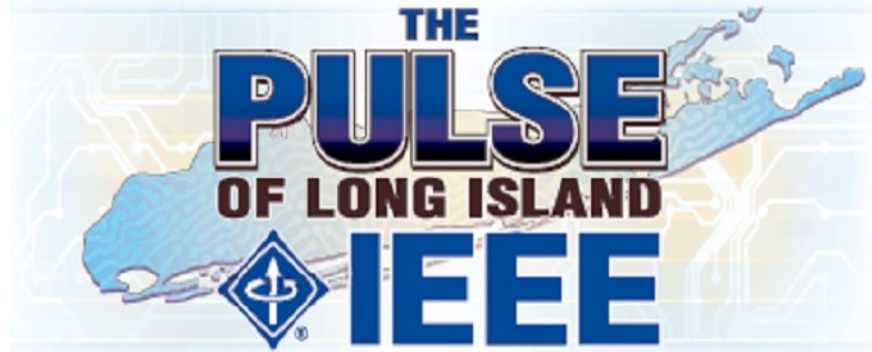


PRODUCED BY THE
LONG ISLAND
SECTION OF THE
INSTITUTE OF
ELECTRICAL &
ELECTRONICS
ENGINEERS



Volume 60, No. 33

March 2013

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Chair's Message By Thomas Lanzisero, Chair IEEE Long Island Section

Our collaboration among IEEE LI society chapters, affinity groups and other organizations is beginning to march forth, and all indications predict continuation well past Monday (March 4th).

In February, our Engineering in Medicine and Biology Society (EMBS) and Product Safety Engineering Society (PSES) chapters hosted a joint technical meeting on biomechatronics, entitled "We Can Rebuild Him. We Can Make Him Better Than He Was." Yes, a reference to the Bionic Man. This technical lecture depicted the reality of the present and future trends of emerging technology to help those who are disabled to become much better enabled and better-abled.

February was highlighted by Engineers Week. One of our ranking members pointed out that for those of us who go the whole nine yards in design, we may need a whole week, rather than a mere day, to celebrate engineering (and do so with precision!). Engineers Week 2013 was marked by IEEE LI chapters hosting joint Engineers Week Seminar Series meetings with ASME (American Society of Mechanical Engineers), ISA (International Society of Automation) and NSPE (National Society of Professional Engineers). And in 2014, IEEE will be the official host of national EWeek activities.

February was then capped by our IEEE LI PACE (Professional Activities Committees for Engineers) hosting of "An Evening with Apollo 17 Astronaut: Harrison Schmitt" at the Cradle of Aviation Museum.

March will be highlighted by our [IEEE LI Awards Banquet](#) to be held on March 21st at the Fox Hollow in Woodbury, NY. We will recognize and honor outstanding engineering achievements of our members. This also marks our 60th anniversary! What accomplishments, examples and anecdotes about electrical engineering technology can you share that represent this period? Please contact Jesse Taub at historian@ieee.li. Also see our site for the [2013 IEEE LI award](#) details. Interested banquet attendees and sponsors should contact our IEEE LI Vice Chair at lvc@ieee.li.

Immediately following these festivities will be the [International Energy and Sustainability Conference 2013](#) on Mar 22nd at Farmingdale State College. The theme of this year's conference is "Renewables in Smart Grid Technology for a Sustainable Future." The conference will bring together the latest research and development works in energy and related topics, along with industrial and management issues and challenges. Experts in research as well as in industry will be invited to present the emerging technologies and future directions in their field.

We'll cap off March with *Education on Long Island: Update on Challenges and Opportunities – STEM (Science, Technology, Engineering, Mathematics)* on Mar 28 at NYU-Poly, Long Island Graduate Center in Melville. So let's continue to collaborate and keep plugging away!

Thomas Lanzisero, P.E.
Chair - IEEE Long Island Section
chairman@ieee.li

Calendar of Events

March 2013

March 6th

The IEEE Consultants Network of Long Island (LICN) Meeting
Electrostatic Discharge and The New LED Lighting Industry
By Robert Ashton, Jon Connell, and William H. Siegel
Briarcliffe College - The Great Room
Bethpage, NY
0.2 CEU Credits
6:30PM Refreshments 7:00PM Lecture

March 13th

EMC Society Meeting
Small Profile, Light Weight on Board Shielding for Minimum Board Space and Lower Profile
By Jeff Davis and Timothy Liu
BAE Systems
Greenlawn, NY
6:00PM Refreshments 6:30PM Meeting

