IEEE Long Island Section
2007 Annual Award Ceremony

TED PAPPAS
Chair

EDWARD A. NELSON
Electrical Engineering Management

WILLIAM RUSSELL
New Technical Concepts in Electrical Engineering

RICHARD PHELPS
New Technical Concepts in Electrical Engineering

JESSE TAUB
Electrical Engineering Professionalism

ERIC STICH
Electrical Engineering Management

REX O. NATHANSON
New Technical Concepts in Electrical Engineering

SANTO MAZZOLA
Enhancement of IEEE in Industry & Community Service

YURI B. OKUNEV
Charles Hirsch Award

DAVID WOLFF
Alex Gruenwald Award

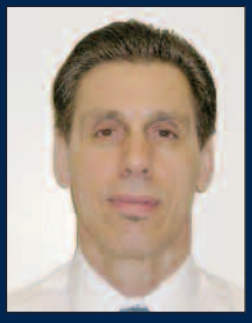
DAVID MESECHER
Electrical Engineering Professionalism

ARTHUR WILLIAMS
New Technical Concepts in Electrical Engineering

FRANK CASSARA
Athanasios Papoulis Education Award

RALPH B. JAMES
Harold Wheeler Award

JEROME Z. LIANG
FELLOW



ANTHONY OLIVO
Instructional Support Associate
Department of Electrical & Computer Engineering

Outstanding Student Branch

Friday April 13, 2007

KeySpan Corporation and the

Electric Business Unit

Congratulate the Recipients

of the

2007 IEEE

Long Island Section Awards

KEYSPAN

Message from the Chairperson

IEEE Colleagues and Friends,

I would like to heartily welcome all of you to the 2007 IEEE Long Island Section Awards Banquet! The great turnout tonight is a reflection of the quality of Long Island's Engineers, the support of the outstanding engineering employers and the vitality of this great section.

Hollywood has the Oscars, politicians have elections and the Long Island Section has this evening. Tonight we recognize both the award winners for their superlative work and the volunteers of the Long Island Section for their unending contributions. Let's start with the award winners. This year Long Island members are receiving national, regional and local awards. Our members received nine region awards, again much greater than our portion of regional membership. We are also celebrating the elevation of one of our members to Fellow. Many thanks are due to Jesse Taub and the nominating committee for their hard work in providing an excellent slate of award nominees year after year.

I cannot begin to describe the sense of volunteerism exhibited by the members of our Executive Committee. They deserve a great deal of thanks as do their families for putting up with the time devoted to IEEE. Without these volunteers the programs we offer as well as this Banquet and LISAT would cease. Thanks are also due to John Osterholz of BAE for graciously accepting an invitation to be our Keynote speaker. A very special thank you is owed to Sandy Mazzola our second vice-chair and banquet organizer. This is one of the most demanding jobs as you move up the ranks of section leadership and Sandy came through with flying colors!

I would like to remind you about the 2007 Long Island Systems and Technology Conference (LISAT) which will be held on Friday, May 4 at Farmingdale State College. Our volunteers have tirelessly planned this event and it is shaping up to be the best LISAT yet! Additional information on LISAT 2007 is contained in this program. Please share it with your colleagues and urge their attendance. We are well on the way to making this conference one of the premier technology events on Long Island and are asking for your help in attaining this goal.

Congratulations to all of the 2007 Award Recipients. I would also like to thank all the engineering employers, donors and the engineers of Long Island. These engineers contribute more to society in a day, and with very little recognition, than some Oscar winners do in a lifetime. Thanks!

Get Involved and Network!

Ted Pappas

IEEE Long Island Section Awards Ceremony

Friday April 13, 2007

Keynote

John Osterholz
Vice President, General Manager
Integrated C4ISR BAE Systems

"Interpersonal Computing: Maintaining Your Sanity in the Age of The Blackberry"

John Osterholzis, Vice President and General Manager for Integrated C4ISR within Electronics and Integrated Solutions (E&IS) Operating Group of BAE Systems, is responsible for developing advanced concepts and programs in the C4ISR domain and for deploying leading edge technology solutions to meet critical national security problems. Before joining BAE Systems, he was a senior executive in the Department of Defense (DoD) where he was highly influential in the application of net- centric technologies and operational processes to defense and intelligence community needs. As director of C4ISR Architecture and Inter-operability, Osterholz was the senior executive responsible for the development, oversight and integration of DoD Global Information Grid architecture and programs relating to the strategy of information superiority. Prior to his assignments in Washington, Osterholz served as a U.S. Army officer with assignments in special operations, reconnaissance and intelligence. He is the recipient of numerous prestigious awards including the Secretary of Defense Medal for Distinguished Service in the aftermath of September 11th, The Federal IT 100 award, three-time recipient of the Presidential Rank Meritorious Executive Award, Federal Interagency Council Leadership Award and the White House Military Office Distinguished Service Medal.

