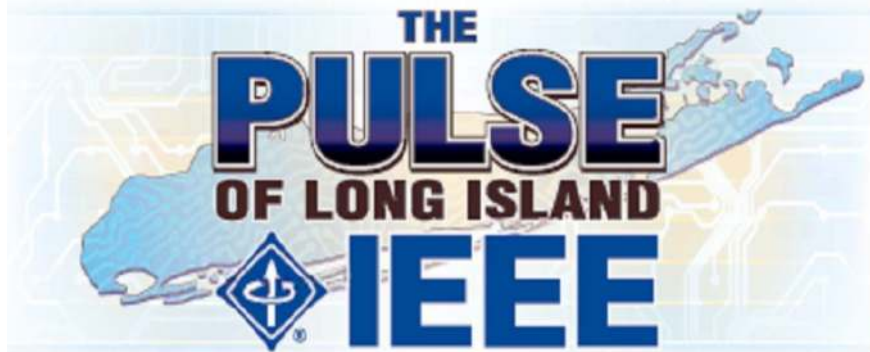


PRODUCED BY
THE LONG ISLAND
SECTION OF THE
INSTITUTE OF
ELECTRICAL &
ELECTRONIC
ENGINEERS



Volume 60, No. 13

March 2011

Inside this issue:

Calendar of Events	2
Legal Affairs	4
LI's Electronic History	5
Awards Banquet	6-8
Industry News	9-10
IEEE Senior Member Grade Evaluation Night	12
Jobs Corner	13-15
IEEE USA	16-17
Key to Your Benefits	18
March Lectures & Seminars	20-22
LISAT 2011	23
IEEE Consultants Network of LI	25



Chairman's Message By Nikolaos Golas, Chair IEEE Long Island Section

After a harsh winter season cure the **Winter Blues** with baseball spring training along with our **2011 Awards Banquet Dinner on Thursday March 31st** at the Hyatt Regency in Hauppauge. Additional information on the event is included inside the Pulse. Our Keynote Speaker this year is **Mr. Frank Messina, Chief Engineer for the Advanced Engineering Group at Telephonics**. Frank is world-renowned authority on Monopulse Secondary Surveillance Radar (MSSR) and Identify Friend or Foe (IFF) Interrogator systems. His Keynote Address is titled "Protecting our Service Men and Women with IFF." It will cover the role of Military and Civil IFF and SSR systems in protecting our U.S. and Allied war fighters as well as the role that Air Traffic Control (ATC) systems play to keep air travel safe for the flying public. The international standards organizations that drive many of the IFF/SSR interoperability and performance requirements will be discussed including the International Civil Aviation Organization (ICAO), FAA, DoD AIMS, EUROCONTROL and NATO's STANAG. In addition, requirements for Airborne, Shipboard and Ground based platforms IFF/SSR systems will be analyzed along with the IFF/SSR Modes of operation, future trends and capabilities required to meet the needs for modern IFF/SSR systems to protect and serve our troops. Frank has over 40 years experience in this field and everybody attending the Awards Banquet is in for a treat.

Our **Computer Society** had an election for new Officers. I would like to congratulate and welcome to the Executive Committee (ExCom) our newest **Computer Society Officers:**

Metodi Filipov, *Chairperson*
Roy Wang, *Vice Chairperson*
James Megna, *Secretary*

I was privileged to be able to sit with them on their first administrative and planning meeting. They are working hard on upcoming lectures in Biometrics and Web Performance, along with a survey to canvas and find out the

Computer Society members interests. They will be trying to increase the networking and social context of their events and promote their LinkedIn group.

The nomination application for our first **IEEE LI Section Historical Milestone**, the **Grumman Lunar Module** was completed on February 12, 2011. It has been uploaded to the **IEEE Global History Network at:**

http://www.ieeehgn.org/wiki/index.php/Milestone-Nomination:Grumman_Lunar_Module

The nomination application will be presented to the IEEE History Committee members for approval at their upcoming March 6th meeting. I would like to thank Ron Pirich, Chairman, Grumman Lunar Module Historical Milestone, Mort Hans for his valuable support as the Advocate and the LI Section Historical Milestone Committee members for their hard work and dedication to this immense engineering achievement for Long Island.