March 18th

EXCOM Meeting
Telephonics
Farmingdale, NY
5:45PM Dinner 6:15PM Meeting

March 21st

Awards Ceremony
Fox Hollow
Woodbury, NY
6:00PM

March 22nd

International Energy and Sustainability Conference
SUNY Farmingdale
Farmingdale, NY

March 28th

SSIT Society & PACE Meeting
Education on Long Island: Update on Challenges and Opportunities
NYU-Poly, Long Island Graduate Center
Melville, NY
6:00PM Refreshments 6:30PM Lecture

April 2013

April 4th

LICN and PACE Meeting
How to Succeed in Sales Engineering: Tips From a Seasoned Sales Manager
By Russell Pepe, Advanced Technical Marketing
Briarcliffe College - The Great Room
Bethpage, NY
0.2 CEU Credits
6:30PM Refreshments 7:00PM Lecture

April 24th

SSIT and PACE Meeting
Building the First "Steamship" in History
By John Laurence Busch
Telephonics
Farmingdale, NY
6:00PM Refreshments 6:30PM Lecture

April 29th

EXCOM Meeting
Telephonics
Farmingdale, NY
5:45PM Dinner 6:15PM Meeting

For more information about these meetings and lectures,
please visit:

<http://www.IEEE.LI/calendar/index.htm>



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The IEEE LI Section Website

The IEEE LI Section website is update regularly to reflect recent section activity and upcoming events. Each society and affinity group has a dedicated page which describes their function and includes contact information.

Visit our site at: www.IEEE.LI

Consultant's Network of Long Island

The Consultant's Network of Long Island maintains a referral service of engineering, computer, managerial & technical professionals. For more information, please visit their website at www.consult-li.com.

Membership Development

For more information on membership with the Long Island Section of the IEEE contact:

Nikolaos Golas 631-755-7059

membership@IEEE.LI



IEEE

Is Proud to Announce the

IEEE LONG ISLAND SECTION ANNUAL AWARDS BANQUET

Thursday March 21st, 2013 at 6:00 PM

Fox Hollow, 7725 Jericho Turnpike, Woodbury, NY

Contact John Vodopia at: jvodopia@gmail.com for ticket information

Mr. Scott B. Abrams, The Omnicon Group, **Long Island Section Alex Gruenwald Award** for encouraging young people to pursue engineering and his exemplary leadership and technical contributions to Reliability Engineering

Dr. John Smedley, Brookhaven National Laboratories, **Long Island Section Charles Hirsch Award** for contributions to the advancement of photocathode technology

Mr. Roderic Lowman, formerly of AIL Systems, **Long Island Section Lifetime Achievement Award** for his 70 years of exemplary service to the IEEE in a wide variety of capacities

Dr. Babak Beheshti, New York Institute of Technology, **Long Island Section Athanasios Papoulis Outstanding Educator Award** for passion and dedication to teaching and motivating students to be the best engineers and technologists that they can be

Mr. Walter Poggi, Retlif Testing Laboratories, **Long Island Section Harold Wheeler Award** for outstanding technical and managerial accomplishments during the more than 30 years of Retlif Testing Laboratories

Mr. Rafael M. Perez, Exelis, **Long Island Section Outstanding Young Engineer Award** for the development of an improved frequency modulator/combiner for advanced jamming systems

Mr. Gary Z. Gu, Telephonics, **Long Island Section Outstanding Volunteer of the Year Award** 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

The College of Engineering and Applied Sciences of Stony Brook University, **Friend of the IEEE Long Island Section Award** 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

Hofstra University Student Chapter, **Outstanding Student Chapter Award**, for starting an IEEE Eta Kappa Nu Honor Society and for demonstrating a clear understanding of the IEEE ideals of ethics

Mr. John Cosenza, BAE Systems, **Region 1 Award** for managerial leadership in the development and implementation of aircraft low-observable antenna system and jam-resistant GPS antenna systems

Mr. Eric Darvin, L-3 Communications, Narda Microwave-East, **Region 1 Award** for technical contributions and managerial leadership in the design of wideband microwave receiver subsystems and components

Mr. Marc Frankel, Telephonics, **Region 1 Award** for outstanding technical innovation in the development of identification friend or foe transmitter technology

Dr. Zheng Li, Brookhaven National Laboratory, **Region 1 Award** for the development of novel silicon detectors in photon science and particle physics research

Mr. David Mesecher, Northrop Grumman, **Region 1 Award** for innovations in antenna array and smart antenna signal processing for radar and commercial and military communications

Mr. John Nastro, Exelis, **Region 1 Award** for outstanding leadership in the technical and program management of complex real-time integrated electronic warfare systems

Dr. Charles P. Rubenstein, Pratt Institute, **METSAC Recognition Award** for excellence in leadership and tireless commitment to the Region 1 of the IEEE and its members during his tenure as Director

Mr. Glenn Zorpette, IEEE Spectrum Magazine, **Fellow Award** for contributions to professional communications in electrical and electronics technology

FEATURING KEYNOTE ADDRESS BY

Robert A. Williams
Vice President - Standards,
Underwriters Laboratories Inc.



