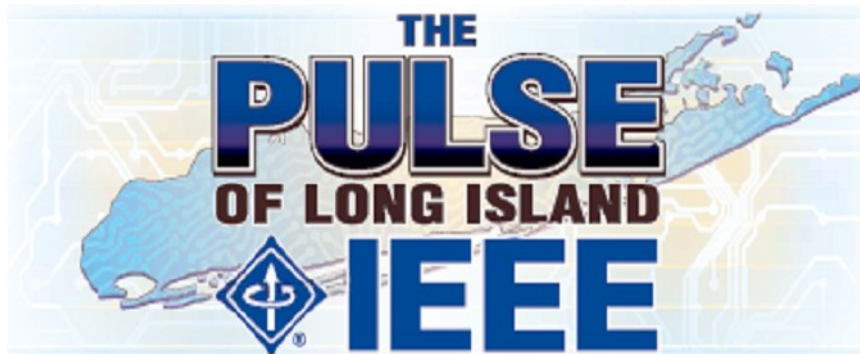


PRODUCED BY THE
LONG ISLAND
SECTION OF THE
INSTITUTE OF
ELECTRICAL &
ELECTRONIC
ENGINEERS



Volume 60, No. 25

May 2012

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Chair's Message By Susan Frank, Chair IEEE Long Island Section

Hello again. I hope you've managed to get away from your work long enough to enjoy this wonderful weather we've been having. Remember that everyone benefits when you keep your mind clear by taking in some fresh air once in a while. Being an optimist, I am inclined to believe that the economy is improving. Nevertheless, recent local layoffs and defense procurement statistics make me inclined to recommend that you keep on your toes. If you want to be prepared for anything in this turbulent economy, why not start with professional development and networking that your membership dollars support? Don't wait until you're in the midst of a job search to start.

During April, we had several successful networking events. The IEEE Consultants Network of Long Island featured "Going Beyond S-Parameters" by Eric Oseassen. On April 17th, the Computer Society sponsored a networking event and talk entitled "Taking Software to the Market - Usability Testing" by Jason Gorelkin. On April 19th, the EMC Society Meeting featured "Permanent Magnet Fundamentals 101" presented by Michael Devine. On April 26th, SSIT, PACE, GOLD, WIE and Life Members co-sponsored a meeting entitled "Nikola Tesla Unplugged! Connecting the Dots a Century Later", featuring Nicholas Simos.

day, May 4, 2012 at Farmingdale State College. The conference offers four parallel tracks in Systems, Applications, Technology along with the Product Applications Track and the Professional Development track titled "Power/Energy/Industrials". Attendees can earn up to 6 PDH or 0.6 CEUs by attending courses in one of the following topics: Overhead System Condition Assessment and Maintenance, and Arc Flash Mitigation Strategies for Metal-Clad Switchgear and Generator Sizing Pitfalls. I am sure that you will find these topics of interest.

Efforts are under way in starting the Entrepreneurs' Network. There are already more than the required 12 members required for a new Affinity Group. Look for an article outlining the goals and plan for this exciting endeavor.

Check the IEEE Long Island Section Calendar in this newsletter, or our website, for details about the many technical meetings, conferences, and workshops. If you wish to attend the monthly Executive Committee meeting please drop me an email so I can add your name to the attendance list.

Best Regards,
Susan Frank
Chair IEEE Long Island Section
chairman@IEEE.LI

There are only a few days left until the [2012 IEEE Long Island Systems, Applications and Technology Conference](#) on Fri-

Calendar of Events

May 2012

May 2nd

IEEE Consultants Network of Long Island
Speed and Position Controllers
By Martin Kanner
Briarcliff College- Bethpage, LI
7:00pm

May 4th

Long Island Systems, Applications, and Technology
Conference (LISAT)
8:30am - 5:00pm
SUNY Farmingdale - Farmingdale, LI