We just learned that the **Long Island Chapter (LIC)** of the **Project Management Institute (PMI)** has awarded the **Long Island Section a Certificate of Appreciation** for contributing to their success over the past 10 years. We invited Geri Neber, President, PMI LIC to attend our Awards Banquet and present the Certificate of Appreciation to the Section. The IEEE LI Section is looking forward to working closer with PMI in order to provide more informative and valuable lectures to our members.

Best Regards,
Nikolaos Golas
Chair, IEEE Long Island Section
chairman@IEEE.LI

Calendar of Events

March 2011

March 8th

Power and Energy Society Meeting
NYIT Solar PHEV Project
By Daniel Rapka
5:00 pm Refreshments 5:30pm Lecture
NYIT - Old Westbury, LI

March 10th

Instrumentation and Measurement Meeting
Object Oriented Programming in LabVIEW
By Steven Hoeing
6:00pm Refreshments 6:30pm Lecture
Telephonics - Farmingdale, LI

March 15th

Signal Processing Society Meeting
Digital Signal Processing for Radar Applications
By Michael Parker
6:00pm Refreshments 6:30pm Lecture
Telephonics - Farmingdale, LI

March 21st

EXCOM Meeting
5:45pm Dinner 6:15pm Meeting
Telephonics, Farmingdale, LI

March 22nd

EMC Society Meeting
6:00pm Refreshments 6:30pm Lecture
BAE Systems - Greenlawn, LI

March 23rd

MTT Society Meeting
Vector Network Analyzers in Balanced Signal Integrity Measurements By Dennis Poulin
6:00pm Refreshments 6:30pm Lecture

March 24th

Power and Energy Society Meeting
Modern Power Electronics
6:00pm Refreshments 6:30pm Lecture

March 29th

Computer Society Meeting
Profections in Cyberspace: A New Kind of Information Implications By Gary Marchionini
6:00pm Refreshments 7:00pm Lecture
Patron's Lounge, Tilles Center C.W. Post Campus

March 31st

Long Island Section Awards Banquet
6:00pm - 10:00pm
Hyatt Regency - Hauppauge, LI

April 2011

April 6th

Long Island Consultants Network Meeting
7:00 pm
The Great Room
Briarcliffe College - Bethpage, LI

April 6th

Spinal Cord Injury Research with X-ray Microbeams and Tumor Therapy Studies with Carbon Minibeams
By Dr. F. Avrahan Dilmanian
Wang Center
SUNY StonyBrook
Room 301
1:00pm
Refreshments will be served

April 12th

EMC Society Meeting
Use of TVS Diodes in Connectors for Protection of Electronic Packages By Bruce Lane
6:00pm Refreshments 6:30pm Lecture
BAE Systems - Greenlawn, LI

April 14th

Joint PES, PSES & IAS Meeting
Military/Space Grade DC/DC Converters and EMI Filters By Wayne Brown
5:30pm Refreshments 6:00pm Lecture
UL - Melville, LI

April 25th

EXCOM Meeting
5:45 pm Dinner 6:15pm Meeting
Telephonics - Farmingdale, 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



LEGAL AFFAIRS

The Patent Office is planning to start a new accelerated examination program in March 2011. Currently, there is a major backlog in the examination of patent applications. For example, in the software arts, it is not uncommon for an application to sit in the Patent Office for 5 years before being substantively examined. The Patent Office is proposing to allow applicants to pay a \$4,000 fee to have their applications examined within one year of their filing date.