Agenda

6:00 - 7:00 PM	*Guest Arrival, Hors d'oeuvres*
7:00 - 7:10 PM	*Call to Order, Welcome* *Ted Pappas, Chairperson, IEEE L.I Section*
7:10 - 7:30 PM	*Keynote Address:* *John Osterholz* *Vice President General Manager* *C4ISR BAE Systems* *Introduced by Dave Wolff,* *Junior Past Chair IEEE L.I. Section*
7:30 - 7:45 PM	*IEEE Long Island Section Volunteer Recognition* *Ted Pappas, Chairperson IEEE, L.I. Section*
7:45 - 8:00 PM	*IEEE Long Island Section Awards* *Jesse Taub, Awards Chairperson* *IEEE L.I. Section*
8:00 - 9:00 PM	*Dinner*
9:00 - 9:15 PM	*IEEE Region 1 Awards* *Jesse Taub, Awards Chairperson* *IEEE L.I. Section*
9:15 – 9:20 PM	*IEEE Fellow Award* *Jesse Taub, Awards Chairperson* *IEEE L.I. Section*
9:25 – 9:30 PM	*IEEE Institute Herman Halperin Electric Transmission and Distribution Award* *Jesse Taub, Awards Chairperson* *IEEE L.I. Section*
9:30 – 9:35 PM	*Closing Remarks* *Ted Pappas, Chairperson, IEEE, L.I. Section*
9:35 – 10:00 PM	*Dessert and Coffee*

Fellow Award

JEROME Z. LIANG

"For contributions to medical imaging reconstruction and virtual colonoscopy."

Jerome Zhengrong Liang is a professor of Radiology and Computer Science at Stony Brook University (SBU) and leads a research team in developing medical imaging theory and technology toward early diagnosis, surgical treatment planning and follow-up evaluation. He is principal investigator of several NIH-sponsored projects involving medical image reconstruction, segmentation and visualization. One current project aims to further develop virtual colonoscopy (VC) using low-dose computed tomography technology for colorectal cancer prevention, and another current one uses magnetic resonance imaging to explore bladder tumor staging. He was a founder of Viatronix, Inc. to commercialize the VC and other medical imaging technologies. He was a pioneer in developing and integrating the maximum a posterior (MAP) principle and the expectation-maximization (EM) algorithm for tomographic image reconstruction and segmentation. The MAP-EM framework has been successfully applied to extract medical image features toward feature-based visualization and computer-aided diagnosis. He was a guest editor for a special issue on Virtual Endoscopy at the IEEE Transactions on Medical Imaging (TMI) and another special issue on Medical Imaging Informatics at the International Journal of Image and Graphics. He has been serving on the editorial board of TMI since 1999. Dr. Liang received B.S. degree in physics from Lanzhou University of China in 1982 and Ph.D. degree in physics from City University of New York in 1987. From 1987 to 1992, he was a research associate and then research assistant professor in the Radiology Department at Duke University. He joined SBU in 1992 and became professor in 2000.

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 Region 1 Award for Electrical Engineering Management

EDWARD A. NELSON *Professor of Electrical and Computer Engineering at New York Institute of Technology (NYIT)*

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

Edward A. Nelson has been a Professor of Electrical and Computer Engineering at New York Institute of Technology (NYIT) since 1970. He is a Senior Member of the IEEE (1990). Since 1996 he has been the Chair of the Electrical and Computer Engineering Technology and Telecommunications Network Management programs. Prior to joining NYIT he worked as an engineer in the area of communications for Sperry and Hazeltine. He has taught courses in both basic computer science, numerical methods, programming, circuits, electronics, communications, and computational tools such as MATLAB. He was an Associate Editor for Handbook of Modern Electronics and Electrical Engineering, published by Wiley in 1986, supervising over 20 contributors for sections on Mathematics, Digital Circuits and Computers. As past Chair of Electrical Engineering, 1985 -1995, he prepared and lead the Old Westbury EE faculty through several successful ABET accreditation visits (12/1985, 11/1988, 11/1994). The Iota Psi Chapter of Eta Kappa Nu was installed at the Old Westbury Campus in 1991.

