



IEEE Long Island Section 2003 Annual Awards Ceremony

**WELCOME
TO THE
IEEE LONG ISLAND SECTION
2003 AWARDS BANQUET**

As this year's Chairman of the Long Island Section of the IEEE, it is my privilege to welcoming everyone to the 2003 Long Island Section Awards and Recognition Banquet. This year's banquet is unique and special for several reasons.

To begin, the Executive Committee of the Long Island Section has decided to add a new component to our ceremony – recognition of the time and effort donated by the volunteers who serve the Long Island Section and who are responsible for its operation. Throughout the year these volunteers have tirelessly managed the affairs of the Section, organized technical meetings and lectures, and supported the local community. Their efforts are much appreciated by the IEEE and its members. Starting at this Banquet then, and going forward each year, these efforts will be acknowledged.

Fifty years ago next month, with the help of Harold Wheeler and Charles Hirsch, both of Hazeltine Corporation, the Long Island Section of the New York-based Institute of Radio Engineers (IRE) was established. The IRE later merged with the American Institute of Electrical Engineers (AIEE), also based in New York, to form the IEEE, and the Long Island Section of the IRE became the Long Island Section of the IEEE. This year, then, we celebrate the official 50th Anniversary of the Long Island Section of the IEEE. As we do every year, we will be presenting today the Harold Wheeler Award for Outstanding

Technical Management, and the Charles Hirsh Award for Outstanding Technical Contribution. This year, however, the inscriptions of all four of our Long Island Section Awards will bear special commemorations to our jubilee milestone.

We are privileged to have with us today two distinguished keynote speakers. Ed Palacio is a long-time Long Island Section volunteer. He was 1994/1995 Section Chair, 1996 METSAC Chair, and 2002 Tellers Committee Chair, and is now the Vice Chair of the IEEE Student Activities Committee and Region 1 Director of Student Activities. He is the recipient of the 1999 LI Section Alex Gruenwald Award, and also a Region 1 Award recipient. Ed is currently General Manager of Defense Programs and Technologies at EDO Corporation's Electronic Systems Division (Formerly AIL Systems) in Deer Park, and has been a key player in Long Island's defense industry for many years. I actually worked in Ed's organization while I was at AIL, and was impressed by his spirit in serving the IEEE, and motivated by his passion for supporting our nation's defense through the development of advanced technologies.

Long Island Congressman Steve Israel has been a strong advocate for Long Island defense and technology companies, and recognizes the contribution that Long Island's skilled workforce has always made to our national defense. This past January, he was appointed to the House Committee on Armed Services, which oversees all aspects of the United States military, including procurement, transformation and modernization, and national defense and security. In his view,

(Continued on page 4)




IEEE Awards Ceremony Agenda

1:00 - 1:30 PM	Guest Arrival, Refreshments	2:30 - 2:45 PM	IEEE Long Island Section Awards Jesse Taub, Awards Chairman
1:30 - 1:40 PM	Call to Order, Welcome David Mesecher Chairman, IEEE, L.I. Section	2:45 - 3:00 PM	IEEE Region 1 Awards Jesse Taub, Awards Chairman
1:40 - 2:00 PM	Keynote Address: Eduardo Palacio Vice Chairman IEEE Student Activities	3:00 - 3:05 PM	IEEE Fellow Award Jesse Taub, Awards Chairman
2:00 - 2:20 PM	Keynote Address: Congressman Steve Israel US Congress	3:05 - 3:10 PM	Closing Remarks David Mesecher Chairman, IEEE, L.I. Section
2:20 - 2:30	IEEE Long Island Section Volunteer Recognition David Mesecher Chairman, IEEE, L.I. Section	3:10 - 5:00 PM	Cocktails and Buffet



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

2003

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CHAIR: David Mesecher, Northrop Grumman Corp.
1st VICE CHAIR: Christian DiFranco, Data Device Corp.
2nd VICE CHAIR: Daniel Rogers, Telephonics Corp.
TREASURER: David Wolff, BAE Systems
SECRETARY: Harvey Altstadter, HR Electronic Components Consulting Services
JUNIOR PAST CHAIR: William Rooney, Northrop Grumman Corp.
SENIOR PAST CHAIR: Babak Beheshti, NYIT