There is currently another accelerated examination program which allows an applicant to accelerate examination if the applicant basically performs the work of the Patent Office. For example, a prior art search must be commissioned and a statement must be submitted distinguishing the claims in the patent application from the found prior art. A statement must also indicate where each claim element finds support in the original application. Such statements can profoundly affect the value and scope of an application as you must explicitly state what your patent does NOT cover. Moreover, there are issues regarding your duty of candor before the Patent Office if your selection of the prior art search or your characterization of the prior art or your invention are inappropriate.

The Patent Reform Act is back and is being debated in the Senate. There are similar provisions in this Act as in prior versions. For example, there is a provision to move to a first to file system from a first to invent system. The United State is unique in that patent rights are currently awarded to the first "inventor". The Act will change the rules so that the first entity to file an application with the Patent Office will be awarded the rights. In the current law, if there are disputes over who "invented" first, there is a complicated interference proceeding to make this determination. In contrast, in the proposed Act, there could be a "derivation" proceeding to determine whether the person who filed an application "derived" the application from a publication of the inventor. Other provisions include changes to patent infringement damages calculations, a limitation of the best mode requirement (requiring the inventor to disclose the best way he knows of for practicing the invention), a provision making certain oaths easier to file, and a provision limiting the ability to file a claim for false patent marking.

Steve Rubin
srubin@dilworthbarrese.com

Industry News

Engineering for Change Debuts with Launch of Online Platform

IEEE, the [American Society of Mechanical Engineers](#), and [Engineers Without Borders USA](#) have launched [Engineering-forChange.org](#), an online platform that provides engineers, technologists, non-governmental organizations (NGOs) and local community advocates the tools to collaboratively address humanitarian and global development challenges. Members of the Engineering for Change community – working together – will design, apply and share knowledge to develop technical solutions for humanitarian and global development challenges in local communities throughout the world.

The E4C Web site is designed to provide users with a convenient and diversified way to learn, collaborate and share knowledge – leading to enhanced problem solving. As part of this growing community, E4C users will be able to:

- Post challenges and problems to gain insight, perspectives and experience from other E4C community members;
- Work collaboratively and virtually on project teams;
- Utilize a growing, open-source archive of catalogued solutions and related information submitted by organizations from around the world;

- Keep updated with news and information related to the nexus of engineering and global development;
- Learn from expert practitioners on applying engineering in developing communities;
- Track projects of interest.

To learn more or get involved, visit the [Engineering for Change Web site](#), [Facebook page](#) or [Twitter feed](#).

Long Island's Electronic History

by Jesse Taub, IEEE Long Island Section Historian

Long Island has a long history of IEEE related engineering accomplishments. We are initiating a new series that looks back at several of these areas. This is the third of a four part history and some thoughts on the future direction of microwave engineering since its inception in the 1940's. You are invited to submit an article on any engineering discipline. Please send them to Jesse Taub at jjtaub@aol.com.

MICROWAVE ENGINEERING PAST PRESENT AND FUTURE — Part 3

1990 to 2010

by Jesse Taub

By the early 1990's the DARPA MMIC program was nearing completion. The massive DOD effort served to advance the state of the art of gallium arsenide (GaAs) based microwave integrated circuits or MMIC's.

Microwave components were now designed so as to produce mask drawings that would enable them to be batch processed in a GaAs foundry. To this end, MMIC component designs required:

- Computer based modeling and simulation to validate the schematic.
- CAD techniques to draw the mask sets.
- Improved defect free gallium arsenide crystal growth to ensure high quality wafers.
- New automated measuring techniques to determine the performance of large numbers of individual chips on a processed wafer.

This new capability enabled the cost of many microwave components to drop precipitously. For example, a typical MMIC chip which could encompass a receiver front end, could now cost \$5 instead of several \$100. It had the effect of now making many commercial products economically viable. Some examples were:

- Satellite Dish TV – It required a low noise receiver front end operating over an 11.7 to 12.2 GHz range. This was now realized by a \$5 chip. This spurred the mass market that we have today.
- Cordless and cell phones could now be ubiquitous.

The lower cost of MMIC components has enabled many more complex military systems. For example, large scale electronically steerable phased arrays containing thousands of elements, can now be affordable.

