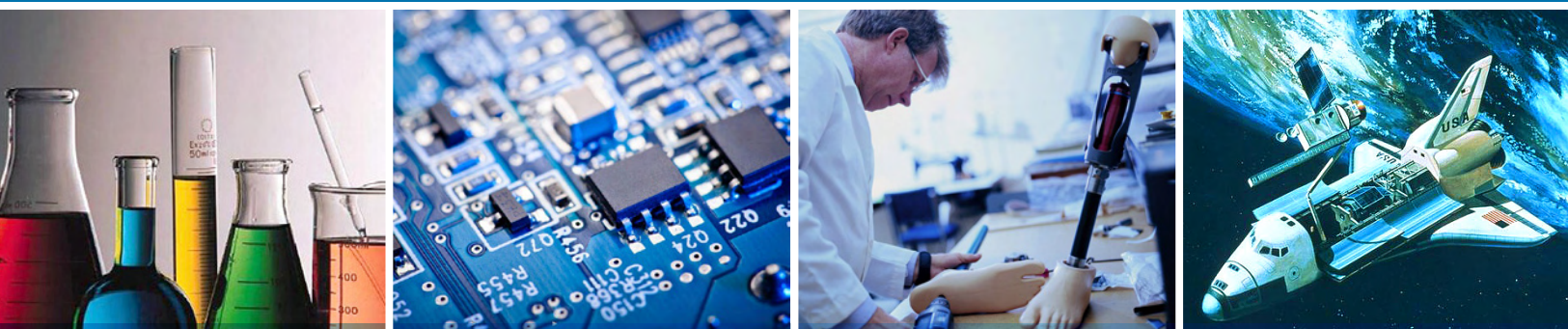




# THE PULSE

SEPTEMBER 2015

## OF LONG ISLAND



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Welcome back after our summer break. No major events occurred since our last ExCom meeting on May 18, 2015, but there are some upcoming events that I would like to mention.

**The World Maker Faire New York 2015** will be held on September 26 and 27 at the New York Hall of Science, Queens, NY. For that matter, there is an outstanding call for volunteers for a 4-hour shift that will also realize a two-day pass. If you have the time, please contact Charles at [c.rubenstein@ieee.org](mailto:c.rubenstein@ieee.org).

**IEEE Day 2015** is coming up on Tuesday, October 6, 2015, and the IEEE North New Jersey Section has organized a visit to the Intrepid Sea, Air and Space Museum in honor of same. Please register at <https://meetings.vtools.ieee.org/m/35382>

Plans for the **12th Annual LISAT Program** to be held at Farmingdale State College on April 29, 2016, are moving ahead.

**The 12th International Conference & Expo on Emerging Technologies for a Smarter World (CEWIT2015)** is to be held at the Melville Marriott Long Island, Melville, NY on Monday, October 19 and Tuesday, October 20.

Let me add my warmest welcome to Dr. Lijian Xu, who is now Vice Chair of Signal Processing.

As you probably know, volunteers are crucial to the success of our Section. If you have the time, wish to work with us and are not already involved, please take a look at our section's website on [IEEE.LI](http://IEEE.LI) and browse to the societies' and committees' pages to see the volunteer positions available. I also encourage you to attend the monthly ExCom (Executive Committee) meetings; the next one is to be held on September 28th at Telephonics in Farmingdale.

The ExCom meetings operate as forums for you to voice your concerns about IEEE, about IEEE Long Island about the state of technology in the US and to make recommendations for action that we might take to improve any of the aforementioned. There is no better place to discover what is happening in the section and how you can get involved in one of the societies to affect change. Just send me an email before you attend so I can have your name added to the attendance list. If you wish to speak to ExCom on a particular topic, just let me know your topic in advance, I will add same to the agenda, and you will have an opportunity to present your topic to ExCom and receive the feedback from those that are present.

For that matter, we (ExCom) need your help to support maintaining and even growing IEEE Long Island membership. Our membership numbers somewhat down at present (below 2000), much of which can be attributed to shifting engineering job availability on Long Island. In my opinion, while our LI IEEE membership is important in the short term (e.g., funding from IEEE headquarters is based on membership), membership numbers in the long term reflect (whether accurately or inaccurately), a desirability of IEEE membership and therefore operate as a barometer of our organization as a whole.

Please come to our ExCom meeting and offer your opinion on how we can improve the member experience on Long Island. We have a budget—come and tell us how we can use our available funds for you. For example, what about a ball game at Citibank Park in CI to see our LI Ducks, a bowling night or like event? What a great way to meet and network. If there is any interest in such an event, just email me, and I will try to arrange.

For that matter, while our numbers may be somewhat down, let me take this opportunity to welcome our new LI Section members for the 2nd quarter of 2015. They are:

Brian Cairl

Jordan DuBose

Robert Anthony Gioia

Megan Rose Murphy

Zhe Yen

Peng Zhang

Finally, please take a look at John Schmidt's VTools/L31 Report in the ExCom minutes from our May 18 meeting to get a feel for how many L31's have been submitted for your society for 2015. If your society is not listed, it means that there are no L31s submitted, regardless of whether your society held a meeting or not. If there is no L31, a meeting is not counted. Please have meetings and please submit L31s. Thank you again for the opportunity to serve, and please reach out to me if I can help you in any way. .

John F. Vodopia  
Chair, IEEE Long Island Section  
[chairman@IEEE.LI](mailto:chairman@IEEE.LI)



## THE PULSE OF LONG ISLAND

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## LET YOUR VOICE HEARD

**The Pulse of Long Island** is a newsletter for the members of the Long Island IEEE Section. You can let your voice heard by writing to the Editor. How to bring more value to our members? Interesting new technology, or a project? An issue of interest to members of the IEEE Long Island, Long Island engineers and computer professionals, or Long Island technical community at large? Write to the **Pulse**. Let your letter be read, and your voice heard.



## HOW TO CONTRIBUTE:

Send your letters or articles via email to [pulse@ieee.li](mailto:pulse@ieee.li).

If selected for publication, the letter or article will be edited before being published.

## CONTRIBUTION DEADLINE:

20th of a month for the next month edition.

## CONTRIBUTIONS FROM LONG ISLAND TECHNICAL & ENGINEERING COMPANIES:

Publish your technology related **press release** (up to one page) at no cost. Please send the press release as a PDF file attached to email to [pulse@ieee.li](mailto:pulse@ieee.li), addressed to the Editor, with a Subject line "Pulse -PR" followed by your company name, and the responsible contact person's name, email and phone number in the email body.

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**MIHAELA RADU**

**wie@IEEE.LI**

---

### The IEEE Long Island Section Website

The IEEE LI Section website is regularly updated to reflect recent section activity and upcoming events. Each Society and Affinity Group has a dedicated page that describes their function and includes contact information.

Visit our site at [IEEE.LI](http://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](http://www.consult-li.com)

### Membership Development

For more information on membership with the Long Island Section of the IEEE, e-mail M. Nazrul Islam at:

[membership@IEEE.LI](mailto:membership@IEEE.LI)

# 2015 IEEE LI SECTION SOCIETIES/CHAPTER OFFICERS

 <p><b>AEROSPACE &amp; ELECTRONIC SYSTEMS SOCIETY (AES)</b>            Chair: <b>Dave Mesecher</b>            Email: <a href="mailto:aes@ieee.li">aes@ieee.li</a></p>	 <p><b>ANTENNAS AND PROPAGATION SOCIETY (APS)</b>            Chair: <b>Bryan Tropper</b>            Email: <a href="mailto:ap@ieee.li">ap@ieee.li</a></p>	 <p><b>CIRCUITS AND SYSTEMS SOCIETY (CAS)</b>            Chair: <b>James Colotti</b>            Vice Chair: <b>Alex Doboli</b>            Email: <a href="mailto:cas@ieee.li">cas@ieee.li</a></p>	 <p><b>COMMUNICATIONS SOCIETY (COMSOC)</b>            Chair: <b>Lawrence Hausman</b>            Vice Chair: <b>Arnold Stillman</b>            Email: <a href="mailto:communications@ieee.li">communications@ieee.li</a></p>
 <p><b>COMPUTER SOCIETY (CS)</b>            Chair: <b>Davor Dokonal</b>            Vice Chair: <b>Metodi Filipov</b>            Email: <a href="mailto:computer@ieee.li">computer@ieee.li</a></p>	 <p><b>ELECTROMAGNETIC COMPATIBILITY SOCIETY (EMCS)</b>            Chair: <b>Santo Mazzola</b>            Vice Chair: <b>Bob DeLisi</b>            Email: <a href="mailto:emc@ieee.li">emc@ieee.li</a></p>	 <p><b>ENGINEERING IN MEDICINE &amp; BIOLOGY SOCIETY (EMBS)</b>            Chair: <b>Glenn Luchen</b>            Vice Chair: <b>John Vodopia</b>            Email: <a href="mailto:emb@ieee.li">emb@ieee.li</a></p>	 <p><b>INSTRUMENTATION AND MEASUREMENT SOCIETY (IMS)</b>            Chair: <b>Terry Stratoudakis</b>            Vice Chair: <b>Ephraim Adeola</b>            Email: <a href="mailto:im@ieee.li">im@ieee.li</a></p>
 <p><b>MICROWAVE THEORY AND TECHNIQUES SOCIETY (MTT)</b>            Chair: <b>Saikumar Padmanabhah</b>            Vice Chair: <b>Eric Darwin</b>            Email: <a href="mailto:mtt@ieee.li">mtt@ieee.li</a></p>	 <p><b>NUCLEAR AND PLASMA SCIENCES SOCIETY (NPS)</b>            Chair: <b>Shaorui Li</b>            Vice Chair: <b>Graham Smith</b>            Email: <a href="mailto:nps@ieee.li">nps@ieee.li</a></p>	 <p><b>PHOTONICS SOCIETY (IPS)</b>            Chair: <b>M. Narzul Islam</b>            Vice Chair: <b>Adam A. Filos</b>            Email: <a href="mailto:photonics@ieee.li">photonics@ieee.li</a></p>	 <p><b>POWER &amp; ENERGY/INDUSTRY APPLICATIONS SOCIETY (PES &amp; IAS)</b>            Chair: <b>Rob Schmid</b>            Vice Chair: <b>Greg Sachs</b>            Email: <a href="mailto:power@ieee.li">power@ieee.li</a></p>
 <p><b>PRODUCT SAFETY ENGINEERING SOCIETY (PSES)</b>            Chair: <b>James Colotti</b>            Vice Chair: <b>Glenn Luchen</b>            Email: <a href="mailto:safety@ieee.li">safety@ieee.li</a></p>	 <p><b>POWER ELECTRONICS SOCIETY (PELS)</b>            Chair: <b>Alberto De Leon</b>            Vice Chair: <b>Ronald DeLuca</b>            Email: <a href="mailto:pels@ieee.li">pels@ieee.li</a></p>	 <p><b>SIGNAL PROCESSING SOCIETY (SPS)</b>            Chair: <b>Jessica Donaldson</b>            Vice Chair: <b>Dr. Lijian Xu</b>            Email: <a href="mailto:chair@ieee.li">chair@ieee.li</a></p>	 <p><b>SOCIAL IMPLICATIONS OF TECHNOLOGY SOCIETY (SSIT)</b>            Chair: <b>Howard Edelman</b>            Vice Chair: <b>John Schmidt</b>            Email: <a href="mailto:social@ieee.li">social@ieee.li</a></p>
 <p><b>TECHNOLOGY AND ENGINEERING MANAGEMENT SOCIETY (TEMS)</b>            Chair: <b>Brian Quinn</b>            Email: <a href="mailto:tmc@ieee.li">tmc@ieee.li</a></p>	<p><b>The Long Island Section of IEEE has 17 Chapters. Each Chapter is a technical subunit of the Long Island Section, associated with an IEEE Society. The Chapters, as well as the Section, are always welcoming volunteers. If you would like to help with any of the Long Island Chapter's steering groups, please do contact the relevant Chapter Chair, Vice Chair, or one of the Section officers.</b></p>		