May 21st

EXCOM Meeting
6:15pm Dinner 6:45pm Meeting
Telephonics - Farmingdale, LI

May 22nd

Computer Society Meeting
Constraints in the Mobile World
By Robert Gezelter
6:00pm Refreshments 6:30pm Lecture
Motorola Solutions - Holtsville, NY

May 24th

Employment Assistance Committee Meeting
Adult Programs for Unemployed or Under-Employed
6:00pm
Huntington Public Library - Huntington, LI

June 2012

June 6th

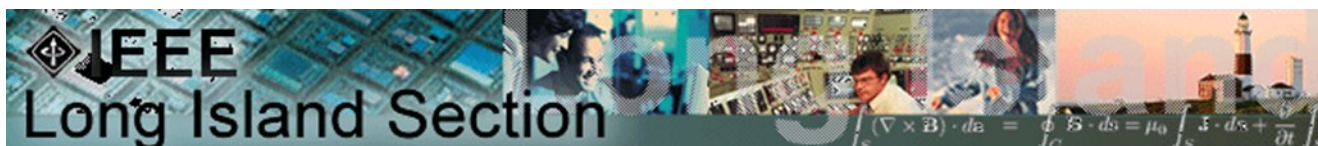
IEEE Consultants Network of Long Island
Briarcliff College- Bethpage, LI
7:00pm

June 6th

Microwave Theory & Techniques Society Meeting
Micromachined Microwave and Millimeter Wave Circuit Design
By Dr. Shiban K. Koul
6:00pm Refreshments
L-3 Communications Narda Microwave - Hauppauge, LI

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

LISAT2012- Long Island Systems, Applications and Technology Conference

LISAT2012

Long Island Systems, Applications and Technology Conference

The IEEE Long Island Section's Annual Conference

Friday, May 4, 2012

Farmingdale State College

Farmingdale, New York

7:30am sign-in 8:00am conference begins

The IEEE Long Island Section in cooperation with its technical society chapters and IEEE Region One will hold the 2012 Long Island Systems, Applications and Technology Conference (LISAT2012) on Friday, May 4, 2012 at Farmingdale State College of the State University of New York. This eighth annual Conference will feature presentations that highlight new and interesting work on a variety of electronic systems, technologies and applications - most of which are Long Island based, as well as a graduate student paper track. There will also be a full-day Professional Development Track which will provide attendees up to 0.6 CEUs (6 PDHs).

Program at a Glance

Three all-day parallel systems, applications and technical tracks

Product Applications Track

Four lectures on practical applications of tools and equipment

Independent six-hour CEU/PDH Track

"Power/Energy/Industrials"

0.2 CEU (2PDH) credits available for each 3 topics in this track. Pick and choose the topics of your interest.

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

**For more information or to register for LISAT2012,
please go to**

www.ieee/li/lisat

LISAT 2012 Registration

LISAT2012 Registration information

	<u>After April 1st</u>
IEEE Members	\$150.00
Unemployed IEEE Members	\$50.00
IEEE Student, Graduate Student & Life Members	\$75.00
Non-IEEE Members and Students	\$200.00
Licensed Professional Engineers	\$150.00
Long Island Section ExCom Members	\$75.00
IEEE Student Member Authors ONE presenting author	\$50.00
IEEE Member (Non-Student) Authors ONE Presenting author	\$125.00
Non-IEEE Member Student Authors ONE Presenting author	\$50.00
Non-IEEE Member (Non-Student) Authors One Presenting author	\$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 LISAT2012, please contact:

Conference Chair: Dan Rogers at drogers@ieee.org

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

Visit the LISAT2012 Conference website: www.ieee.li/lisat

May Lectures & Seminars

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

Speed and Position Controllers

By Martin Kanner, KEMCO—Power Controls

Wednesday, May 2, 2012

Refreshments 6:30pm Lecture starts at 7:00pm

Briarcliffe College (The Great Room) Bethpage, LI

0.2 CEU Credits

Who Should Attend? Anyone who desires a better understanding of the issues underlying feedback control systems from both theoretical and practical standpoints.