By 2000, MMIC technology was pervasive. Engineers no longer made a first design and tested it in the laboratory. These designs were first simulated. Simulators reach the point where Maxwell's equations could be solved for arbitrary structures using software available on a PC.

Other advances in the first decade of the new millennium were:

- Transistors using wide band gap semiconductors such as Gallium Nitride and Silicon Carbide became available. They enabled the generation of much higher power from microwave amplifiers and oscillators.
- Electron beam and X-Ray lithography reduced transistor feature sizes to nanometers. This in turn enabled MMIC's to be realized at frequencies as high as 500GHz.

This decade also saw the development of high quality MMIC components realized in CMOS. Since CMOS is silicon based, it offers the potential of even lower costs. Furthermore, it is possible to put many more transistors on a chip compared with that which can be done with gallium arsenide. Hence, we can integrate more system functions and digital circuits on a single chip.

These advances are helping to keep microwave engineering a vibrant field. Many of Long Island's engineers are involved and helping to assure its future.

Our fourth and final article will attempt to look at that future.

Awards Banquet



IEEE

Is Proud to Announce the

IEEE LONG ISLAND SECTION ANNUAL AWARDS BANQUET

Thursday March 31st, 2011 at 6:00 PM

Hyatt Regency Long Island at Wind Watch Golf Club, Hauppauge, NY

Contact Robert Berger at robert.berger@ni.com for ticket information

Dr. Yuanyuan Yang, Stony Brook University, 2009 Fellow Award for Contributions to Parallel and Distributive Computing Systems

Mr. Peter A. Eckstein, Suffolk County Community College, Queensborough Community College, United States Merchant Marine Academy, Long Island Section Alex Gruenwald Award for Leadership and Contributions to the Training of IEEE Officers and Members while Serving on Several Region 1 Executive Committees

Mr. Kenneth W. Frank, ITT Corporation, Long Island Section Charles Hirsch Award for Advancing the State of the Art of Electronic Countermeasures Systems and Technology

Mr. Jesse Taub, Consultant, Long Island Section Lifetime Achievement Award for Outstanding Achievements in Microwave Engineering, Sustained Service to the Profession and Dedicated Service to the IEEE Long Island Section

Dr. Monica F. Bugallo, Stony Brook University, Long Island Section Athanasios Papoulis Award for Innovative Educational Outreach that Has Inspired High School Students and College Level Women to Study Engineering

Mr. Joseph Merenda, L-3 Communications Narda Microwave, Long Island Section Harold Wheeler Award for Technical Contributions and Managerial Leadership in the Design of Microwave and Millimeter Wave Subsystems and Components

Mr. Adam S. Chalson, Telephonics, Long Island Section Outstanding Young Engineer Award for Contributions to the Development of Techniques to Detect Low Radar Cross-section Targets in a High Sea Clutter Environment

Farmingdale State College, Friend of the IEEE Long Island Section Award for Exceptional Support of the Long Island Systems, Applications and Technology (LISAT) Conference by Hosting the Event, Providing Staff and Student Assistance from Its Inception in 2005

Mr. Robert Blosser, BAE Systems, Region 1 Award for Contributions to Hyperspatial Image Processing for Detection of Improvised-explosive-devices from Unmanned Aerial Vehicles

Mr. James P. Blumling, Telephonics, Region 1 Award for Innovative Technical Contributions to the Field of Radar and Related Disciplines

Mr. Michael N. Cunetta, ITT Corporation, Region 1 Award for Outstanding Leadership in the Program Management of Electronic Warfare/Space Products

Mr. Alfred J. DuPlessis, Omnicon Group, Region 1 Award for Managerial Excellence in Leadership, Design and Development

Mr. George Los, Data Device Corporation, Region 1 Award for Outstanding Leadership in Military Standard Products in Product Development and Technical Support

Mr. Brian V. Onorato, Telephonics, Region 1 Award for Contributions to Next-Generation FPGA-Based Radar Signal Processing for Maritime Surveillance Multi-Mode Radar