In his current position he lead the Old Westbury EET faculty through successful ABET reaccreditation visits in the fall of 1998 and 2004. The program name was successfully changed from Electrical Engineering Technology to Electrical and Computer Engineering Technology during the last visit. From 1986–2001 he consulted for Lucent Technologies (formerly AT&T Bell Laboratories, 1986-1996) N.J., as a Subject Matter Expert in the Learning and Performance Center. He developed and prepared courses, including video courses, in the areas of Switching, Traffic Engineering, Packet Switching, Simulation, Optical Solitons, and Digital Wireless (Digital Wireless Access Comm., IS 136 TDMA, IS 95 CDMA, Personal Communications Services (PCS), GSM). He was the principle developer of an introductory multimedia cd-rom course on cellular and PCS communication that was used to train non-technical staff. Ed has a Bachelor of Electrical Engineering from Polytechnic Institute of Brooklyn (6/1959), a Master of Engineering from Yale University (6/1960), and a Ph.D. from Polytechnic Institute of Brooklyn (6/1967), 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.

IEEE Region 1 Award for New Technical Concepts in Electrical Engineering

WILLIAM RUSSELL *Telephonics*

"For technical innovations in the design of Pulse Doppler and Synthetic Aperture Radars"

William Russell has over 40 years of experience in design and development of Pulse Doppler and Synthetic Aperture radars and their associated components during which he has participated in four flight test programs. Bill is currently a Senior Staff Engineer at Telephonics Corporation located at Farmingdale N.Y. working on a program to deliver the first of Telephonics newly developed RDR-1700B radar for aircraft and UAV applications. He is the lead system engineer for the Telephonics product line of radars including the RDR 1400, 1500, 1600, 1700 and 1700B These radars include Weather, navigation, surveillance and Synthetic Aperture imagery capabilities used in support of Search and Rescue missions on helicopter and fixed wing aircraft. Mr. Russell has a BSEE degree from the Polytechnic Institute of Brooklyn and a MS from the University of N.Y. at Stony Brook.

Prior to his career at Telephonics he worked with AIL Systems Inc. as a principal system engineer on the design and development of the Tail Warning missile approach detection function within the ALQ-161 ECM system on the B1-1B bomber program. The Tail Warning radar is a sub function of the ALQ-161 ECM system and provides radar MTI missile detection coverage in the rear of the aircraft. He led the design verification testing activity of the first units and coordinated with the Air Force to conduct flight tests on B1-B aircraft and performed flight test data analysis and implement changes.

Mr. Russell has performed SAR/MTI radar systems specification and signal processing techniques development. He was lead engineer on integration and testing to deliver three Pulse Doppler MTI radars for to CECOM for airborne application and ground applications. He was Technical manger on a design and development team to build a KU band Synthetic Aperture Radar sponsored by US army CECOM. Flight test of the SAR radar on a Bell helicopter was conducted, which resulted in successfully gathering high-resolution spotlight SAR images.

Bill has written articles for trade magazines and has presented papers at the on "Tail Warning Function of the AN/ALQ 161 System" to the 1993 IRIS (Infrared Information Symposium) and more recently wrote and presented a paper titled "Radar Based Approach for Collision Avoidance for UAV Platforms" to the 2005 AUVIS (Association for Unmanned Vehicle Systems International) symposium.

IEEE Region 1 Award for New Technical Concepts in Electrical Engineering

RICHARD M. PHELPS *Telephonics*

"For technical excellence in the analysis, simulation and evaluation of complex military systems."

Dr. Phelps has over 35 years of experience in the analysis, design, simulation and evaluation of complex Military systems. His work has involved inertial navigation systems (the Trident submarine), monostatic radars (ETAS ground-based radar, LAMPS helicopter Multi-Mode Radar (MMR), CP140 Radar), bistatic radars, Track While Scan (LAMPS, AWACS IFF TWS, NATO AWACS Mode S Tracker, CP140 TWS), and a large scale B1 missile encounter simulation (PENETRATOR).