Abstract: This lecture will present technical material regarding electromagnetic speed control and positional control using a variety of feedback loop techniques. The presentation will include a comparison of open loop vs. closed loop performance, definitions of closed loop classifications (type zero, type 1, type 2) and their performance differences, logarithmic transforms, LaPlace transforms, transfer functions and Bode analysis. The analysis will show how performance and stability are predicted. A multiple closed loop will be described and the reasons for the use of an outer and an inner loop will be explained.

About the Speaker: Martin Kanner is a leading capability in the fields of motion control, switching supplies, feedback and feed-forward control systems. He has three degrees, a BSAE, a BSEE, and an MSEE, all from NYU. He is a member of Eta Kappa Nu and Tau Beta Pi honorary societies and also holds three patents.

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.**

Seminar Coordinator: John Dunn at 516-378-0979.



Long Island's Electronic History

By Jesse Taub, IEEE Long Island Historian

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.

Decilog – A Half Century of Serving Long Island Businesses and the Nation's Military by Dr. Warren Axelrod

Decilog was founded almost 50 years ago by John Marchesano, a business-minded engineer from Long Island, New York. He formed Decilog Inc. as a quick-reaction technical services company providing high-level scientific, engineering, and management support to government and industry. The name of the company is derived from the words DECision-LOGic, which remains as appropriate today as it was in the early years.

It is a testament to the firm's flexibility and endurance that Decilog has continued to grow steadily throughout its history to its current level of 45 seasoned and experienced employees. Half-a-dozen of our employees have been with Decilog for more than twenty years, contributing their engineering expertise to the firm and to the electrical and software engineering capabilities of Long Island. Here are some of the interesting backgrounds of our "old timers" who are fully active in promoting the work of the firm and supporting its continued success.

Dr. Dick Goldgraben, who was a professor in mechanical engineering at the Polytechnic Institute of New York and a project engineer at Battelle Memorial Institute, came to Decilog in 1972. Dick remains the go-to person for knowledge in such areas as electro-optics, mechanical and optical system design, mathematical modeling, solid and fluid mechanics. He is also responsible for internal security at Decilog.

Jordan Prince, has a background in electro-optics, and has worked in such disciplines as computer control systems, instrumentation and simulator systems. Jordan joined Decilog in 1973 and remains a key contributor to proposals and projects. His subject-matter expertise and vast experience is highly beneficial in supporting current projects.

Art Goldwho was in charge of computer systems for the Chemistry Department at Stony Brook University, joined Decilog in 1979. Art is now a Program Manager for all Decilog programs in support of the Army Software Engineering Center at Picatinny Arsenal, NJ.

Looking back on its history of accomplishments, it is readily apparent that Decilog has been able to solve technical problems in such diverse areas as addressing helicopter combat effectiveness and survivability, building computer models of ground-based air-defense systems, and establishing test and training programs. In more recent times, Decilog has developed and acquired additional expertise in systems and software engineering, cyber security, developing and testing safety-critical weapons control systems and training and educating customers in their use.

Decilog assures continuity and commitment to its customers and employees as a family-owned business with John Marchesano's twin sons, Neal and Scott, who are CEO and COO respectively, at the helm.

Through today, Decilog has maintained John's vision and continues to solve sophisticated problems and offer services relating to conceptual design, requirements development, system analysis, software engineering, rigorous testing, software assurance and training. A particular strength of Decilog's professional team is developing and testing leading-edge security-critical control and information systems.

The company's headquarters are located in Melville, New York, housing many of the company's dedicated systems and software engineers. Decilog has also established key offices at client facilities in order to conduct requirements development, testing, and training both efficiently and productively. Decilog is looking forward to serving the Long Island community and the nation for its next half-century.

