

IEEE Long Island Section 2013 Annual Awards Ceremony

MESSAGE FROM THE CHAIRMAN



IEEE Members and Guests,

As Chair of the IEEE Long Island Section, I'm both privileged and honored to welcome each of you to the 2013 IEEE Long Island Section Awards Banquet. We've gathered to recognize and honor outstanding engineering achievements of our members and colleagues, and to commemorate the 60th anniversary of the IEEE Long Island Section.



For our guests, the Long Island Section of the IEEE, or Institute of Electrical and Electronics Engineers, is the largest engineering society on Long Island, with about 2500 engineering, science and other technical professionals. We are a key part of IEEE Region 1,

with more than 30,000 members in the Northeastern US. And our ten regions comprise nearly a half million members globally. The IEEE is the world's largest professional association dedicated to advancing technological innovation and excellence for the benefit of humanity.

Our Awards Banquet recognizes outstanding Long Islanders who have made significant engineering contributions. We'll recognize those Executive Committee volunteers who have made contributions to our Section, including past section officers, as well as officers of technical society chapters, affinity groups and other functions and activities, including technical conferences. We'll also present various Section awards, which are named in honor of key members from our past 60 years, and vetted by our Awards Nomination Committee Chair, Jesse Taub and his committee members. We'll then present awards at the Regional level. And we are also proud to honor tonight a new IEEE Fellow, a distinction reserved for select IEEE members whose extraordinary accomplishments in an IEEE field of interest are deemed fitting of this prestigious grade. My sincere congratulations go out to each and every award recipient!

These contributions and achievements have impact on improving our lives. Representatives of our government have chosen to acknowledge this with proclamations and citations, some printed in our Program and some to be announced to us all, here tonight. My gratitude goes out to the offices and representatives of NY State Governor, County Executives and Legislators, who support engineering, technology and business here on Long Island.

We are also honored to have with us tonight, Mr. Robert A. Williams, Vice President of Standards at UL (Underwriters Laboratories), who will present his keynote address, "The Role of Standards in Today's Society and Economy". This is a subject of relevance, interest and significance to all of us in many ways.

And such a significant event could not possibly be arranged without the commitment and tireless effort of our Awards Banquet committee, including our other Executive Committee officers John Schmidt (1st Vice Chair), John Vodopia (2nd Vice Chair), Nazrul Islam (Secretary), and Metodi Filipov (Treasurer), who are all rookies, and rookies of the year, as well as past officers including Susan Frank, Nick Golas and Sandy Marzola. Please join me in thanking them all.

We hope you enjoy our printed Program, thanks to the fine work of John Schmidt. And in commemoration of our 60th anniversary, please note our special insert by Nick Golas, with historical perspective from our Historian, Jesse Taub and remembrances from our Lifetime Achievement Awardee, Rod Lonman. We also hope you enjoy our video graphics, thanks to Metodi Filipov and his Hofstra student team.

Please enjoy the banquet, but retain some energy to attend the International Energy and Sustainability Conference at Farmingdale State College tomorrow, and to find out more about other upcoming conferences including LISAT, the Long Island Systems, Applications and Technology Conference in May. Additional information can be found in our Program.

Our gratitude also goes out to our corporate supporters and other donors, whose financial support, facilities and other resources allows us to continue to provide essential technical programs and professional development activities. Thanks go out to Nick Golas for his dogged pursuit. Please join me in thanking each of these supporters, who are shown in the Awards Banquet Supporters Honor Roll in our Program and other displays.

And I'd just like to leave you with one added thought. Tonight we recognize and honor those who have made significant contributions and achievements. And these pave the way for those who will come after us, including our children, our future. We in the IEEE LI Section support the education of future engineers through initiatives such as STEM, Science Technology Engineering and Math. Our mission is our future, and our future is mission critical.

Again, my congratulations go out to all of our 2013 Awardees. And my thanks also go out to all of our IEEE Long Island Section members and our other guests here this evening. Please enjoy!

Best Regards,

Thomas Lanzisero, P.E.
Chair, IEEE Long Island Section
chair@IEEE.LI

IEEE Long Island Section Awards Ceremony

Thursday March 21nd, 2013

Keynote



Robert A. Williams
*Vice President -
Standards
Underwriters Laboratories, Inc.*
**“The Role of Standards in To-
day’s Society and Economy “**

Mr. Williams is Vice President, Standards with Underwriters Laboratories Inc. (UL). He has global responsibility for UL’s standards development process.

Mr. Williams joined UL in 1973 in the Administrative Division. He has held a number of positions of increasing responsibility within UL’s Administrative and Engineering Divisions before promotion to his present position in 2006.

Mr. Williams interacts regularly with trade associations, government agencies, national, regional and international standards developing organizations, and inspection authorities as part of his responsibility for managing UL’s standards activities.

Mr. Williams is formerly a member of ANSI National Policy Committee (NPC) and International Policy Committee (IPC); previous past Vice President-Technology of the US National Committee to the IEC, in that capacity Mr. Williams was Chair of the USNC Technical Management Committee and US Representative to the IEC Standards Management Board. Mr. Williams is currently a member of the USNC Council Board where he is the Vice President- Financial Matters; and Member of the ANSI Appeals Board.

In prior years Mr. Williams has served as a member of Code Panel 1 to the US National Electrical Code published by the National Fire Protection Association; the Executive Standards Council of the American National Standards Institute (ANSI), and Treasurer of CANENA, where he worked to develop guidelines for preparation of North American regional standards.

Mr. Williams was awarded the 2011 Howard Coonley Medal for his work in voluntary standardization and conformity assessment. Mr. Williams is also a member of ANSI’s Board of Directors.

Mr. Williams holds a bachelor’s degree in business administration and a master’s degree in industrial relations from Loyola University, Chicago.

Agenda

6:00 PM Guest Arrival, Hors d’oeuvres

7:00 PM Call to Order, Welcome
Thomas Lanzisero
Chairman, IEEE LI Section

Government Representatives

Keynote Address:
Robert Williams
Vice President, Standards
Underwriters Laboratories

IEEE Long Island Section
Volunteer Recognition
Past Chair Honor Call
Thomas Lanzisero
Chairman, IEEE LI Section

IEEE Long Island Section Awards
Thomas Lanzisero
Chairman, IEEE LI Section

Dinner

Dessert and Coffee

IEEE Region 1 Awards
Peter Eckstein, Director, IEEE Region 1

METSAC Awards

IEEE Fellow Award
Peter Eckstein, Director, IEEE Region 1

Closing Remarks
Thomas Lanzisero
Chairman, IEEE LI Section





Congratulations to this Year's Award Recipients!

IEEE Long Island Section Awards

Alex Gruenwald Award: **Mr. Scott B. Abrams**

Athanasios Papoulis Award: **Dr. Babak Beheshti**

Charles Hirsch Award: **Dr. John Smedley**

Harold Wheeler Award: **Mr. Walter Poggi**

Friend of the IEEE LI Section: **The College of Engineering and Applied Sciences of Stony Brook University**

Outstanding Student Chapter Award: **Hofstra University Student Chapter**

Outstanding Young Engineer Award: **Mr. Rafael M. Perez**

Outstanding Volunteer of the Year Award: **Mr. Garry Z. Gu**

Lifetime Achievement Award: **Mr. Roderic Lowman**

IEEE Region 1 Awards

For Technological Innovation (Industry or Government): **Mr. Marc Frankel**

For Technological Innovation (Industry or Government): **Dr. Zheng Li**

For Technological Innovation (Industry or Government): **Mr. David Mesecher**

For Managerial Excellence in an Engineering Organization: **Mr. John Cosenza**

For Managerial Excellence in an Engineering Organization: **Mr. Eric Darvin**

For Managerial Excellence in an Engineering Organization: **Mr. John Nastro**

For Excellence in Leadership to the Region 1 of the IEEE: **Dr. Charles Rubenstein**

IEEE Fellow Award

Mr. Glenn Zorpette



STATE OF NEW YORK
EXECUTIVE CHAMBER
ALBANY 12224

ANDREW M. CUOMO
GOVERNOR

March 21, 2013

Dear Friends:

It is a pleasure to send greetings to everyone gathered for the Annual Awards Banquet of the Institute of Electrical & Electronics Engineers (IEEE) Long Island Section.

New York State values resources that promote the interests of professionals within a particular industry. The IEEE supports and facilitates the research, design, and implementation of work carried out by individuals specializing in electrical and electronics engineering – areas critical to the progress of modern civilization.

This event celebrates your 60 years of service to the professional community on Long Island and honors forward-thinking individuals who have developed innovative solutions to problems, as well as groundbreaking new discoveries. I join in congratulating them for outstanding achievements within their given area of expertise and applaud all for improving the quality of life for people worldwide.

Warmest regards and best wishes for an enjoyable evening.

Sincerely,

A handwritten signature in blue ink, appearing to read "Andrew M. Cuomo". The signature is stylized with a large, sweeping initial "A" and a long horizontal line extending to the right.

ANDREW M. CUOMO



Office of the County Executive
1550 Franklin Avenue
Mineola, New York 11501



Dear Friends,

I am pleased to join all of you who have gathered to celebrate the 60th Anniversary of the Long Island Section of the Institute of Electrical and Electronics Engineers on the occasion of their Annual Awards Banquet.

Long Island Section of the IEEE has earned the admiration and respect of those in their community, working diligently to provide vital programs and services that contribute to the quality of life in Nassau County.

This wonderful organization is to be commended for providing the means through which generous acts of public service and hours of dedication can be demonstrated.

Please accept my best wishes and let me extend hearty congratulations to this evening's honored guests: Scott Abrams, Dr. John Smedley, Roderic Lowman, Dr. Babak Beheshti, Walter Poggi, Rafael Perez, Gary Gu, The College of Engineering and Applied Sciences of Stony Brook, Hofstra University Student Chapter, John Cosenza, Eric Darvin, Marc Frankel, Dr. Zheng Li, David Mesecher, John Nastro, Dr. Charles Rubenstein and Glenn Zorpette, for their outstanding leadership and guidance, and to all of you who work toward forwarding the goals of this fine organization throughout the year.

Best wishes for continued success in all your endeavors.

Sincerely,

*Edward P. Mangano
County Executive*



IEEE Long Island Section

2013

SECTION OFFICERS

CHAIR: Thomas Lanzisero, UL

1st VICE CHAIR: John Schmidt, Product Support Solutions

2nd VICE CHAIR: John Vodopia

TREASURER: Metodi Filipov

SECRETARY: M. Nazrul Islam, Farmingdale State College

JUNIOR PAST CHAIR: Susan Frank, PhD, CSDP

SENIOR PAST CHAIR: Nikolaos Golas

SOCIETY CHAPTER CHAIRS

Aerospace & Electronic Systems: Dave Mesecher, Northrop Grumman
Vice Chair: Herb Chin, Northrop Grumman

Antennas and Propagation: Bryan Tropper, Exelis

Circuits and Systems: Kenneth Schneider, Telebyte

Vice Chair: Arthur Williams, Telebyte

Communications: Lawrence Hausman

Computer: Metodi Filipov

Electromagnetic Compatibility: Santo Mazzola, BAE Systems

Vice Chair: Robert DeLisi

Engineering in Medicine and Biology: John Vodopia

Instrumentation & Measurement: Terry Stratoudakis, ALE

Vice Chair: Ephraim Adeola, Aeroflex

Microwave Theory & Techniques: Eric Darvin, L-3 Communications

Vice Chair: Saikumar Padmanabhan, Frequency Electronics

Nuclear & Plasma Sciences: Shaorui Li, Brookhaven National Labs

Vice Chair: Graham Smith

Photonics Society: M. Nazrul Islam, Farmingdale State College;

VC: Adam Filios, Farmingdale State College

Power and Energy Society/IA Society: Lou D'Onofrio, Vice Chair: Rob Schmid

Product Safety Engineering Society: Aziz Orumbaev, UL

Vice Chair: Thomas Lanzisero, UL

Signal Processing: Garry Gu, Telephonics

Society on Social Implications of Technology: Victor Zourides

Vice Chair: Dan Rogers

Technology Management Council: Brian Quinn, Verizon

ACTIVITY AND AFFINITY CHAIRS

Awards Committee: Jesse Taub, Consultant

Consultants Network of Long Island: Terry Stratoudakis, ALE

Educational Activities: Steve Taranovich, Vice Chair: Uma Balaji

Employee Assistance Committee: Charles Pleckaitis, Mary Rothberg

GOLD Program: Adam Chalson, Telephonics; VC: Rob Schmid

Historian: Jesse Taub, Roderic V. Lowman

Historical Milestones Committee: "First Blind Flight" - Mort Hans

"Nikola Tesla's Wardenclyffe Lab" - Victor Zourides

Legal Affairs Chair: John Vodopia; Vice Chair: Steven Rubin;

Life Member Affinity Group: Robert Blosser

LIMSAT: Frederick Kruger, Kruger Associates Inc.