"The Role of Standards in Today's
Society and Economy"

Award descriptions and nomination information can be found at: www.IEEE.LI/awards

Awards Banquet Supporter Opportunities

If you would like to help the IEEE Long Island Section defray some of the costs of the 2013 Awards Banquet, you may consider requesting support from your company.

We appreciate your help in making our 2013 Awards Banquet a success!

Platinum Supporter

\$2500.00

- One Table (10 people)
- Full page COLOR ad in banquet program and a listing in the Supporter Honor Roll
- One year listing in the Long Island Section Newsletter, *The Pulse*
- Additional tables for \$1000.00 each
- Four registrations to the 2012 LISAT Conference

Gold Supporter

\$2000.00

- One Table (10 people)
- Half-page COLOR ad in banquet program and a listing in the Supporter Honor Roll
- Additional tables for \$1000.00 each
- Four registrations to the 2012 LISAT Conference

Silver Supporter

\$1500.00

- Six complementary tickets
- Quarter-page COLOR ad in the banquet program and a listing in the Supporter Honor Roll
- Two registrations to the 2012 LISAT Conference

Bronze Supporter

\$1000.00

- Four complementary tickets
- Listing in the Supporter Honor Roll
- Two registrations to the 2012 LISAT Conference

Advertising Option A

\$750.00

- Full-page COLOR ad in the banquet program
- Listing in the Supporter Honor Roll

Advertising Option B

\$500.00

- Half-page COLOR ad in the banquet program
- Listing in the Supporter Honor Roll

Advertising Option C

\$250.00

- Quarter-page COLOR ad in the banquet program
- Listing in the Supporter Honor Roll

Reception Co-Sponsor

\$500.00

- Poster (2' X 1.5', supplied by co-sponsor) displayed at banquet serving table
- Listing in the Supporter Honor Roll

**To sponsor the 2013 Awards Banquet or to submit an advertisement,
please contact John Vodopia at jvodopia@gmail.com**

The deadline for inclusion in the Banquet Program is March 1, 2013. Payment is due at time of order.
Please note that advertising space is limited, and is offered on a first come, first serve basis.

Awards Banquet Registration Form

IEEE Long Island Section 2013 Annual Awards Banquet Thursday, March 21, 2013

Member and Member's Guests - \$40.00 (each person)

Non-Members - \$60.00 (each person)

Make checks payable to: IEEE Long Island Section

Send this form with your payment by March 20th, to:

John Vodopia
IEEE Awards Banquet
54 Cherry Lane
Huntington, NY 11743

IEEE Member Name: _____

Guest Name: _____

Guest Name: _____

Guest Name: _____

Company: _____

Address: _____

City & Zip: _____

Home phone: _____ Business phone: _____

E-mail address: _____

Amount Enclosed: \$ _____

For more information about registration to the Awards Banquet, please contact John Vodopia at jvodopia@gmail.com

Long Island's Electronic History

By Jesse Taub, IEEE Long Island Historian

As most of you know by now, the year 2013 is the 60th Anniversary of our Section and the 50th Anniversary of the merging of the IEE and IRE to form the IEEE. We are using these occasions to look back to those years. We are fortunate to have the recollections of Rod Lowman, the Section's Historian for many years who will be receiving our Section's Lifetime Achievement Award at our Banquet on March 21, 2013.

Fifty Year Memories of the IEEE

By Rod Lowman

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, sharing the latest developments of hundreds of companies which populated the Island.

When Jim Shepard, who was chairman of the N.Y. 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 2 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, Joel Snyder with our interest in ethics, and 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 ALIES (Alliance of Long Island Engineering Societies).