## IEEE LONG ISLAND SECTION 2016 OFFICER NOMINATIONS

John Schmidt  
Chair, 2016  
Nominations Committee

**THE IEEE LONG ISLAND SECTION'S 2016 NOMINATIONS COMMITTEE  
RETURNED THE FOLLOWING SLATE FOR THE 2016 SECTION OFFICERS:**



**CHAIR:**  
*M. Nazrul Islam*



**1st VICE CHAIR:**  
*Marjaneh Issapour*



**2nd VICE CHAIR:**  
*Lou D'Onofrio*



**SECRETARY:**  
*Davor Dokonal*



**TREASURER:**  
*Sandy Mazzola*

Nominations may be made by petition during the month of September as limited herein.

Petition nominations must be in writing and bear the signature of at least ten (10) voting members of the IEEE Long Island Section; they are to be delivered to the Chair of the Long Island Section or to the Chair of the Section's Nominations Committee no later than **October 15th**.

*The Election shall be held November 1st through the 14th.* If no petition-nominated candidates are received, the election will be electronic only.

## IEEE NEW MEMBER WELCOME

**THE LONG ISLAND SECTION WOULD LIKE TO WELCOME  
THE FOLLOWING NEW MEMBERS FOR 2015!**

Brian Cairl

Jordan DuBose

Robert Anthony  
Gioia

Megan Rose  
Murphy

Zhe Yen

Peng Zhang



## SEPTEMBER 2015

**September 2, Wednesday**  
*Long Island Consultants  
Network Meeting*  
**Digital Signal  
Processors**

By Andrew Baxt, BSEE  
Briarcliffe College  
The Great Room  
Bethpage, LI  
7:00 PM - 9:30 PM

**September 17, Thursday**  
*Engineers Joint Committee  
of Long Island*  
**Networking Dinner  
and Ethics Seminar**

Holiday Inn Plainview  
215 Sunnyside Boulevard,  
Plainview, LI  
6:00 PM - 7:30 PM, Dinner  
7:30 PM - 8:30 PM, Seminar  
8:30 PM - 9:30 PM, Networking

**September 25, Friday**  
*Life Member Affinity  
Group Meeting*  
**Senior Engineer's Meet**

Briarcliffe College  
The Great Room  
Bethpage, LI  
1:00 PM Refreshments  
1:30 PM Meeting

**September 28, Monday**  
**EXCOM Meeting**  
Telephonics  
Farmingdale, LI  
5:45 PM - Dinner  
6:15 PM - Meeting

## OCTOBER 2015

**October 7, Wednesday**  
*Long Island Consultants  
Network Meeting*  
Briarcliffe College  
The Great Room  
Bethpage, LI  
7:00 PM - 9:30 PM

**October 26, Monday**  
**EXCOM Meeting**  
Telephonics  
Farmingdale, LI  
5:45 PM - Dinner  
6:15 PM - Meeting



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"It allows me to find jobs in my specific field of engineering."

"Great site and nice that it also includes the 'National [Network]' that really expands the opportunities."





## Tesla and Inventing

By Jesse Taub, IEEE Long Island Section Historian

Many of you may be aware that the only surviving Laboratory facility that the great electricity pioneer and prolific inventor, Nikola Tesla did his research is Wardenclyffe in Shoreham. The facility is being restored and will become the Tesla Science Center at Wardenclyffe to honor his legacy. Our Section has submitted a proposal to the IEEE History Committee to give them a Special Citation. Reading about Tesla's life in an excellent biography by W. Bernard Carlson, *"Tesla Inventor for the Electrical Age"* (Princeton University Press, Princeton, NJ.2013), made me want to understand, as best we can, the process by which he conceived his inventions, many of which had a significant impact on society.

Tesla's contributions to electrical engineering are fundamental to our profession. His invention, in the 1880's of the AC induction motor and three phase transmission of high voltage electric power changed the world he lived in. He also demonstrated wireless transmission of radio waves before Marconi in the early 1890's.

As time went on Tesla became convinced that he could transmit electrical power without wires over long distances and possibly around the world. He did experiments at Colorado Springs and then at Wardenclyffe in the early 1900's. He was unsuccessful.

In all of the above Tesla had a gift for trying to invent something that would have a major impact on society. His early work on AC power was supported by mathematical analysis and careful experimentation. By the time that he started work on wireless power transmission, he relied less on evaluating his ideas to see if they obey the laws physics. He seemed to believe that if he could visualize things in his head, they will work. Tesla became stubborn and would not give up on his ideas easily, even if an experiment failed.

In spite of this shortcoming, his ability to conceive great things that might work was a very special gift. For example, his idea of sending wireless power is finding application in medical devices, such as cardiac pacemakers. They can now be recharged via wireless means, thereby eliminating the need for replacement operations. Helicopters can stay in the air as long as possible by getting their power from ground-based microwave beams. The point is that the original idea may fail, but it can live on in a different form.

**There are lessons to be learned from the above for future inventors.**

- Think big. You want ideas that can have significant benefits to society.
- Your idea may not work just because you like it. It is essential to model its performance using the appropriate theory & CAD tools.
- If the modeling is successful, you can then proceed to construct prototypes.
- If the modeling is unsuccessful, throw the idea out immediately. Sometimes a minor variation could lead to success. Keep trying as long as your reasons for continuing are rational.
- You should also consider more modest applications. For example, if Tesla limited his wireless power transmission to shorter distances there could have been other inventions.

In spite of some reservations, looking back at Tesla's life should be an inspiration to future inventors. We should feel proud that the future Tesla Science Center at Wardenclyffe will be on Long Island.

### Reference

1. W. Bernard Carlson, *"Tesla Inventor for the Electrical Age"*. Princeton University Press, Princeton, NJ.2013.





*Share Your Experience*

## PRESENTERS AND SPEAKERS NEEDED

**Working on an interesting project? Or have an interesting topic to talk about? A startup ready to spread a word, or in need of beta testers with computer knowledge?**

**Computer Society Chapter** invites you to present your project or your experience. For one of the upcoming meetings we'd like to mash technical and social, and have several presenters presenting interesting computer-related topics in a shorter timeframe, fostering conversation. This is an opportunity to meet each other, learn about our work and possibly identify opportunities for collaboration.

Contact IEEE Computer Society Chapter at [computer@ieee.li](mailto:computer@ieee.li) with your suggested topic.

## RICHARD E. MERWIN STUDENT SCHOLARSHIP

IEEE Computer Society is offering \$40,000 in student scholarships from \$1,000 and up to recognize and reward active student volunteer leaders in student branches or chapters who show promise in their academic and professional efforts. This scholarship was created in honor of the late Richard E. Merwin, past president of the IEEE Computer Society, to recognize and reward student leadership.

The selected winners of this award will have the opportunity to serve as IEEE Computer Society Student Ambassadors for the particular IEEE region to which they belong. Duties as Student Ambassadors will include collecting and disseminating information to student branches or chapters in their region and serving as a liaison between the IEEE Computer Society Member and Geographic Activities Board (MGAB) and student members in their region. Over a dozen scholarships of \$1,000 and up are available, for one academic year (approximately 9 months).

**THE MERWIN SCHOLARSHIP NOW HAS 2 APPLICATION DEADLINES:**  
30 April and 30 September of each year (*you may apply only once per year*).