LISAT Conference: Dan Rogers, Telephonics

Co-Chair: Charles Rubenstein, Pratt Institute

Membership Development: Nikolaos Golas, Vice Chair: Sandy Mazzola

PACE: Nikolaos Golas, Vice Chair: Ahmad Haque

Professional Society & Industry Liaison: Bill Wilkes

Vice Chair: Dave Mesecher

Public Relations Chair: John Peterson, Peterson Associates

Pulse Newsletter Editor: Allison Rubin; Associate Editor: Nikolaos Golas

Student Activities: James Voulgarakis; VC: Michael Co, Cox&Co.

Tellers Committee: John Peterson, Peterson Associates

Webmaster: James Colotti, Telephonics Corporation, John Schmidt,

Women In Engineering: Uma Balaji, Farmingdale State

Vice Chair: Lyubov Kn-Renselaer

STUDENT BRANCH OFFICERS

Stony Brook University: President: Amit Shah; VP: Athena Marnaris

EX OFFICIO OFFICERS

Region 1 Director: Peter Eckstein

Southern Area Chair: Robert Pellegrino

METSAC Chair: Nikolaos Golas

2012

SECTION OFFICERS

CHAIR: Susan Frank, PhD, Certified Software Development Professional

1st VICE CHAIR: Robert Berger, National Instruments

2nd VICE CHAIR: David Bomzer, Day Pitney LLP

TREASURER: Plato Apergis, RFI Corporation

SECRETARY: Thomas Lanzisero, UL

JUNIOR PAST CHAIR: Nikolaos Golas, Telephonics

SENIOR PAST CHAIR: Jon Garruba, Northrop Grumman Corporation

SOCIETY CHAPTER CHAIRS

Aerospace & Electronic Systems: Dave Mesecher, Northrop Grumman
Vice Chair: Herb Chin, Northrop Grumman

Antennas and Propagation: Stephen Price; VC: Bryan Tropper, Exelis

Circuits and Systems: Kenneth Schneider, Telebyte

Vice Chair: Arthur Williams, Telebyte

Communications: Lawrence Hausman; VC: T. David Bomzer

Computer: Metodi Filipov; VC: Roy Wang, Secretary: James Megna

Electromagnetic Compatibility: Santo Mazzola, BAE Systems

Vice Chair: Plato Apergis, RFI Corporation

Engineering in Medicine and Biology: John Vodopia

Instrumentation & Measurement: Terry Stratoudakis, ALE

Vice Chair: Ephraim Adeola, Aeroflex

Microwave Theory & Techniques: Eric Darvin, L-3 Communications

Vice Chair: Saikumar Padmanabhan, Frequency Electronics

Nuclear & Plasma Sciences: Shaorui Li, Brookhaven National Labs

Vice Chair: Arlene Zhang, Brookhaven National Labs

Photonics Society: M. Nazrul Islam; VC: Adam Filios

Power and Energy Society/IA Society: Matthew Nissen, Sigma Energy

Vice Chair: Lou D'Onofrio

Product Safety Engineering Society: Thomas Lanzisero, UL

Vice Chair: Aziz Orumbaev

Signal Processing: Garry Gu, Telephonics

Society on Social Implications of Technology: Victor Zourides

Vice Chair: Ron Price

Technology Management Council: Brian Quinn, Verizon

ACTIVITY AND AFFINITY CHAIRS

Awards Committee: Jesse Taub, Consultant

Consultants Network of Long Island: Terry Stratoudakis, ALE

Educational Activities: Steve Taranovich, Vice Chair: Uma Balaji

Employee Assistance Committee: Charles Pleckaitis, Mary Rothberg

GOLD Program: Adam Chalson, Telephonics; VC: Rob Schmid

Historian: Jesse Taub, Roderic V. Lowman

Historical Milestones Committee: "First Flight" - Mort Hans

"Tennis for Two" - Ralph James, Arlene Zhang

Legal Affairs Chair: John Vodopia

Vice Chair 1: Steven Rubin; Vice Chair 2: T. Dave Bomzer

Life Member Affinity Group: Robert Blosser

LIMSAT: Frederick Kruger, Kruger Associates Inc.

LISAT Conference: Dan Rogers, Telephonics

Co-Chair: Charles Rubenstein, Pratt Institute

Membership Development: Nikolaos Golas, VC: Sandy Mazzola

PACE: Ahmad Haque, Vice Chair: Nikolaos Golas

Professional Society & Industry Liaison: Bill Wilkes

Vice Chair: Dave Mesecher, NGC; Charles Pleckaitis

Public Relations Chair: John Peterson, Peterson Associates

Pulse Newsletter Editor: Allison Rubin; Assoc. Editor: Nikolaos Golas

Student Activities: Michael Co, Cox&Co.; VC: James Voulgarakis

Tellers Committee: John Peterson, Peterson Associates

Webmaster: James Colotti, Telephonics Corporation, John Schmidt

Women In Engineering: Uma Balaji, Farmingdale State

Vice Chair: Lyubov Kn-Renselaer

STUDENT BRANCH OFFICERS

Hofstra University: President: Steven Miller; VP: Waqqas Khan

Stony Brook University: President: Justin Mandurano; VP: Seong Kang

Farmingdale State College: Jonathan Bovea, John Viggiano

EX OFFICIO OFFICERS

Region 1 Director: Peter Eckstein

Southern Area Chair: Robert Pellegrino

METSAC Chair: Nikolaos Golas



UL CONGRATULATES THE 2013 IEEE AWARD RECIPIENTS

In an ever-changing world of products and technology UL will always equal safety. As the complexity of products grows, UL is responding by developing and testing to new standards that address the ways that today's products work, including testing safety, performance and sustainability. And with UL's broad range of services, including global market access, you can more efficiently access key markets around the world. That's why for more than 116 years, manufacturers have partnered with UL and trusted our vast technical expertise to test, verify and inspect products before they arrive in the market. So with UL, no matter where you go in the world, you can be confident that you're working with standard in safety.

VISIT WWW.UL.COM TO LEARN MORE.

UL and the UL logo are trademarks of UL LLC © 2013



CONGRATULATIONS

We offer congratulations to all the honorees at the

**2013 IEEE Long Island Section
Annual Awards Banquet,**

and special recognition to

**Walter A. Poggi,
President of Retlif Testing Laboratories,**

recipient of the Harold Wheeler Award for outstanding
technical and managerial accomplishments.



A leader in EMC and Environmental Simulation testing since 1978

795 Marconi Avenue, Ronkonkoma, NY 11779 USA
Tel: (631) 737-1500 • Fax: (631) 737-1497 • www.retlif.com • E-mail: sales@retlif.com
Additional locations in New Hampshire, North Carolina, Pennsylvania & Washington D.C.



Long Island Section Awards



Alex Gruenwald Award

SCOTT B. ABRAMS

The Omnicon Group

“For Encouraging Young People to Pursue Engineering and his Exemplary Leadership and Technical Contributions to Reliability Engineering”

Scott B. Abrams founded The Omnicon Group in 1984—the same year he received his M.S. in Electrical Engineering from Polytechnic Institute of New York University, and only four short years after graduating with a B.E. in Electrical Engineering from Stony Brook University. Today, with customers in North America, Europe, and Asia, The Omnicon Group is one of the nation’s leading engineering firms specializing in systems, software, hardware, reliability, safety and test engineering for mission, revenue and safety-critical software, equipment or systems.

Scott has been dubbed “Mr. Reliability” by the LI Business News, and “The Gizmo Doctor” by the NY Times. He has received many awards including: induction into LI Technology Hall of Fame as “LI Technology Entrepreneur and Rising Technology Leader,” honored as a “Distinguished Alumni” of Stony Brook University, named “Reliability Engineer of the Year” by the IEEE Reliability Society, and recipient of Region 1 Award from the IEEE for creative contributions to and encouragement of electrical engineering students. Likewise, The Omnicon Group has received numerous awards including three years in a row being named one of Long Island’s fastest growing technology companies by Deloitte & Touche, sponsor of the “Long Island Technology Fast 50.”

As President and Chief Executive Officer of The Omnicon Group, Scott continues to lead a dedicated and skilled team servicing technology companies throughout the world by analyzing and improving the reliability and safety of their products, developing robust systems, software and hardware, and providing comprehensive test engineering solutions. Over the years, long term relationships have been built with customers in diverse industries such as aerospace, communications, transportation, defense, information technology, energy, and medical technology.

Scott is also an elected member of the IEEE Reliability Society Administrative Committee and an appointed member of the IEEE Committee on Transportation and Aerospace Policy.



Athanasios Papoulis Award

DR. BABAK BEHESHTI

New York Institute of Technology

“For Passion and Dedication to Teaching and Motivating Students to be the Best Engineers and Technologist that they can be”

Babak D. Beheshti, PhD is the Associate Dean of the School of Engineering and Computing Sciences, New York Institute of Technology; where he has served since 1987. In this capacity, he has built and maintained relationships with system-wide academics to ensure that all programs remain current and meet student needs; as well as creating and participating in multiple initiatives in improving recruitment and retention of students at undergraduate and graduate levels locally and globally.

Babak has been active in the industry having held positions as manager, director and vice president in several technology companies. Babak’s over 20 years of experience in R&D for embedded systems and wireless technology industry, include positions where he successfully managed joint R&D programs with many Asian, European and US companies and Government organizations including Siemens Mobile, KDDI and LG.

Babak’s areas of interest include wireless sensor networks, embedded real time systems, wireless and cellular systems, and digital signal processing. Babak has been an active member of IEEE since 1991 having held positions at section, region and major board levels. He is currently Vice Chair of Member Development in the Member and Geographic Activities Board (MGA - B) of IEEE, as well as Chair of MGA Nominations and Appointment Committee (N&A) and member of IEEE N&A Committee.

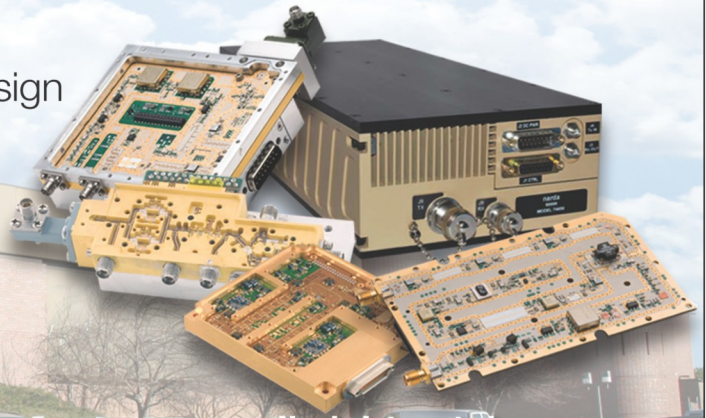
Babak is a recipient of the IEEE Millennium Medal and three IEEE Region 1 Awards, including the IEEE Region 1 Technical Innovation Award “For Providing Technical Leadership in the Development of State-of-the Art Reconfigurable Wireless Technologies”, 2009; and the IEEE Long Island Section, Charles Hirsch Award for Noteworthy Contributions to Reconfigurable Wireless Technology, 2008.

Babak is Chair of ETD Technical Program Committee of the ASEE CIEC 2013 Conference, member of the technical program committee of SDR’12.

L3 Communications, Narda Microwave-East Congratulates
Eric Darwin, Recipient of the 2013 IEEE Region 1 Award

Managerial Excellence in an Engineering Organization

In acknowledgement of his Technical Contributions and Leadership in the design of wideband receiver subsystems and components.