SOCIETY CHAPTER CHAIRS

Aerospace and Electronic Systems: Richard S. Pierro, Technology Service Corp.
Communication: David Mesecher, Northrop Grumman Corp.
Computer: Daniel Rogers, Telephonics Corp.
Electromagnetic Compatibility:
chair: Bruce Willard, Telephonics Corp.
vice chair: Richard Mohr, R.J. Mohr Associates
Engineering in Medicine and Biology: Joel Levitt, Pratt Institute
Lasers and Electro Optics: John Petersen, Consultant
Instrument and Measurement: Ken Jacobsen
Microwave Theory and Techniques: Mike Hanczor, Lockheed Martin Corp.
Nuclear and Plasma Sciences: Arlene Zhang, Brookhaven National Laboratories
Power Engineering: Alan Osborne
Signal Processing: Babak Beheshti, NYIT
Vehicular Technology: Brad Craig, Arlene W. Zhang, Brookhaven National Laboratories

ACTIVITY LEADERS

Awards Nomination: Jesse Taub, Consultant
Educational Activities: Charles Richardson, retired, Sperry Gyroscope Co.
LI Consultant's Network: Irwin Weitman, Consultant
EJCLI: Charles Richardson, retired, Sperry Gyroscope Co.
Historian: Roderic V. Lowman
IEEE USA: Robert Bruce, Consultant
LIMSAT: Frederick Kruger, Kruger Associates Inc.
Nominations: William Rooney, Northrop Grumman Corp.
PACE: Irwin Weitman, Consultant
Pulse Business Manager and Editor: Babak Beheshti, NYIT
Student Activities: David Wolf, BAE Systems
Tellers Committee: John Petersen, Consultant
Webmaster: James Colotti, Telephonics Corp.

EX OFFICIO OFFICERS

Region 1 Director: Gerald Alphonse, Sarnoff Labs
Area B Chair: Charles Rubenstein, Pratt Institute
METSAC Chair: Alan Stolpen

2002

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2nd VICE CHAIR: Christian DiFranco, Data Device Corp.
TREASURER: Daniel Rogers, Telephonics Corp.
SECRETARY: Lisa Zannella, Sandbridge Technologies
JUNIOR PAST CHAIR: Babak Beheshti, NYIT
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Congratulates this years award recipients!





Keynote Speaker Congressman Steve Israel

Congressman Steve Israel represents New York's Second Congressional District, which includes all of the Town of Huntington and large portions of Babylon, Islip, Oyster Bay and Smithtown. At the outset of the 108th Session of Congress, the Democratic Caucus tapped him for a leadership position, naming Israel Assistant Whip.

In Israel's first term, he passed more measures in the House than any other new Member of Congress.

Additionally, Israel secured over \$40 million in appropriations to expand jobs, reduce crime and protect the environment throughout New York's Second Congressional District, this included more than \$28 million to protect and create new jobs in Long Island's defense industry.

Israel is also highly regarded for his attention to constituent services. He fought for and secured a record amount of over \$400,000 in retroactive benefits for local veterans; and initiated "Supermarket Weekends" where he and his staff visit local markets one weekend every month.

At the outset of his second term, Israel secured a spot on the House Armed Service Committee. Despite the strong defense presence on Long Island, it has not been represented on the committee since Rep. George Hochbrueckner left in 1994.

As the only New York Democrat on the Committee, Israel will raise important questions about strengthening our ability to deal with changing threats, and to advocate for the contribution that Long Island's skilled workforce has always made to our national defense. This assignment is important for strengthening both our national security, and our local economic security.

Israel also serves on the prestigious House Financial Services Committee, where he plays a leading role in expanding homeownership and the economy, protecting investors, and safeguarding the rights of consumers who utilize banks, insurance companies and other financial institutions. He has played a prominent role on the Subcommittee on Housing and Community Opportunity, which passed several of his amendments to encourage affordable housing and downtown revitalization.

Congressman Israel serves in the House Blue Dog Caucus and the Homeland Security Task Force. Israel is co-chair of both the Long Island Sound Caucus and the House Cancer Caucus. governments which financially support terrorism directly or indirectly.

Israel has two daughters, ages 15 and 12. In May, he will be married to Marlene Budd. His two-year-old Miniature Schnauzer is named Max.



Keynote Speaker Eduardo Palacio Vice Chair, IEEE Student Activities Committee EDO Corporation

Ed Palacio has been an active member of the IEEE for more than a decade, holding leadership positions in Section, Council, Regional and IEEE wide activities and committees. Currently, he is the IEEE's Vice Chairman for Student Activities as well as the Region 1 Student Activities Chairman. As such, he is responsible for fostering activities in the region's 77 Student Branches. He was a two-term chairman of the L.I. Section, chairman of METSAC, a director of ELECRO (IEEE Northeast trade show) as well as Technical Programs Chairman for the 1994 show and chairman of the Teller's Committee, responsible for validating the IEEE wide yearly elections.