### CRITERIA?

Evaluation criteria include participation in student IEEE branch/chapter activities (30%), academic achievement (30%), extracurricular activities (10%), letter of recommendation from student branch/chapter advisor (20%), and quality of Student Ambassador vision statement (10%)

### DEADLINE FOR APPLICATION SUBMISSIONS:

The current deadline for application submissions: 30 September 2015

### WHO IS ELIGIBLE?

Graduate students, and those in the final two years of an undergraduate program in electrical or computer engineering, computer science, or a well-defined computer related field of engineering who are active members of a student branch or chapter are eligible.

IEEE Computer Society membership is required. (Note: Students applying for the award should have a minimum one year in which to complete their degree, or be considering or enrolled to immediately start further study upon completion.) Applicants are required to have a minimum grade point average of 2.5 / 4.0 (or exam marks of at least 60%), and be a full-time student as defined by his or her academic institution during the course of the award. Student winners of the Computer Society's Richard Merwin or UPE/CS award for the previous year (13 months) are not eligible.

### TRANSCRIPTS

For your transcripts, your minimum GPA requirement is 2.5 / 4.0. If your GPA is based on percentages and NOT a 4.0 grading scale, you must include mark sheets to notate how your GPA is calculated.

### APPLICATION

Click the link below to download the application. Complete and email the final copy as a PDF or WORD file (Typo on application do NOT send ZIP file) to Eric Berkowitz: [e.berkowitz@computer.org](mailto:e.berkowitz@computer.org)





## 2015 Volunteer Leadership Training Program (VOLT)

[iee-elearning.org/CLE/](http://iee-elearning.org/CLE/)

The purpose of this communication is to announce the structure of the 2015 Volunteer Leadership Training Program (VOLT).

Last year, the Volunteer Leadership Training Program (VOLT) was successfully implemented with the participation of 32 volunteers from all the regions of the IEEE. The 6-month long program launched in April 2014 and targeted volunteers with a true desire to learn about the broader IEEE, who want to participate in IEEE committees, and consider taking leadership positions within their units.

During the first 3 months of the 2014 program, participants were exposed to an in-depth learning of the IEEE structure and organizational units outside of MGA. The last 3 months focused on acquiring practical leadership knowledge that participants can apply in their professional and personal environments.

The success and popularity of the VOLT program is evident by the continuous positive feedback received from its graduates, mentors, and many volunteers across the regions. In response to this positive feedback, the VOLT Ad Hoc Committee has decided to make the IEEE foundational content available to a larger audience.

### FOR 2015 THE PROGRAM WILL CONSIST OF TWO TRACKS:

**TRACK 1** will cover key organizational units of the IEEE and focus on the foundational knowledge of the organization. These pre-requisite courses will be available to all IEEE volunteers through the Center for Leadership Excellence (CLE) website starting July 10th 2015.

**TRACK 2** will start on September 2015 and last three months. It will focus mainly on leadership related topics.

To access the **TRACK 1** courses go to <https://iee-elearning.org/CLE/> using the IEEE Account. Choose the category "Volunteer Leadership Training Pre-Requisite" to begin. Volunteers who complete the foundational Track 1 in the CLE by Aug 24th can apply for consideration for the VOLT Program starting in September 2015. Enrollment in the 2015 class will be determined by the VOLT Ad Hoc Committee based on predefined criteria. Details will be communicated shortly.

The success of the VOLT program in 2013 and 2014 was unprecedented. We want to ensure that a larger number of IEEE volunteers take advantage of this important training and learn more about the great organization they are part of. Section Chairs are encouraged to reach out to their volunteers as applicants to the September class will need your endorsement as part of the criteria.



## CO-OP PROGRAM: Hofstra University School of Engineering and Applied Science (SEAS)

Beginning with the 2014-15 academic year, SEAS is proud to offer a co-operative educational experience, which offers qualified students the opportunity to work in companies utilizing the skills of engineers and computer scientists. The SEAS model envisions students being hired by a company after the Fall semester of their junior year and then working for an six to eight month period with suitable salary paid, and then returning to Hofstra SEAS to complete their degree requirements.

The co-op experience is a very attractive option for students and has the added benefit of cementing ties between SEAS and technology companies. For more information contact **Philip Coniglio**, Founding Director of the SEAS Co-Op Program, at **516-463-5548** or [philip.m.coniglio@Hofstra.edu](mailto:philip.m.coniglio@Hofstra.edu).

 **HOFSTRA UNIVERSITY**

# GREEN CARDS, NOT GUEST WORKERS

Russell Harrison

*This letter was minimally edited for clarity.*

**To The Editor:** IEEE-USA needs your help. As you may know, IEEE-USA has been leading efforts in Washington to reform our nation's high-skill immigration system. Our plan of "Green cards, not guest workers" would make it easier for graduates STEM of American universities to become Americans, and harder for companies to import cheap workers on H-1b and other temporary visas. Our plan is to build an American workforce for the long-term, not rent one for a few years.

This message took on increased urgency earlier this year when the public learned that three major companies, Walt Disney, Southern California Edison and Fossil, all used H-1B workers to replace Americans with less expensive foreign workers. These were jobs in the United States that were being done by Americans. And now they are off limits to Americans and immigrants alike.

IEEE-USA has known H-1Bs were being used to layoff American workers for years, but now the public knows too. These highly visible examples have forced Congress to confront the true nature of the H-1B program – and given us an opportunity.

like to take advantage of this change in attitude, but we need YOUR help to do it.

IEEE-USA invites every IEEE member to join us in Washington, DC on September 28th and 29th for our 2015 Career Fly-In.

***"Our plan of "Green cards, not guest workers" would make it easier for graduates STEM of American universities to become Americans, and harder for companies to import cheap workers on H-1b and other temporary visas. Our plan is to build an American workforce for the long-term... IEEE-USA invites every IEEE member to join us in Washington, DC on September 28th and 29th for our 2015 Career Fly-In. "***

Russell Harrison  
*Director, Government Relations*

For the first time in four years, there is momentum building in Congress for H-1B reforms that will protect American and foreign workers. IEEE-USA would

At this event, you will receive a comprehensive briefing on the policies, laws and politics of immigration reform. And then you will bring our reform message to Capitol Hill at private meetings with your legislators and their staff.

To learn more about this important opportunity or to register for our fly-in, visit our website at <http://www.ieeeusa.org/policy/careerflyin>

Politics is all about numbers. We need IEEE members to speak up if we are going to be heard in Washington. And we can't stop companies from replacing American engineers with non-Americans unless we start speaking up.

Russell Harrison  
Director, Government Relations

IEEE-USA  
2001 L St, NW: Suite 700  
Washington, DC 20036  
(202) 530-8326



## IEEE HOT-LINE

Victor Zourides

*The letter was minimally edited for clarity. The views and opinions are the author's own, and do not express the views of the Long Island Section. There was no attempt to verify the statements or the content in any way. Text in bold is author's own emphasize.*

**To The Editor:** Engineers and indeed most persons working for an organization or respected entity generally require their adherence to a code of ethics. Behavior to that code of ethics is detailed step by step. Violation of any of the code's values usually means suspension or some admonishment of varying severity. However, if the person, a member, an employee lives up to that code and is in dire trouble for having done so, he/she is in all probability on his own. There is no reciprocity. The whistleblower is left to whistle in the wind.

During a one-year period from August 1996 to August 1997, IEEE members attempted to bridge this gap within the IEEE. Professor Stephen Unger and a small committee formed what was called "Hotline." Professor Unger is Professor Emeritus at Columbia University of Computer Science & Electrical Engineering.

I have read several codes of ethics from several organizations. I believe the IEEE Code of Ethics is the finest and most encompassing of any in existence. I was never personally involved in or on the Hotline committee nor did I even know of its existence until the summer of 2008. As a member of the IEEE chapter of the Society on Social Implications of Technology (SSIT), I received the IEEE Technology and Society Magazine of SSIT in which an article by Professor Unger appeared detailing its history.

**The purpose of this article is to detail the Hotline committee's history, actions, accomplishments and eventual demise. Also, my efforts to have the IEEE Board of Directors review the Hotline issue with the possibility of reinstating it in a manner that does not jeopardize the IEEE (from legal entrapments) but at the same time provides assistance to members in need. My effort to reinstate the Hotline and the roadblocks are detailed in this report, following some Hotline history.**

The prelude to the Hotline Guidelines and Procedures states: "...the hotline is intended to provide immediate support for engineers seeking information, advice or help regarding an ethics related problem. The goal is to make it easier for engineers to practice their profession ethically, even in situations where this may lead to conflicts with organizational superiors. It should be understood by all that difficult situations may arise in which intelligent,

knowledgeable people of goodwill may disagree as to the best course of action. \*(The hotline can only offer information and advice; it cannot guarantee a good outcome in every case)\*"

The Guidelines go on to emphasize that they are not intended to deal with grievances unrelated to ethics. Detailed procedures to facilitate confidentiality and experience of the IEEE Ethics Hotline over the one-year period from August 1996 to August 1997 are given. The last example reads: "One note that we received from an IEEE member subsequent to the termination of the hotline reads: 'I am wondering who I should ask for guidance in ethics-related matters. Sorry if this is not the right place to ask.' We have not responded. "

I made a presentation before the Long Island Executive Committee on January 31, 2011. Virtually the same presentation, abbreviated somewhat due to time constraints, was made before the Region 1 Board of Governors on March 12, 2011. Key features of that presentation follow and also provide facts and procedures related to it.

- IEEE Ethics Hotline August 1996 – August 1997;
- Most inputs and interactions via e-mail, one to two per week on average;
- Guidelines and procedures provided detailed steps regarding ethics related problem;
- IEEE urged to actively assist engineers trying to abide by the IEEE Code of Ethics;
- No problem of any kind surfaced;
- February 1998 ExCom praised overall work of Ethics Committee;
- Liability insurance was available at reasonable rates.