Narda Integrated
Microwave Assemblies

narda

Six decades of technological innovation

an  company

www.nardamicrowave.com • 631.231.1700

CONGRATULATIONS

to our **2013 IEEE Award Recipients!**

Mr. Garry Gu

OUTSTANDING VOLUNTEER OF THE YEAR AWARD

Mr. Marc Frankel

OUTSTANDING TECHNICAL CONTRIBUTIONS IN
IFF TRANSMITTER TECHNOLOGY

We are an Equal Opportunity Affirmative Action Employer, M/F/D/V



ADVANCED TECHNOLOGY WITH A GLOBAL REACH

www.telephonics.com

Long Island Section Awards



Charles Hirsch Award

DR. JOHN SMEDLEY

Brookhaven National Laboratories

“For Contributions to the Advancement of Photocathode Technologies”

John Smedley is a Physicist in the Instrumentation Division of Brookhaven National Laboratory. His research interests span accelerator physics, photoemission theory and materials science. He has been developing novel photocathodes for accelerator photoinjectors for almost twenty years, including pioneering of a superconducting lead photocathode and work on the photocathode for the Linac Coherent Light Source at SLAC. He is involved international accelerator collaborations on photocathode growth and development for the X-ray Free Electron Laser and Berlin-Pro. He has developed real-time thin film analysis tools for in situ monitoring of semiconductor cathode growth. In addition, Dr. Smedley has recently been involved in work with diamond as both an electron source and an x-ray beam monitor for next generation synchrotron light sources. He is a user of several of the major Department of Energy user facilities, including the National Synchrotron Light Source, where he sits on the user executive committee. He is a coauthor on over 80 publications, has taught photocathode physics for the US Particle Accelerator School, and has given numerous invited lectures both nationally and abroad.

Smedley earned a B.A in physics and mathematics at Johns Hopkins University in 1994, and a Ph.D. in accelerator physics from Stony Brook University in 2001. He officially joined Brookhaven National Laboratory in 2001. Both the DOE office of Basic Energy Science and the office of High Energy Physics graciously support Dr. Smedley's work.



Harold Wheeler Award

WALTER POGGI

Retlif Testing Laboratories

“For Outstanding Technical and Managerial Accomplishments during the more than 30 Years of Retlif Testing Laboratories”

Walter A. Poggi is president of Retlif Testing Laboratories a 33 year old independent testing laboratory providing conformity assessment and product approval testing services in the areas of Electromagnetic Compatibility, Telecommunications, Environmental Simulation, Acoustic Noise and Product Safety. Retlif Testing Laboratories maintains testing facilities in Ronkonkoma, Long Island, NY, Goffstown, NH, and Harleysville, PA, a regulatory office in Arlington, VA and a sales and engineering office in Charlotte, NC.

A strong advocate for the independent testing community, Mr. Poggi is deeply involved in the American Council of Independent Laboratories (ACIL) this country's leading trade association representing the interests of independent laboratories. Mr. Poggi is a Past President of ACIL and currently holds the position of Vice Chairman of the Government Affairs Committee. In recognition of his service to the independent testing community, Mr. Poggi received the 1994 ACIL "Roger S. Trusdall" Award for outstanding service to the independent testing community. In October of 2005, Mr. Poggi received ACIL's "Lewis E. Harris Fellow Award" for outstanding contributions to ACIL and the independent testing industry. Being the highest award ACIL bestows, only 14 have been awarded in ACIL's 73 year history.

Beyond his ACIL involvement, Mr. Poggi is a member of numerous trade, engineering and business associations, such as the Long Island Forum for Technology (Board Member), the MacArthur Business Alliance (Past President), the Institute for Electronic and Electrical Engineers, the Society of Automotive Engineers and the Navy League (Corporate Life Member). In 1998, Mr. Poggi received the IEEE's Region One Award "For Developing Industry Initiatives in EMC Supporting the International Acceptance of U.S. Products". Mr. Poggi is also a trustee at his local church.

Mr. Poggi is a graduate electrical engineer, receiving his B.S. degree from New York Institute of Technology in 1969. He has been certified by the National Association of Radio and Telecommunications Engineers (iNarte) as a Senior EMC Engineer and as a Senior EMC Design Engineer and also by the International Trade Association as a Certified Trade Expert.

Walter and his wife of 42 years, Marilyn live in Nesconset, NY, and have two grown children and five grandchildren.

The Long Island employees of Northrop Grumman applaud this year's Institute of Electrical and Electronics Engineers award winners, and the IEEE for all that it and its members contribute to the profession and to society. IEEE is the world's largest professional association dedicated to advancing technological innovation and excellence for the benefit of humanity. IEEE, including the 2,500-member Long Island Section, supports advancing technology and introduces technology careers to young people around the world.

THE VALUE OF PERFORMANCE.

NORTHROP GRUMMAN

www.northropgrumman.com
 ©2013 Northrop Grumman Corporation

The Omnicon Group Congratulates **SCOTT ABRAMS** and the other 2013 IEEE LI Section Award Recipients



Our award-winning engineers provide Engineering Solutions for YOUR Success

- **Comprehensive Hardware & Software Solutions by the Reliability Experts**
- **Reliability, Maintainability, and Safety Analyses to Make Good Products Better**
- **Turnkey, Customized Test Equipment to Streamline your Operations**

THE Omnicon
 GROUP INC.

Engineering Solutions for Success

40 Arkay Drive • Hauppauge, NY 11788 USA
 631-436-7918 • www.OmniconGroup.com

Long Island Section Awards



Friend of the IEEE Long Island Section Award THE COLLEGE OF ENGINEERING AND APPLIED SCIENCES OF STONY BROOK UNIVERSITY

“For Outstanding Efforts in Fostering IEEE on-campus Activities and Promoting the Benefits of Membership to Students and for Demonstrating a Continued Long Term Commitment to the Long Island Section of the IEEE ”

The mission of the College of Engineering and Applied Sciences is to promote excellence in education, research and public service. It seeks to deliver comprehensive high-quality undergraduate education that motivates students to exceed expectations; advanced graduate and professional education and research opportunities with faculty who are pioneering new pathways in their disciplines; leading-edge research programs that probe the frontiers of knowledge, propel progress in other disciplines and generate the technologies of tomorrow; and outreach and collaboration that transform and sustain the prosperity of innovation-based industry clusters, fueling the economic vitality of our region, state and nation.

Founded in 1960, the College is home to seven academic departments: Applied Mathematics and Statistics, Biomedical Engineering, Computer Science, Electrical and Computer Engineering, Materials Science and Engineering, Mechanical Engineering and Technology and Society. The College aims to provide students with a solid foundation that prepares them to adapt successfully throughout their careers to advances in technology. Hands-on laboratory courses, the undergraduate internship program, and the senior design project provide practical experience in engineering that complements theoretical training. As of 2012, the College is home to some 2,400 undergraduate students, 1,400 graduate students, and a faculty of 131 engineers and applied scientists. Annually, the College works with more than 80 companies on research and development projects, and its external research expenditures exceed 30M per year. It boasts more than 20,000 alumni.

Outstanding Student Chapter Award



HOFSTRA UNIVERSITY STUDENT CHAPTER

“For Starting an IEEE Eta Kappa Nu Honor Society and for Demonstrating a Clear Understanding of the IEEE Ideals of Ethics”

The IEEE Student Chapter at Hofstra University has been very active during the 2011-2012 academic year. The Chapter accomplishments can be described as follows:

- ◆ *We established the IEEE Tech Talk Seminar Series. The following speakers have been invited:*
 - ◆ *Dr. Sleiman R. Ghorayeb, “Ultrasonic Assessment of Extracellular Matrix in Healing Tendons”*
 - ◆ *Dr. David Klein, “Graphical Programming with App Inventor”*
 - ◆ *Dr. Robert Muratore, “Neuroengineering with Ultrasound: Neuromodulation Strategies for Safely Achieving Hebb's Criterion”*
- ◆ *Attended the 2012 Region 1 Student Conference in Hartford, CT, and won the First Place Ethics Competition.*
- ◆ *Entered the 12th IEEE RIT Student Design Contest.*
- ◆ *Entered the IEEEExtreme Programming Competition.*
- ◆ *Laid the ground work for the establishment and start of the new IEEE-Eta Kappa Nu Chapter at Hofstra, now known as the Lambda Xi Chapter.*
- ◆ *Hosted the first IEEE S-PAC student conference at Hofstra University. Two guest speakers delivered engaging presentations: Bala Prasanna, Senior Region 1 Executive Committee Member, spoke about Working in the 21st Century, and Jignasa Ray, Region 1 Student Activities Chair, discussed the subject of emotional intelligence. This S-PAC conference was part of the renewed efforts of Hofstra IEEE to become a more active student chapter in the coming years. As a result of this conference, we were able to increase student involvement as well as chapter activities and events.*
- ◆ *Established collaborations between other professional engineering organizations at Hofstra University as well as neighboring IEEE chapters.*
- ◆ *Provided tutoring to Hofstra students in Electrical Engineering.*



**The College of Engineering and Applied Sciences
and
The Department of Electrical and Computer Engineering
Congratulates All of the Long Island IEEE Awardees
For Their Many Contributions to the
Electrical Engineering Profession**

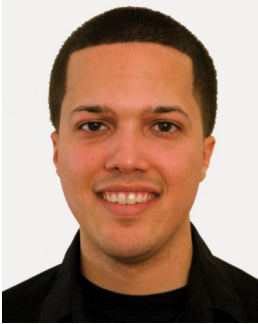
**PROUD TO SERVE OUR NATION –
AND OUR COMMUNITY.**

At BAE Systems, we're as committed to the communities where we live and work as we are to providing the world's most advanced defense electronics and information technology solutions. It's in this spirit that we congratulate the 2013 IEEE Long Island award recipients.

www.baesystems.com

BAE SYSTEMS

Long Island Section Awards



Outstanding Young Engineer Award

RAFAEL M. PEREZ

ITT Exelis

“For the Development of an Improved Frequency Modulator/Combiner for Advanced Jamming Systems”

Rafael Perez is an Analog/RF Engineer for ITT Exelis in Amityville, New York, where he specializes in electronic warfare and space sensor subsystems. It was here that Rafael received his debut opportunity as a lead design engineer working on the improvement of a frequency modulator/combiner subsystem for an advanced jammer. At the core of his competency are frequency synthesizer and mixed-signal designs integrated in advanced jamming and receiving systems, and also in space-borne transmitters and communication satellites.

At the very age of 18, Rafael joined the United States Marine Corps as a Field Radio Operator and reported to the reserve station in Amityville, NY. He endured two deployments to the war in Iraq and was honorably discharged at Sergeant.

Rafael has had a childhood passion for space exploration and technology and has been afforded several opportunities to contribute to the space community. From 2006 to 2008, he was employed under Frequency Electronics in Uniondale, New York, initially as an RF Technician, but then promoted to RF Engineer upon receipt of his bachelor's degree. There he supported ICO G-1 and TerraStar I & II communication satellite programs working on a variety of electronic circuits that includes oscillators, synthesizers, filters and amplifiers. Rafael currently works on an RF transmitter space payload assembly that will be used for performing ionospheric measurements.

Rafael earned a Bachelor of Science in Electrical Engineering Technology from Farmingdale State College. At Farmingdale, he was Vice President of the IEEE student club and participated in the 2004 Regional Micro Mouse Robotic Competition in Stony Brook, New York. Rafael recently earned a Master of Science in Space Studies with Honors from American Public University and is currently pursuing a Master of Engineering in Space Systems Engineering from Stevens Institute of Technology hoping to continue to expand his role in the space community.



Outstanding Volunteer of the Year Award

GARRY Z. GU

Telephonics

“For Revitalizing the IEEE Signal Processing Society Chapter, Making it One of the Best in the Long Island Section and His Contributions to Many other Section Activities”

Garry Z. Gu graduated from University of Toronto with an M.S. degree in Electrical. He began his career as an electrical design engineer with Bell-Northern Research, the research arm of Northern Telecom (Nortel Networks), and then progressively gained knowledge and experiences with various employment and consultant positions at Bell Labs/Lucent Technologies, L3 Communications, Qualcomm Flarion Technologies and Telephonics as well as with several technology startups.

Garry has written a list of well-referred IEEE publications in areas of Signal Processing and Satellite Imaging, mixed-mode IC design, and switch fabric IC design. He is a Senior IEEE member and served as a reviewer for several magazines including IEEE Transactions on Circuit and Systems.

After becoming a volunteer Chairman for the IEEE-LI's Signal Processing Society, he has organized a wide range of seminars and lectures crossing technical and academic fields of Signal and Image Processing, circuit and systems, and avionics safety design practices. In addition, he has contributed to various technical and educational activities for Long Island engineering community. He also serves as a member of Technical Program Committee (TPC) for the IEEE LIS.AT 2013 Conference. He enjoys helping other engineers with their professional development.

