsch Award

This Award recognizes an IEEE member who has made an outstanding technical contribution that has benefited Long Island. Charles Hirsch was a creative engineer at Hazeltine.

Outstanding Young Engineer

This Award honors a Long Island IEEE member who has made important technical contributions prior to his or her 35th birthday.

Athanasios Papoulis Award

This award is presented to educators in engineering, science, or mathematics, either living or teaching within the boundaries of the Long Island Section of the IEEE, who has demonstrated innovative teaching techniques.

Athanasios Papoulis was a professor at Polytechnic University who was committed to promoting quality technical education on Long Island.

Outstanding Student Branch Award

This award is given to an IEEE student branch that is from one of the Long Island engineering schools. The Award recognizes outstanding activities that encourage student interest in the IEEE.

About the IEEE Region 1 Awards

New Technical Concepts in Electrical Engineering

For significant patents, for discoveries of new devices or applications, and for significant reductions in components or processes.

Electrical Engineering Professionalism

For personal, high level leadership in research and design performance in support of all phases of the Electrical Engineering Profession.

Promotion of Self-Development for Practicing Electrical Engineers

By arranging courses, seminars, and tutorials to enhance the educational level and the competence of practicing electrical engineers.

Enhancement of IEEE in Industry and Community Service

For outstanding service to the IEEE at the Chapter, Section, Region, and national level, and for major contributions to the industry and to the community.

Electrical Engineering Management

For managerial excellence in organization, leadership, design, and development.

Electrical Engineering Support for Student Activities

For improving communications between the IEEE and a Student Branch or Student Group; for support and service to a Student Branch or Student Group; for service and leadership to the student community.

The William Terry Distinguished Lifetime Service Award

This award is intended to recognize those whose personal efforts have provided leadership, creativity, guidance, hard work, and inspiration in a wide range of IEEE activities over a long period of time.

About the IEEE Fellow Award

Since 1963, IEEE has acknowledged those individuals who have contributed to the advancement of engineering science and technology.

As it stands today, the IEEE Grade of Fellow is conferred by the Board of Directors upon a person with an extraordinary record of accomplishments in any of the IEEE fields of interest. A brief citation is issued to new Fellows describing their accomplishments and the total number selected in any one year does not exceed one-tenth percent of the total voting Institute membership.

For information on how to submit an IEEE member for an award, please contact Jesse Taub, the IEEE Long Island Section Awards Committee Chairman at jtaub@aol.com .



IEEE PREVIOUS MEMBER RECOGNITION

Long Island Section Historian, Rod Lowman, has compiled this list of past chairmen, living past awardees and fellows elected to the Section, and others attracted to the Section

WHEELER AWARD

2005 Peter MvVeigh
 2004 Arie Kaufman
 2003 Stanley Oken
 2002 Edward M. Newman
 2001 Gary R. Lomp
 2000 James Smith
 1999 Yacov Shamash
 1998 Paul Richman
 1997 Seymour Okwit
 1996 Henry Bachman
 1995 Jerome Swartz
 1994 William Rubin
 1993 Alfred Lopez
 1992 Leonard Kahn
 1991 Ivan Frisch
 1990 Peter Hannan
 1989 Patrick Barry
 1988 Frederic Salerno

GRUENWALD AWARD

2005 David Mesecher
 2004 Charles Rubenstein
 2003 William Rooney
 2002 Babak Beheshti
 2001 Thomas A. Campbell
 2000 Herman Fialkov
 1999 Eduardo f. Palacio
 1998 Peter Buitenkant
 1997 Eleanor Baum
 1996 Irwin Weitman
 1995 Stephen Barre
 1994 Joel Snyder
 1993 Robert Bruce
 1992 Robert Barden
 1991 Sheldon S.I. Chang
 1990 Donald Christiansen
 1989 Donald L. Schilling
 1988 Alexander Schure
 1987 John Truxal

HIRSCH AWARD

2005 Peter Vanier
 2004 Raj Bridgelall
 2003 Bruce Willins
 2002 Robert H. Pflieger
 2001 Javed Siddiqui
 2000 Gary Schay
 1999 Robert Pang
 1998 Joseph T. Merenda
 1997 Donal Neuf
 1996 Peter McVeigh
 1995 Christopher Kaiteris
 1994 Richard Kumpfbeck
 1993 Zdenek Adler
 1992 Mathew Dwork
 1991 Ronald Rudish
 1990 Sol Greenberg
 1989 George Sandler
 1988 Donald Grieco
 1987 Roderic Lowman
 1986 Stephen Shapiro
 1985 Joseph Calviello
 1984 Richaard Frazita
 1983 Prof. E. J. Smith
 1982 Evelyn Berezin
 1981 John Stangel
 1980 Prof. Enrico Levi
 1979 A.D. Alexandrovich
 1978 Richard LaRosa
 1977 Page Burr
 1976 Patricia Burgmyer