In his working life, Mr. Palacio is General Manager of EDO's Defense Programs and Technologies Division in Deer Park, N.Y. As Division General Manager, Mr. Palacio is responsible for the current and long term profitability and growth of a defense business that in 2002 posted more than \$70 million in annual sales. His division includes EDO's two major electronic warfare programs, the AN/ALQ-99 for the United States Navy's EA-6B aircraft and the AN/ALQ-161 for the United States Air Force's B-1B bomber. His division is also responsible for future EW programs and technologies as well as the company's radar, space communications and environmental products.

Mr. Palacio joined EDO, then AIL Systems Inc., in 1975, as a digital design engineer and has held positions of increasing responsibility in all aspects of product design, test and

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integration as well as Engineering and Program Management positions in some of EDO's largest programs. Prior to his current position, he was the Director of Engineering.

Mr. Palacio was born in Havana, Cuba, and immigrated to the United States in 1961. He received his Bachelor's degree in Electrical Engineering from the Cooper Union School of Engineering and Science and two Masters' degrees in Electrical Engineering and in Technology Management, from the Polytechnic Institute of New York.

His other affiliations include SUNY Stony Brook's School of Electrical Engineering Industrial Advisory Committee, SUNY Stony Brook's Friends of Women in Science and Engineering and the Long Island Technology Roundtable. He is a member of the IEEE Engineering Management Society and the Association of Old Crows.

Ed has been the recipient of a Region 1 Award, the LI Section's Alex Gruenwald Award as well as the IEEE third Millennium Medal.

Ed resides in Kings Park with wife, Martha, and children Jennifer and Ed Jr.

(Continued from page 1)

we must develop technology that responds to the threats of the 21st Century, instead of relying on a defense infrastructure built for the Cold War. My sincere appreciation is extended to our two keynote speakers for helping us make this year's Banquet timely and special.

It goes without saying that the most special part of our Banquet is the presentation of our IEEE local and regional awards to our well-deserving Section members, several of whom I have known personally for many years. This year's group of award recipients is most impressive, and I am proud to be part of the effort to recognize their achievements. My congratulations to all of them!

I must thank our Second Vice Chairman Dan Rogers, of Telephonics Corporation, for all the effort he has put into organizing this year's Banquet. The new aspects of the Banquet created a lot of additional work for Dan. Not only did Dan successfully fulfill all of my many demanding requests related to the Banquet, but he also volunteered to help out on other projects! Great job Dan – and much appreciated!

I am glad you could join us for this special year, and I am sure you will be inspired by the presentations. Once again, it is my privilege to welcome you all.

Best regards,

Dave Mesecher, 2003 IEEE Long Island Section Chair

Long Island Section Awards



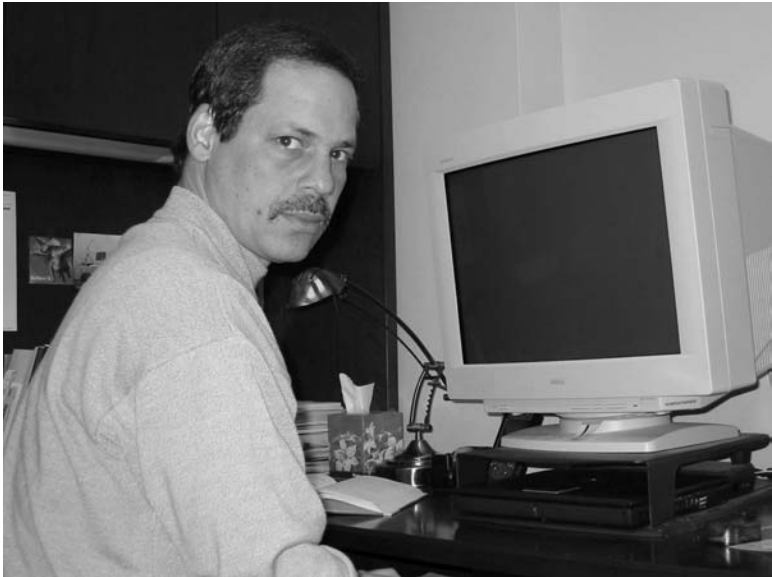
Michael Sussich
IEEE Long Island Section Award
Outstanding Young Engineer Award

“For noteworthy contributions to major programs by using a multidisciplinary approach”

Michael Sussich received his Bachelor's and Masters degrees in electrical engineering from Polytechnic University in 1994 and 1997, respectively. He received his PE in 1999. He has been working at Telephonics Corporation in Farmingdale since 1994.