Currently a Senior Staff Engineer at Telephonics Corporation, Farmingdale N.Y, his primary tasks have been in the areas of radar and tracking algorithm development and performance evaluation. He designed, simulated, and tested the TWS systems for the LAMPS MMR, NATO AWACS Mode S, and CP140. He has also designed the Track-Before-Detect processor for LAMPS (periscope mode) and CP140 (two modes: periscope and low visibility targets). Dr. Phelps has modeled and evaluated the detection and tracking performance of these systems. Currently, he is finishing a high fidelity clutter and target I/Q signal stimulator, Clutter/Radar/IFF Simulator (CRIS), which will perform many of the functions of an actual flight test.

His prior experience was with AIL Systems Inc., now a division of EDO Corporation, as a staff engineer in the radar department, and later the systems requirements department. He was responsible for the development and testing of the B1 PENETRATOR simulation. Based on the ESAM simulation, PENETRATOR included realistic models of search, acquisition, and tracking radars; 6 DOF missile/seeker models, with launch, guidance, and end game; B1 counter measures. Dr. Phelps has also worked on the design and analysis of: moving target classification, low probability of intercept radar, jamming and countermeasures, statistical testing, and bistatic passive imaging concepts and experiments.

Dr. Phelps received his Ph.D. in Mathematics from Adelphi University, Garden City, NY.

IEEE Region 1 Award for Electrical Engineering Management

ERIC STICH

BAE Systems

"For the management of a highly skilled and technologically diverse team for the development of Precision Pointing and Tracking Reconnaissance cameras."

Eric Stich is currently a Senior Principal Engineer at BAE Systems, where he has spent the last four years leading the development of precision control technologies. His work on the development and integration of geospatial pointing and tracking capabilities has enabled BAE System's reconnaissance cameras for use in real-time targeting applications. Mr. Stich led a diverse team of engineers in the design of inertial stabilization and navigation technologies to implement precise image geo-location functionality. This included algorithms, real-time processes, integration procedures, and analyses. This technology provides timely military situational awareness.

Mr. Stich has 20 years of experience in the design and implementation of control systems for a wide variety of industries. Prior to joining BAE Systems, he was president and cofounder of Creative Control Technologies, where he spent ten years developing motion, temperature, and power control systems, along with a variety of robotic solutions. These designs are being utilized in machine tools, process equipment, test equipment, factory automation systems, and theatrical productions. Mr. Stich spent three years designing wafer handling robots and process control systems while working in the semiconductor industry. He began his career as an electrical engineer designing effects equipment for the entertainment industry, in which he received two film credits.

Mr. Stich earned a MS in Electrical Engineering at Polytechnic University, and a BS in Electrical Engineering at Rensselaer Polytechnic Institute. He has been an IEEE member for 18 years, and belongs to the Control Systems Society and Robotics and Automation Society.

IEEE Region 1 Award for New Technical Concepts in Electrical Engineering

REX O. NATHANSON

Telephonics

"For contributions to the design of audio devices and systems for severe industrial and military environments."

Rex Nathanson is Director of Engineering Technology for the Telephonics Corporation, Communication Systems Division. In this role Mr. Nathanson provides over 25 years of industry experience in speech and audio signal processing, acoustics, high assurance wired and wireless communications systems design and development, ASIC development, and engineering management. At Telephonics Mr. Nathanson has contributed detailed design and technical direction to multiple generations of the Company's secure intercommunications systems. These systems are currently deployed on major military airborne platforms including C-17, J-STARS, LAMPS, EP-3E, Air Force One, CMHP, P-3 COP, the Gripen Fighter Jet, and the Space Shuttle. In addition he contributed to the development of the Division's wireless products including a militarized, self-contained wireless headset and repeater system designed for operation in high acoustic noise environments, a band-shifted TDMA IS-136 cellular transceiver designed for international deployment, and SureCom, a ruggedized belt worn peer-to-peer full-duplex, frequency hopped direct-sequence (FHDS), ISM-band wireless transceiver for which Mr. Nathanson contributed to the architecture of its patented air-interface including acquisition, synchronization, collision avoidance and concealment algorithms. In his association with Telephonics Mr. Nathanson has held several positions including Director of Electrical Engineering, Sr. Staff Engineer, and Sr. Manager, Electrical Engineering. He is a lead member of the Division's Technical Review Team and a technical advisor to the Division's New Business Development and Acquisitions team.