Per S. Unger article referenced above, IEEE United States Activities Board (now IEEE-USA) endorsed a set of proposals by its Ethics Committee, to strengthen IEEE support for engineering ethics. Instead of merely preaching ethics to its members, the IEEE was urged to actively assist engineers trying to abide by the IEEE Ethics Code, particularly in situations where doing so jeopardized their careers. The EC got off to a strong start, establishing an ethics hotline and bolstering the IEEE's ethics support operations in

>> CONTINUED ON PAGE 13

## IEEE HOT-LINE Victor Zourides

<< CONTINUED FROM PAGE 12

several other ways. However, despite the fact the IEEE lawyers had approved the hotline procedures and despite the fact that no problems of any kind surfaced, the lawyers resurrected the argument that the hotline exposed the IEEE to threats of serious lawsuits. The ExCom then commissioned a blue-ribbon committee of a former IEEE President, the current IEEE VP for Professional Activities and an attorney often involved in IEEE activities to review presented at the February 1998 Excom meeting. It praised the overall work of the EC and strongly recommended that the hotline be re-instated. It pointed out that appropriate liability insurance was available at reasonable rates. After a brief open discussion, the Excom went into executive session with the IEEE attorney. After the closed session, a vote was taken and with only one abstention. The blue ribbon committee report was rejected, effectively terminating the drive for ethics support.

### CODE OF ETHICS

#### Item #1

To accept responsibility in making engineering decisions consistent with the safety, health and welfare of the public and to **disclose factors that might endanger the public or the environment.**

#### Item#2

To assist real or perceived conflicts of interest whenever possible and to **disclose them to affected parties when they do exist.**

#### Item #10

**To assist colleagues and co-workers in their professional development and to support them in following this code of ethics.**

In response to the Hotline Committee's efforts and in spite of the IEEE's own Code of Ethics the IEEE Board amended the bylaws as follows:

### IEEE BYLAW I-305.4

Neither the Ethics and Manpower conduct committee nor any of its members shall solicit or otherwise invite complaints, nor shall they provide advice to individuals.

It is apparent that the IEEE Code of Ethics, via Items, #1, #2 and #10 clearly state to its members "get involved" in ethical matters, yet the IEEE Board clearly refuses to accept responsibility for any such involvement by its members.

I contacted four Distinguished Lecturers of the "IEEE Society on Social Implications of Technology". Three of the lecturers responded. The general thrust of all three lecturers, I believe, is quite appropriate.

That is, it is a good idea to have a hotline, likely for all the same reasons that it was initially set up.

It appears that the IEEE is asking individuals to "get involved" yet the IEEE will walk away when these individuals do get involved.

**It appears that the IEEE is itself unethical in disavowing "involvement".** At both the Long Island Section presentation on 1/31/2011 and the IEEE Region 1 Board of Governors on 3/12/2011 (Region 1 consists of 22 sections of the northeast - i.e. New England, New York, Long Island and most of New Jersey), I made the following motion which passed unanimously on Long Island and overwhelmingly by Region 1;

**"IEEE shall take steps to re-establish an ethics hotline for members seeking advice on ethics-related problems."**

In addition, I asked a highly respected Life Fellow, who has written and lectured on ethical issues, for his opinion and analysis of my efforts; he responded with the following: "You are exactly right. A parallel might be that of a high school football coach, who sends a rookie into a game advising him to play well and how to play 'clean' telling him if he gets hurt because of anything he did right the school will have no ambulance standing by and it will give him no advice on treatment or recovery exercises. Also, if a call goes against him the coach will not demand that the refs review the instant replay".

The purpose of presenting this motion before Region 1 was to advance it for discussion and action either up or down by the full Board of Directors of the IEEE. (By way of full disclosure, I was Long Island Section Chair 1977 and Region 1 Director 1988-89). The Region 1 Director at this interval in time advanced the motion. However, a single Director (Vice President of Regional Activities) would not allow it to go forth. In other words the action/voice of the democratically elected members of Region 1, representing thousands of IEEE members within Region 1, could be suppressed by a single individual. We had a saying while I was a Director, "Members First". The following Region 1 Director tried advancing the motion only to be likewise frustrated. I wrote to two succeeding IEEE Presidents but never received a response. So much for "Members First".

I have tried to quietly advance the idea of the Hotline to protect the IEEE from a possible embarrassing situation. It is time to come forth in public and let the tale be told. All I ever expected or hoped is that the issue would come forth in open discussion by the IEEE Board of Directors. There are many options to be considered. The worst is silence or suppression.

## IEEE Long Island Section Award Nominations

By Jesse Taub

Acknowledging the accomplishments of our peers is important to our profession. Each year, our Section gives several awards in various categories. You are encouraged to submit nominations for worthy candidates. You can find nomination forms on the [IEEE.LI website](#). Click on **Awards** and then click on **Nomination forms**. Section Award nominations must be sent to me no later than December 1, 2015. Received nominations will be reviewed by the Section's Awards Committee. The names of the Section Awards and their criteria are listed below:

### ALEX GRUENWALD AWARD

This Award honors an IEEE member who has made significant 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 distinguished professor at Polytechnic University who was committed to promoting quality technical education on Long Island.

### 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 significant technical contributions. He was a founding member of the IEEE Long Island Section.

### 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.

### 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.

### 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 CHAPTER AWARD

This award is given to an IEEE student chapter 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 significant technical contributions prior to his or her 35th birthday.

### AWARD NOMINATIONS

Each nomination must be received by December 1, 2015, and will be reviewed by our Section's Awards Committee. Each nomination should describe the nominee's accomplishments that relate to the Award criterion and should suggest a suitable citation. Those selected will be honored at our annual Awards Ceremony in the Spring of 2016. Nomination information for Region 1 and Fellow Awards will be given in future issues of *The Pulse*.

**PLEASE SEND ALL NOMINATIONS TO:** Jesse Taub at [jjtaub@aol.com](mailto:jjtaub@aol.com). Call at **631-320-1564** if you have any questions.

## POSITION STATEMENTS

### IEEE REGION DELEGATE-ELECT/DIRECTOR-ELECT, 2016-2017 IEEE REGION DELEGATE/DIRECTOR, 2018-2019, REGION 1 (NORTHEASTERN USA)

In this issue of *Pulse*, we are presenting the Candidates for 2016-2017 IEEE Region 1 (Northern USA) Delegate-Elect/Director-Elect. The election ballot will open on August 17 and remain open till October 1, 2015.



#### **BABAK D. BEHESHTI**

*(Nominated by Region 1)*

**Associate Dean and Professor,**  
School of Engineering and  
Computing Sciences, New York  
Institute of Technology, Old Westbury

<http://babak-beheshti.com/>

Babak D. Beheshti is the Associate Dean and Professor of the School of Engineering, New York Institute of Technology; where he has served since 1987. Babak's areas of interest include wireless sensor networks, wireless and cellular systems, and digital signal processing. Babak has over 20 years of experience in R&D for embedded systems and wireless technology industry, where he has successfully managed joint R&D programs with many Asian, European and US companies including Siemens Mobile, Nokia, Samsung, KDDI and LG. Babak has been an active member of IEEE since 1991 having held positions at section, region and major board levels. He is currently a member of Publication Services & Products Board of IEEE, as well as Region 1 Student Activities Chair. Babak is a recipient of the IEEE MGA Leadership Award, the IEEE Millennium Medal, the IEEE Long Island Section Athanasios Papoulis Outstanding Educator Award, and three IEEE Region 1 Awards, including 2008 Technical Innovation Award.

#### ACCOMPLISHMENTS/ACTIVITIES

**BOARDS/COMMITTEES:** Member and Geographic Activities Board (MGA): Representative to PSPB, 2014; Member Development Vice-Chair, 2012; Geographic Units Vice-Chair, 2009-2011; MGA SAC (Student Activities Committee): Chair, 2008-2009; Vice-Chair, 2006-2007; MELCC, 2008-2009; Potentials Advisory Board, 2008-2009. Tellers Committee: Chair, 2003-05; Member, 2001-03. RAB Student Activities Committee (RSAC): Vice-Chair, 2006-07; Member, 2003-07; Steering Subcommittee Chair, 2003-07; Student Website Contest Coordinator, 2005.

**REGION 1:** SAC Chair, 2014-15, 2003-07; Executive Committee, 2003-07; Membership Development Chair, 2002-03; Employment & Career Activities Coordinator, 2002; Industrial Relations Liaison, 2001-03; Board of Governors, 2002-07.

**SECTION:** Long Island Section: Senior Past Chair, 2003; Junior Past Chair, 2002; Chair, 2000-01; Membership Development Chair, 2001-03; First Vice-Chair, 1998-99; Section Vice Chair, 1997-98; Treasurer, 1995-97; Newsletter Editor, 2000-05; Seminars Coordinator, 1999-2004.

#### STATEMENT

I believe that my strength as the Region 1 Delegate-Elect/Director-Elect will be the combination of my solid understanding of and the commitment to the IEEE's local activities through my long-standing ties to Sections and Councils, and with my experience in several leadership positions at the IEEE at the national and global levels.

I have maintained a balance in my career both as an academician and as a practitioner in the industry in various positions of leadership. This has given me the opportunity to have a deep perspective of the issues and challenges facing the engineering profession both from the academic vantage point, as well as the practicing engineers' outlook.

My commitment to the IEEE members is that I will utilize my skills and experience to bring about effective changes in streamlining IEEE's member-focused services, and increasing IEEE's relevance to the practicing engineer by providing networking, access to technology, and technical training. I will also pursue promoting the prestige and value of membership in the IEEE as the world's largest professional association and our role in the global community.