Industry News

Town of Hempstead to Receive Two 'Smart-Growth' Awards from Vision Long Island; David Schieren, Solar Consultant to the Town of Hempstead will also be honored

Vision Long Island has once again recognized Supervisor Kate Murray and the Town of Hempstead for their commitment to advancing important community development projects and initiatives. At the organization's 11th Annual Smart Growth Awards in June 2012, Hempstead Town will take home two prestigious awards: one in the category of "Housing Choices" for the transit-oriented Metro 303 apartment complex project in West Hempstead, which replaces the seedy Courtesy Hotel; and two, in the "Certainty & Predictability" category, for the development of a comprehensive mixed-use zoning district in the Hempstead Turnpike Corridor in Elmont.

"I am honored that Hempstead Town is receiving two Vision Long Island awards for our work on the Metro 303 apartment complex in West Hempstead and the mixed-use development zone in Elmont," stated Murray. "These are two of the most important projects we are undertaking here in America's largest township, and the recognition of Vision Long Island shows that we are accomplishing great things for our residents."

Each year, Vision Long Island honors people and recognizes projects that demonstrate a commitment to "smart growth." In West Hempstead, the town created Long Island's first-of-its-kind transit-oriented zone to accommodate the Metro 303 residential apartment complex, being developed by Mill Creek Residential Trust. Each of the 150-unit commuter-friendly apartments has its own gourmet kitchen, stainless steel appliances, granite countertops, a full-size washer and dryer, and walk-in closet. A host of other amenities include a resort-style swimming pool and a welcoming community room.

Hempstead Town will also be honored with an award in the "Certainty & Predictability" category for its development of a comprehensive "mixed use" zone that allows for different types of development within the newly created Hempstead Turnpike-Elmont Zoning District. Developed by Supervisor Murray and the Hempstead Town Board, this forward-thinking zoning proposal addresses several issues and provides a blueprint for downtown revitalization, business growth and economic development along Elmont's Hempstead Turnpike corridor. The zone specifically provides for mixed-use development, allowing business development on the ground floor with housing above, in a portion of the zone.

What's more, David Schieren, of Empower Solar and a consultant to the Town of Hempstead on several of its solar energy projects and seminars, will be receive a Smart Growth Award in Vision Long Island's "Clean Energy" category.

The 11th Annual Smart Growth Awards ceremony will be held on Friday, June 15, 2012 at the Crest Hollow Country Club in Woodbury.

Industry News

Northrop Grumman's Patricia McMahon Honored With Navy League's 2012 Chester W. Nimitz Award for Leadership - First Woman to Receive the Distinction

Patricia "Pat" McMahon of Northrop Grumman Corporation has been named the 2012 recipient of the Navy League of the United States Fleet Adm. Chester W. Nimitz Award.

The award was presented by U.S. Marine Corps Assistant Commandant General Joseph Dunford, Jr., before a luncheon crowd of over 500 people at the Sea-Air-Space Exposition at the Gaylord Resort and Convention Center. McMahon serves as sector vice president and general manager, military aircraft systems for the corporation's aerospace systems' sector.

The Navy League's Nimitz Award honors an industry leader who has made significant contributions to maritime strength and national security. The Navy League selects its winner from an exhaustive field of candidates who best demonstrate the leadership, statesmanship and dedication exhibited by the award's namesake, Fleet Adm. Chester W. Nimitz. McMahon is the first woman to

receive this award since its creation in 1981. McMahon is responsible for U.S. Navy programs including the E-2 Hawkeye, C-2 Greyhound, F/A-18 Super Hornet and E/A-18G Growler, as well as the F-35 Lightning II Joint Strike Fighter, the U.S. Air Force's B-2 Bomber and E-8C Joint Surveillance Target Attack Radar System, and the U.S. Army's Long Endurance Multi-Intelligence Vehicle program. She began her career three decades ago at the Defense Logistics Agency.

The Navy League of the United States is a nonprofit civilian organization whose mission has been to educate American citizens and elected officials about the importance of sea power to U.S. national security for more than 110 years.

K-12 STEM Meeting

K-12 STEM Meeting is a Success!