Mr. Theodore G. Pappas, National Grid, Region 1 Award for Contributions to the Continuing Education of Engineers

Mr. Greg Sachs, EmPower CES LLC, PES Chapter Outstanding Engineer Award for Contributions to the Engineering Profession, and for Leadership in the Long Island Renewable Energy Industry

IEEE Long Island Section, Project Management Institute (PMI) Certificate of Appreciation for All Your Contributions in Making our Past 10 Years a Success

FEATURING KEYNOTE
ADDRESS BY

Frank Messina

Chief Engineer
IFF Systems, Telephonics Corp.



"Protecting our Service Men
and Women with IFF"

Award descriptions and nomination information can be found at www.ieee.li/awards

Awards Banquet Registration Form

IEEE Long Island Section 2011 Annual Awards Banquet Thursday, March 31, 2011

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

Non-Members - \$60.00 (each person)

Make checks payable to : IEEE Long Island Section

Send this form with your payment to:

Robert Berger
IEEE Awards Banquet
236 Old Farm Road
Levittown, NY 11756-2900

Name: _____

Guest Name: _____

Guest Name: _____

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Awards Banquet Sponsorship Opportunities

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- Full page ad in banquet program and a listing in the Donor Honor Roll
- One year listing in the Pulse
- Additional tables for \$1000.00 each
- Four registrations for 2011 LISAT

Gold Sponsor

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- Two registrations for 2011 LISAT

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- Two registrations for 2011 LISAT

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Advertising Option B

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- Listing in the Donor Honor Roll

Advertising Option C

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Reception Co-Sponsor

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- Listing in the Donor Honor Roll

**To sponsor the 2011 Awards Banquet or to submit an advertisement,
please contact our Chairman Nikolaos Golas at chairman@IEEE.LI**

The deadline for inclusion in the Banquet Program in March 11, 2011. Payment is due at time of order.
Please note that advertising space is limited, and is offered on a first come, first serve basis.

To see samples of previous advertisements, please visit

<http://www.IEEE.LI/awards/program2010.pdf>

Industry News

Northrop Grumman's E-2D Advanced Hawkeye Completes First Carrier Landing Aboard USS Truman

The Northrop Grumman Corporation built E-2D Advanced Hawkeye, the U.S. Navy's newest airborne early warning and command and control aircraft, has landed on the USS Harry S. Truman (CVN 75) and begun carrier suitability testing.

With 99 percent of radar testing complete, the purpose of this phase of testing is to assess the aircraft's effectiveness in an operational environment. While onboard the Truman, all aspects of aviation/ship integration will be addressed, including logistics, manpower and interoperability, as well as catapult and arrested landing structural tests.

"This first landing of an E-2D Advanced Hawkeye on a carrier deck is a very proud moment for the entire Hawkeye team," said Jim Culmo, vice president, Airborne Early Warning & Battle Management Command and Control Programs, Northrop Grumman. "We're one step closer to delivering this revolutionary weapon system to the warfighter, a milestone the team has been working towards since Delta One took to the skies for the first time in August 2007. As the Navy kicks off its Centennial of Naval Aviation next week, Northrop Grumman continues to be committed to providing this critical first line of defense well into the 21st century."

Led by U.S. Navy Air Test and Evaluation Squadron 20 (VX-20), testing is being conducted by an integrated test team consisting of Northrop Grumman and Navy pilots and maintainers. The aircraft that made the first carrier landing is "Delta One," the first E-2D Advanced Hawkeye to roll off Northrop Grumman's manufacturing line in St. Augustine, Fla.

The new aircraft will be able to scan a larger area, detect smaller objects and process information more quickly than its predecessor. The aircrews will be able to accomplish these tasks through improved all-glass cockpits and tactical operator stations. "This new platform features state-of-the-art radar with a two-generation leap in capability and upgraded aircraft systems," said U.S. Navy Capt. Shane Gahagan, Hawkeye, Advanced Hawkeye and Greyhound Program Office. "The E-2D continues the Navy's integrated war fighting legacy by providing broad area coverage resulting in increased range capabilities. With the E-2D's enhanced ability to work in the littoral areas and over land, the platform provides a critical capability to protect our nation's interests."