*ITT Exelis would like to congratulate the
2013 IEEE Long Island Section award recipients
for their contributions towards advancing
innovation and technical excellence.*

Mr. John Nastro

Managerial Excellence in an
Engineering Organization Award

Mr. Rafael M. Perez

Outstanding Young Engineer Award

ITT EXELIS

THE POWER OF INGENUITY



ATM

Advanced Technical Marketing
is Proud to Support the
Accomplishments and
Contributions to the Engineering
Profession of the

**2013 IEEE
Long Island Section
Award Recipients**

Gil Lipper

gil.lipper@atm1.com

516-319-1338

Russell Pepe

Vice President ATM /

Chair IEEE North Jersey Section

russell.pepe@atm1.com

SSI Spectrum Sales, Inc.

Electronic Engineering Representatives

Voice: 516-921-5750

Fax: 516-921-5776

Internet: www.spectrumsales.com

E-Mail: sales@spectrumsales.com

*With over 50 years of supporting
the RF and Microwave industry
on Long Island,
Spectrum Sales would like to
congratulate all of this year's
Honorees and Award Winners
for their continued contributions
to our Electronics community.*

Long Island Section Awards



Lifetime Achievement Award

RODERIC LOWMAN

AIL Systems (Retired)

***“For 70 Years of Exemplary Service to the IEEE
in a Wide Variety of Capacities”***

After growing up on a small dairy farm in Ohio and awarded a degree in Electrical Engineering from Ohio State, Rod came to Long Island in 1943 to join Harold Wheeler in the design of IFF equipment for aircraft in WWII at Hazeltine Corporation. After the war Rod delved into color television. He designed and patented a circuit for Automatic Brightness Control so that channels could be changed without readjustment (similar to AVC for radio). It has been used on most TV sets since.

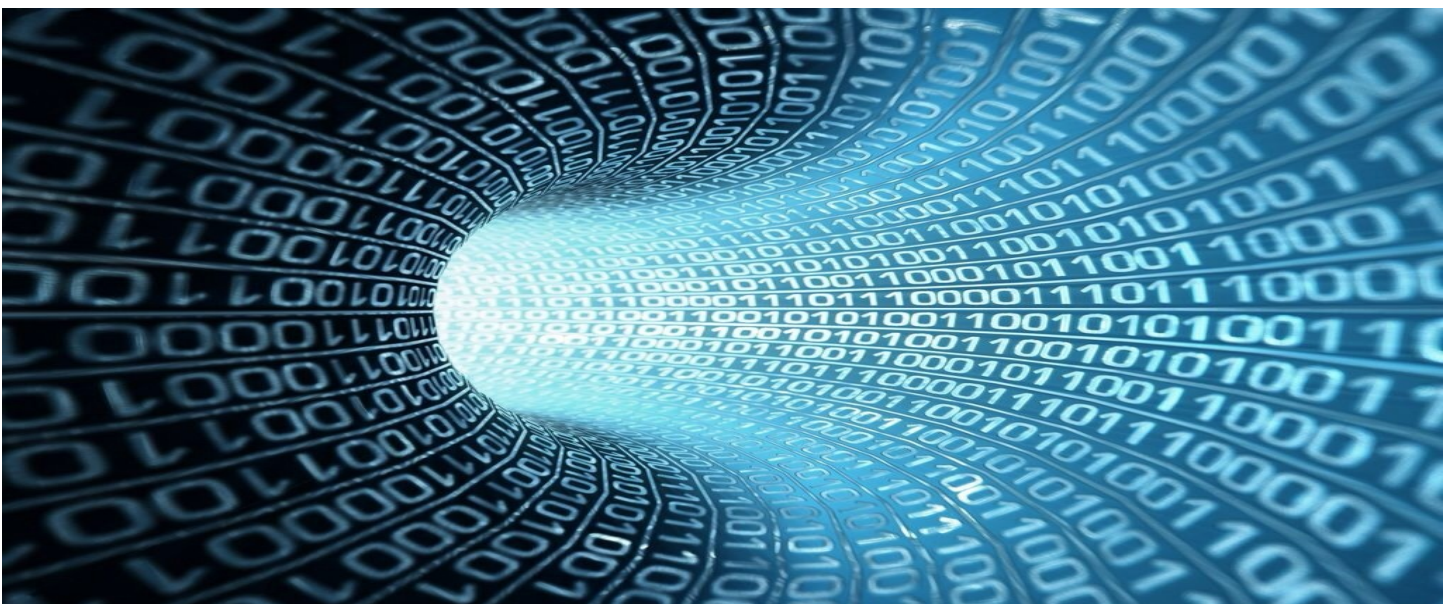
When Wheeler started his own company, Rod joined Wheeler Labs in the design microwave equipment. Returning to Electronic Defense in 1951, Rod Joined Airborne Instruments Lab. where he headed a group of uninhibited free thinkers who developed signal recognition and location techniques. Many of these were later built into systems. Gene Fubini used many in the AN/USD-7, Gregg Stephenson used some in the world's first satellite reconnaissance system and we used them in the surveillance system we designed for Lockheed's SR-71 mach 3 aircraft for overflying Russia and other hot spots.

At home we provided a home for an American Field Service student, Hiko, from Japan for a year. Two years after he returned my wife, Ginny, was planning a respite from my long hours on the SR-71 development with a round the world trip to visit Hiko and his family in Japan. Because of the secrecy of the SR-71 system, I could not tell Ginny what I was doing. So she planned that on one leg of the trip we would fly into Leningrad, rent a Russian car and drive to Moscow, staying in camp grounds along the way. Needless to say, I gave the security director at AIL, heartburn – not only did we have a Japanese AFS student, now after serving as engineering manager for the SR-71 system, I was vacationing in Russia in the middle of the cold war in 1973. But it worked out fine. The Russian people were very friendly and there were no problems. The security director's heartburn returned in 1983 when I was invited to be a part of the IEEE delegation to China and he had to debrief me on all my special clearances. I think he finally relaxed when I retired in 1985.

I have had an exciting and enjoyable career at AIL where I tried to convince the Air Force (unsuccessfully) to take the pilot out of airplanes and use remotely piloted vehicles. It took another 25 years and the CIA to finally adopt the approach.

After retirement I joined Ginny in her volunteer work with the Girl Scouts. In our worldwide travels we have visited Girl Scouts in most of the 85 countries in which we have traveled.

The excitement and enjoyment have been enhanced by professional organizations. For the local section of the IEEE I have been PULSE editor, program chairman, section chairman, historian and helped Bill Wilkes start the Consultant's Network. For Region 1, awards chairman and historian; for the local Old Crows, president and director of the Northeast Region, and started the Elmer Sperry Chapter of the RPV Society. Professional societies not only expose one to the latest technology, they help one to write clearly, speak clearly, network, organize and manage activities. Be sure to participate. You'll be glad you did.





Affiliated with the IEEE

Your source for electrical,
electronic, mechanical and software consulting engineers

PO Box 411
Malverne NY 11565-0411

<http://licn.org>

(516) 379-1678

Be sure to visit our blog at:

http://licn.typepad.com/my_weblog/

Congratulations to the IEEE Long Island Section and all Award Recipients

Congratulations to All Awardees

Farmingdale State College

Is a Proud Sponsor of the

2013 IEEE Long Island Section Awards Banquet

Since 2005, the College has partnered with the IEEE Long Island Section to promote excellence in professional development activities and LISAT Conferences provided by the Section for members of the engineering and scientific community throughout the Long Island and metropolitan regions.

Farmingdale State College congratulates the IEEE Long Island Section on its 60th Anniversary and for its commitment to the academic and professional development of students studying engineering and engineering-related disciplines. The College is grateful for the Section's partnership with the Farmingdale College Foundation to provide scholarships which assist students in achieving their academic aspirations.

Visit
www.farmingdale.edu

Farmingdale
State College
State University of New York



***LONG ISLAND SECTION
1953—2013***

***Celebrating 60 years of
serving our members
and the Long Island
communities***

Special 60th Anniversary Insert

Some Famous Long Island IEEE Members *by Jesse Taub, Historian, IEEE Long Section*

As you peruse your 2013 Awards Ceremony Program, you will find the names of previous awardees from Long Island. You will also note a list of all of our Section Chairs since the Section's inception in 1947. As you scan these lists, many notable names pop out. Space does not permit me to describe my complete list of notables. Therefore, I will limit my comments to the following:

Harold Wheeler

Our 1948 Section Chair, was a radio pioneer with inventions dating to the 1920's. After World War II, he founded Wheeler Labs and made major contributions to microwave and antenna theory. Harold received the prestigious IEEE Medal of Honor. Our Section has an award named after him. One of his many sharp engineering employees, **Henry Bachman**, became our 1966 Section Chair and subsequently became an IEEE president.

Eugene Fubini

The 1957 Section Chair had his Long Island roots in AIL (now part of ITT). He was a World War II pioneer in developing electronic counter measures and became one of our country's top experts. He left Long Island in 1961 to become an Assistant Secretary of Defense in the Kennedy Administration.

George Litchford

He was a pioneer in the development of air traffic control systems and the IEEE gave him its Lamme Medal in recognition of this major accomplishment.

Athanasios Papoulis

An outstanding professor at the Polytechnic Institute of Brooklyn (now NYU-Poly), he made important contributions in the application of probability theory to the design of electronic systems. As a noted educator, our Section's Outstanding Educator Award appropriately bears his name.

Nathan Marcovitz

He was another distinguished NYU-Poly professor and a world recognized authority on Electromagnetics. The IEEE acknowledged this by presenting him with its prestigious Heinrich Hertz Medal. Many engineers know him from his authorship of the classic Waveguide Handbook, Volume 10 of the MIT Radiation Laboratory Series.

Mischa Schwartz

He taught at NYU-Poly and then at Columbia University. He was given the IEEE Education Medal. He is a major contributor in the area of communications education.

Joel Snyder

Our 1971-72 Section Chair, was a well respected engineering consultant. He also had a passion for the treatment of the average working engineer. He was a major force of having the IEEE show concern for issues of interest to the profession as well as maintaining its earlier mission of a technical organization. His activities were widely recognized and this led to his election as an IEEE president.

Eleanor Baum

Dr. Baum is an outstanding engineering educator who recently retired as the Dean of Cooper Union's engineering school. Her contributions to education were the basis of her becoming an IEEE Fellow. She has also been inducted into the National Women's Hall of Fame.

William J. Caputi

William Caputi is a nationally recognized radar expert. He spent much of his career at AIL Systems and more recently as a Consultant to Telephonics. He is an IEEE Fellow and was recently given their Dennis J. Picard Medal for contributions to radar. Dr. Caputi has made major innovations related to synthetic aperture radar.

John N. Dyer

John Dyer was a pioneer in color television in the 1930's and an early contributor to electronic countermeasures in World War II. He was the President of AIL in the early 70's. John was an IEEE Fellow for the above contributions, a Section Chair in 1950 and an IRE Director in the 1960's. He was also noted for being the radio operator on an Antarctic expedition led by Richard Bird in the early 1930's. Bird, in his book "Alone", credits John with saving his life.

Ivan T. Frisch

Dr. Frisch made major contributions to computer communication networks and can rightfully be called one of the pioneers of the Internet. He became an IEEE Fellow for this work. Ivan also was given our Section's Wheeler Award in 1991 and was a co-recipient of the IEEE's Eric E. Sumner Award for Outstanding Contributions to Communications. Late in his career he was the Executive Vice-President and Provost of Polytechnic University (now NYU-Poly).

Peter Hannan

In the late 1940's, Peter Hannan was one of the first employees at Wheeler Laboratories. He distinguished himself by making fundamental contributions to the theory and development of microwave antennas, notably the cassagrain, monopulse and phased array types. He was given an IEEE Fellow Award for this work and has many related patents.

Arie E. Kaufman

He is currently a Professor and Chairman of the Department of Computer Science at Stony Brook University. Dr. Kaufman has made important contributions to computer graphics, especially volume visualization, including the virtual colonoscopy. He became an IEEE Fellow for these contributions. Our Section gave him the Harold Wheeler Award in 2004.

William L. Rubin

He was a noted radar systems engineer, who worked at Sperry Gyroscope. Together with a colleague, Julius DiFranco, he wrote an important book on radar systems engineering. Dr. Rubin was given the IEEE Fellow Award for his basic contributions to radar signal processing. Our Section also presented him with its Harold Wheeler Award in 1994.

Yacov A. Shamash

He is the Vice-President for Economic Development and Dean of the College of Engineering and Applied Sciences at Stony Brook University. Dr. Shamash has been a major leader on Long Island for encouraging the growth of engineering businesses with innovative ideas. He became an IEEE Fellow for his initiatives with local industry and our Section gave him the Harold Wheeler Award 1999.