Lively discussions were had at a seminar on K-12 STEM education co-sponsored by the Long Island Section SSIT Chapter, the Life Member Affinity Group, and PACE. The meeting was held at Telephonics headquarters on March 20th. William Wahlig, Executive Director of the Long Island Forum on Technology (LIFT), and Andrew Parton, Executive Director of the Cradle of Aviation Museum, addressed the topic from the viewpoints of their respective organizations. Parton cited the National Research Council's conclusion that "the strength of the STEM workforce is an indicator of a nation's ability to sustain itself." With respect to Long Island, Parton reported that it is increasingly difficult to get kids excited about science and math, in part because there is a disconnect between students and their knowledge of those careers in science and engineering that may exist locally. Both LIFT and the Cradle of Aviation are working to close this gap. LIFT's goals are to attract and assist companies that require a STEM educated workforce, while the Cradle of Aviation is dedicated to helping create that workforce.

Among the LIFT programs described by Wahlig are its creation of a Homeland Security Research Center, the Long Island Rail Suppliers Alliance, and a Composite Materials Manufacturing Center, all part of LIFT's efforts to spur tech-based economic development on Long Island. The Cradle of Aviation Museum has organized the STEM Magnet Academy to take advantage of the museum's extensive exhibits and educational programs to help illustrate how theory learned in the classroom is applied to real world problems. Ninth and tenth graders involved in the Magnet Academy spend their school day at the museum for daily classes in physics, math, robotics, aeronautics, and world history. Its "Physics First" program teaches physics in ninth grade, two grades earlier than usual. Some 200 students of the Westbury, Uniondale, and Freeport school districts are involved in the Magnet Academy program. Twenty companies and LIFT have become Business Partners at the Cradle of Aviation, with the goal of exposing students to career opportunities with local tech-based companies through company tours, meetings with engineers and researchers, internships, and summer jobs. The Cradle of Aviation has also created STEM partnerships with several school districts to excite elementary and middle school kids about math and science through museum trips and programs it sponsors outside the museum. Future Cradle of Aviation projects include cooperation with Nassau Community College and BOCES to create a Manufacturing Engineering program. The Cradle of Aviation sponsors an annual Career Day during the spring school term at which 11th and 12th graders can meet with STEM professionals from over 30 companies as well as representatives from local colleges.

Following the formal presentations by Parton and Wahlig. They participated in an exchange of questions and comments with the attendees. It included enlightening descriptions by educators of their personal experiences teaching science, math, and technical subjects.

The seminar, part of a series on K-12 education, was organized by Don Christiansen.

IEEE INNOVATION FORUM

PRESENTED BY THE COMPUTER SOCIETY OF THE IEEE LONG ISLAND SECTION

CALL FOR PRESENTERS

THE COMPUTER SOCIETY OF THE IEEE LONG ISLAND SECTION IS LOOKING FOR EARLY STAGE COMPANIES TO PRESENT THEIR TECHNOLOGIES



BY PART OF
THE NEXT BIG
THING ON
LONG ISLAND

NETWORK WITH TECHNOLOGISTS

HEAR EXPERT ADVICE ON HOW TO IMPROVE THE VALUE OF YOUR COMPANY

JUNE 2012

**FOR MORE INFORMATION AND TO JOIN THIS EVENT,
CONTACT:**

METODI FILIPOV METODI.FILIPOV@BIANOR.COM
STEVEN RUBIN SRUBIN@MORITTHOCK.COM

May Lectures & Seminars (continued)

The IEEE Long Island Section Computer Society is presenting a seminar titled:

Constraints in the Mobile World

By Robert Gezelter

Tuesday, May 22, 2012

Refreshments 6:00pm Seminar starts at 6:30pm

Motorola Solutions - Holtsville, NY

Who Should Attend? Anyone who is interested in learning more about mobile application development.