Mr. Nathanson was a principal and co-founder of Wireless Domain, Inc., a wireless product development consultancy he launched in Hauppauge, NY. Wireless Domain was later acquired by the Telular Corporation [NASDAQ: WRLS] where he continued to serve as Vice President of Engineering. In this role he built and directed an engineering organization that developed a broad portfolio of multi-standard, carrier-grade fixed wireless cellular terminals designed for high volume manufacturing. These products currently provide basic telephone service to millions of people in developing regions around the globe.

Mr. Nathanson received his Bachelor of Science degree in Electrical Engineering from Pratt Institute, Brooklyn, NY. He is a Senior Member of the IEEE with 29 years of continuous association. Active IEEE society memberships include COMSEC, Signal Processing Society, Solid State Circuits and Engineering Management Societies.

IEEE Region 1 Award for Enhancement of IEEE in Industry and Community Service

SANTO MAZZOLA

BAE Systems

"For dedicated efforts contributing to the growth and current activity of the IEEE L.I./NY EMC Chapter."

Sandy Mazzola is a past Chairman of the IEEE Long Island EMC Society and is presently the Second Vice chairman of the IEEE Long Island Section. Sandy has been an Electromagnetic Compatibility engineer dealing with military equipment and commercial equipment for over 25 years. Sandy currently works for BAE Systems in Greenlawn. Sandy is responsible for all aspects of Electromagnetic effects on the products at BAE Systems. He is involved with designs for EMI, EMC, EMP, ESD, Lightning, Nuclear Radiation hardness, and TEMPEST.

Sandy has recently made technical presentations to the Long Island Consultants Network, the Long Island IEEE EMC society, and presented a paper at the Long Island Systems, Applications, and Technology Conference (LISAT). Sandy started his career as an EMC engineer for the Dayton T Brown Co in Bohemia. He then worked for AIL Systems in Deer Park as the EMC laboratory manager. He then worked for Symbol Technologies as a Regulatory Compliance EMC engineer, managing the Gigahertz Transverse Electromagnetic Cell (GTEM) lab and was responsible for the design and installation of an Open Area Test Site (OATS) facility. Sandy was involved with obtaining worldwide RF approvals for intentional transmitter products.

Sandy has a BS in Electrical Engineering from SUNY Stony Brook. When not chasing electrons Sandy enjoys life with his wife Susie, daughter Maggie and son Andrew. Sandy enjoys music, collecting comic books, sports, and the theatre.

IEEE Region 1 Award for Electrical Engineering Professionalism

JESSE TAUB

Independent Consultant

"For creation of an international technical program that led to the success of the LISAT conference."

Jesse J Taub received the BEE Degree in 1948 from the City College of New York and the MEE Degree in 1949 from the Polytechnic University.

He is currently an independent consultant on microwave systems and technology. From June, 1955 to June 1993 he was employed in various capacities by AIL Systems, Deer Park, NY with the final position of Chief Scientist. In this capacity he directed programs involving advanced microwave solid state circuits and devices. From August, 1949 to June, 1955 he was employed by the U. S. Navy Applied Sciences Laboratory. He has also taught graduate microwave courses at the City University and AIL, as well as serving as an expert witness on microwave technology issues.

He has made major contributions in areas such as microwave integrated circuits, filter and equalizer theory, millimeter and submillimeter wave technology, the interaction of microwave components and systems, microwave measurements and microwave receiver design. He was among the first people to develop components operating above 300GHz. In so doing, he was a pioneer in the use of quasi-optical techniques to advance the development of millimeter and submillimeter wave sub-components.