Jerome Swartz

Dr. Swartz was a co-founder of Symbol Technology and a pioneer in optical bar-code scanning. He is an IEEE Fellow and a recipient of the IEEE's prestigious Ernst Weber leadership award. Our Section gave him the Harold Wheeler Award in 1996. President Clinton awarded Symbol Technology with the National Medal of Technology and it was presented to him in 2000.

Famous Long Island IEEE Members (continued)

Dante C. Youla

Dante C. Youla is a Professor Emeritus at NYU-Poly. He is internationally known for his basic contributions to network theory. The IEEE Circuits and Systems Society has given him its prestigious Belevitch Award. He also received the IEEE's W.R.G. Baker Award for the year's best paper, "A New Theory of Broad-Band Matching". He is also a Fellow of the IEEE and the National Academy of Engineering.

SOME REMEMBRANCES FROM THE 1950'S, 60'S AND 70'S

As part of our celebration of the 60TH Anniversary of the forming of the IRE (now the IEEE) Long Island Section and the 50th Anniversary of the merging of the IRE and the AIEE to form the IEEE, several of our members recall some of those early days.

Rod Lowman, our Section's Historian for many years and a former Section Chair, recalls the early days of our Section.

When the AIEE and the IRE combined forces to become the IEEE, the Long Island Section was already an outstanding organization providing engineers with marvelous opportunities for learning, networking and sharing the latest developments of hundreds of companies which populated the island.

When Jim Shepard, who was the chairman of the NY Section of the IRE enlisted Eric Isbister and Harold Wheeler to start the IRE's first subsection in 1947, we started with 1000 members (out of the 17,000 world wide members at the time). By the time of the merger, the Section had celebrated a number of memorable activities. To alert our members, Jim Craib started the PULSE (before that we used post cards.). Over 600 came to see a demonstration of color television. Over 800 (including reporters from the NY Times) came to hear John Pierce speak about space travel. Planned months in advance, the meeting was held two weeks after Sputnik was launched – how lucky can you be!

Always the promoter, PULSE editor, Herb Kulik, arranged for the Section to help introduce the Boeing 727 into commercial service for United Airlines by flying one fully loaded by Section engineers for a Section meeting held on a flight to Philadelphia and return.

The Long Island Section has always been a major motivator in setting IEEE policy. You can credit Art Rossoff and Joel Snyder with our interest in ethics, Bob Barden for lobbying for portable pensions (which became the 401K). In addition to the AIEE and the IRE, there was good cooperation with the AOC (Association of Old Crows) and other members of the ALIES (Alliance of Long Island Engineering Societies).

More of Rod's article can be found in the March 2013 issue of the PULSE.

Richard Mohr, an IEEE Fellow, recalls his first engineering job as an engineer fresh with a BEE degree in 1952.

I was employed by the New York Naval Shipyard to do measurements on CW magnetrons and low-noise planar microwave triodes. Microwave measurement equipment was primitive. Measurements that took days to perform are now done in a few seconds. We were encouraged to join the Institute of Radio Engineers and were reimbursed for graduate course tuition. I also recall the early days of microwave ovens. People could not begin to imagine them selling for \$1000. More of his early experiences can be found in the February issue of the PULSE.

Victor Zourides, a former Region 1 Director and Section Chair, describes his early beginnings as an engineer.

I received a BS in Physics in 1953 from Brooklyn Poly (now NYU-POLY) and was employed by Sperry Gyroscope to design and develop electric equipment. My degree did not have enough electronics in its curriculum. However, I learned quickly from some of the Sperry technicians and Volume 18 (Vacuum Tube Amplifiers) of the MIT Radiation Lab Series. I also recall the early transistors and the need to learn new design techniques.

Vic tor described this and more in the December 2012 issue of the PULSE.

Jesse Taub, the Section's Historian, Awards Chair and an IEEE Fellow, recalls his work during 1963, the year the IEEE was formed.

I was employed by AIL as a Consultant in their Applied Electronics Division. I had a wonderful job because my boss, the late Matthew Lebenbaum, gave me a free hand to pursue new microwave technology. There was very little work at that time at frequencies above 40GHz (millimeter wavelengths). While we were not sure of specific applications, it was felt that the potential of wider bandwidth communication and greater military security would result in future Systems.

I quickly realized that as we scaled microwave components to higher frequencies, dimensions became smaller. This resulted in tiny waveguide components that were often expensive to fabricate. At frequencies above 300GHz losses became prohibitive. I collaborated with a young engineer, Harvey Hindin, to develop a series of components that were based on optical principles and were housed in oversized rectangular waveguides. We were working at frequencies as high as 330GHz. This led to several government contracts and a number of publications. This work never made it to any system because there were no immediate needs. However, now communications links at 60GHz are being developed and frequencies above 300GHz are used to detect concealed weapons.

More of his recollections can be found in the November 2012 issue of the PULSE.

Al Lopez, an IEEE Fellow recalls Wheeler Labs from its early days.

I joined Wheeler Labs in 1958. It a young aspiring company that gained a national reputation for its achievements in microwave and antenna design and development. The engineering staff expanded continuously over the early years (1950s and 1960s), reaching a peak of about 75 engineers in the 1960s. It had many clients, which included Bell Telephone Laboratories (Bell Labs), Sperry,

(continued on next page)

Raytheon, Westinghouse, and General Electric. In the early 1960s the relationship with Bell Labs was extraordinary.

In the 1950s a Bell Labs engineer developed the concept of monopulse radar where, in theory, it was capable of determining target direction from a single pulse. Bell Labs came to Wheeler for the development of the microwave components needed for the monopulse radar antenna. Through this work Wheeler Labs got involved, under contract to Bell Labs, in the Army's Nike-Ajax program, the first phase of a program (code name, Nike) to bolster air defense by augmenting guns with anti-aircraft missiles. Wheeler Labs was involved with critical testing of the Nike-Ajax system with the objective of identifying potential improvements. It determined that the monopulse circuitry was satisfactory, but that the lens antenna was deficient. This led to perhaps, the most important Wheeler Labs contribution to the Nike program.

More of Al Lopez' recollections can be found in the January 2013 issue of the PULSE.

Charles Pleckaitis, the Section's Employment Assistance Chair was an engineer working at Fort Monmouth in the 70's. He recalls working with Grumman at that time.

In the 1970's the Grumman Corporation developed an integrated avionics control system utilizing the first 1553 data bus and microcircuit chip for helicopters and other aircraft. This effort provided a test bed on a Huey helicopter for integrated control of communications, navigation, identification and other avionic subsystems. Benefits included a savings of cockpit panel space, improved aircrew-aircraft interface and a capability to reconfigure the aircraft's avionics equipment in response to changing aircrafts' missions.

Martin Markson recalls his experiences at Grumman from the early 60's.

Fifty years ago, I was working for Grumman Aircraft Engineering Corporation. I was in the Antenna group and had been assigned to the Lunar module project from the time the program had been awarded to Grumman.

My work on the Communications Subsystem involved links between the Lunar Module (LM) and the Command Module (CM); the LM and the suits for extravehicular activity; and the Lunar Module and Earth. Circularly polarized UHF antennas were used for the LM-CM link. THE LM Earth link used two S-band antennas: one was a 2 foot steerable dish attached to the LM and the other was a 6 foot dish to be erected by the astronauts on the lunar surface and aimed to Earth.

Murray Novik remembers his work from the early 60's.

"I was working at Loral Electronics at that time. I was designing a small L-Band (@1GHz) around the mast rotary joint for an ECM receiver mounted on the rudder of the Grumman A6 Fighter Aircraft. The ECM direction finding receiver operated from about 1 to 12 GHz and included rotary joints for different frequency bands as well. I later designed the L-Band receiver which included a cam tuned UHF triode as its local *oscillator*."

1947-1952
LONG ISLAND SUB SECTION
OF NEW YORK SECTION CHAIRS



Eric Isbister
1947



Harold A. Wheeler
1948



Orville M. Dunning
1949



John Dyer 1950



Hugh E. Webber
1951



Charles J. Hirsch
1952

1953 to TODAY
IEEE LONG ISLAND SECTION CHAIRS



Vincent Learned
1953



William F. Bailey
1954



Paul G. Hansel
1955



David Dettinger
1956



Eugene G. Fubini
1957



R.K. Hellmann
1958



J. Gregg Stephenson
1959



Henry Jasik
1960



Joseph Kearney
1961



William T. Cooke
1962



Murray Simpson
1963



Harold Brownman
1964



Richard C. Price
1965



Henry L. Bachman
1966



Irwin Vogel
1967



Henry W. Redlien
1968



Saul W. Rosenthal
1969



Arthur Rossoff
1970



Joel Snyder
1971-1972



Frank H. Williams
1973



Thomas Schulkind
1974



Roderic V. Lowman
1975



Peter D. Lubell
1976



Victor Zourides
1977



Edward J. Fuller
1978



David Doucette
1979



Alexander J. Kelly
1980



Donald Neuhaus
1981



Louis Luceri
1982



Robert Barden
1983



Arnold Goldman
1984



Richard LaRosa
1985



Donald Grieco
1986



Steven Rebovich
1987



Velio Marsocci
1988



Klaus Breuer
1989

Continued on next page



Melvyn M. Drossman
1990



John Pierro
1991-1992



Eduardo F. Palacio
1993-1994



Thomas A. Campbell
1995



Nader Bolourchi
1996



Harvey Altstadter
1997-1998



Amnon Gilaad
1999



Babak Beheshti
2000-2001



William Rooney
2002



Dave Mesecher
2003



Christian DiFranco
2004



Daniel Rogers
2005



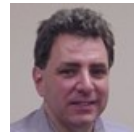
David L. Wolff
2006



Theodore G.
Pappas
2007



William C.
DeAgro
2008



Santo Mazzola
2009



Jonathan
Garruba
2010



Nikolaos Golas
2011



Susan Frank
2012



Thomas
Lanzisero
2013

IEEE LI Section History Articles in the Pulse from December 2010 to March 2013

Topic	Pulse Issue
History of the IEEE History Center	Dec. 2010
History and some thoughts on the future direction of microwave engineering since its inception in the 1940's Part 1	Feb. 2011
History and some thoughts on the future direction of microwave engineering since its inception in the 1940's Part 2	Mar. 2011
Microwave Engineering Past, Present and Future. This month deals with its future	Apr. 2011
Career of Nathan Marcuvitz	Jun. 2011
Career of Harold Wheeler	Sep. 2011
Third in a series that highlights some of our Long Island engineers who achieved wide spread recognition for their accomplishments.	Oct. 2011
Using some highlights from an article in the May 1962 IRE Proceedings by Lawrence Whitmore , I will show how so much of the IRE's organizational structure continues to influence the IEEE of today. By Jesse Taub	Nov. 2011
In 1962, the IRE solicited a number of its Fellows to make predictions for the state of the radio and electronics engineering technology for the year 2012 (its 100th Anniversary). It is interesting to look at their predictions and see how they turned out. Before doing so, we need to look back to 1962 and see what technologies existed. By Jesse Taub	Dec. 2011
This month we will look to the future as we continue to celebrate the 100th Anniversary of the IRE.	Jan. 2012
Career of Nikola Tesla	Feb. 2012
When the IRE reached its 50th year in 1962, it published several articles that described the state of radio engineering in 1912. It therefore seems appropriate to again look back 50 years to see what was considered new technology in 1962 and assess the advances that have been made over a half a century.	Mar. 2012
Career of Sherman Fairchild	Apr. 2012
The Pulse has, from time to time, published articles that describe Long Island based business for at least 25 years. This month we are featuring Decilog which originated almost 50 years ago. This article by Dr. Warren Axelrod conveys the broad scope of their work and the high quality of its personnel.	May 2012
The Pulse in the 1950's	Jun. 2012
The Pulse in the 1960's	Sep. 2012
The Pulse in the 1970's	Oct. 2012
Jesse Taub looks back on his career	Nov. 2012
Victor Zourides looks back on his career	Dec. 2012
History of Wheeler Labs	Jan. 2013
Richard Mohr looks back on his career	Feb. 2013
Rod Lowman looks back on his career and the LI Section	Mar. 2013

Region 1 Awards



Technological Innovation Award (Industry or Government)

MARC FRANKEL

Telephonics

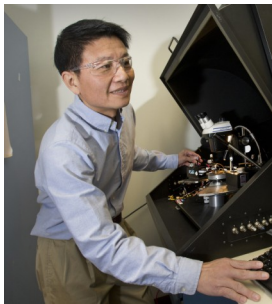
“For Outstanding Technical Innovation in the Development of Identification Friend or Foe Transmitter Technology”

Marc S. Frankel has been with Telephonics Corporation Radar Systems Division over 15 years and holds position of Staff Engineer. For the last 10 years Marc has been the Multimode Mode IFF Interrogator Transmitter Development lead engineer. Marc designed the IFF All-Mode Transmitter Modulator assembly which creates the complex Mode S and Mode 5 waveforms that drives the IFF transmitter chain. In addition to hardware development, Marc also developed test methods required to obtain multimode IFF transmitter certification. His transmitter architectures and designs are implemented in every Telephonics Multimode IFF system currently in production including the AN/UPX-40 that has the distinction of being the world's first IFF interrogator to be certified by DoD International AIMS Program Office for all-mode operation (Mode XII, Mode 5 and Mode S).