For a number of years before the merger I had been head of the techniques section at AIL. This group of uninhibited free thinkers brainstormed ways to identify and locate enemy radars. Many of these techniques were later built into systems. Gene Fubini used many in the USD-7. Gregg Stephenson used some in the first satellite reconnaissance system, and at merger time, we were using many in the surveillance equipment AIL was designing for Lockheed's SR-71 mach 3 aircraft for overflying Russia and other hot spots. This system was similar in complexity to the B-1 system development, but being a crash system and black we could use many shortcuts which minimized the cost. Having worked on both systems I would estimate that the cost of the SR-7 was between 1 and 10% of the cost of the B-1. Meanwhile, at home, we were hosting an American Field Service student, Hiko, from Japan for a year. Two years after he returned, my wife, Ginny, was planning a respite from the 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 in her planning, on one leg of the trip we flew into Leningrad, rented a Russian car and drove 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 continued trying 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 adapt the approach.

The excitement and enjoyment have been enhanced, too, 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 one, 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.

March Lectures and Seminars

The IEEE Consultants Network of Long Island (LICN) is presenting a lecture titled:

Electrostatic Discharge and The New LED Lighting Industry

By Robert Ashton, Jon Connell, and William H. Siegel

Wednesday, March 6, 2013

6:30PM Refreshments 7:00PM Lecture

Briarcliffe College - The Great Room

Bethpage, NY

0.2 CEU Credits

Who Should Attend? Anyone who desires a better understanding of electrical over stress and electrostatic discharge issues.

Abstract: This lecture will present technical material regarding protection of electronic products from the potentially damaging effects of electrostatic discharge (ESD) events. The presentation will include explanations of the underlying physics of ESD events and methods by which those events can be prevented and/or protected against. References will be offered to a number of applicable, world-wide industry anti-ESD standards.

About the Speakers: **Mr. Ashton** joined ON Semiconductor in 2007 in the Discrete Products Division as a Sr. Protection and Compliance Specialist after 3 years as Director of Technology at White Mountain Labs, a provider of ESD and latch-up testing of integrated circuits. Before that he was a Distinguished Member of Technical Staff at Agere Systems, Bell Labs Lucent Technology, and AT&T Bell Labs, in integrated circuit technology development.

Mr. Siegel is the president of Crownlite Mfg. Corp. (www.crownlite.com), a prime manufacturer specializing in the design, engineering, and manufacture of hi-efficiency, energy saving, new and retrofit, standard and custom, Lighting Systems, Plug-in Electrical Power and Data Distribution Systems, and Mechanical Components.

Seminar Coordinator: John Dunn. For more information, please contact John Dunn at 516-378-0979.

Registration: The presentation is open to the general public. Pre-registration is not required, but is requested if CEU credit is planned. Please send pre-registration e-mail to ambertec@ieee.org. There is no admission fee, but there is a \$25 fee for CEU credit.



IEEE Region I Awards

IEEE Region I Award Nominations Sought

By Jesse Taub - Awards Chairman

The IEEE Long Island Section has been successful in the number of Region I nominees that have been given awards. Our Section's Awards Committee is now soliciting Region I nominations for 2013. Information about the various categories of awards and nomination forms can be obtained from our Section's website (ieeeli.org). Once you are on the home page, click on Awards. You will find information on various awards, including those for Region I. While nominations are due by June 15, our Committee must have them no later than June 1; they need to be reviewed and signed by our Section Chairperson. Please send all nominations and any questions to: jjtaub@aol.com.

March Lectures and Seminars (continued)

The Long Island Chapter of the IEEE Society on Social Implications of Technology (SSIT) and the Professional Activities Committee for Engineers (PACE) are presenting a joint lecture titled:

Education on Long Island: Update on Challenges and Opportunities STEM (Science, Technology, Engineering, Mathematics)

Thursday, March 28, 2013
6:00PM Refreshments 6:30PM Lecture
NYU-Poly, Long Island Graduate Center
Melville, NY

Abstract: On November 11, 2010 the **IEEE Long Island Section** presented the discussion "**Education on Long Island: Opportunities and Challenges.**" It continued with another meeting on October 20, 2011 with "**Education on Long Island: Opportunities and Challenges, Part 2**" and then on March 20, 2012 the Section presented the lecture "**STEM Magnet Academy Activities at the Cradle of Aviation Museum.**"

All three meetings focused on the effectiveness and efficiency of the Educational Programs and projects aimed at attracting more students to scientific and technical professions and improving the learning outcome of K-12 students who participate in math and science courses. All meetings were successful and presented important information. We are still just beginning and need to continue the effort. There are very successful programs underway within the Long Island schools.

The aim of the **IEEE Long Island Section** is to promote **STEM (Science, Technology, Engineering, Mathematics)** and prepare Long Island students with skills to be part of the high-tech workforce in order to support economic growth in our region.