PAPOULIS AWARD

2005 Kenneth Short
 2004 Peter Voltz

SECTION IEEE FELLOWS

F. R. Arams
 E. Aslan
 H.L. Bachman
 M.Q. Barton
 E. Baum
 Dr. G. Belenky
 H.D. Belock
 A.J. Bernstein
 J.P. Blewett
 L.R. Bloom
 D.M. Bolle
 J.J. Bongiorno
 R.R. Boorstyn
 J.A. Calviello
 W.J. Caputi
 J.H. Chadwick
 C.T. Chen
 D. Christiansen
 J.V. DiFranco
 J.F. Dopazo
 A. Dorne
 C.C. Duncan
 E.B. Forsyth
 J.R. Fragola
 H. Frank
 R.L. Frank
 I.T. Frisch
 R.J. Gambino
 P. Hannan
 P.J. Hansel
 H. Harris
 S.W. Herwald
 A. Hessel
 S. H. Horowitz
 R.G.E. Hutter
 L.R. Kahn
 J. Katz
 A. Kaufman
 A. Kershenbaum
 H.W. Kraner
 S. Kuo
 J.B. Horner Kuper
 R. LaRosa
 V.R. Learned
 M.T. Lebenbaum *
 G.B. Litchford
 P.P. Lombardo
 A.R. Lopez
 M. Marcuvitz
 P.J. Meier
 G. Merrill
 W.W. Mieher
 R. Mohr
 H.C. Okean
 S. Okwit
 K.S. Packard
 W. Palmer
 B. Parzen
 S.T. Peng

OUTSTANDING YOUNG ELECTRICAL ENGINEER

2005 JustinM. Hahn
 2004 Jonathan Garruba
 2003 Michael Sussich
 2002 Ronald J. Bajit
 2001 Fatih M. Ozluturk
 2000 Scott Weiner
 1999 Raj Bridgelall
 1998 Wing C. Kwong
 1997 Paul Eyring
 1995 Kenneth Aupperle
 1994 Ynjun Wang
 1993 Cecelia Jankowski

J.S. Perry
 J. Pierro
 W.J. Pierson
 M. Plotkin
 V. Radeka
 S.S. Rappaport
 P. Rehak
 D. Richman
 P. Richman
 A.L. Rossoff
 L.M. Roytman
 W.L. Rubin
 E.W. Sard
 D.C. Schlerer
 L.S. Schwartz
 L. Schwartzman
 Y. Shamash
 L.G. Shaw
 S.M. Shimmers
 M.L. Shooman
 M. Simpson
 R.L. Sleven
 J.S. Smith
 E.A. Speakman
 N.A. Spencer
 G.W. Stagg
 G.W. Stroke
 J. Swartz
 T. Tamir
 J.J. Taub
 D.L. Trautman
 B.F. Tyson
 J. Vogelman
 C.C. Wang
 D.E. Weissman
 W. Weng
 J.J. Whelehan, Jr.
 G.S. Wickizer
 D.C. Youla
(Others in the Section)
 J.E. Boughtwood
 S.S.L. Chang
 L.B. Felson
 R. James
 H. Kaneko
 P.M. Lewis
 A.A. Lundstrum
 M.W. Migliaro
 A. Papoulis
 T. Pavlidis
 B. Salzberg *
 D.L. Schilling
 M. Schwartz
 R.W. Sonnenfeldt
 J.G. Truxal
 J. Weinberger
 A.H. Zemanian

IEEE-USA

Harvey Altstadter
 Robert Bruce
 Charles Rubenstein
 Lawrence Edelman
 Thomas Downey
 Barbara Kent
 Arthur Rossoff
 Joel Snyder
 Jesse Taub
 Irwin Weitman
 Victor Zourides

RAB AWARD

Joel Snyder
 K. Wendy Tang
 William Wilkes

REGION 1 AWARDS

Scott Abrams
 George Alikakos
 Harvey Altstadter
 Richard Augeri
 Henry Bachman
 Robert Barden
 Babak Beheshti
 Charles Berger
 John Beukers
 Stephan Jon Blank
 Nader Bolourchi
 Gary Cachules
 Thomas Campbell
 Frank Cassara
 Bernard Cheo
 Richard Clouse
 James Colotti
 Peter Djuric
 Melvyn Drossman
 Matthew Dwork
 George Eichman
 Paul M. Eyring
 Arthur Faverio
 Joseph Fragola
 Kenneth Frank
 Harvey Glass
 Michael Green
 Shahe Halajian
 Richard Hines
 Robert Hong
 Ivan Kadar
 Leonard Kahn
 Richard Knadle
 Richard Koch
 Raymond Lackey
 Richard LaRosa
 L.I.F.T.
 Alfred Lopez
 Roderic Lowman
 Peter Lubell
 Louis Luceri
 Edward Magill
 Velio Marsocci