Congratulations to our newest Long Island Section Senior Members

Uma Balaji
Farmingdale State College

Richard Doherty

Susan Frank
Farmingdale State College

Industry News

Long Island Children Apply Research and Robotics to Explore How Engineering Meets Medicine with FIRST® LEGO® League “Body Forward™” Challenge

500 area middle-school children apply creativity and science to the study of Biomedical Engineering in the 2010 FIRST LEGO League season

On Sunday, March 6, eight weeks of research and design will culminate in the FIRST® (For Inspiration and Recognition of Science and Technology) LEGO League (FLL) Long Island Championship Tournament, where 48 teams of children and coaches will demonstrate their problem-solving skills, creative thinking, teamwork, competitive play, sportsmanship, and sense of community. The tournament will take place at Longwood High School, located at 100 Longwood Road in Middle Island. The tournament is being sponsored by [School-Business Partnerships of Long Island, Inc.](#) (SBPLI) and the Longwood Central School District.

Five hundred middle-school children from 48 teams from Long Island will compete in this event. On February 5-6, a qualifying tournament was held at Berner High School in Massapequa in which 104 teams competed for an opportunity to advance to the championship tournament.

This year’s Challenge calls for teams of 9- to 14-year-old children to research and present their own creative solutions to one of today’s most relevant topics: how engineering mixes with traditional biological and medical sciences to advance healthcare.

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**School of Engineering and Computing Sciences at NYIT cordially
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Please join us for an insightful lecture by:

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Founder, GHO Ventures, LLC

“From Entrepreneurship to Spaceship”

Wednesday, March 9, 2011
NYIT Auditorium on Broadway
1871 Broadway at 61st Street
Manhattan Campus
New York City

Doors open: 5:30pm
Lecture and question and answer session: 6:00pm - 7:00pm

For more event details, please visit:

nyit.edu/olsen



Sponsored by the Long Island Section of IEEE:

IEEE Senior Member Grade Elevation Night

Monday, June 13, 2011

6:00PM – 8:00 PM

(drop in at any time between 6:00 PM and 7:30 PM)

Telephonics Corp.

815 Broadhollow Road, Farmingdale, NY

Refreshments will be provided

The IEEE Long Island Section, in conjunction with PACE, is sponsoring a **Senior Member Grade Elevation night** for IEEE members who meet the requirements for grade elevation to Senior Member. The requirements are posted at:

www.ieee.org/membership_services/membership/senior/

To Be Eligible:

- Any Engineers, Scientists, Educators, Technical Executives, or Originators in IEEE designated fields;
- Have been **in professional practice** for:
 - **7 years** if you hold a Baccalaureate degree in an IEEE-designated field;
 - **6 years** if you hold a Baccalaureate and a Masters degree;
 - **5 years** if you hold a Doctorate
- Show **professional maturity** and "**significant performance**" over a period of at least five of those years in professional practice.

IEEE members who meet these requirements are encouraged to attend. Potential Senior Members will have an opportunity to **meet with Senior Members and Fellows** and possibly obtain Senior Member or Fellow references that are required for the application.

Members Must Bring: 3 hard copies of their completed Senior Member Application Form found at:

www.ieee.org/membership_services/membership/senior/senior_application.html

Please bring along the completed application as a file on a thumb drive so we can process everything electronically. Referees may use your text in the application when submitting their reference statement.

Note: Remember that the process is exploratory and references are not guaranteed.