#### **GIM SOON WAN**

*(S'95-M'00-SM'10)*

*(Nominated by Region 1)*

**Senior Design Engineer,**  
VICOR Corporation  
Andover, Massachusetts, USA

<https://sites.google.com/site/supersoonwan>

Soon Wan graduated from Ngee Ann Polytechnic in Singapore with the highest merit diploma in 1992. In 2000, he graduated Summa Cum Laude in Electrical and Computer Engineering bachelor degree at Merrimack College in the USA as the top graduate student. Soon was featured as a technology whiz kid on the Mass High Tech newsletter in 1999. Before he came to USA in 1995, Soon served two and a half years of mandatory military service for Singapore National Army. During his term of service, he received the Battalion Best Officer Award for his outstanding leadership and performance. Currently, Soon is a Senior Design Engineer in the Research and Development Engineering group at VICOR Corporation. He works with a team to design and develop high power density DC/DC power converter with innovative technologies and patented topologies.

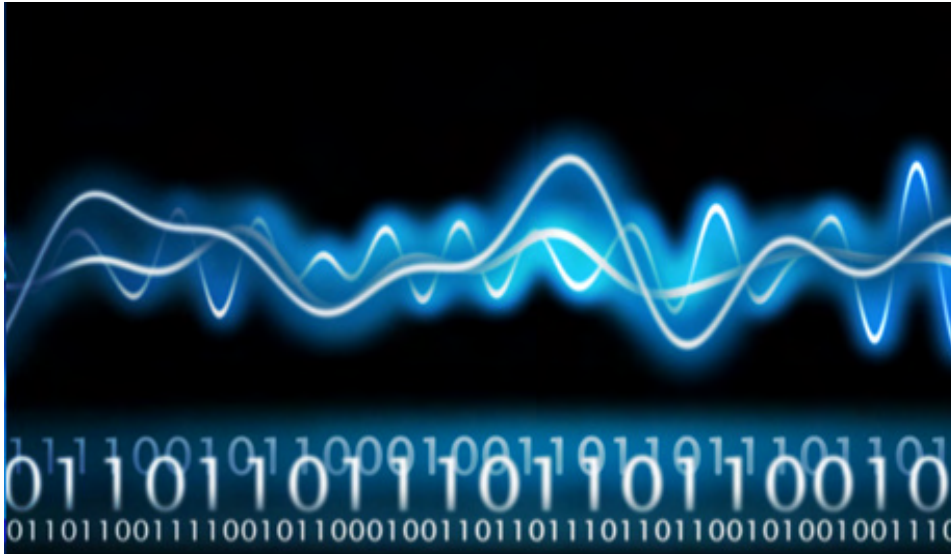
#### STATEMENT

I have held many leadership positions in IEEE – Boston Section and Chapters, Region 1, Young Professional Global Committee, Technical Activity Board, Communication Society AdCom, and Conferences. I am also a corresponding member of several AdHoc Committees such as IEEE Strategic Planning, IEEE Humanitarian Activities, IEEE Humanitarian Technology Challenge (HTC), and IEEE Committee on Earth Observation (ICEO). My rich volunteering history and leadership experience in IEEE, in particular with IEEE Membership Development, have proven that I have the skills, energy, and dedication to devote to this position.

Region 1 has been facing a number of specific trends that affect our membership, and their needs and expectation have been changed over years. The opportunities and benefits of membership are endless, and yet, many do not believe that IEEE is essential to their careers. If elected, I would use my experience gained from serving many IEEE committees to enhance the operation of Region 1 Board, Sections and Technical Chapters. All the officers will receive proper training, knowledge and skill to effectively perform their volunteering tasks. I will also improve the existing tools, and creating new tools to improve the volunteers' productivity. With great volunteers and tools, we can better serve our members, able to meet their needs and make them say 'wow'. Being a young candidate, I can bring fresh ideas and not afraid to make changes. We need to change to maintain the elite status of IEEE being the largest professional society in the world.



## The IEEE Consultants Network of Long Island (LICN) is presenting a lecture titled: **DIGITAL SIGNAL PROCESSORS**

**DATE:**

Wednesday, September 2, 2015

**PRESENTED BY:**

**Andrew Baxt, BSEE**

**LOCATION:**

**Briarcliffe College,**  
The Great Room,  
1055 Stewart Ave. Bethpage, NY

**TIME:**

6:30 PM - Refreshments  
7:00 PM - Presentation

**COST**

This seminar is free,  
and all are invited.

**WHO SHOULD ATTEND?**

Engineers who are interested in digital signal processors.

**ABSTRACT:**

This lecture presents the definitions of and the distinctions between Microprocessor, Micro Computer, Microcontroller, Digital Signal Controller versus that of Digital Signal processor. Topics include an examination of the "von Neumann" and the "Harvard" architectures with attention to the relative advantages of each, a discussion of the CPU (central processing unit) and the ALU (arithmetic logic unit), a discussion of additional external hardware that is required for actual application service (use in a Desktop - PC will serve as an example), software and program execution flow including the "Sum of Product" equation and its execution.

**REGISTRATION:**

The presentation is open to the general public. Pre-registration is not required, there is no admission fee and there is no fee for CEU credit.

**CEU Credits:**

0.2 CEU Credits. See Registration on-line.

FOR FURTHER INFORMATION CONTACT:

**John Dunn at 516-378-0979**

**SPEAKER BIO:**

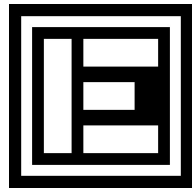
Andrew Baxt is a graduate of Pratt Institute, Brooklyn, NY. As a consultant, Andrew has over nineteen years of combined electronic and computer software work experience with a specialty in real time embedded control applications. Some of his clients are General Dynamics Electric Boat, Spacelabs Medical, Boeing Defense & Space Group, Cummins Engine Company, Delco Electronics, and General Electric Company. Andrew's skills include systems engineering; software engineering; systems and software verification and validation using the LDRA tools for, Aerospace, Defense, Automotive, Transportation, Telecommunications, Industrial Automation and Medical Electronic.

**LOCATION:**

This lecture will be held at Briarcliffe College, The Great Room, 1055 Stewart Avenue, Bethpage, New York. See [www.licn.org/info/Directions2Briarcliffe.htm](http://www.licn.org/info/Directions2Briarcliffe.htm) for a map and directions.

IEEE Continuing Education Programs are peer-reviewed by content experts. This peer review guarantees both quality of the technical content of learning materials, as well as adherence to IEEE's strict process are entitled to award IEEE Continuing Education Units (CEUs), recognized as the standard of excellence for continuing education programs in IEEE's fields of interest.





ENGINEERS JOINT  
COMMITTEE  
OF LONG ISLAND

# NETWORKING EVENING with DINNER and ETHICS SEMINAR

## SEMINAR DESCRIPTION:

Ethics plays a role in all of our actions and decisions. This course will help to clarify the critical importance of ethics and how to instill them into the engineering and professional culture. This presentation will explore the different aspects of ethical behavior and provide guidance in making the right "ethical" decisions.

This seminar is approved for the **Ethics Seminar** requirement by New York State.

## REGISTRATION:

To register, complete and submit this form and payment by September 14, 2015 to: Amanda J. Haimes, 172 Sherry St, East Islip, NY 11730. For questions e-mail: [ajhaimes@gmail.com](mailto:ajhaimes@gmail.com)

**FEE:** \$25 (includes Dinner and Seminar)  
*Make check payable to:*  
Engineers Joint Committee

## DATE:

Thursday,  
September 17, 2015

## TIME:

**6:00 pm – 7:30 pm**

*Networking and Dinner*

**7:30 pm – 8:30 pm**

*Seminar (1.0 PDH)*

**8:30 pm – 9:30 pm**

*Cash Bar and Networking*

## PRESENTED BY:

**Mark Koester,**  
*President,*  
*Koester Associates, Inc.*

## LOCATION:

**Holiday Inn Plainview**

215 Sunnyside Boulevard,  
Plainview, NY

516-349-7400 (Front Desk)



## THE LONG ISLAND LIFE MEMBER (LM) AFFINITY GROUP IS HAVING A MEETING TITLED: **SENIOR ENGINEER'S MEET**

### DATE:

Friday, September 25, 2015

### TIME:

1:00 PM - Refreshments

1:30 PM - Meeting

### PRESENTED BY:

**Dr. Charlotte Blair,**  
*Senior Application Engineer,*  
*ANSYS Inc.*

E-mail: [charlotte.blair@ansys.com](mailto:charlotte.blair@ansys.com)

### LOCATION:

**Briarcliffe College**  
Great Room  
1055 Stewart Avenue, Bethpage, N.Y

**COST:** This seminar is **free** & all are invited.

The IEEE Long Island Section Life Member Affinity Group is holding a meeting and inviting Senior Engineers and ALL interested parties. The meeting is at Briarcliff College. Easy to get to, easy to park, easy hours (beat the traffic coming & going). Meet old friends, make new friends, share stories.

If bored and looking to get involved in worthwhile endeavors, there is much to accomplish. The Long Island Section has many technical chapters that can use your expertise and experience. There are many worthwhile endeavors if interested, e.g. STEM (Science, Technology, Engineering, Mathematics), mentoring, lectures, histories, etc.

You may want to voice concern on such troubling issues that persist regardless of laws or denials such as H1b, salary compression, age discrimination, engineering title, engineering education, whistleblower protection, etc.

One immediate area that you can help with; Do not throw away your old electronic equipment. We are making arrangements to store them for demos to students on the evolution of electronics and how we have gotten to your iPhone, Internet, etc.