As stated in our previous presentations: "**We are concerned about the ability of a teacher to present learning programs to students and if we can, we would like to help.**" "**Can we help? What would be the schools or teachers reaction to help?**"

Seminar Coordinators:

Mr. Victor G. Zourides, Chair SSIT (Society on Social Implications of Technology), IEEE LI Section
Mr. Nikolaos Golas, Chair PACE (Professional Activities Committee for Engineers), IEEE LI Section

Registration: Registration is required. To register please visit the calendar page of the IEEE Long Island Website, WWW.IEEE.LI, click on the registration link, and fill out the form. All are invited and the lecture is free.

Energy Conference

**Farmingdale
State College**
State University of New York



**Renewable Energy
& Sustainability Center**
at Farmingdale State College

Save the Date

March 22, 2013

International Energy and Sustainability Conference **Renewables in Smart Grid Technology for a Sustainable Future**

The following topics were discussed at IESC 2012 and we will be announcing the upcoming topics for the 2013 conference based on your suggestions. Please contact us with your ideas or to let us know how you would like to be involved. Sponsorships and vendor opportunities are still available.

IESC 2012 Topics

Renewable Energy: Solar PV, Solar Thermal, Wind, Geothermal, Tidal Power

Sustainability: LEED / Green Building, Passive House, Recycling, Waste / Water Management

Alternative Vehicle: Electrical, Mechanical, Fuel Cells, Battery

Smart Grid: Smart Metering, Security, Policy, Supervisory Control, Bio-Fuel and Data Acquisition

Energy Storage: Hydrogen, Hybrids / PHEV, Electric

Learn about current technologies and new concepts through abstract presentations, workshops, networking, vendor interaction and keynote presentations from invited speakers with a broad range of qualifications. This includes: New York State legislators, representatives from federal energy related agencies, power authorities, energy and green building related firms and academia

If you or your company would like to be featured as a sponsor of the IESC 2013 and have the opportunity to show your support as a leader in the field of energy and sustainability, contact us at:

smartgrid@farmingdale.edu

631.794.6175

www.farmingdale.edu/iesc



Students: Energize Your Future!

Join the IEEE Power & Energy Society for FREE!

This offer ends 15 August 2013

With over 29,000 members around the globe representing every facet of the electric power and energy industry, PES is at the forefront of the rapidly changing technological advancements that impact everyone's future.

LEARN about current research and application of recent technologies such as wind, photovoltaics, fuel cells, distributed generation, flexible AC transmission, energy storage, smart grids, and more.

STAY INFORMED about the latest developments in traditional technologies and the new opportunities created as today's technological and financial situations impact the power and energy industry.

NETWORK with experienced professionals in all aspects of the industry at local, regional and international meetings. Save really big on conference registration fees, too. Some are even free!

If you have not previously been a PES member, we'd like to introduce you to the benefits of membership by offering the FIRST YEAR FREE.

To be eligible for this offer you must be an IEEE Student Member. See details below about adding PES membership to your existing IEEE Student membership, or about joining both IEEE and PES.

Already an IEEE Student Member? JOIN PES FOR FREE RIGHT NOW!

You must already have renewed your IEEE Student Membership for 2013 after 15 September to take advantage of this offer.

- Go to: http://www.ieee.org/go/PE_add (case sensitive)
- Login with your IEEE Web Account. (No web account yet? Visit www.ieee.org/web/web/accounts).
- IEEE Power & Energy Society Membership will appear in the mini-cart after login.
- Click "View Cart/Proceed to Checkout."
- At the Shopping Cart, enter **PES13STUAD** in the promotion code box next to IEEE Power & Energy Society Membership. (Note: This code is effective 15 September 2012 - 15 August 2013.)
- Click "Recalculate Totals" at the bottom of the page. From there, you may "Checkout" or browse.

Not an IEEE Student Member yet?

FREE PES MEMBERSHIP WHEN YOU JOIN IEEE AS A STUDENT MEMBER TODAY!

- Log on to: http://www.ieee.org/go/PE_student (case sensitive)
- Create your IEEE Web Account.
- IEEE and IEEE Power & Energy Society Memberships will both appear in the mini-cart after login.
- Click "View Cart/Proceed to Checkout."
- At the Shopping Cart, enter **PES13STUNW** in the promotion code box next to IEEE Power & Energy Society Membership. (Note: This code is effective 1 September 2012 - 15 August 2013)
- Click "Recalculate Totals" at the bottom of the page. Your total will reflect the cost of IEEE Student Membership only. From there, you may "Checkout" or browse.

Energize YOUR Future with PES!