Daniel Mazziata
 Andrew Mc Nerney
 Donald Neuf
 Donald Neuhaus
 James Onorato
 Eduardo Palacio
 J.B. Parekh
 John Persich
 Lazaros Pavlidis
 Bernard Payton
 John Pedersen
 John Pierro
 Walter Poggi
 Pavel Rebak
 Paul Richman
 Ronald M. Rudish
 Henry Ruston
 Melvin Sandler
 Frederick Schuessler
 Murray Simpson
 Graham Smith
 Joel Snyder
 Martin Somin
 Jerome Swartz
 Karl Sygall
 Jesse Taub
 K. Wendy Tang
 Frank Torre
 Hang-Shen Tuan
 Charles Verbeke
 Peter Voltz
 David Wang
 Fu-Lin Wang
 Scott Weiner
 Irwin Weitman
 Walt Whipple
 Bruce Willard
 Christopher Witt
 David Wolff
 Yuanyuan Yang
 Stanley Zoubek, Jr.
 Victor Zourides
 Mark Zuchowski

SECTION CHAIRS

2005 Daniel Rogers
 2004 Chris DiFranco
 2003 David Mesecher
 2002 William Rooney
 2001 Babak Beheshti
 2000 Babak Beheshti
 1999 Amnon Gilaad
 1998 Harvey Altstadter
 1997 Harvey Altstadter
 1996 Nader Bolourchi
 1995 Thomas A. Campbell
 1994 Eduardo F. Palacio
 1993 Eduardo F. Palacio
 1992 John Pierro
 1991 John Pierro
 1990 Melvyn M. Drossman
 1989 Klaus Breuer
 1988 Velio Marsocci
 1987 Steven Rebovich
 1986 Donald Grieco
 1985 Richard LaRosa
 1984 Arnold Goldman
 1983 Robert Barden
 1982 Louis Luceri
 1981 Donald Neuhaus
 1980 Alexander J. Kelly
 1979 David Doucette
 1978 Edward J. Fuller
 1977 Victor Zourides
 1976 Peter D. Lubell
 1975 Roderic V. Lowman
 1974 Thomas Schulkind
 1973 Frank H. Williams*
 1972 Joel Snyder
 1971 Joel Snyder
 1970 Arthur Rossoff
 1969 Saul W. Rosenthal*
 1968 Henry W. Redlien*
 1967 Irwin Vogel
 1966 Henry L. Bachman
 1965 Richard C. Price
 1964 Harold Brownman
 1963 Murray Simpson
 1962 William T. Cooke*
 1961 Joseph Kearney*
 1960 Henry Jasik*
 1959 J. Gregg Stephenson
 1958 R.K. Hellmann*
 1957 Eugene G. Fubini*
 1956 David Dettinger
 1955 Paul G. Hansel
 1954 Wm. F. Bailey*
 1953 Vincent Learned
 1952 Charles J. Hirsch*
 1951 Hugh E. Webber*
 1950 John Dyer*
 1949 Orville M. Dunning*
 1948 Harold A. Wheeler*
 1947 Eric Isbister*

*Deceased

NATIONAL AWARDS

Dennis J. Picard Medal:
Dr. William Caputi, Jr.
 Robert S. Walleigh Award:
Charles Rubenstein

SPECIAL AWARDS

2000 Millennium Awards
 Harvey Altstadter
 Henry Bachman
 Robert Bruce
 Thomas Campbell
 David Doucette
 Ivan Frisch
 Alfred Lopez
 Rod Lowman
 Velio Marsocci
 Seymour Okwit
 Eduardo Palacio
 John Pierro
 Paul Richman
 Jerome Schwartz
 Joel Snyder
 Wendy Tang
 Jesse Taub
 Irwin Weitman
 Babak Beheshti

1984 Centennial Award
 Henry Bachman
 Donald Christiansen
 David Doucette
 L.B. Felsen
 F.J. Kosasek
 Roderic Lowman
 R.A. Olsen
 Velijko Radeka
 Arthur Rossoff
 J. Gregg Stephenson
 Jay Stewart
 Joel Snyder
 Jesse Taub
 J.G. Truxal
 David E. Weissman
 Victor Zourides

IEEE MEDALISTS

Henry Bachman
 William Caputi, Jr.
 Leopold Felsen
 Ivan Frisch
 George Litchford
 Nathan Marcuvits
 Anthony Papoulis
 Mischa Schwartz
 Jerome Swartz
 John Truxal