Mr. Taub became an IEEE Fellow in 1967 for "Contributions to Microwave Networks and Millimeter Quasi-Optic Techniques". The IEEE awarded him a Centennial Medal in 1984, the Millennium Medal in 2000 and several other awards. He has served as the Technical Co-Chairman of LISAT and chairs the IEEE Long Island Awards Committee. Mr. Taub has also served on several professional committees for many years, including the IEEE Microwave Symposium Technical Programs Committee and the Editorial Boards of the MTTS Transactions and the Microwave Journal. Mr. Taub served as the Technical Program co-Chairman of the IEEE International Microwave Symposium in 1976 and 1998. In 1993, AIL Systems gave him the Fowler Award for Engineering Excellence. Mr. Taub is a member of the Hofstra University and NYIT Engineering Advisory Boards. He is listed in Who's Who in America.

IEEE Region 1 Award for Electrical Engineering Professionalism

DAVID MESECHER

Northrop Grumman

"For creation of an international technical program that led to the success of the LISAT conference."

Dave began his career at Hazeltine Corporation, now part of BAE Systems, where he modeled adaptive antenna arrays using Space-Time Adaptive Processing (STAP) to achieve wideband-jamming cancellation in the presence of multipath for spread-spectrum airborne military communications systems. Later, at AIL Systems, now EDO Systems, he modeled and developed signal processing techniques for passive geolocation systems using recursive mixed-measurement maximum-likelihood solutions. He also developed super-resolution processes to achieve blind-source separation with adaptive and direction-finding antenna arrays. Dave then worked on base-band receiver digital signal processing algorithms for CDMA wireless communications systems at IDC, including channel estimation, adaptive receiver filtering, carrier recovery, smart-antenna processing, and handset location. He is now a Principal Engineer in Future Architectures and Technologies at Northrop Grumman Integrated Systems, investigating wireless communications, antenna processing, and multi-platforms precision geolocation concepts supporting Network-Centric Intelligence, Surveillance, and Recognizance (ISR).

Dave is a Senior Member of both the IEEE and the AIAA, is the Chairman of the Long Island Chapter of the IEEE Communications Society, and is Co-Chair of the IEEE Long Island Systems, Applications, and Technology (LISAT) conference Technical Program Committee. He holds 26 US patents and several foreign patents for signal processing techniques in the areas of wireless communications, adaptive antenna arrays, and real-time location systems. He has a BSEE from Rensselaer Polytechnic Institute, an MSEE from Polytechnic University, and an MBA from Adelphi University. Dave lives in Melville with his wife Margaret and their two boys Mitch and Keith.

IEEE Region 1 Award for New Technical Concepts in Electrical Engineering

ARTHUR WILLIAMS

Telebyte

"For lifetime advancement of the technology of Electronic Filter Design."

Arthur Williams is the Chairman of the Long Island Chapter of the IEEE Circuits and Systems Society. He has over 30 years experience in analog filtering, telecommunications, telephony, the local loop, magnetics and general analog design.

Arthur has been the Chief Scientist at Telebyte Inc. in Hauppauge since 2002 where he is responsible for developing a product line of broadband simulation and test equipment with concentration in the area of telephone local loop simulators for DSL equipment testing. Prior to his position at Telebyte Inc. he was Engineering Manager at Tellabs where he designed high-efficiency switching power supplies and provided company-wide guidance on power generation and distribution issues for Central Office based equipment. He was also responsible for solving the more difficult product EMC/EMI compliance issues.

From 1972 to 1998 he was Vice President of R&D at Coherent Communications Systems Inc. where he pioneered and developed product lines of audio conferencing products, Data over Voice multiplexers including the first POTs Splitter and modems using FSK, QAM, VSB, and quad-phase modulation.

Arthur has recently completed his seventh book on filters for McGraw Hill. He currently has six patents and five patents are pending. Arthur has a BS in Electrical Engineering from the New York Institute of Technology and took graduate courses at Brooklyn Poly in Farmingdale.

Arthur enjoys spending his spare time with his grandchildren Ilona and Leviah.

The Institute of Electrical and Electronics Engineers, Inc.
LONG ISLAND SECTION

2007

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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

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Area B Chair: Gerhard Franz
METSAC Chair: Alan Stolpen

Charles Hirsch Award

YURI OKUNEV
Symbol Technologies

"For outstanding contribution to the Phase modulation theory and wireless system design"

Dr. Yuri Okunev received his Ph.D. in Electrical Engineering from St. Petersburg State University of Telecommunications, Russia, where he was the head of Digital Communication Laboratory, a university research center focusing on radio systems. The laboratory pioneered in OFDM technology and received a worldwide recognition for innovations in the field of phase-difference modulation techniques.