At Telephonics, Mr. Sussich was instrumental in integrating hardware and software for the F/A-18 program. The F/A-18 audio communications system contains extensive BIT (Built-in Test) capability that required a multidisciplinary knowledge covering analog circuits, digital circuits and FPGAs (Field Programmable Gate Arrays), as well as software. Thorough knowledge of the system allowed the many timing and transient response problems to be solved in an efficient manner.

Mr. Sussich was responsible for the NATO AWACS ABU (Auxiliary Box Unit) subsystem from design through integration and qualification testing. The ABU subsystem provided the digital audio interface and analog backup system for each of the flight crew and mission crewmembers. This program provided invaluable experience in designing and troubleshooting a distributed system. Participation in qualification and EMI testing provided a first hand look at real-world problems. Mr. Sussich also developed Control Panels for the C-17 COSA program. Prior to his employment at Telephonics, Mr. Sussich worked at Physiodyne Instrument Corporation in Farmingdale, where he designed a circuit to calibrate low-cost CO₂ sensors.



Bruce Willins

**IEEE Long Island Section Award
Charles Hirsch Award**

*“For contributions to the development of Internet-
infrastructure equipment, and for creating engineer-
ing opportunities on Long Island. “*

In 1979 Mr. Willins graduated Polytechnic University with a BSEE and joined Hazeltine Corporation. At Hazeltine he spent his first 2 years developing RF systems for electronic counter-counter measures, followed by 3 years of developing digital hardware and software for DARPA (Defense Advanced Research Projects Agency) Packet Radio networking systems. During this time he received an MBA from Adelphi University and initiated graduate work in computer science at Polytechnic University.

In 1984 he founded Netways Inc. Initially focused on internet research projects for DARPA, the company successfully transitioned in 1986 to become one of the pioneer manufacturers of LAN/WAN internetworking products. In 1988 Netways was acquired by Raycom Systems, a fiber optic multiplexer company funded by 3M and Corning. At Raycom, Mr. Willins directed advanced development in fiber-optic networking (FDDI) and Ethernet switching. In 1994 Raycom was acquired by Retix Corp where he proceeded to lead an advanced development team in architecting high-end LAN/WAN internet switches and multi-protocol routers.

In 1996 he joined SMC Networks in Hauppauge where he was VP of Engineering and General Manager for Strategic Business responsible for developing a broad array of enterprise internet-working products.

In 1998 he joined Symbol Technologies where currently he is vice president at the Research & Development department. His responsibilities included technological advancement in a broad array of disciplines, including mobile security, biometrics, speech recognition, and next generation mobile platform architectures. He has also contributed to research in the areas of IEEE 802.11 Wireless LANs and real-time locationing systems.



William Rooney

**IEEE Long Island Section Award
Alex Gruenwald Award**

*“For dedicated leadership in promoting Long Island
Section Activities “*

Mr. Rooney is currently a Principal Engineer, E-2C Systems at Northrop Grumman, and is responsible for the Systems Requirements Model on the Advanced Hawkeye project. His previous employment includes 19 years at AIL (now EDO) as a Senior Staff Software Engineer. While at AIL, Mr. Rooney’s assignments were both technical and managerial in nature, covering Electronic Warfare and radar projects.

Mr. Rooney worked at Simulation Systems Div. as both a Senior Systems Engineer and as Program Manager on the TACDEW Modification System Software Concept Study project. Mr. Rooney also worked for Rockland Systems Corp. on Real Time FFT Spectrum Analyzers, analog filters and frequency synthesizer applications. Prior to that Mr. Rooney was a Senior Systems Engineer at Lockheed Electronics responsible for the development of the optical pulse compression subsystem for the AN/SPQ-9 Radar. Mr. Rooney started his Engineering career working at Grumman Aerospace Corp, on the Lunar Module’s Landing Radar.

Mr. Rooney holds a B.S. in Physics from St. John’s University in 1966, an M.S. in Applied Physics from Adelphi in 1969, and an M.S. in Computer Science from Polytechnic Institute of New York in 1984.

Mr. Rooney’s association with the IEEE includes holding the following offices for the Executive Committee of the Long Island Section: Computer Society Chapter Chair, Secretary, Treasurer, First and Second Vice Chair and Chairman. He is presently the Junior Past Chair. Mr. Rooney was Treasurer for the Metropolitan Section Activities Council in 2001, and a member of the Region 1 Board of Governors in 2002.



Stanley Oken
IEEE Long Island Section Award
Harold Wheeler Award

"For outstanding technical management in developing airborne military intercommunication systems"

Mr. Oken is currently the Vice President of Advanced Systems at Telephonics Corporation Communication Systems Division . Advanced Systems is responsible for generation of concepts, systems designs of new products and technical proposals.