Abstract: The mobile world is upon us. IDC reports that sales of smart phones exceeded 491 million units in 2011. Nielsen, ComScore, and Pew surveys confirm that smart phones now account for almost 50% of mobile devices in use. The pervasiveness of these devices is often seen in utopian terms. However, the reality is far less simple. Mobile devices have raw computing power that not so long ago was the province of corporate datacenters. However, they operate under far more resource and connectivity constraints than their permanently umbilical connected counterparts. Power and connectivity are critical. While desktop machines have a virtually unlimited supply of power and copious bandwidth, mobile devices are challenged in both. In connectivity, mobile devices are challenged by signal coverage and transmission capacity, particularly in high usage or less well covered areas. Screen real-estate is similarly a limitation of devices in the pocket form factor. Not discounting the capabilities of tablet devices, such as Apple's newest generation iPad, the screens of pocket sized devices are challenging. The power of today's mobile world is impressive, but the seductiveness of mobile applications ("apps") can be deceptive. Gaining maximum utility from the mobile platform requires understanding how these constraints affect the design, scope, implementation, deployment, and employment of apps, both in the corporate and personal spheres.

About the Speaker: Robert Gezelter has over 35 years of experience consulting on Information Technology matters and is a Contributing Editor of the Computer Security Handbook, 5th Edition. He work focuses on operating systems, networks, performance, security, tools, and similar areas. In addition to his consulting activities, he publishes and speaks extensively. Since 1985, he has spoken worldwide for organizations including ACM, Connect (previously Encompass/DECUS), ISSA, ISACA, and IEEE. He was appointed to the IEEE Computer Society's Distinguished Visitors Program for a three-year term in 2004. He was also a Contributing Editor to the Computer Security Handbook, 4th Edition (2002), the 3rd Edition (1995), and contributed to the Handbook of Information Security (2005). Mr. Gezelter holds BA and MS degrees in Computer Science from New York University. Mr. Gezelter is in private practice, with clients ranging from the Fortune 10 to small businesses, both locally and internationally. In addition to his technical practice, he has been consulted on computer-related issues in civil and criminal litigation by attorneys for over 20 years. He maintains his offices in Flushing, New York. He can be contacted via his firm's web site at <http://www.rlgsc.com>.

Seminar Coordinators: Metodi Filipov, Computer Society Chair of the IEEE Long Island Section. You can contact the coordinator Metodi Filipov by email at computer@ieee.li

Registration: If you wish to attend, please register via internet in the calendar page of www.ieee.li or https://meetings.vtools.ieee.org/meeting_view/list_meeting/10927

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2012 Awards Banquet

2012 Awards Banquet by Susan Frank

It is a long standing tradition for the Section to celebrate the outstanding engineering achievements of our members at our annual Awards Banquet. I look forward to this event year after year, both for the importance that I place on the recognition itself and for the development and continuance of friendships in our community. There are several members who I would probably not see during the course of a typical year otherwise.

I would like to recognize and thank all of our corporate supporters. The Awards Banquet Supporters Honor Roll can be found inside this Pulse as well as in the Awards Banquet Program. I would like to thank the Awards and Awards Banquet Committee members, who work diligently all year to prepare for this event.

New York State Governor Cuomo sent a letter along with his Representative, Scott Martella, to recognize the significant achievements of the engineers and technology professionals of Long Island. You can read the letter in the [2012 Awards Banquet Program](#). Nassau County Executive Edward P. Mangano sent Shila Shah with Proclamations of Merit for every award recipient.

Our distinguished Keynote Speaker was Mr. Eduardo F Palacio, Vice President of Program Management and Business Operations at Electronic Systems, Exelis Inc. His talk, "Being a Defense Electronics Professional in an Uncertain Market" discussed the sinusoidal nature of the defense industry, as illustrated by the procurement budgets of the past several decades. He ended on the note that it is critical to be on top of your game at all times, both as a company and as an individual. Fortunately for us, we have the IEEE, with local and international conferences, workshops, Long Island Section Society and Affinity Group meetings, and other networking events for this purpose.