Prior to joining Telephonics Marc worked 2 years at Bennett X-Ray qualifying the entire X-Ray product line for CE marking under the Medical Device Directives. During his 13 years at Sperry, Marc contributed to NEXRAD, North Warning and Wind Profiler RADAR programs as well as many DARPA projects. Marc started his career spending 4 years at Cardion Electronics developing the Series 9500 Skytrax 634 Channel Frequency Division Multiplex system for Analog Microwave Radio systems.

Marc received his BS Math and Physics from State University College at Oneonta (1978), BSEE from SUNY at Buffalo (1979) and MSEE from Polytechnic Institute of New York at Farmingdale (1984). He is a member of Tau Beta Pi, Eta Kappa Nu, Sigma Pi Sigma and Chi Beta Pi honor societies.

In his spare time Marc enjoys skating and bicycling. Marc also has been an active radio amateur operator for over 40 years. He holds an extra class license with CW being his favorite operating mode.



Technological Innovation Award (Industry or Government)

DR. ZHENG LI

Brookhaven National Laboratory

“For the Development of Novel Silicon Detectors in Photon Science and Particle Physics Research”

Dr. Zheng Li received his B.S. degree in Physics from the Peking University in China in August 1981, and his Ph.D. in physics from Pennsylvania State University in October 1986. He started his job as an Assistant Physicist in November 1986 at Brookhaven National Laboratory (BNL), and is now a Physicist and group leader in the development of Si detectors for experiments in high energy and nuclear physics, and photon sciences.

Over the past 25 years, Dr. Zheng Li has conducted experimental studies into the development and understanding of position-sensitive high energy particle and radiation detectors, including the development and fabrication of silicon strip detectors, pad detectors, pixel detectors, silicon drift detectors, and novel Si stripixel detectors for various high energy and nuclear energy experiments around the world (BNL (AGS, NSLS, RHIC), CERN, FNAL, LANL, etc.), studies of gettering of high resistive FZ silicon wafers (2-10 kW-cm) and high temperature oxygenation technology, and studies of radiation damage and development of radiation hard Si detectors for LHC and HL-LHC. He has developed new stripixel detectors, which were implemented for VTX at PHENIX Upgrade at RHIC, BNL. He recently invented the 3D-Trench electrode Si detectors that can be advantageous for high energy, nuclear physics with much improved radiation-hardness, and for photon sciences with improvements in energy and position resolution, reduced operation power due to its intrinsic low capacitance, no-charge-sharing, and low full-depletion voltage.

Dr. Zheng is the recipient of the Award for Excellent Academic Performance (1977-1981 Peking University); Davey Fellowship (1981-1983, The Pennsylvania State University), and Science and Technology Award (2005, Brookhaven National Laboratory).

Dr. Zheng Li is the Co-Spokesperson of CERN RD39 Collaboration, CERN, Geneva, Switzerland, Dual Professor, Institute of Semiconductors, Beijing, China; Visiting Professor, Xiangtan University, Xiangtan, Hunan, China; and Visiting Scientist, RIKEN BNL Research Center, BNL, U.S.A. Dr. Zheng Li has over 230 publications.



Congratulations to
Professor Babak Dastgheib-Beheshti, Ph.D.
2013 Recipient of the Institute of Electrical and
Electronics Engineers, Long Island Section
Athanasios Papoulis
Outstanding Educator Award
and Alumnus Walter Poggi, (B.S. '69) President,
Retlif Testing Laboratories
Long Island Section Harold Wheeler Award.

nyit.edu



NYIT

NEW YORK INSTITUTE OF TECHNOLOGY

Region 1 Awards

Technological Innovation Award (Industry or Government)



DAVID MESECHER

Northrop Grumman

“For Innovations in Antenna Array and Smart Antenna Signal Processing for Radar and Commercial and Military Communications”

As an Engineering Fellow at Northrop Grumman Aerospace Systems, Dave Mesecher is currently part of the XHawk Advanced Development Center, where he is involved in developing and evaluating new technologies for airborne military systems. His areas of expertise include antenna array processing, wireless communications, target location and tracking, and multi-platform sensor fusion.

Dave began his career at Hazeltine Corporation, now part of BAE Systems, where he developed adaptive antenna arrays, or “smart antennas,” for jam-resistant military radar and spread-spectrum communications systems, incorporating a then new technique that is today known as space-time adaptive processing (STAP). Later, at AIL Systems, now ITT Exelis, he developed real-time location systems for defense applications, as well as super-resolution processes to achieve blind signal 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 InterDigital Communications, including channel estimation, adaptive receiver filtering, carrier recovery, smart-antenna processing, and real-time location of handsets. Currently, at Northrop Grumman, he is combining adaptive antenna array processing with predictor-filter processing for advanced target location and tracking techniques.

Dave is a Senior Member of both the IEEE and the AIAA, and was Chairman of the IEEE Long Island Section in 2003, the year that the Section received recognition as the IEEE’s Outstanding Large Section. He has also served as chairman of the Long Island Chapter of the IEEE Communications Society, technical program chair and general conference chair for the annual IEEE Long Island Systems, Application, and Technology (LISAT) conference, and IEEE Long Island Section Industry Liaison. He is currently chairman of the Long Island Chapter of the IEEE Aerospace and Electronics Systems Society, and serves on the technical program committee for LISAT.

He holds numerous US and foreign patents for signal processing techniques in the areas of wireless communications, adaptive antenna arrays, and real-time location systems, and has authored several papers in these areas. Dave holds a BSEE from Rensselaer Polytechnic Institute, an MSEE from Polytechnic University, and an MBA from Adelphi University.

Managerial Excellence in an Engineering Organization Award



JOHN COSENZA

BAE Systems

“For Managerial Leadership in the Development and Implementation of Aircraft Low-observable Antenna System and Jam-resistant GPS Antenna Systems”

John received a BS degree in Physics from NYU and a Bachelor of Electrical Engineering degree from the Cooper Union in 1985. He initially joined Hazeltine Corporation working as an antenna engineer and a member of Wheeler Labs while he completed his MS degree in Microwave Engineering at the Polytechnic Institute of NY in 1987. John later went to work for Dorne and Margolin, Inc where he designed and patented various antennas and rose to be the Director of Antenna Technology before leaving to pursue commercial antenna business activities.

John joined Hirschmann USA, which was a small technology company interested in developing an antenna capability to support the wireless markets. While there John instituted engineering, production, and quality assurance organizations while designing and patenting apertures for commercial applications. He was able to assemble a team that succeeded in winning multiple contracts and that shipped 2000 base station antennas a month. The business that he led was sold to Phazar Antenna Corp and John spent two years supporting the ongoing activities as Vice President of Product Development.

John ultimately returned to his roots within the organization at which he started which is now a division of BAE Systems. John has worked there for over 10 years managing antenna programs for GPS and Low RCS antennas and completing an MBA from Stony Brook University. During his time at BAE Systems he has instituted plans to build an antenna product line and he continues to work to grow the existing product base.

John is married with 5 children and after multiple tries one of his sons and he finally won a Cub Scout Pinewood Derby. This is something that he considers to be one of his finest moments.

Contech Marketing Associates
anthony@contechmarketing.com

Contech Marketing and our fine Principals, would like to congratulate the Long Island IEEE Section awards winners and volunteers on their outstanding contributions and achievements!

Anritsu
Test and measurement Instruments for communications. Used in design, manufacturing and maintenance of wired or wireless solutions, RF, Microwave and Optical solutions, among other data communications applications.

PACIFIC POWER SOURCE

- ▲ High Performance AC Power Sources from 0.5 to 625 KVA
- ▲ Facility Frequency Conversion
- ▲ Linear & Switch-Mode Topologies
- ▲ UPC Studio Control Software

spectracom
Synchronizing Critical Operations

- Time & Frequency Synchronization Products
- NTP Servers, PTP IEEE 1588
- Master Clocks & Frequency References
- Time & Frequency Analyzers, GPS Simulators
- Bus Level Timing Boards, Distribution Systems

TDK
TDK-Lambda High Power

- ▲ Programmable DC Power Supplies from 750W to 90KW
- ▲ High Density & Efficiency
- ▲ LXI, GPIB & Analog Control

Congratulations from Agilent

The company whose expertise in measurement science and test processes help you achieve system readiness and standards compliance.

Get robust knowledge library offering app notes, posters, CDs, videos and more
www.agilent.com/find/electronics

© Agilent Technologies, Inc. 2012 u.s. 1-800-829-4444 canada 1-877-894-4414

25 YEARS EXPERIENCE

{ SPECIALIZING IN: }

- ✓ Packaging
- ✓ Environmental Graphics
- ✓ Logo Design
- ✓ Web Graphics
- ✓ Photo illustration
- ✓ Print Design
- ✓ Media Kits
- ✓ Presentation Graphics
- ✓ Sales and Marketing Collateral

tgiresi@aol.com | 516.749.4666

Region 1 Awards



Managerial Excellence in an Engineering Organization Award

ERIC DARVIN

L-3 Communications, Narda Microwave East

“For Technical Contributions and Managerial Leadership in the Design of Wideband Microwave Receiver Subsystems and Components”

Eric Darvin joined L3 Communications Narda Microwave-East in Hauppauge, NY as a Principle Engineer in 1998 and currently serves in the position of Engineering Director – Active. In this capacity he manages the design and development of microwave components and subsystems most often employed in military satellite communication and electronic warfare applications. His responsibilities also focus on the transitioning of these products from engineering to production manufacturing and test.

Prior to joining L3 Communications, Eric worked for two years at AIL Systems in Deer Park, NY in a Space Products Group. Previously he had spent three years at Raytheon’s Advanced Design Center in Andover, MA where he designed GaAs MMICs and transmit receive (T/R) modules. His first job out of college was with Lockheed Martin’s Government Electronic Systems Division in Moorestown, New Jersey where he worked for five years developing T/R modules for phase array radars.

Eric received a BSEE degree from the State University of New York at Buffalo in 1985 and a MSEE degree from the University of Pennsylvania in 1990. He currently serves the IEEE Long Island Section in the capacity of Chair of the local MTT Chapter.

Eric is happily married and has 10 year old triplets.



Managerial Excellence in an Engineering Organization Award

JOHN NASTRO

ITT Exelis

“For Outstanding Leadership in the Technical and Program Management of Complex Real-time Integrated Electronic Warfare Systems”

Mr. John Nastro has a Bachelors degree in Mathematics from Siena College and a Masters Degree in Mathematics from Syracuse University specializing in Probability and Statistics.

Upon graduation from Syracuse Mr. Nastro took a position as a Software Engineer with Eaton Corporation, AIL division. At AIL Mr. Nastro developed software algorithms for real time Electronic Countermeasure Avionics systems. This included signal processing, threat analysis, applying electronic countermeasures and enhancing “Built In Test” capabilities.

As a Program Lead, he led an Integrated Product Team to develop a highly successful QRC (Quick Reaction Change) software modification to the B-1B’s AN.ALQ-161 Electronic Countermeasure system in order to support mission readiness for Operation Iraqi Freedom.

Subsequently Mr. Nastro has held various management positions at AIL / EDO / ITT Exelis. This includes Software Program lead, Engineering manager and currently, B-1B program Manager. As program manager Mr. Nastro oversees multiple contracts at ITT Exelis valued at over \$80M and is responsible for business development. He is also tasked with maintaining a close working relationship with the customer and the end user to ensure mission readiness and aircraft survivability well into the 21st century.

During his tenure at AIL / EDO / ITT. Mr. Nastro has published papers on an innovative Software Product Maturity Model, Real Time Avionics Testing Applications and Adaptively Minimizing Software Rework. Some of his works have subsequently been published in a University textbook, “Verification and Validation of Modern Software Intensive Systems”.