The main emphasis over the last 20 years has been the

successful development of the airborne military secure Intercommunication System (ICS) product line. The ICS handles all interior communication between the operators and communications to/from the onboard radios and data links. It handles clear and secure signals simultaneously. This is a key component of Telephonics business. It is estimated that Telephonics provides over 90% of the market for these systems.

Technical leadership and technical contributions were provided for the acquisition and development of various products including analog distributed TEMPEST qualified STARCOM systems utilized on many helicopters. Analog centralized ICS systems which utilize analog audio and multiplexed controls including the Space Shuttle interior communications and C-17 Integrated Radio Management System . The first secure Digital Airborne Communication Management System (DCMS), for large C2 programs like J-Stars, the first open architecture fiber optics based secure Communication Management Systems (TCOMSS) for systems such as NATO AWACS and the UK Nimrod, and a 3rd generation Secure all digital ICS System (SDI) for medium and less complex systems such as C-130 Amp and the Blackhawk Helicopter.

In addition to the ICS area, achievements included responsibility for the successful technical proposal for Communication System Integration on the UK Nimrod MRA4 maritime patrol aircraft. This includes system design and functional responsibility for the entire communication system including the various radios, data links, agile filters and other RF components as well as the ICS system.

He has worked for Sperry and Ford Instrument Company, was a Research Assistant on the MIT Electrical Engineering staff and was subsequently a Lincoln Labs staff member.

Mr. Oken holds a BSEE from City College of New York and an MSEE from Massachusetts Institute of Technology. He is a member of ETA KAPPA NU, TAU BETA PI, and SIGMA XI. He has been awarded 6 Patents for technical innovations on interior communication systems

Region 1 Awards



Dr. Yuanyuan Yang
IEEE Region 1 Award
New Technical Concepts
in Electrical Engineering

"for significant contributions in multicast switching networks"

Yuanyuan Yang is a Professor of Electrical and Computer Engineering, with a joint appointment in Computer Science, at the State University of New York at Stony Brook, where she also directs the High-Performance Computing and Networking Research Lab. Dr. Yang received the BEng and MS degrees in computer science and engineering from Tsinghua University, Beijing, China, and the MSE and PhD degrees in computer science from Johns Hopkins University, Baltimore, Maryland.

Dr. Yang's research has generated various optimal designs for both network architectures and routing algorithms for multistage interconnection networks and direct networks in supporting collective communication in parallel and distributed computing systems. Her recent work focuses on the designs of optical switching network architectures and scheduling algorithms, and also involves performance modeling and analysis of these networks. In particular, her work in interconnection networks area has lead to solving long-standing open problems and obtaining classical results in multicast switching networks.

Dr. Yang has published about 100 papers in leading technical journals and conferences in parallel and distributed processing and networking areas. She is also an inventor/co-inventor of five U.S. patents in the area of communication networks, with two more patents pending. Her research has been sponsored by U.S. National Science Foundation, U.S. Army Research Office, and Computer Associates International, Inc.

She has served on several NSF proposal review panels and program/organizing committees of a number of major conferences in her field. She currently serves as the Program Vice Chair of 2003 International Conference on High Performance Computing (HiPC '03). In the past, she has served as the Program Chair of the Sixth International Conference on Computer Science and Informatics (CS&I 2002), the Program Vice Chair of 2002 International Conference on Parallel Processing (ICPP '02), and the Program Co-Chair of ICPP 2001 Workshop on Optical Networks.

Dr. Yang is an Associate Editor for the IEEE Transactions on Parallel and Distributed Systems, a lead guest editor for an Optical Networks Magazine special issue on Using Optics in Parallel and Distributed Computing and Communications, a Distinguished Visitor of IEEE Computer Society, a senior member of the IEEE and a member of the ACM, IEEE Computer and Communication Societies. Dr. Yang received the Best Paper Award at the 7th IEEE International Conference on Parallel and Distributed Systems in 2000, and is listed in Who's Who in America in 2003 and 2004. Her web page is at <http://www.ece.sunysb.edu/~yang>.



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.*



*Telephonics Corporation salutes the efforts of the
IEEE, Long Island Section
and
Congratulates all of the honorees.*

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815 Broad Hollow Road Farmingdale, New York 11735



Richard Augeri
IEEE Region 1 Award
New Technical Concepts
in Electrical Engineering

“For innovative contributions to uncooled infrared detection and low observable Technology”

Dr. Richard C. Augeri is a product of the New York City school system. He was born in Brooklyn and attended

CCNY receiving a BS degree in Physics, 1959. He received the PhD degree in Physics from the Polytechnic Institute of Brooklyn, 1973.