LISAT2013

Ninth Annual Long Island Systems, Applications, and Technology Conference Planned for May 2013

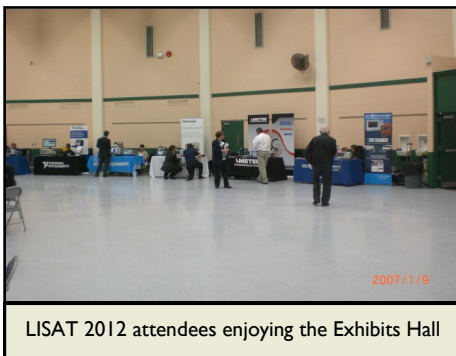
By Dave Mesecher

The Long Island Section of the IEEE and IEEE Region 1 are once again sponsoring the Long Island Systems, Application, and Technology (LISAT) Conference. This year is the ninth year of the Conference. It will be held on May 3, 2013 at Farmingdale University.

LISAT 2013 is delighted to have as our opening keynote speaker Mr. Bruce Willins, Senior Director of Research at Motorola Solutions, who will be speaking on the latest technology developments by Motorola Solutions on Long Island. Following the opening ceremony, there will be three parallel technical tracks, a product applications track, and a CEU session. The LISAT Technical Program Committee is currently busy reviewing manuscripts and preparing the program.



One of the three parallel LISAT 2012 Technical Tracks



LISAT 2012 attendees enjoying the Exhibits Hall

An Exhibits Hall once again will feature many of Long Island's technology-industry companies, universities, professional societies, and economic-development organizations.

The Exhibits Hall will once again be the site of the LISAT raffle, where attendees have a chance to take home some valuable prizes. Anyone interested in participating in the Exhibits Hall please contact the LISAT 2013 Exhibits Chair Gil Lipper at gil.lipper@atm1.com.

As in previous years, LISAT, in conjunction with the Farmingdale College Foundation, has provided scholarships to FSC students, and the tradition will continue this year with nine scholarships being awarded to FSC engineering-technology students, and two scholarships outside of engineering – one to a student in the school of arts and sciences recognizing the social implications of technology, and one to computer systems student.

For more information on LISAT 2013 please contact this year's Conference Chair, Mr. Dan Rogers at drogers@ieee.org, or Dr. Ron Pirich, the Technical Program Chair, at rpirich@gmail.com.



LISAT 2012 Scholarship Winners with Dr. Hubert Keen, FSC President and Mr. Richard Overton, FSC Foundation President

LISAT2013 Registration

LISAT2013 Registration information

	<u>Before April 1st</u>	<u>After April 1st</u>
IEEE Members	\$125.00	\$150.00
Unemployed IEEE Members	\$35.00	\$35.00
IEEE Student, Graduate Student & Life Members	\$50.00	\$75.00
Non-IEEE Members and Students	\$175.00	\$200.00
Licensed Professional Engineers	\$125.00	\$150.00
Long Island Section ExCom Members	\$50.00	\$75.00
IEEE Student Member Authors ONE presenting author	NO CHARGE	\$50.00
IEEE Member (Non-Student) Authors ONE Presenting author	\$75.00	\$125.00
Non-IEEE Member Student Authors ONE Presenting author	\$35.00	\$50.00
Non-IEEE Member (Non-Student) Authors One Presenting author	\$100.00	\$150.00

CEU Credits \$30.00 (in addition to registration fees)

LISAT Exhibitors:

1st additional attendee: \$50.00 *After April 1st* \$75.00
 2nd additional attendee: \$75.00 *After April 1st* \$100.00

Farmingdale Faculty, Students & Staff - Please see Dr. Fiorillo

****PLEASE NOTE: Registrations are non-refundable****

For additional information on LISAT2013, please contact:

Conference Chair: Dan Rogers at drogers@ieee.org

Conference Co-Chair: Dr. Charles Rubenstein at c.rubenstein@ieee.org

Exhibitors are still needed. If you would like to be an exhibitor or for more information on exhibiting at LISAT2013, please contact exhibits@ieee.li

Visit the LISAT2013 Conference website: www.ieee.li/lisat

LISAT2013**LISAT2013 Exhibitor and Supporter Information****Conference Exhibitor**

The LISAT2013 Exhibit area will have raffles and door prizes. Exhibitors are permitted to donate, for official conference raffling, promotional “giveaways.” Each Exhibitor will be asked to provide a description of products and technologies being exhibited and the identity of any expert attending on behalf of the Exhibitor to educate, demonstrate, and answer questions about the exhibit. This information will be published in the April 2013 issue of the IEEE’s Pulse newsletter.