### DO YOU HAVE A COMPLAINT, GRIEVANCE, RECOMMENDATION?

Let's hear it and maybe we can do something about it working together

### REGISTRATION:

Registration: No registration required. However, a count is needed in order to know the amount of drinks and refreshments to order. Please leave a message with Victor Zourides: [vgzourides@hotmail.com](mailto:vgzourides@hotmail.com).

### DIRECTIONS:

Long Island Expressway Exit 44 South, Route 135 S. Take Route 135 to Exit 9 and then proceed west on Plainview road which quickly becomes Broadway. Make a half-right turn onto Cherry Avenue and then another half right turn onto Stewart Avenue. Briarcliff College will come up shortly on your left. The driveway entrance is at the eastern end of the Briarcliffe campus. Park in the student parking lot in the back of the building and go inside. Follow straight inside as far down the hall to the very last hallway and make a left turn to the Great Room.

### EVENT COORDINATORS:

**Victor G. Zourides,** *Chairman LM Affinity Group*  
**Bill Wilkes,** *Vice Chairman LM Affinity Group*



Leveraging Technology for a Better Tomorrow

## METSAC MEMBERS:

METSAC chair Raghu Rangunandan is delighted to announce the following below offer for all IEEE METSAC members.

It is a terrific chance to go to the Intrepid Air & Space Museum on IEEE day and bond with other METSAC IEEE members.

Please note that October 6, 2015 is a Tuesday. Registration is only free for the first 500 who register.

# IEEE Day: Intrepid Museum

## IEEE Day 2015 is going to be held on Tuesday, 6 October.

This will be the sixth anniversary of our members celebrating the anniversary of the first time IEEE members gathered to share their technical ideas in 1884.

Since the first IEEE Day event in 2010, the number of events worldwide has grown over 600% from 80 to over 520! To help grow this even larger we are looking forward to more events/activities in Regions 1-6, WE NEED YOU!

This is a wonderful opportunity for you to connect your members to IEEE on a local and global scale. Section and Chapter leadership engagement is critical to IEEE Day's success! Start collaborating with your volunteers and student branch leaders to plan and commemorate the day. No idea/event is too small.

**USS Intrepid Sea, Air, and Space Museum on IEEE Day (Tuesday Oct. 6, 2015).** The IEEE Foundation offers free entry to this museum that day for the first 500 IEEE members (and one guest each). Please register using the IEEE Intrepid Day link below to qualify for free entry.

## IEEE INTREPID REGISTRATION

Registration closes on Oct. 4, 2015 or when 500 members have registered. An additional fee is required to enter the Space Shuttle Pavilion (\$7 for adults and \$5 for children).

Please note that IEEE members receive complimentary admission for themselves and for one guest (for the first 500 registered participants). Additional guests may purchase admission tickets upon arrival (adults: \$24, seniors/students: \$20; youth \$19; children: \$12). The museum is open from 10:00 am until 05:00 pm. The last tickets are issued at 04:00 pm. Access to the Space Shuttle Pavilion is \$7 for adults and \$5 for children.

**[CLICK HERE TO REGISTER USING THE VTOOLS REGISTRATION LINK IEEE VTOOLS REGISTRATION](#)**

This exclusive IEEE Day event is made possible by an ongoing relationship between IEEE Foundation and The Intrepid Sea, Air, and Space Museum. More information on the IEEE Foundation can be found at [www.ieeefoundation.org](http://www.ieeefoundation.org).

**WHEN:** October 6, 2015

**TIME:** 10:00 am to 5:00 pm (7.00 hours)

**WHERE:** Intrepid Museum, Pier 86 W 46 St & 12th Ave, NY, NY



**IEEE Day:** Celebrating the first time in history when engineers worldwide and IEEE members gathered to share their technical ideas in 1884. IEEE Day's theme is: "Leveraging Technology for a Better Tomorrow". While the world benefits from what's new, IEEE focuses on what's next. IEEE Day 2015 is the 6th edition of the same. Worldwide celebrations demonstrate the ways thousands of IEEE members in local communities join together to collaborate on ideas that leverage technology for a better tomorrow. We celebrate IEEE members!

The IEEE Day team is made up of student volunteers, young professionals, and staff. Together, they work to assure that this year's celebration will be even bigger and more impressive than the last four editions. The principle task of the IEEE Day team is to initiate, motivate, and coordinate events and efforts to celebrate this day worldwide.

# 6th ANNUAL MAKER FAIRE NY CALL FOR VOLUNTEERS



## Maker Faire®

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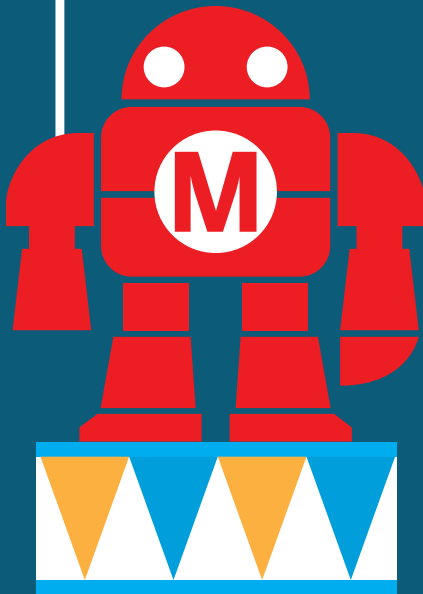
### CALL FOR VOLUNTEERS



SPONSORED BY REGION 1, EAB and IEEE-USA

**SEPTEMBER 26+27**

New York Hall of Science, Queens, NY



**TO VOLUNTEER CONTACT:**  
**Charles Rubenstein**  
[c.rubenstein@ieee.org](mailto:c.rubenstein@ieee.org)

### YOU PROVIDE:

A four-hour booth shift

### YOU GET:

One Day pass to the Faire + Parking  
(Two @ 4-hour shifts give you a Two Day pass to the Faire!)

Please let me know if you are available to provide 4 hours towards this effort. Two volunteers are needed in each of the time slots. Either I or IEEE Staffer John Yaglenski will be at the booth throughout the two days and for setup.

#### BOOTH TIMES SATURDAY, SEPT. 26

- #T1: 9:00am - 1:00pm
- #T2: 12:00pm - 4:00pm
- #T3: 3:00pm - 7:00pm

#### BOOTH TIMES SUNDAY, SEPT. 27

- #T4: 9:00am - 1:00pm
- #T5: 12:00pm - 4:00pm
- #T6: 3:00pm - 7:00pm  
(Breakdown Crew)

WORLD  NEW YORK  
HALL OF SCIENCE  
**Maker Faire®**

**6<sup>th</sup> ANNUAL NEW YORK**

**SEPT 26+27** SAT 10AM-6PM  
SUN 10AM-6PM

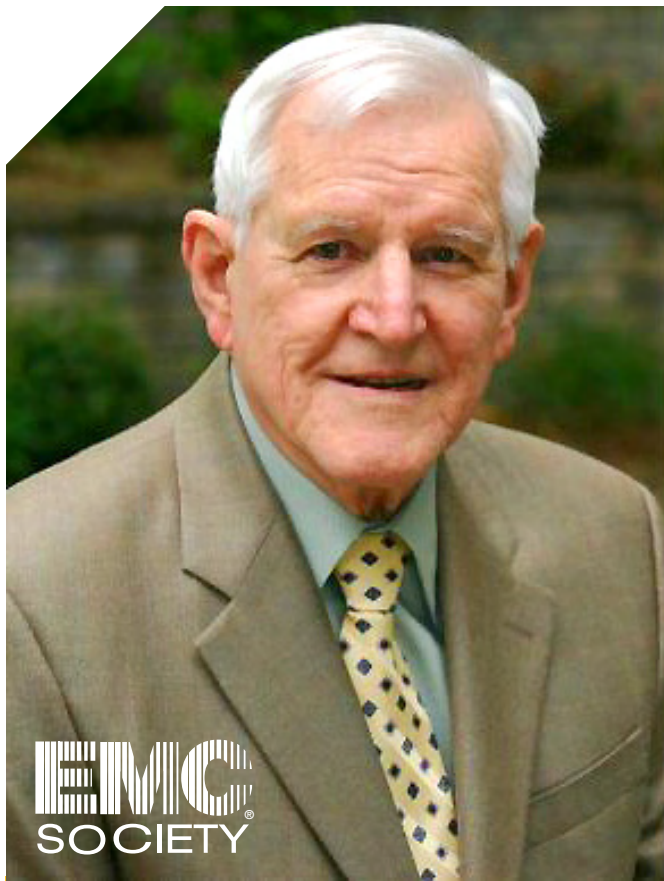
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# RICHARD MOHR

## IN MEMORIAM

By Jesse Taub



**IEEE Fellow and EMC Consultant,  
Richard Mohr**

*In 1996, Richard became a IEEE Fellow and was cited for the development of practical models for application in the electromagnetic compatibility design of electronic equipment.*

Richard Mohr died recently at the age of 85. Richard was well known to Long Island engineers for his expertise in electromagnetic compatibility (EMC). He gave many talks on EMC at chapter meetings and was a member of the LI Section Awards Committee. Richard became an IEEE Fellow in 1996, cited "for the development of practical models for application in the electromagnetic compatibility design of electronic equipment". He is survived by his wife for more than 60 years, Lillian, a daughter, and a son.

He graduated from CCNY in 1952. We were both working at the Naval Applied Sciences Laboratory in Brooklyn. Our paths again crossed in the mid-1950's to the late 1970's at AIL. At that time, Richard was a microwave engineer and was working on low noise receivers. Some years later, he shifted his specialty to EMC. His knowledge of microwaves enabled him to look at EMC problems in a new and more efficient way at that time. He received several awards from the EMC Society. Richard eventually becomes an EMC consultant and continued to do so for the remainder of his life. We will miss him.