Dr. Augeri has worked as an antenna engineer at both the Sperry Gyroscope Company and Reeves Instrument Company. However, his primary employment was with AIL Systems Inc, Applied Electronics Division, Infrared and Electro-Optics Department. Dr. Augeri was a key member of the department responsible, for design and analysis of unique infrared instruments, systems and components and business development.

Technical contributions were made in areas that include, the development of state-of-the-art metal oxide metal tunnel diodes for infrared and millimeter wave detection, Fourier transform and etalon spectroscopy, infrared heterodyne spectroscopy for laser detection and atmospheric pollution monitoring, low observable technology, gamma ray imaging systems and infrared laser threat warning and direction of arrival systems. While at AIL Dr. Augeri was given the Eugene Fubini award for technical innovation. He was also the Technical Administrator of AIL's multi-million dollar internal research and development programs. He retired from AIL in 1997 after achieving the title of Engineering Fellow and formed his own consulting company.

Dr. Augeri is also associated with JJW Consulting as a principal investigator on several phase 1 and 2 SBIR programs that include a 94GHz Imaging system, a photonic crossbar switch in conjunction with a Rotman lens, and a 140GHz Imaging System.

Dr. Augeri has published 15 technical papers and has patents in uncooled BLIP detectors and Gamma Ray Imaging techniques.

Symbol Technologies Salutes

Bruce Willins

on receiving the 2003 Charles Hirsch Award

and congratulates all of the

IEEE Long Island Section Honorees

for their achievements and

contributions to the profession.



Symbol Technologies, Inc

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*Congratulations
to the
IEEE Long Island Section
Awardees*

BAE SYSTEMS



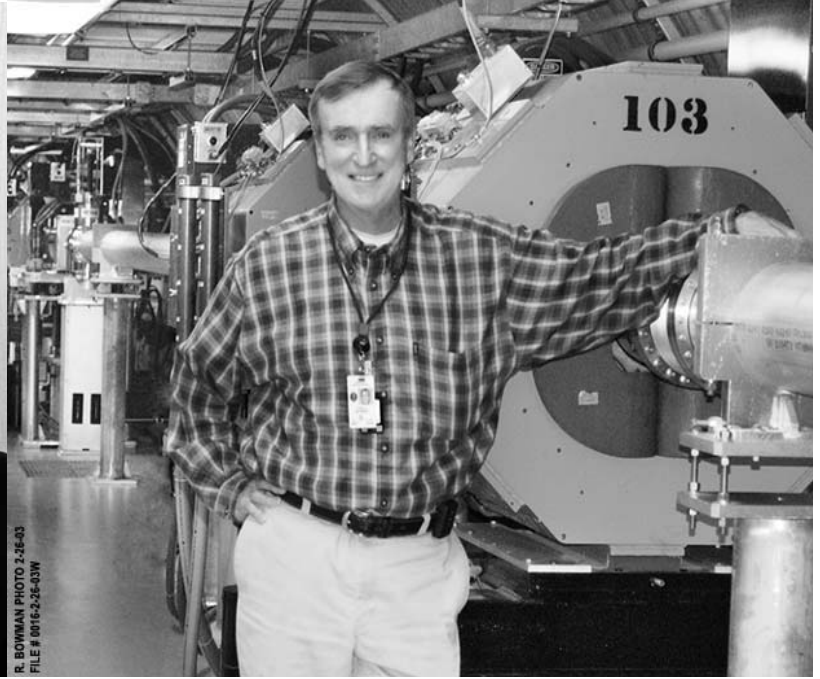
John F. Pedersen
IEEE Region 1 Award
Electrical Engineering Management

“ For outstanding technical and managerial leadership in the development of antenna systems ”

Mr. Pedersen is currently Manager, Project Engineering at BAE SYSTEMS facility in Greenlawn, N.Y. He is responsible for the development of specialized antennas and microwave systems at this division’s Advanced Development Center (formerly known as Wheeler Laboratory). This work began after graduation from City College of New York with a BSEE in 1969. He received a MSEE from New York University in 1974.

Among his more recent assignments as engineering or program manager include the following developments: CNI antennas for the Comanche Helicopter, a Smart Antenna System for use as an applique with cellular base station equipment, several UHF and VHF On-the- Move antennas for vehicular and wearable applications, specialized airborne reflectors for the MILSTAR Satellite System and a 20/44 GHz hybrid scan (1-d electrical/mechanical scan) antenna for the MILSTAR Satellite System.

His projects have been documented in a number of papers published in various antenna symposium. He is co-inventor of three US patents. He received the BAE SYSTEMS Chairmans Silver Award for Innovation for an antenna radio/system that is intended to make the US compliant with the UN Landmine Treaty.