During early registration (before April 1, 2013), a registration fee of \$250.00 entitles an Exhibitor to one exhibit table and one accompanying full day registrant. Exhibitors may invite guests at no additional charge (more than 25 guests will be subject to preapproval of the organizing committee) to visit the Exhibit Hall beginning at 1:00pm until the close of LISAT2013. They will also have the option to attend any other NON-CEU/PDH LISAT2013 afternoon events.

Conference Supporters**Sponsor Level**

Primary Sponsor	\$3000.00
Senior Sponsor	\$2000.00
Sponsor	\$1500.00

All Sponsor Level supporters will be invited to send four (4) guests to the Long Island Section Annual Awards Banquet, Thursday, March 21, 2013. Sponsor Level supporters will also receive one (1) complimentary exhibit booth in the Exhibits area two (2) full day exhibitor registrations, as well as the option to invite ten (10) afternoon guests to LISAT2013. Sponsors Level supporters may elect to have their corporate banner displayed in the Exhibits Area. An 11x17 poster will note all Sponsor Level Supporters.

Function Level

Conference Luncheon	\$1500.00
Speakers Breakfast	\$1000.00
Conference Breaks	\$1000.00

All Function Level supporters will be invited to send two (2) guests to the Long Island Section Annual Awards Banquet, Thursday March 21, 2013. All Function Level supporters will also receive one (1) complimentary conference registration and the opportunity to have their corporate banner displayed during the function they are supporting. An 11x17 poster will note the Function Level supporters at the function(s) they are hosting.

All LISAT2013 supporters will be listed in the LISAT Conference Program and in the IEEE Long Island Section Newsletter – The Pulse

To exhibit at or support LISAT2013 or for more information, please contact Gil Lipper at Gil.lipper@atml.com

Visit the LISAT2013 Conference website: www.ieee.li/lisat

Job Fair**MTA Bridges & Tunnels
Engineering & Construction
Job Fair****Tuesday, March 19, 2013**

2 Broadway, 20th Floor

Rooms A, B, & C

New York, NY

8:00am to 5:00pm

****Photo ID Required to Enter the Building**

The MTA Bridges and Tunnels Engineering and Construction Department is looking for well-rounded engineers with Design, Project Management, Construction Management, Structural, Mechanical and Electrical engineering experience. Some supervisory and senior positions may require a Professional Engineer license and 10 years' experience, while entry-level and up to Project Manager positions may require from 1 to 5 years' experience.

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March Lectures and Seminars (continued)

The Long Island Chapter of IEEE EMC Society is presenting a lecture titled:
Small Profile, Light Weight on Board Shielding for Minimum Board Space and Lower Profile

By Jeff Davis and Timothy Liu
Wednesday, March 13, 2013
6:00PM Refreshments 6:30PM Lecture
BAE Systems Inc.
Greenlawn, NY

Who Should Attend? Any individual involved with designing PCB's or mechanical housings that requires onboard shielding or housings that have unique shielding requirements.

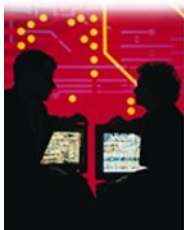
Abstract: The presentation will contain information useful for the attendees who currently use metal cans or multi cavity metal housings screwed down to eliminate on board interference. Also valuable for designers who work on housings that are used for EMI shielding and requires some type of gasket. Technologies discussed will be: Robotically dispensed conductive gasket (Form in Place), metallizing plastic via Physical Vapor Deposition, conductive polymers, design with a combination of metal/metalized plastic/FIP and conductive polymers for optimal size, form factor and weight for your system.

About the Speakers: **Jeff Davis** founded TennMax and has over 30 years of industry experience and has opened 4 different EMI manufacturing facilities located in the USA, Taiwan and China.

Timothy Liu has a Masters Degree in Microwave Technology from the University of Hong Kong and has been involved in the development and application of conductive polymers and adhesives. He also has expertise in different metal options and the use of metallized plastics.

Seminar Coordinator: Mr. Sandy Mazzola, BAE Systems Inc (Greenlawn).

Registration: To register please visit the calendar page of the IEEE Long Island Website, WWW.IEEE.LI, click on the registration link and fill out the form.



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60th Anniversary logo

2013 marks the 60th Anniversary of the IEEE Long Island Section. Our Section was started as an Institute of Radio Engineers (IRE) chapter in 1947. It became a full Section of the IRE (the predecessor to IEEE) in 1953.