In 1993 Yuri Okunev moved to the United States and since then has been working in the American telecommunications industry. Working for leading American telecommunication research centers, such as Bell Lab of Lucent Technologies, PCTel, Symbol Technologies, and Motorola, he participated in the development of advanced telecommunication systems and technologies, including CDMA, wireless systems based on high-altitude aeronautical platforms, V.92 modems, OFDM for wireless and ADSL applications, LDPC encoding, and next generation of RFID systems.

Dr. Okunev is an author of several monographs, numerous scientific papers, and patents on the modulation/coding theory and optimal signal processing. His latest monograph "Phase and Phase-Difference Modulation in Digital Communications" (Artech House, Boston-London) explores issues of modem and wireless system design.

Yuri Okunev is also known as an author of books in historical-journalistic genre and fiction. Recently published, English translations of his books include an intellectual thriller and anti-Utopia *The Lost War*, a collection of socio-political essays *The Axis of World History,* and a pamphlet "Left-wing Liberalism: A Senile Disorder."

Outstanding Student Branch

"For continued IEEE membership growth and the reopening of a student engineering laboratory."

ANTHONY OLIVO
Instructional Support Associate Department of Electrical & Computer Engineering

IEEE STUDENT BRANCH *at State University of New York at Stony Brook including officers Jose Lee, Daichi Ikegami, Moon Ching and Elysse Chao.*

The Stony Brook University chapter of the IEEE is a student chapter run by the students with advisement from Prof. Tom Robertazzi, and technical assistance from Tony Olivo. The chapter strives to give its members the opportunity to advance their knowledge and provide an environment where they can study, get hands on experience, and interact with fellow members. The goal of this chapter is to function as a resource for students to gain technical expertise which will help them as both students and in their future engineering positions.

Thanks to the efforts of the current IEEE officers, led by President Jose Lee, the student run laboratory has made significant improvement. The new IEEE members have put a great deal of effort into getting the lab reopened and operational. They skillfully sought and received donations of PC's and networking equipment from the Dean's office, the campus S.I.N.C. Site, and from the Department of Electrical and Computer Engineering.

As well as reopening the lab, the chapter is actively recruiting new members and has been busy organizing and participating in IEEE activities. This past December they hosted two software programming teams in the IEEE sponsored "Xtreme Programming Challenge." The IEEE officers have also been working with the Eta Kappa Nu Honor Society to help provide leadership and tutelage for all undergraduate students. Through their actions, the Stony Brook Chapter of the IEEE has once again become a place for our future engineers to work, study, and make friends.

Harold Wheeler Award

RALPH B. JAMES
Associate Director for Energy, Brookhaven National Laboratory

"For enduring technical contributions and outstanding management in non-linear optics, lasers, laser processing of materials, infra-red through gamma-ray radiation detectors and portable instrumentation for spectroscopy and imaging."

Dr. Ralph James is the Associate Laboratory Director for Energy, Environment and National Security at Brookhaven National Laboratory. In his current position, he oversees a wide range of basic and applied research with annual funds-in of approximately $90 million. He has conducted transformational research in optics, photonics and solid-state detectors for over 2 decades. His research results have been extensive and fundamental, and the impact of his work has been lasting. Dr. James has authored more than 410 scientific publications, served as editor of 11 books, and holds 10 patents. Among his many prestigious honors, Dr. James won Discover Magazine's "Innovator of the Year" award for his contributions to develop semiconductor-based radiation detectors. He is a four-time winner of R&D Magazine's R&D100 Award, which honors the top 100 inventions of each year. He recently received the IEEE Outstanding Radiation Instrumentation Achievement award and the Room-Temperature Semiconductor Detector Scientist Award. Dr. James is a Fellow of the IEEE, American Physical Society, International Society for Optical Engineering – SPIE, and American Association for the Advancement of Science in honor of his extraordinary accomplishments in the areas of solid-state detectors, gamma-ray imaging, nonlinear optics and materials research. Dr. James has held numerous leadership positions in scientific and engineering societies, and he served as chairman of over 15 major international conferences. The output of his research and scientific leadership continue to lead to new products and applications in the fields of spectroscopy, astrophysics, environmental monitoring, and high-resolution imaging for security and medical uses.