Karl Sygall
IEEE Region 1 Award
Electrical Engineering Management

Andrew McNerney
IEEE Region 1 Award
Electrical Engineering Management

“For outstanding technical leadership in the development of military and space electronics”

Mr. Sygall is presently the Chief Engineer for the Defense Programs and Technologies Division of the EDO/ESG group. In that role he provides both technical oversight and management of all division programs, as well as the Research and Development efforts for the division, which includes both military and commercial products.

He has thirty-six years of experience at EDO/AIL in Electronic Warfare Programs. The majority of his experience was obtained in association with requirements development, system architectural design, design execution and flight test/integration phases of a multiplicity of electronic warfare programs. He is considered one of a handful of threat and ECM experts at EDO/AIL. His skills have been developed from programs such as the ALQ-99 Tactical Jamming Subsystem on the Navy’s EA-6B aircraft, the ALQ-161 self protect electronic countermeasures suite on the USAF B-1B bomber, as well as other classified programs for DOD.

His experience also extends into space products & technology. As Program Manager, he was responsible for the development, fabrication and test of a Millimeter Wave Multi-channel phase controlled MMIC power amplifier for the NASA HRUPAA Program. In addition, he manages multiple technology research and development programs for the division.

“For electrical engineering management of world class particle accelerator projects”

Andrew McNerney was born in Brooklyn, New York and earned BSEE and MSEE degrees from the Polytechnic Institute of Brooklyn. He has been employed at Brookhaven National Laboratory (BNL) since 1965. At BNL, he has been engaged in a variety of electrical engineering assignments for high-energy particle accelerators and superconducting power transmission lines. He has developed multi-megawatt rf systems for proton linear accelerators, cryogenic insulation and high voltage bushings for superconducting power cables and power supply systems for rapid cycling synchrotron accelerators.

He has served as chief engineer and /or project manager for operating facilities and projects for the past 20 years. He is currently Associate Department Chairman for Operations in the Collider -Accelerator Department and Project Manager for the NASA Space Radiation Laboratory Project, which will provide a new experimental facility using heavy-ion beams for radiation effect studies for the NASA human-in-space program.

EDO Electronic Systems Group

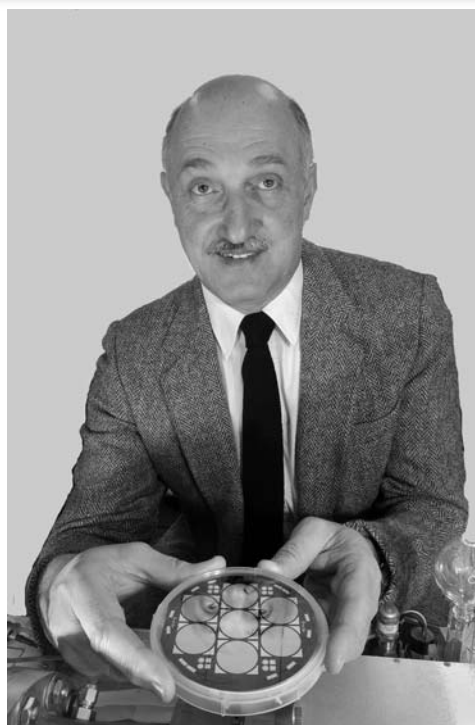
congratulates our award recipient

Karl Sygall

Region I Award for Electrical Engineering Management

*“For outstanding technical leadership
in the development of
military and space electronics”*

EDO Electronic
Systems Group
GLOBAL TECHNOLOGY REACH



Dr. Pavel Rehak
IEEE Fellow

“For contributions to the theory and development of particle and photon detectors”

Pavel Rehak is currently a physicist at the U.S. Department of Energy's Brookhaven National Laboratory in Upton, NY.

Rehak invented a device called the silicon drift detector with Emilio Gatti, a physicist at the Polytechnic Institute in Milan, Italy. This device has been used in many high-energy physics experiments – the most recent ones being the STAR detector at Brookhaven's Relativistic Heavy Ion Collider (RHIC) and the future ALICE experiment at CERN – to detect charged particles. Silicon drift detectors are also used in electron microscopes to determine the nature of atoms in materials, and in astronomical projects such as the European Space Agency's X-ray Multi-Mirror Newton (XMM Newton) satellite, the most powerful x-ray telescope ever placed in orbit.

Rehak's silicon detectors won him a BNL Distinguished Research and Development Award, the highest honor in the Laboratory's employee awards program, in 1997, and an IEEE Region 1 Award for contributions to particle physics research in 1999.