To mark the 60th Anniversary celebration we have designed the logo below that we will utilize for our Section's website, Pulse newsletter, 2013 Awards Banquet Program, and correspondence.



Industry News

Telephonics' Systems Engineering Group Awarded Contract With Naval Surface Warfare Center

Telephonics Corporation announces a contract awarded to its Systems Engineering Group (SEG) from the Naval Surface Warfare Center (NSWC), Corona Division to support the Aegis Ballistic Missile Defense (ABMD) system. The contract value is \$11.5 million for the base year with a cumulative value of \$35.5 million when the two option years are exercised.

Under the contract, SEG will provide integrated weapon system and missile development, test and evaluation support services. These support services include data generation through the use of analytical system and threat engineering tools, computer modeling and simulation, and hardware enhancements. SEG will assess and analyze the performance of existing and future ABMD systems, relative to current and projected threat systems, and support the development of robust and capable future system designs.

"We are extremely pleased that NSWC has once again chosen us to provide this specialized and critical engineering support for the ABMD program," said Mr. Joseph J. Battaglia, President and CEO of Telephonics Corporation. "This continues SEG's long contractual relationship with NSWC Corona which began in 1999, and is based on our unique capabilities in support of missile and weapon system development."

Jobs Corner

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Industry News

Telephonics' RDR-I700B Radar Selected by SAAB

Telephonics Corporation announces that their RDR-I700B radar was chosen for Piaggio Aero's extendedwing Maritime Patrol Aircraft (MPA). SAAB, working directly with Piaggio Aero, chose the RDR-I700B for its advanced maritime surveillance capabilities. The radar will serve on MPA aircraft for all maritime surveillance missions, providing airborne maritime patrol, search and rescue functionality, Economic Exclusion Zone patrol, fisheries protection, and integrated Automatic Identification System.

"The diversity of the RDR-I700B enables it to be more than a maritime radar, it can easily switch to overland or littoral surveillance, providing consistent situational awareness for operators of the Piaggio Aero MPA," said Mr. Kevin McSweeney, Telephonics' Chief Operating Officer.

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Young Engineer Recognized as IEEE/IEEE-USA New Face of Engineering

Maria Vlachopoulou, an engineer at Pacific Northwest National Laboratory in Richland, Wash., is the 2013 IEEE/IEEE-USA New Face of Engineering – Professional Edition.

The program, sponsored by the National Engineers Week Foundation, highlights the vitality, diversity and rich contributions of engineers under 30.

Vlachopoulou is developing new tools to more effectively incorporate renewable energy sources such as wind and solar into our nation's electric grid. Her research interests are in power systems, statistical and mathematical modeling and system optimization.

"Maria's breakthrough work in computer algorithms and mathematical methods help transition the U.S. power grid to a more efficient and robust system," IEEE Richland Section Chair David McKinnon said in his nomination letter.

Vlachopoulou is a member of the IEEE Power & Energy Society, IEEE Signal Processing Society and Society of Women Engineers. She is founding chair of the Richland Section Women in Engineering affinity group, vice-chair of the section's Graduates of the Last Decade (GOLD) affinity group and assistant coordinator of the FIRST LEGO League annual tournament in the Tri-Cities, Wash., area.

She and 12 other young engineers were featured in a full-page Engineers Week ad that ran in *USA Today* http://www.eweek.org/Site/Engineers/newfaces2013/USAT_2013_new_faces.pdf

IEEE-USA's Free E-Books to Members in March Focus on High-Tech Strategy & Leadership

As a special benefit to IEEE members in March, IEEE-USA E-Books will offer "Launching Your Career -- Book 3: A Practitioner's Guide to Leadership," by Dr. Barry L. Shoop. Col. Shoop is a professor in the Department of Electrical Engineering and Computer Science at the United States Military Academy.

This e-book is a compilation of insights from numerous scholarly references and includes examples from Shoop's personal leadership experiences. It provides a starting point for those interested in becoming more effective leaders -- stimulating thought, motivating

practice and inspiring reflection.

Other e-books in the series include: "Launching Your Career-Book 1: How to Find Your Perfect Job"; "Launching Your Career-Book 2: How to Make the Transition from Classroom to the Office"; and "Launching Your Career-Book 4: Lifelong Learning -- Your Key to an Enjoyable and Rewarding Career."

To purchase IEEE members-only products and to receive the member discount on eligible products, members must log in with their IEEE Web account.

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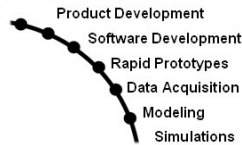
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