For any questions, please contact the **Long Island Section Membership Committee** at:

membership@IEEE.LI

Jobs Corner



Telephonics has immediate openings for the following:

Engineering Manager

Technically direct and manage a multi disciplined engineering team in the design, development and test of the Divisions new systems. Bachelors Degree in Engineering, Master's Degree preferred, plus a minimum of 10 years directly related experience with 3 years managerial experience. Must have experience with technical management of engineering project teams. RADAR experience a plus. Reference#: RSD-00000407

Principal Systems Engineer

The lead system engineer at Telephonics is responsible for the entire life cycle design and meeting the technical requirements of the project. Bachelor's degree in Electrical Engineering or Physics Engineering plus 10+ years related experience. Required experience includes RADAR, DOORS and Matlab database knowledge, system test, and integration. Reference#: 2010-0018

Senior Program Manager (Air Traffic Management)

Plans, directs, and coordinates activities to complete assigned projects that are of moderate complexity/ value to ensure that projects are completed within prescribed contractual requirements, time frames, and funding parameters. Bachelor's degree in Electrical or Mechanical Engineering plus 12 years experience in engineering program management. Air Traffic Management product knowledge is highly desired. Reference#: 2010-0017

Senior Test Engineer

Propose, estimate, define, oversee the design, fabrication of, installation, check out and support of test equipment in support of IFF product lines. Bachelors degree in Engineering plus 7+ years experience. Ability to use standard electronic test equipment, such as oscilloscopes, meters, counters, frequency meters, logic analyzers, etc. Should have previous ATE and/or TPS experience testing and troubleshooting avionic systems. Reference#:2011-0029

Staff Software Engineer

Supports Linux and MS Windows application development in the Integrated Security Systems product line by developing, testing, and software integration in a CMMI compliant environment. Bachelor's of Science or graduate degree in computer science or related field plus 15+ years of experience. Must be proficient in Linux and have five years or more experience developing applications in Linux using C++. Air Traffic Management product knowledge is a plus. Reference#: 2010-0038

****All positions require a background that would permit the issuance of a Security clearance, which includes US citizenship.**

Make sure you include the Reference # in every communication and IEEE Newsletter as the source of the job posting

Visit the **Telephonics website** at: <https://telephonicscareers.silkroad.com/> for additional openings and detailed information.

Jobs Corner (continued)

REYNOLDS RECRUITERS

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TOP 10 RESUME MISTAKES !!

1. Too Focused on Job Duties

Your resume should not be a list of job duties and responsibilities. State how you made a difference at each company, providing specific examples.

2. Objective Statement

Lose the Objective – Here is your objective – A NEW JOB ! That is the purpose of a resume !

3. Too Short or Too Long

Many people try to squeeze their experiences onto one page, because they've heard resumes shouldn't be longer. By doing this, job seekers may delete impressive achievements. Other candidates ramble on about irrelevant or redundant experiences. There is no rule about resume length.

4. Using Personal Pronouns and Articles

There should be no mentions of "I" or "me," and only minimal use of articles.

5. Listing Irrelevant Information

3 Points

- Don't give a commercial for the Company. Mention what they do in the context of your job.
- Many people include their interests, but they should include only those relating to the job. For example, if a candidate is applying for a position as a ski instructor, he should list cross-country skiing as a hobby.
- Personal information, such as date of birth, marital status, height and weight, normally should not be on the resume.

6. Using a Functional Resume When You Have a Good Career History

It irks hiring managers not to see the career progression and impact you made at each position. Unless you have an emergency situation, such as virtually no work history or excessive job-hopping, avoid the functional format.

7. Not Including a Summary Section That Makes an Initial Hard Sell

This is one of the job seeker's greatest tools. Candidates who have done their homework will know the skills and competencies important to the position. The summary should demonstrate the skill level and experiences directly related to the position being sought.

Create a high-impact summary statement which captures the attention of the manager, highlighting achievements and skills along with education if advanced, and clearance if you have or have had one.

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Jobs Corner (continued)

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Soft skills need to be emphasized - interpersonal communications, ability to work collaboratively and commitment to achieving corporate goals. Make sure your personality shines through. The employer should find you to be likeable and well suited for the team.