Mr. Nastro is a VLBS Green Belt, a member of the Association of Old Crows and an IEEE Standards Association member.



Congratulations to the 2013



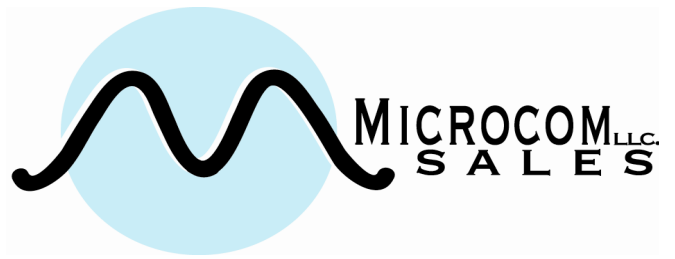
**Long Island Section
Award Recipients**

From Superior Technical Solutions Corp.
Manufacturers' Representative
providing a broad range of
Electrical, Electromechanical & RF Solutions



800.398.3498

www.superior-tek.com



*Your Source For High-Tech Engineered
Solutions*

***Congratulations to the
IEEE Long Island Section
and all the Award Winners***

*From: Kirit Dixit
201-669-7599 - k.dixit@microcomsales.com*

www.microcomsales.com

**Equipping engineers and scientists
with tools to accelerate productivity,
innovation, and discovery.**



Discover how the NI graphical system design platform
accelerates the development of any system requiring
measurement and control.

Contact **Robert Berger**, Senior District Sales Manager,
at robert.berger@ni.com or 800-433-3488.

ni.com



©2012 National Instruments. All rights reserved. LabVIEW, National Instruments, NI, and ni.com are trademarks of National Instruments. Other product and company names listed are trademarks or trade names of their respective companies.

**Congratulations
to IEEE award recipients
from Rohde & Schwarz**



**Wide portfolio.
Broad spectrum.
Making ideas happen.**



METSAC Awards



METSAC Recognition Award

DR. CHARLES P. RUBENSTEIN

Pratt Institute

“For Excellence in Leadership and Tireless Commitment to the Region 1 of the IEEE and its Members during his Tenure as Director”

Charles Rubenstein is a tenured professor of engineering and information science at Pratt Institute’s graduate School of Information and Library Science in New York City. He has been a visiting professor of engineering at Farmingdale State College (SUNY) Farmingdale, New York researching alternate energy production systems utilizing fuel cells and photovoltaics, emergency power system design, and educational outreach programs. He has an earned doctorate in bioengineering (Polytechnic Institute of New York) and master’s in library and information science (Pratt Institute).

Dr. Rubenstein has received many other IEEE honors including the IEEE’s Robert S. Walleigh Distinguished Professionalism Award, an IEEE-USA Citation of Honor, an IEEE Centennial Outstanding Young Engineer Award, an IEEE Third Millennium Medal, and an IEEE Regional Activities Board Innovation Award.

An internationally known distinguished lecturer for Engineering Management and Computer Society Tutorial Programs, he has delivered HTML, eCommerce, wireless technology, Leadership Skills, and ‘Scalability of Membership’ presentations, tutorials and workshops throughout the world.

Through his efforts working with volunteers in the Long Island Section since 2004 he created the Long Island Systems, Applications and Technology Conference going into its ninth consecutive year providing Long Island Section members a day-long series of multi-track presentations, exhibits, and continuing education.

Rubenstein is actively involved in the creation of an IEEE-USA conference coupled to a DC Utility Power Exhibition at the Holiday Inn Long Island - Islip Airport in Ronkonkoma 7-8 October 2013. The IEEE NewNEB DC Utility Power Conference and Exhibition is expected to attract hundreds of attendees from around the country to discuss the state of the art research, DC Standards, and government policies in the area of battery and DC power generation.

Dr. Rubenstein was 2010-2011 IEEE Director and Region 1 Chair (NE USA) and is 2013-2014 Chair of the IEEE-USA Conferences Committee. He is a member of Eta Kappa Nu and Tau Beta Pi engineering honor societies.

Fellow Awards



Fellow Award

GLENN ZORPETTE

IEEE Spectrum Magazine

“For Contributions to Professional Communication in Electrical and Electronics Technology”

Glenn Zorpette is executive editor of IEEE Spectrum Magazine, where he manages the print editorial department. Under his supervision, and since 2002, IEEE Spectrum has won 68 significant journalism awards. These included, in 2012, a National Magazine Award for General Excellence, the most prestigious award in U.S. magazine publishing. In addition, in 1993 he won, with John A. Adam, a National Magazine Award for Reporting. It was for an article on Iraq’s attempt, before the first Gulf war, to build an atomic bomb. He was a finalist for another National Magazine award, in 2007, for an article on electrical reconstruction in Iraq. From 1995 to 2000, he worked at Scientific American magazine, where he was part of a team that won another National Magazine Award, for a single-topic issue titled “What You Need To Know About Cancer.” For 10 months, at the height of the dot-com boom, he worked at Red Herring magazine before returning to IEEE Spectrum in June, 2001. During his second tenure at IEEE Spectrum, the magazine was a finalist two other times for National Magazine Awards, for special issues on China (2005) and the technological “singularity” (2008). The magazine has also won many Neal Awards, for business journalism. These include two Grand Neal Awards, one of which was won by Glenn personally.

Glenn has also published articles in The New York Times (including three Op-Ed articles), Los Angeles Times, The Boston Globe, Boston Herald, Discover magazine, American Heritage of Invention & Technology, and other publications. He has also been a radio commentator and reporter, with segments on several syndicated public radio programs in the United States. He also appears in the 2012 motion picture documentary “The Singularity,” directed and produced by Doug Wolens.

Glenn holds a bachelor’s degree in electrical engineering from Brown University (class of 1983).

IEEE LISAT 2013

**Long Island Systems,
Applications, and
Technology Conference**

Friday, May 3, 2013
7:30 AM sign-in; 8 AM start

**Farmingdale
State College**
State University of New York
Rt. 110, Farmingdale, NY

THREE ALL-DAY PARALLEL TECHNICAL TRACKS

Preliminary Program. See LISAT website for latest updates: www.ieee.li/lisat

Systems

- The History and Use of Pipelining Computer Architecture: MIPS Pipelining Implementation
- SKINaid: A Virtual Reality System to Aid in the Skin Cancer Prevention and Pain Treatment
- Role of VLIW architecture in Real Time Processing
- Deployment of Handwriting Recognition System Using Artificial Neural Network (ANN)
- Over the Air Performance Results of a Dynamic Spectrum Management Wi-Fi System in TVWS
- Design of an Intelligent Traffic Light Control System
- Intrinsic Cognitive Network Addressing
- Using Markov Models to estimate the Reliability of RAID Architectures
- Building and Designing A Secure E-voting Infrastructure from the Scratch
- OpenEMR: Reimagined On Windows 8 Touchscreen Tablet
- Biometric Authentications for Older Adults and the Disabled
- Parking Status SNS (Twitter) Notification System
- Sliding Window-Frequency Domain Equalization for Multi-mode Communication Systems
- Comparisons of Filter Bank Multicarrier Systems
- GPS Enabled Speed Control Embedded System
- The What, Why and How of Achieving Urban Telepresence

Applications

- Establishing a Cost Effective Embedded Control and Robotics Engineering Program - Observer based state feedback control using LEGO's
- Performance Evaluation of Different QAM Techniques Using Matlab/Simulink
- Mitigating the Risks of Cyber-Physical Systems
- Classification and Detection of Fire on WSN Using IMB400 Multimedia Sensor Board
- Electronic Health Records: A Future-Oriented View & Why Many Systems are Failing to Deliver
- Enhanced Frame Rate for Real-Time Eye Tracking Using Circular Hough Transform
- Efficient EEG Analysis for Seizure Monitoring in Epileptic Patients
- Wireless Access Point Specific Location Based Encryption
- Enhanced Security for Bank Using Image Processing Techniques
- A Robust Navigation and Synchronization Strategy for Multiple Networked Robots
- Mobile Apps Development and Usability Research to help Dementia and Alzheimer Patients
- Neural Network based Cloud computing Platform for Bioinformatics
- FARE: A Framework for Benchmarking Reliability of Cyber-Physical Systems
- Combination of Spectral and SVD Precodings for Out-of-Band Leakage Suppression
- Portable Breath Analyzer
- Application of Different Transformation Methods to Whole Heart Region Segmentation

Technology

- A New Scripting Language and Parser for System Goal Specification in I-TRM Based Wireless Sensor Networks
- Steganography in Arabic Text Using Kashida Variation Algorithm (KVA)
- Non-Linear Phenomena in Torsion Field and Spin-to-Spin Interaction Experiments - Role of de Broglie Waves
- Bulk Acoustic Wave Biosensors Integrated with Impedance Spectroscopy for Rapid and Sensitive Water Toxicity Detection
- Study of Long Term Cell Viability for Sensitive and Reliable Water Toxicity Measurements
- Quality Testing of Drinking Water Based on Microfluidic Channel Electric Cell-substrate Impedance Sensing
- Technology of Cartography of Outdoor and Indoor Geo-Pathogenic Zones as a Social Task
- Effectiveness of Authenticating Users with Randomly Constructed Fingerprint Templates
- Nanocrystalline Semiconductors for Integrated Photonics and Photovoltaics
- Inter-Symbol-Interference Free and Inter-Carrier-Interference Free Filter Design
- Noncontact Textile Electrodes For Wireless ECG System
- Personal Asset Tracking
- On Data Integration and Data Mining for Developing Business Intelligence
- Efficient Multiuser Spectral Precoding for Reducing Out-Of-Band Emission for OFDM-Based Cognitive Radios
- Developing a PCB Printer Using an Ultraviolet Laser
- A Novel Vessel Segmentation Algorithm in Color Images of the Retina

INDEPENDENT SIX-HOUR CEU/PDH TRACK

"Power/Energy/Industrials"

0.2 CEU (2 PDH) credits available for each of 3 topics in this track. Pick and choose the topics of your interest. See the LISAT website for more details: www.ieee.li/lisat

EXHIBITS HALL

See exhibits from local technology companies, universities, robotics-competition winners, and professional societies

POSTER SESSION

Authors will be available for one-on-one discussions about their research topics.

PRODUCT APPLICATIONS TRACK

Four lectures on practical applications of tools and equipment. Go to www.ieee.li/lisat for details

**REGISTRATION AND OTHER INFO AT LISAT WEBSITE:
www.ieee.li/lisat**

About the IEEE LI Section Awards

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.

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.

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.

FRIEND OF THE IEEE LONG ISLAND SECTION AWARD

This award is given to a company or organization in recognition and appreciation of prominent and continued support of the IEEE Long Island Section and its members, in support of the Section's goals, activities and the Engineering Profession.

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.

LIFETIME ACHIEVEMENT AWARD

This Award is given to a member who has demonstrated continual and distinguished leadership, outstanding career-long contributions and service benefiting the Engineering community and the IEEE LI Section. This award is the highest honor the IEEE Long Island Section bestows on an individual.

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.

OUTSTANDING VOLUNTEER AWARD

This award honors a Long Island Section member for substantial contributions to IEEE volunteer activities at the International, National, Region, Section, Chapter, or Society level.

OUTSTANDING YOUNG ENGINEER AWARD

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

About the IEEE Region 1 Awards

TECHNOLOGICAL INNOVATION (INDUSTRY OR GOVERNMENT)

For significant Patents, for discovery of new devices, development of applications or exemplary contributions to industry or government.

MANAGERIAL EXCELLENCE IN AN ENGINEERING ORGANIZATION

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

ENHANCEMENT OF THE RELATIONSHIP BETWEEN IEEE AND INDUSTRY

For significant contributions in an enhanced IEEE-INDUSTRY relationship

ENHANCEMENT OF THE IEEE OR ENGINEERING PROFESSION'S IMAGE WITH THE PUBLIC

For significant contributions in developing IEEE-PUBLIC relationship.

OUTSTANDING SUPPORT FOR THE MISSION OF THE IEEE, RAB, REGION 1 AND SECTION

For outstanding Service to the IEEE at Chapter, Section, Region, RAB or National level.

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 the IEEE Long Island Section Awards Committee Chairman Jesse Taub, at: jjtaub@aol.com

IEEE MISSION & VISION

Mission Statement

IEEE's core purpose is to foster technological innovation and excellence for the benefit of humanity.