The IEEE Long Island Section has had a long history, starting as a New York Subchapter in 1947, and becoming a Chapter unto its own in 1953. At the Awards Banquet, Nikolaos Golas presented a Plaque with the names of all of the Section's past Chairmen. He invited all past chairman present to come up and receive it. The Plaque will be displayed at all our future Awards Banquets and other special events.

We can all be proud of the accomplishments of those who received awards. In honoring these people, we honor our profession and all who work diligently "Advancing Technology for Humanity". This year, nine Long Island members were awarded IEEE Region I Awards and eight members and institutions were awarded IEEE LI Section Awards. We are also honored two new IEEE Fellows at this ceremony. I am proud to be part of the effort to recognize our member's achievements. My sincere congratulations to all of them!

2012 Awards Banquet (continued)



May Lectures & Seminars (continued)

The Long Island Chapter of the IEEE Employment Assistance Committee Meeting is presenting a Seminar titled:

Adult Programs for Unemployed or Under-Employed

Thursday, May 24, 2012

Seminar starts at 6:00pm

Huntington Public Library - Huntington, NY

Topics included in the seminar:

Visit by Recruiting agencies with potential job leads

Internet sites for potential positions

Upcoming Career Fairs on LI

Other Potential Job agencies and recruiters

Suffolk County Service contacts and Exams

Tips to appear more professional at job interviews and Job Fairs

Comparing a Job Search to a Romance

An alternative to the normal job search, a discussion of the plans and activities of the newly created IEEE Long Island Section Entrepreneurs Network as another option to creating your own job

Registration: NO Registration is required.

Seminar Coordinators: Charles Pleckaitis c.pleckaitis@ieee.org



Be a part of engineering your future.

Come Join Us!

Get Involved.

Volunteer.

IEEE Long Island Section Entrepreneurs Network

The Entrepreneurs Network is being created within the IEEE Long Island Section with a mission to enable innovative engineers to control their professional destinies through the free, secure exchange of ideas, designs, and prototypes within a team assembled to provide the assistance needed to create a viable product or service. Interest has been shown for projects that are within the areas of nanotechnology, biotechnology, health care, education, advanced manufacturing, renewable energy and power distribution. Through support of such projects, it is hoped that the Network will act as a catalyst for the creation of innovation hubs thus stimulating breakthroughs in areas of national priority. In short, it will accelerate the kind of innovation that leads to economic expansion.

The Network operates under the premise that collaboration is needed in the development of most products and services. It is rare that an individual alone possesses all the resources necessary to develop an idea, design, process, or prototype into either a viable product or service and then, ultimately, into a business that brings jobs to a community. The Entrepreneurs Network is intended to provide materials and support services to assist this development.

The Network members work collaboratively so that their skills are enhanced or complemented. Some of the skills our members bring to the Network derive from their backgrounds in engineering, manufacturing, business development, sales, marketing, finance, law, logistics, product support, and operations. In addition, the Network plans to provide access to physical space, local research organizations (including laboratories, health systems, educational institutions), and to capital.

One of the cornerstones of this group is the protection of intellectual property. A process is being developed to ensure the safety of any intellectual property brought to the Network by creating a legal model for each project.

The progression of an idea, design or prototype through the committee starts with an entrepreneur's presentation. Nondisclosure agreements may be part of the introduction process. The Network will evaluate a project's feasibility in terms of its scope, resources needed for completion, and its likelihood of success in the marketplace. If the Network determines it is feasible, resources will be allocated. Appropriate talent and other resource allocations such as work space and contact with external liaisons will be made as necessary. The Network team stays with the project to completion. A completed project is one where a product or service is brought to market, a business is established, and jobs are created for production, support, and delivery.

The Entrepreneurs Network invites all members of the IEEE to join. If we have multiple members with the same skill set it only means we can help multiple projects in parallel. Please contact the Entrepreneurs Network at enet@ieee.li.



Students: Energize Your Future!

Join the IEEE Power & Energy Society for FREE!