# The IEEE Women in Engineering Virtual Career Fair

WEDNESDAY, SEPTEMBER 23, 2015  
10:00 AM – 5:00 PM EDT



## THE IEEE WOMEN IN ENGINEERING VIRTUAL CAREER FAIR IS AN EASY, EFFICIENT & POWERFUL WAY TO HIRE TOP TALENT!

The **IEEE Job Site** and **IEEE Women in Engineering** have joined forces to host an online event where you'll get the chance to engage, screen and recruit members of the largest international professional organization dedicated to promoting female engineers and scientists without leaving your computer.

This unique online event platform was built exclusively for career and professional development, so every feature is designed to help you identify, screen and move top candidates through your hiring process in an easy and efficient way.

**SPONSORSHIP DEADLINE:** September 1, 2015, but if you sign up early, you take advantage of branding your participation on all promotion materials to our job seekers.

**DOWNLOAD THIS INFORMATION SHEET** to learn about the sponsorship opportunities available for this upcoming **IEEE Women in Engineering Virtual Career Fair**.

Or e-mail us at: [employerjobsite@ieee.org](mailto:employerjobsite@ieee.org).





## IEEE GLOBAL HUMANITARIAN TECHNOLOGY CONFERENCE (GHTC)

Technology for the Benefit of Humanity

October 8-11, 2015 • Seattle, Washington

[www.ieeeghtc.org](http://www.ieeeghtc.org)

### IEEE GLOBAL HUMANITARIAN CONFERENCE

IEEE Global Humanitarian Conference (GHTC) is the perfect venue for enthusiasts from all backgrounds to connect, share and address critical issues for the benefit of the humanitarian endeavor worldwide. Join us in Seattle, WA, USA as we:

- Enable a global sharing of skills, knowledge, networking in the humanitarian and emergency management fields
- Highlight humanitarian technologies that promote successful practice, attract practitioners, and guide future research
- Positively impact billions of people around the world

IEEE GHTC is the place to be whether you have experience to share, are looking for opportunities to join, or simply want to understand humanitarian work. In its 5th year, sponsored by IEEE Region 6 and IEEE Seattle Section, the conference is dedicated to Advancing Technology for Humanity with a focus on essential areas including energy, health, disaster management, connectivity, agriculture, and education.

### REGISTRATION

Register today to participate in an extensive, vibrant, and innovative technical program with likeminded individuals across the world.

<http://www.ieeeghtc.org/registration/>

Advanced Discount Registration ends September 6:

Regular Registration ends October 7

On-Site Registration & One Day Passes Available

[www.ieeeghtc.org](http://www.ieeeghtc.org)

### CONFERENCE HIGHLIGHTS:

- Maurizio Vecchione, Sr. Vice President of Global Good & Research Plenary
- The Future of Humanitarian Technology with a panel of experts from NGOs, the United Nations, and the Red Cross
- The Internet of Things (IoT) for Humanity with a panel of industry partners
- IEEE SIGHT Gaetano Borriello Memorial Symposium on Humanitarian Technology
- UNESCO 70th anniversary celebration.
- IEEE Smart Village workshop on Energy, Education, and Empowerment

### INTERACTIVE SPECIAL SESSIONS THAT SUPPORT IN-FIELD HUMANITARIAN EFFORTS:

- Open Data Kit Workshop learn to collect data and build data services for many humanitarian efforts
- Entrepreneurship and Education engage in work shops with interactive dialogue on grass-roots business development and collaborative educational strategies for entrepreneurs and practitioners
- Demonstrations and Exhibitions see and experience new technologies in water and sanitation, energy, and communication and connectivity technologies





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**The 12th International Conference and  
Expo on Emerging Technologies for a  
Smarter World (CEWIT 2015)**

# CEWIT 2015

OCTOBER 19 & 20, 2015,  
MELVILLE MARRIOTT, MELVILLE, NEW YORK



We are pleased to announce the return of the CEWIT Conference to Long Island after a very successful 2014 event that welcomed over 500 attendees from 14 countries in 15 unique industries to the two-day program featuring 3 renowned keynotes, 55 academic and industry experts in 8 breakout sessions, an additional 13 distinguished intellectual property lawyers and venture capital professionals in 3 panels, 4 parallel big data and data science tutorials, and over 65 high quality poster presentations.

CEWIT2015 will continue its reputation of hosting the premier international conference on the development and application of emerging technologies in infrastructure, healthcare, and energy, bringing together academic research and industry innovations at a single forum.

Originally known as the International Conference on Cutting-Edge Wireless and Information Technologies, this conference is organized by the New York State Center of Excellence in Wireless and Information Technology (CEWIT) located at Stony Brook University in New York. Mark Your Calendars!

FOR **CEWIT 2015** CONFERENCE INFORMATION, CALL FOR PAPERS AND TO REGISTER, VISIT:

**[www.cewit.org/conference2015](http://www.cewit.org/conference2015)**



## IEEE NJ COAST SECTION

# 2nd CONFERENCE on MOBILE SECURITY/ CYBER SECURITY and PRIVACY

NOVEMBER 4, 2015  
RARITAN CENTER, EDISON, NEW JERSEY



**IEEE**  
Advancing Technology  
for Humanity

### WHO SHOULD ATTEND

This conference is geared to IEEE members, non-members, students, and guests who would like to review the state of the art in security, cyber security, and privacy and become aware of issues and directions of research, academic, and practical solutions.

### INDUSTRY SPONSORSHIP

Mobile security, cyber security, and privacy have become more critical in our business, government, travel, healthcare, and every-day lives. With society's exploding dependence on mobile devices and wireless technologies, effective security solutions have become increasingly important in everyday life. Participate in the upcoming high-impact, 1-day conference as Industry sponsor (Platinum or Gold or Silver) or Table or provide product demo or product presentation. Take some time with us to catch up on the latest trends, review the issues, collaborate with colleagues in industry and research, and take away practical ideas to enhance security of your world.

### WHEN:

November 4, 2015

### WHERE:

Raritan Center  
The Edison Hotel & Conference Center,  
3050 Woodbridge Ave., Edison, NJ 08837

### TIME:

8:00 AM - 6:00 PM

### REGISTRATION:

<https://meetings.vtools.ieee.org/m/35184>

Last year, during our first conference on security, we had distinguished keynote speakers, invited presenters and over 110 attendees with participation of over 20 vendors. This year, we have chosen a conference facility to accommodate a doubling of attendees and vendor participation. This facility is centrally located with easy access by tri-state attendees and others.

## KEYNOTE SPEAKERS



### DR. ED AMOROSO

Senior Vice President,  
Chief Security Officer,  
AT&T Services, Inc.

**From the Enterprise  
Perimeter to a Virtual,  
Distributed, Secure Cloud**



### DONNA DODSON

Chief Cybersecurity Advisor,  
National Institute of Standards  
and Technology (NIST)

**Best Practices for Secure,  
Privacy Preserving Mobile  
Networks: A NIST Perspective**

SAVE THE DATE

# WOMEN IN ENGINEERING

IEEE WIE SUMMIT ON  
INSPIRING AND EMPOWERING WOMEN IN TECHNOLOGY

IEEE WIE  
SUMMIT  
USA  
EAST  
2015

NOVEMBER 6 - 8 2015

PHILADELPHIA PA



CALL FOR PAPERS - SEE WEBSITE FOR MORE INFORMATION

[SITES.IEEE.ORG/WIE-SUMMIT-USA-EAST](http://SITES.IEEE.ORG/WIE-SUMMIT-USA-EAST)

We are excited to announce the **1st IEEE Women In Engineering (WIE) Summit USA East (Nov 6-8, 2015 in Philadelphia, PA)**, which will focus on developing and improving leadership skills for individuals at all stages of their careers. Attendees will have the opportunity to hear inspirational and empowering talks presented by successful leaders from the IEEE-USA North-East region. Emerging technologies will also be demonstrated, engaging attendees to facilitate discussion & potential advancement of STEM outreach class ideas.





## Renewable Energy & Sustainability Center at Farmingdale State College

### International Energy & Sustainability Conference 2015, November 12 & 13, 2015

The fourth International Energy and Sustainability Conference will be held on November 12th and 13th 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.

### CALL FOR ABSTRACTS

Prospective authors are invited to submit original technical papers for presentation at the conference. Accepted and registered papers will be published in the IEEE Xplore peer reviewed publication. Please submit your abstracts to [rescgreen@farmingdale.edu](mailto:rescgreen@farmingdale.edu) and include in the subject line *"IESC 2015 abstract paper."*

ABSTRACT SUBMISSION	SEPTEMBER 4, 2015
ACCEPTED ABSTRACT NOTIFICATION	SEPTEMBER 18, 2015
FINAL PAPER SUBMISSION	OCTOBER 2, 2015
NOTIFICATION OF FINAL PAPER ACCEPTANCE	OCTOBER 16, 2015
DEADLINE FOR AUTHOR REGISTRATION	OCTOBER 30, 2015
POSTER PRESENTATION	NOVEMBER 12, 2015
CONFERENCE	NOVEMBER 13, 2015

**Farmingdale  
State College**

State University of New York

**FOR REGISTRATION INFORMATION  
PLEASE VISIT OUR WEBSITE:**

[farmingdale.edu/academics/centers-institutes/resc/conferences/iesc2015/index](http://farmingdale.edu/academics/centers-institutes/resc/conferences/iesc2015/index)



**IEEE**

INTERNATIONAL CONFERENCE ON  
COMPUTING, COMMUNICATION & SECURITY



**December 4-6, 2015**

Le Meridien · Pointe Aux Piments · Pamplemousses, · Mauritius · Phone: (230) 204 3333 · Fax: (230) 204 3304

ICCCS is aimed to be an annual conference conceptualized to foster students, researchers, academicians and industry persons in the field of Computer Science and Engineering, Communication and Security. ICCCS 2015 will be organized at Le Meridien, Mauritius supported by Bipin Tripathi Kumaon Institute of Technology, Dwarahat and IEEE Mauritius on 4-6 Dec, 2015 to attract a large number of delegates from all over the country and abroad and will consist of very high quality technical sessions and tutorials.