Vision Statement

IEEE will be essential to the global technical community and to technical professionals everywhere, and be universally recognized for the contributions of technology and of technical professionals in improving global conditions.



IEEE *facts*

- *The IEEE is a non-profit, technical professional association. IEEE set its all-time record for membership in January 2013, with 438,246 members. This represents an increase of 2.7 percent compared with January 2012.*
- *Its members are spread in over 160 countries across the world*
- *The organization is a leading authority on a wide variety of areas ranging from aerospace systems, computers and telecommunications to biomedical engineering, electric power and consumer electronics*
- *The IEEE produces 30 percent of the world's published literature in electrical and electronics engineering, and computer science fields*
- *The IEEE has 1,300 standards and projects under development*
- *The IEEE has nearly 3 million documents in the IEEE Xplore Digital Library with more than 7 million downloads each month*
- *The IEEE has 38 Societies and 7 Technical Councils representing the wide range of IEEE technical interests*
- *The organization annually sponsors more than 1,200 conferences in 78 countries worldwide*

SPECIAL THANKS TO OUR AWARDS NOMINATION COMMITTEE

Jesse Taub, Chairman

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

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



IEEE

LONG ISLAND SECTION

Quick Facts

- *The IEEE Long Island Section (LIS) started as an Institute of Radio Engineers (IRE) chapter in 1947*
- *The LIS became a full Section of the IRE in 1953 and in 2003 we celebrated the Section's 50th anniversary*
- *This year, 2013, we are celebrating the Section's 60th anniversary.*
- *The LIS was formed by Jim Shepherd of Sperry*
- *In 1954, the Microwave Theory and Techniques became the first Professional Group Charter and it was closely followed by the Professional Group on Instrumentation*
- *In 1958, the Student Affairs Committee was formed and offered a 15-week math & science course free to high school teachers that was fully accredited by NY State*
- *In 1963 with the merger of the IRE and the American Institute of Electrical Engineers (AIEE) to become the IEEE the Section was realigned and its members from Queens were transferred to the NY Section*
- *IEEE Trivia: The IEEE 802 committee was formed in February (the second month) of 1980, and thus was called "802." The Ethernet IEEE 802.3 standard, for example, was ratified in the IEEE annex building 3 in Geneva at that time.*
- *All IEEE Long Island Section positions are staffed by volunteers*
- *Visit and explore our website at: www.IEEE.LI*



Your Manufacturer's Representative for
R/F, Microwave, Optical, Test &
Measurement, Components, and Cable
Assemblies.

**Congratulations to ALL
Award Recipients**



timu@eoxsales.com



*The 60th Anniversary Graphic was designed by
Anthony Giresi.*

*We would like to thank Anthony for his contribu-
tion to our celebration.*

**2013 IEEE Long Island Section
Awards Banquet Supporters Honor Roll:**

**Retlif Testing Laboratories
Underwriters Labs**

**BAE Systems
ITT Exelis Corporation
L-3 Communications/Narda
Northrop Grumman Corp.
Stony Brook University
Telephonics Corp.
The Omnicon Group**

**Advanced Technical Marketing
Agilent Technologies
Contech Marketing
EOX Sales
Farmingdale State College
LI Consultants Network (LICN)
Microcom Sales
National Instruments
New York Institute of Technology
Rohde & Schwarz, Inc.
Spectrum Sales
Superior Technical Solutions Corp.**

IEEE PREVIOUS MEMBER RECOGNITION

Our Long Island Section Historians, Rod Lowman & Jesse Taub, have compiled this list of past Chairs, living past Awardees and Fellows elected to the Section, and others attracted to the Section

HAROLD WHEELER AWARD

*2012 William Pawlowski
2011 Joseph Merenda
2010 Bert Moskovitz
2009 Veljko Radeka
2008 Kenneth Schneider
2007 Ralph B. James
2006 Richard 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*

ALEX GRUENWALD AWARD

*2012 Nikolaos Golas
2011 Peter A. Eckstein
2010 Santo Mazzola
2009 James Colotti
2008 Arthur Rossoff*
2007 David Wolf
2006 Daniel Rogers
2005 David Mesecher
2004 Charles Rubenstein
2003 William Rooney
2002 Babak Bebeshti
2001 Thomas A. Campbell
2000 Herman Fialkov*
1999 Eduardo F. Palacio
1998 Peter Buitenkant
1997 Eleanor Baum
1996 Irvin 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*

CHARLES HIRSCH AWARD

*2012 Eugene Feinberg
2011 Kenneth Frank
2010 Thomas R. Neiland
2009 David Mesecher
2008 Babak Bebeshti
2007 Yuri Okunev
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 Klumpfbeck
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 Enrico Levi
1979 A.D. Alexandrovich
1978 Richard LaRosa
1977 Page Burr
1976 Patricia Burgmyer**

ATHANASIOS PAPOULIS AWARD

*2012 Thomas Robertazzi
2011 Monica Bugallo
2010 John F. Hennings
2009 Sina Rabbany
2007 Frank A. Cassara
2006 Serge Luryi
2006 Wendy K. Tang
2005 Kenneth Short
2004 Peter Voltz*

OUTSTANDING YOUNG ELECTRICAL ENGINEER

*2012 Robert Schmid
2011 Adam S. Chalson
2009 Monica F. Bugallo
2008 Gabriella Carini*

*2006 David Hernandez
2005 Justin Maloney-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*

LIFETIME ACHIEVE- MENT AWARD

*2012 Henry Bachman
2011 Jesse Taub*

FRIEND OF THE IEEE LONG ISLAND SECTION AWARD

*2012 Brookhaven
National Labs
2011 Farmingdale
State College
2010 BAE Systems*

OUTSTANDING STUDENT BRANCH AWARD

*2010 Stony Brook University
2007 Stony Brook University
2005 Stony Brook University*

LI SECTION IEEE FELLOWS

*F.R. Arams
John Asvestas
Lalit Babl
Eleanor Baum
Gregory Belenky
Ilan Ben-Zvi
J.J. Bongiorno
William Caputi
Donald Christiansen
Petar Djuric
Eric Forsyth
Joseph Fragola
Ivan Frisch
Richard Gambino
C.G. Garrett
Peter Hannan
H. Harris
John Impagliazzo
Ralph James
Arie Kaufman
Richard La Rosa*

*Jerome Liang
Konstantin Likharev
Alfred Lopez
Serge Luryi
Richard Mohr
Seymour Okwit
T. Pavlidis
John Pierro
Veljko Radeka
Paul Richman
Thomas Robertgazzzi
Thomas Roser
E. Sard
Mischa Schwartz
Yacov Shamash
Leonard Shaw
S. Shinnars
Martin Shooman
Graham Smith
Jerome Swartz
Jesse Taub
David Weissman
Craig Woody
Yuanyuan Yang
Dante Youla
Armen Zemanian*

REGION 1 AWARDS

*Craig Aarseth
Scott B. Abrams
George Alikakos
Harvey Altstadter
Richard Augeri
Henry Bachman
Robert Barat
Robert Barden
Kenneth C. Baron
Babak Bebeshti
Charles Berger
John Beukers
Stephan Jon Blank
Robert Blosser
Lloyd Blueweiss
James P. Blumling
Nader Bolourchi
David Bomzer
Gary Cachules
Thomas Campbell
Frank Cassara
Bernard Cheo
Richard Clouse
James Colotti
Michael N. Cunetta
William DeAgro
Peter Djuric
Mehryn Drossman
Alfred J. DuPlessis
Paul M. Eyring*

REGION 1 AWARDS (cont)

Arthur Faverio
 John A. Fiorillo
Phillip Ferraro
 Joseph Fragola
 Kenneth Frank
 Harvey Glass
 Nikolaos Golas
 Michael Green
Jonathan Garruba
 Shabe Halajian
 Richard Hines
 Robert Hong
 Ivan Kadar
 Leonard Kahn
 Richard Knadle
 Richard Koch
 Richard Krabak
 Frederick M. Kruger
 Raymond Lackey
Thomas Lanzisero
 Richard LaRosa
Richard Law
 L.I.F.T.
 Alfred Lopez
 George Los
 Roderic Lowman
 Peter Lubell
 Louis Luceri
 Edward Magill
 Velio Marsocci
 Daniel Mazzjata
 Andrew McNeerney
 Niel F. Miele
 Donald Neuf
 Donald Neubaus
Stephen O'Brian
 Brian V. Oronato
 James Onorato
 Eduardo Palacio
 Theodore Pappas
 J.B. Parekh
 John Persich
 Lazaros Pavlidis
 Bernard Payton
 John Pedersen
 John Pierro
 Ronald Pirich
 Walter Poggi
 Brian Quinn
 Paul Richman
 Stefan A. Robila
 Daniel A. Rogers
 Craig Romano
 Richard Ronde
 Charles Rubenstein
 Ronald M. Rudish
 Henry Ruston
 Mark Sadick
 Melvin Sandler
Thomas Schneider
 Michael L. Schreiber

Frederick Schuessler
 Murray Simpson
 Graham Smith
 Martin Somin
 David W. Sterner
Terry Stratoudakis
 Jerome Swartz
 Karl Sygall
 Jesse Taub
 K. Wendy Tang
 Frank Torre
 Bryan Tropper
 Hang-Shen Tuan
 Charles Verbeke
 Peter Voltz
 Irvin Weitman
 Charles Vozzo
 David Wang
 Fu-Lin Wang
 Scott Weiner
 Walt Whipple
 Bruce Willard
 Christopher Witt
 David Wolff
 Craig L. Woody
 Yuanyuan Yang
 Stanley Zoubek, Jr.
 Victor Zourides
 Mark Zuchowski

DENNIS J. PICARD MEDAL

William Caputi, Jr.

ROBERT S. WALLEIGH AWARD

Charles Rubenstein

2000 MILLENNIUM AWARDS

*Harvey Altstadter
 Henry Bachman
 Babak Bebeshti
 Robert Bruce
 Thomas Campbell
 David Doucette
 Peter Eckstein
 Ivan Frisch
 Alfred Lopez
 Rod Lowman
 Louis Luceri
 Velio Marsocci
 Seymour Okwit
 Eduardo Palacio
 John Pierro
 Paul Richman
 Jerome Schwartz
 Wendy Tang
 Jesse Taub
 Irvin Weitman*

1984 CENTENNIAL AWARD

*Henry Bachman
 Donald Christiansen
 David Doucette
 L.B. Felsen*
 F.J. Kosasek
 Roderic Lowman
 R.A. Olsen
 Veljko Radeka
 Jay Stewart
 Jesse Taub
 J.G. Truxal
 David E. Weissman
 Victor Zourides*

MGA WILLIAM W. MIDDLETON DISTINGUISHED SERVICE AWARD

Louis Luceri

IEEE-USA

*Harvey Altstadter
 Robert Bruce
 Lawrence Edelman
 Thomas Downey
 Barbara Kent
 Charles Rubenstein
 Jesse Taub
 Irvin Weitman
 Victor Zourides*

RAB AWARD

*K. Wendy Tang
 William Wilkes*

IEEE MEDALISTS

*Henry Bachman
 Eric Forsyth
 Ivan Frisch
 Nathan Marcuvits*
 Mischa Schwartz
 Jerome Swartz
 John Truxal*

SECTION CHAIRS

2012 Susan Frank
 2011 Nikolaos Golas
 2010 Jon Garruba
 2009 Santo Mazzola
 2008 William C. DeAgro
 2007 Theodore Pappas
 2006 David Wolff
 2005 Daniel Rogers
 2004 Christian DiFranco
 2003 David Mesecher
 2002 William Rooney
 2001 Babak Bebeshti
 2000 Babak Bebeshti
 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 Mehryn M. Drossman
 1989 Klaus Breuer
 1988 Velio Marsocci
 1987 Steven Reborich
 1986 Donald Grieco
 1985 Richard LaRosa
 1984 Arnold Goldman
 1983 Robert Barden
 1982 Louis Luceri
 1981 Donald Neubaus
 1980 Alexander J. Kelly
 1979 David Doucette
 1978 Edward J. Fuller
 1977 Victor Zourides
 1976 Peter D. Lubell
 1975 Roderic V. Lowman
 1974 Thomas Schulkeind
 1973 Frank H. Williams*
 1972 Joel Snyder*
 1971 Joel Snyder*
 1970 Arthur Rossoff*
 1969 Saul W. Rosenthal*
 1968 Henry W. Redlien*
 1967 Irvin 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

**2013 Awards Program
 Editor: John Schmidt**