Rehak holds two Ph.D.s in physics: one from Charles

University in Czechoslovakia, and the other from the Scuola Normale Superiore in Pisa, Italy. After working as a visiting scientist in the Kernforschungszentrum (Center for Nuclear Physics) in Karlsruhe, Germany, from 1972 to 1973, and as an assistant professor at Yale University from 1973 to 1976, he joined Brookhaven Lab in 1976, first in the Physics Department from 1976 to 1995, and then in the Instrumentation Division since 1995. Rehak holds three patents and has authored more than 150 publications in refereed scientific journals.

Dr. Rehak States: "This nomination represents a very nice recognition of my past technical and professional achievements, which would not have been possible without the support and help of my colleagues at Brookhaven, the Max Planck Institute for Physics in Munich, CERN — the European Laboratory for Particle Physics — and last but not least, the Polytechnic Institute of Milan."



IEEE facts

IEEE Long Island Section (LIS) facts

- The LIS originated as an Institute of Radio Engineers (IRE) chapter in 1947.
- The LIS became a full section of the IRE in 1953. 2003 is the sections 50th anniversary.
- The LIS was formed by Jim Shepherd of Sperry.
- In 1954, Microwave Theory and Techniques became the first Professional Group Charter.
- In 1958, the Student Affairs Committee was formed.
- The LIS has over 2700 members.
- All LIS IEEE positions are staffed by volunteers.
- See www.IEEE.LI

Northrop Grumman

Salutes

William Rooney

A member of our Airborne Early Warning and Electronic Warfare Systems team in Bethpage and the recipient of the 2003 Long Island Section Alex Gruenwald Award for his "Dedicated Leadership in Promoting LI Section Activities," and all of this year's IEEE section award winners.

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Symbol Technologies, Inc.

Telephonics Corporation



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

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

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

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

IEEE

MEDALISTS

Henry Bachman
Leopold Felsen
Ivan Frisch
George Litchfold
Nathan Marcuvits
Anthony Papoulis
Mischa Schwartz

SECTION IEEE FELLOWS

F. R. Arams
E. Aslan
H.L. Bachman
M.Q. Barton
E. Baum
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
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
D. Richman
P. Richman
A.L. Rossoff
L.M. Roytman
W.L. Rubin
E.W. Sard
D.C. Schlere
L.S. Schwartz
L. Schwartzman
Y. Shamash
L.G. Shaw
S.M. Shinnars
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
D.J. Taub
J.L. Trautman
B.F. Tyson
C.C. Wang
D.E. Weissman
J.J. Whelehan, Jr.
G.S. Wickizer
D.C. Youla
(Others in the Section)
J.E. Boughtwood
S.S.L. Chang
L.B. Felson
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

OUTSTANDING YOUNG ELECTRICAL ENGINEER

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

USAB AWARDS

Harvey Altstadter
Robert Bruce
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

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

1988

George Hachbrueckner

1987

Bertram Aaron

Robert Hong

1986

George Emelio

Louis Luceri

John Persich

Edwin Pillar

Donald Schilling

Alexander Schure

1985

Henry Bachman

Angelo Orazio

Karle Packard

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

1983

Robert L. Wendt

Victor G. Zourides

1982

Ronald B. Hirsch

Louis H. Pighi

Arnold Rubin

1981

S.J. Nuzzo

1980

Henry Blackstone

Thomas J. Downey

REGION 1

AWARDS

Scott Abrams
George Alikakos
Harvey Altstadter
Henry Bachman
Robert Barden
Babak Beheshti
Charles Berger
John Beukers
Stephan Jon Blank
Nader Bolourchi
Thomas Campbell
Frank Cassara
Bernard Cheo
Peter Djuric
Melvyn Drossman
Matthew Dwork
George Eichman
Paul M. Eyring
Arthur Faverio
Joseph Fragola
Harvey Glass
Michael Green
Shahe Halajian
Richard Hines
Robert Hong
Ivan Kadar
Leonard Kahn
Richard Knadle
Richard Koch
Richard LaRosa
L.I.F.T.
Alfred Lopez
Roderic Lowman
Peter Lubell
Louis Luceri
Edward Magill
Velio Marsocci
Daniel Mazziata
Donald Neuf
Donald Neuhaus
James Onorato
Eduardo Palacio
J.B. Parekh
John Persich
Lazaros Pavlidis
Bernard Payton
John Pierro
Walter Poggi
Pavel Rebak
Paul Richman
Ronald M. Rudish
Henry Ruston
Frederick Schuessler
Murray Simpson
Graham Smith
Joel Snyder
Martin Somin
Jerome Swartz
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
Victor Zourides

SECTION

CHAIRMEN

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