This offer ends 15 August 2012

With over 28,000 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 2012 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."
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IEEE USA

**IEEE USA 2012 Annual Meeting - "Innovation Taking Flight"**

May 3-6, 2012

Hilton Cincinnati Netherland Plaza
Cincinnati, Ohio

The 2012 IEEE-USA Annual Meeting provides an unparalleled training opportunity for IEEE's U.S. volunteers and members. Fostering innovation in autonomous systems to dramatically advance aerospace technologies in cost-effective ways. The number and capabilities of autonomous systems are growing fast, but the roadblocks to their increasing use to augment human systems lies in the technology gap to ensuring trustworthiness of those systems. This is critical in aerospace systems, and must be considered in all phases of research, but also extends into private sector systems, as well.

Attendees will be briefed on pressing social, economic and political issues surrounding aerospace technologies, as well as training in how to take outreach programs and ideas home.

In addition to aerospace topics, the program will provide sessions on basic volunteer training, interactive workshops honing leadership skills, exhibits on the latest IEEE products and services, opportunities for networking and exchange of best practices, and the IEEE-USA awards ceremony recognizing the best of our U.S. engineers. Click [here](#) for more information and to register.

Economist Richard Freeman to Speak at Sci-Tech Measurement Event at AAAS in June

Registration is now open for the second STEM enterprise measurement workshop in Washington, D.C., on Wednesday, June 6th. Harvard professor and leading labor economist Dr. Richard Freeman will deliver the keynote address.

The workshop, "STEM Enterprise: Measures for Innovation and Competitiveness," is designed to measure the impact and effectiveness of all federal, state, private and academic money spent on research and development in the STEM (science, technology, engineering and math) area. Sessions will focus on four main areas: funding, workforce, output measures and indicators, and policy implications.

The American Association for the Advancement of Science (AAAS) is hosting the event at its Washington headquarters. The program will run from 9 a.m. to 5:30 p.m. A reception open to the public will follow from 6 to 8 p.m. For more information and to register, see <http://www.ieeeusa.org/calendar/conferences/stem/default.asp>.

Workshop chair and former IEEE-USA Congressional Fellow Marty Sokoloski said the workshop is designed as a forum for STEM thought leaders to better measure the outcome and impact of R&D investment on society and quality of life.

"Work in this area serves as the driving force for economic and social advancement in the United States and worldwide," Sokoloski said. "The economic health of the STEM enterprise is important to everyone, and policies should be derived from basic incorruptible data and measures. This will help us to better plan for a healthy and productive enterprise, future economic growth and rapid innovation."

The workshop is organized by IEEE-USA, AIChE, AIME, ASCE and ASME and supported by a grant from the United Engineering Foundation. Cosponsors include AAAS, ASTRA, SME, Thompson Reuters and Northrop Grumman.

2012 IEEE Region I Awards

Region I of the IEEE gives awards to its members in a variety of technical , managerial and professional categories which are described below. Nomination forms and other instructions can be found on the IEEE website: www.ieee.org and then ask for “Region I Awards” in the search box.

Please send your nominations to Jesse Taub, the Section’s Awards Chair at jtaub@aol.com. They will be reviewed by the Section’s Awards Committee. Nominations must be received on or before May 15, 2012. If you have any questions, please call 631-420-1564.

IEEE REGION I AWARDS

PURPOSE: The purpose of the Region I Awards Program is to publicly recognize professional and technical excellence and major accomplishments and contributions made by Region I IEEE members.

AWARD CATEGORIES: There are seven categories for the Region I Awards:

1. **New Technical Concepts in Electrical Engineering**

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

2. **Electrical Engineering Professionalism**

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

3. **Promotion of Self-Development for Practicing Electrical Engineers**

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

4. **Enhancement of IEEE in Industry and Community Service**

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

5. **Electrical Engineering Management**

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

6. **Electrical Engineering Support for Student Activities**

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

7. **The William Terry Distinguished Lifetime Service Award**

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

2012 Awards Banquet Honor Roll

2012 IEEE Long Island Section Awards Banquet Supporters Honor Roll:

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