Alex Gruenwald Award

DAVID WOLFF
BAE Systems

"For contributions to expanding the IEEE Long Island Section's level of technical activities."

David Wolff is currently Site Engineering Director for the Identification and Surveillance Business Area of BAE Systems, Sensor Systems, located in Greenlawn, NY and Honolulu, HA. This business area has sales of $300M and an engineering staff of approximately 400 people.

Mr. Wolff graduated from Polytechnic University in 1979 with a degree in Electrical Engineering. He subsequently received a Masters Degree in Business Administration from Adelphi University and Masters Degree from Polytechnic University in Electrical Engineering.

He started his career at the former Hazeltine Corporation in 1979, and has since held increasingly responsible positions at BAE Systems in the design, development and engineering project management of military communication systems with a specialty in Identification Friend or Foe (IFF) systems and other Combat Identification technologies.

In 2000, Mr. Wolff was the recipient of the IEEE Region 1 Award for Managerial Excellence. He has been actively involved in the Executive Committee of the Long Island Section for many years. In 2006 he was Chairman and is currently serving as the Junior Past Chair. Mr. Wolff is the recipient of a patent award in 2004 involving an integrated airborne collision system.

Mr. Wolff resides in Smithtown with his wife Susan and children Laura and Michael.

Athanasios Papoulis Education Award

FRANK A. CASSARA
Polytechnic University

"For outstanding dedication in furthering engineering and technology education within the Long Island community and nationwide."

Frank A. Cassara has been a Professor of Electrical and Computer Engineering at Polytechnic University since 1970 and is currently Director of the Long Island Graduate Center, Melville, N.Y. He teaches a variety of courses in the areas of electronic circuits and wireless communication systems. Dr. Cassara has also been active in experimental research programs relating to wireless communications and serves as Director of Polytechnic's Wireless Communications Laboratory. He has published numerous journal and conference proceedings papers and received several research and education grants from federal and state agencies as well as from industry. In 1994 he developed Polytechnic's Wireless Communications Laboratory with the help of a National Science Foundation Instructional Laboratory Equipment Grant and matching funds from several wireless companies. The laboratory is both an instructional and research facility focusing on experimental studies relating to a variety of wireless communication systems. During the summers of 1995, 1998, 1999, and 2000 he conducted an NSF Undergraduate Faculty Enhancement Workshop at Polytechnic's Long Island Campus on Wireless Communications for Electrical Engineering faculty from various colleges and universities in the U.S. to bring theoretical and practical knowledge relating to wireless communications to a national student population. Since 1992 he has also served as Director of Polytechnic's Summer Research Internship Program for college juniors.

Dr. Cassara has received numerous awards for excellence in teaching including Polytechnic's Distinguished Teacher Award and the Jacobs Award for Engineering Excellence in Education. He received his BSEE degree from Rutgers University and his MSEE and Ph.D. (EE) from Polytechnic Institute of Brooklyn. He is a Senior Member of the IEEE.

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.

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
2006 Richard J. Klumpfbeck
2005 Peter McVeigh
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
2006 Daniel Rogers
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
2006 Aleksey Bolotnikov
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 Richard 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
2006 Serge Luryi
2006 Wendy K. Tang
2005 Kenneth Short
2004 Peter Voltz

OUTSTANDING YOUNG ELECTRICAL ENGINEER
2006 David Hernandez
2005 Justin M. 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 Ynjiun Wang
1993 Cecelia Jankowski

SECTION IEEE FELLOWS
Peter Djuric`
Thomas Robertazzi
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
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. Shinners
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
Richard Krabak
Charles Vozzo
Peter Eckstein
Charles Rubenstein
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 McNerney
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

NATIONAL AWARDS

Dennis J. Picard Medal:
Dr. William Caputi, Jr.

Robert S. Walleigh Award:
Charles Rubenstein

SPECIAL AWARDS
2000 Millenium Awards
Harvey Altstadter
Henry Bachman
Robert Bruce
Thomas Campbell
David Doucette
Ivan Frisch
Alfred Lopez
Rod Lowman
Velio Marsocci
Seymour Okwit
Eduard 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

SECTION CHAIRS
2006 David Wolff
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

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

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