The 2-day conference will include invited keynote & oral presentations. ICCCS 2015 will provide a forum for researchers and engineers to exchange innovations, research advancements in Innovative Computing, Communication & Security. ICCCS 2015 also provides the attendees the chances to identify the emerging research topics, as well as the future development directions in all field of Engineering. The primary goal of the conference is to promote research and developmental activities in advanced Computing, Communication & Security challenges.

### MAIN CONFERENCE THEMES

- Data Communication and Computer Networks
- Big Data Analytics and Data Mining Information Security
- ICT & Education

### CONFERENCE DETAILS

**IEEE Conference Number:** #37098

**LINK:** [www.iccs.in](http://www.iccs.in)

**DATE:** December 4-6, 2015

**VENUE:** Le Meridien, Pointe Aux Piments, Pamplemousses, Mauritius.

### IMPORTANT DATES

**Regular Paper Submission Deadline:**  
August 31, 2015

**Author(s) Notification:**  
September 30, 2015

**Final Manuscript Due & Registration:**  
October 15, 2015

### CALL FOR PAPERS

#### PAPER SUBMISSION FORMAT

Papers for both oral and poster presentations should confirm to the IEEE format and specifications. All submissions must be in English only. Authors are invited to submit full paper (Maximum 8 pages, double-column A4) as PDF using the IEEE template. Papers will be published in the IEEE Xplore Digital Library. The IEEE paper template can be downloaded from the link given below.

[www.ieee.org/conferences\\_events/conferences/publishing/templates.html](http://www.ieee.org/conferences_events/conferences/publishing/templates.html)

#### PAPER SUBMISSION DETAILS

All papers must be submitted electronically through Easy Chair at:  
<https://easychair.org/conferences/?conf=iccs2015>

*At least one of the authors of each accepted paper must register and attend the conference, in order for the paper to appear in the conference proceedings.*



**IEEE**



LONG ISLAND SECTION



## BHI-2016 International Conference on Biomedical and Health Informatics *"Integrative informatics for precision and preventive medicine"*



Las Vegas 25th-28th Feb 2016



## BHI-2016 INTERNATIONAL CONFERENCE ON BIOMEDICAL AND HEALTH INFORMATICS

The IEEE International Conference on Biomedical and Health Informatics (BHI) is a special topic conference of IEEE Engineering in Medicine and Biology Society (IEEE-EMBS). The main theme of the BHI2016 is the "Integrative informatics for precision and preventive medicine." Advancing health informatics has been identified as a grand challenge for engineering in the 21st century by the National Academy of Engineering. Maintaining and improving human health will require integrative & novel informatics solutions to better translate discovery into clinics, re-engineer care practices, and integrate big data of various health networks.

The BHI2016 will provide a unique forum to showcase enabling technologies of computing, devices, imaging, sensors, and systems that optimize the acquisition, transmission, processing, storage, retrieval, visualization, and analysis. It will share how integrative BHI informatics solutions can be used in novel applications to improve human health, and how the deployment of integrated bioinformatics, m-Health, e-Health, and tele-Health with Enterprise IT can enable precision and preventive medicine

*BHI'2016 welcomes original submissions that have not been published or under review by researchers, clinicians, and industrial partners from the biomedical, life sciences, medical, and industrial communities. Examples of relevant topics include, but are not limited to the following few tracks:*

- Sensor Informatics
- Biomedical Imaging Informatics
- Foundation of BHI and Bioinformatics for Precision Medicine
- Clinical Informatics
- Behavior and Health Informatics
- Big data analytics for health care
- Wearable, implantable devices, printable/ flexible bioelectronics and 3D printing
- Body sensor networks
- Context awareness, multi-sensor data fusion
- Data inference, mining, and trend analysis
- Quality of service, trust, security, and light-weight communication protocols
- Sensor-based mHealth App
- Medical image processing and visualization
- Content-based image retrieval
- Cognitive computing for healthcare delivery and disease management
- Teleradiology
- Data breach prevention and security
- E-commerce solutions for healthcare
- Telehealth and Telemedicine
- Health data acquisition, transmission, management and visualization
- Information technologies for healthcare delivery and management
- Healthcare communication networks
- Knowledge discovery & decision support
- Translational bioinformatics
- Outcomes research applications
- Public health management solutions
- Informatics for chronic disease management
- Formalism for healthcare modeling and informatics solutions
- Platforms/solutions for precision medicine
- Healthcare modeling and simulation
- Algorithms for Natural language processing & clinical pattern recognitions
- Health information systems and convergence of health

### CALL FOR PAPERS

#### SUBMISSION OPENING DATE

(1 and 4 page papers)

**Sept. 11, 2015** (Friday)

#### PAPER SUBMISSION DEADLINE

Oct. 26, 2015 (Monday)

#### NOTIFICATION OF ACCEPTANCE

Dec. 18, 2015 (Friday)

#### CAMERA-READY FINAL SUBMISSION

Jan. 8, 2016 (Friday)

<http://bhi.embs.org/2016/>

# PLAIN TALK

The IEEE Power & Energy Society's Practical Education Courses for Industry Professionals.



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If you answered YES to any of these questions, register NOW for "Plain Talk about the Electric Power Industry." These courses will provide you with the practical knowledge you need to help you understand the electric power system and enable you to apply that knowledge to your job so you can work more effectively.

For Course Brochures and To Register:  
Visit [www.ieee-pes.org/plaintalk](http://www.ieee-pes.org/plaintalk)

Contact LaToya Gourdine, Education Administrator, IEEE Power & Energy Society  
at (732) 981-2876 or via email [l.gourdine@ieee.org](mailto:l.gourdine@ieee.org)

## SAVE THE DATE FOR ONE OF OUR 2015 EVENTS:

Knoxville, TN  
March 24-26

Little Rock, AR  
June 2-4

Denver, CO  
July 28-30

Boise, ID  
Sept 2-4

Pittsburgh, PA  
Oct 6-8

Charlotte, NC  
Nov 10-12



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# IEEE



## MICHAEL ANDERSON APPOINTED VICE PRESIDENT and GENERAL MANAGER, SYSTEMS ENGINEERING GROUP (SEG)



©2015 Telephonics Corporation

Telephonics Corporation, a wholly owned subsidiary of Griffon Corporation (NYSE:GFF), announced that Mr. Michael Anderson has been appointed Vice President and General Manager of its Systems Engineering Group (SEG). SEG is a wholly owned subsidiary of Telephonics and in his role, Mr. Anderson will be responsible for leading, directing and meeting both SEG and Telephonics' corporate strategic business goals.

Mr. Anderson will report directly to Mr. Kevin McSweeney, Telephonics' Chief Operating Officer (COO), and will lead the organization's support of Department of Defense (DoD) missile defense programs. He will also direct SEG's broad spectrum of systems engineering capabilities, including missile systems engineering, radar systems engineering and software development.

Mr. Anderson joined Telephonics in July 2015 after a successful U.S. Navy career in which he led the development of key Ballistic Missile Defense (BMD) programs and commanded sailors at sea and ashore. Mr. Anderson received his commission from the United States Naval Academy in 1987 with a Bachelor of Science degree in Electrical Engineering. In 1993, he earned Master of Science degrees in Electrical Engineering and Management from the Naval Postgraduate School.



Mr. Michael Anderson named Vice President and General Manager of Systems Engineering Group.

(©2015 Telephonics)

***"Mike's breadth of engineering knowledge, deep missile defense experience and esteemed military career coupled with his proven ability to deliver meaningful results makes him ideally suited for the role of Vice President and General Manager of SEG... I am confident he will successfully drive our missile defense technology innovation and business well into the future."***

**Kevin McSweeney, COO, Telephonics**



blueprint



architects + engineers

## H2M NAMES RON LANNER DEPUTY DIRECTOR OF ARCHITECTURE

H2M architects + engineers in Melville, NY is proud to announce that Ron Lanner, R.A., LEED AP has been promoted to Deputy Director of Architecture.

In his new role, Mr. Lanner will be supporting the firm's day-to-day management of its three architecture studios. He will focus on enhancing the division's operations, which will aid the group's continued growth.

"It's very exciting for me to be part of such a dynamic and talented group," Mr. Lanner said. "I am looking forward to the new responsibilities and challenges that this position will entail."

Mr. Lanner joined H2M in 1996 and was most recently the firm's municipal architecture studio director. In his role as studio director, he has been responsible for staffing and managing client programs for large public agencies, and played a significant role in expanding the firm's services to emergency services clients.

Mr. Lanner earned bachelor degrees in architecture and building sciences from Rensselaer Polytechnic Institute. He currently resides in Centerport with his wife, Stephanie, and children, Ryan and Victoria.

For more information, please visit [www.h2m.com](http://www.h2m.com)  
To view current job openings, please visit [www.h2m.com/careers](http://www.h2m.com/careers).



**Ron Lanner,  
H2M's new  
Deputy  
Director of  
Architecture**

*"The decision to promote Ron comes as a result of his hard work, our sustained growth, and our philosophy of promoting from within, which enables upward mobility for our staff... Our goal is to utilize Ron's organizational strengths to continue improving our efficiency, production, and delivery system to our diverse client base."*

**Joe Mottola, H2M's Director of Architecture**