8. Not Including Keywords

With so many companies using technology to store resumes, it's important to use relevant keywords throughout the resume. Determine keywords by reading job descriptions that interest you, and include the words you see repeatedly in your resume.

9. Referring to Your References

Employers know you have professional references. You don't need to state the obvious

10. Typos

Proofread and show your resume to several friends to have them proofread it as well. This document is a reflection of you and should be perfect.

Focus on Technological Results

Technical candidates usually make one of two critical errors on their resumes -- either the document is excessively long with excruciating detail on every assignment ever completed, or too short with hardly any descriptions at all. NO ACRONYMS Spell it out if it's important -- if not, omit it! Do not put BOTH the acronym and the entire phrase. Look for a balance in showcasing your achievements.

What to Include

For each position held, give a brief synopsis of the scope of your responsibility. Then show how your performance benefited the company. Give examples of how past initiatives led to positive outcomes such as enhanced efficiency, faster time-to-market, monetary savings. Measureable Accomplishments are powerful - include actual performance figures. Focus on your most impressive technical projects/accomplishments. What types of challenges did you face? What did you do to overcome the challenges? How did your performance improve the organization's bottom line?

For contract work, provide a bulleted list of your top projects, reason for hiring you, scope of the project, your approach to the project, work performed, and results.

Know Your Buyer - Who You are Selling To:

to Whom the Position Reports -- That is what your focus should be:

Upper Management sets strategic direction and how best to utilize funding, new product decisions, and watching and responding to trends in the marketplace. Profitability is the bottom line -- The Why?

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IEEE USA



New IEEE-USA President Looks to Advance U.S. Innovation & Entrepreneurship

New IEEE-USA President Ron Jensen has identified advancing U.S. innovation, entrepreneurship and competitiveness as his priorities for 2011.

"Engineers and technologists are innovators and job creators," Jensen said. "The more technology specialists we unleash in the workforce, the better our opportunity to revitalize the U.S. economy. Our nation's ability to innovate new products and services will help us to compete globally and create jobs in the United States."

Jensen, who became IEEE-USA president on 1 January, succeeds Evelyn Hirt. Jim Howard is president-elect.

Jensen is encouraged by the recently announced public/private partnership, Startup America, and its potential to increase the number of new businesses that have high-growth, high job-creating potential. See <http://www.whitehouse.gov/issues/startup-america>.

IEEE-USA supports and promotes high-tech entrepreneurship through programs like its Entrepreneurs Village, TechMatch and IEEE Alliance of Consultants Networks. In 2009, IEEE-USA entered into a partnership with the Small Business Administration to assist high-tech entrepreneurs starting new ventures. Federal and state resources are available at <http://www.ieeeusa.org/careers/entrepreneurs/resources.asp#SBA>.

"I am especially interested in understanding how we can help our members become more innovative, entrepreneurial and competitive in the global economy," Jensen said. "We have to understand what our members' careers will be like 5 to 10 years from now and support their adjustment to that environment."

IEEE-USA will also work with other science and engineering organizations to encourage Congress to fund the America COMPETES Reauthorization Act of 2010. The legislation, which was signed into law in December, authorizes federal investment in science, engineering, innovation, technology and competitiveness. Its goal is to help the United States maintain its world technology leadership and to create jobs.

Meet the New IEEE-USA President

Ronald G. Jensen enjoyed a 40-year career with IBM. He held positions in semiconductor development and applications, chip development, system design, systems architecture, management and project management. He assisted in the development of several IBM families of computers and servers, and retired in 2009 as a chief engineering manager.

Jensen's professional interests range from systems architecture and embedded systems to technical education, management and strategic planning, to the use of the Internet, collaboration tools and social networking to build a professional environment.

Jensen became a student IEEE member in 1972, a member three years later and a senior member in 1999. He also holds membership in Eta Kappa Nu, the electrical and computer engineering honor society, and the Project Management Institute.

Jensen has held numerous IEEE volunteer leadership positions. Highlights include, among others, serving on the IEEE Board of Directors as Region 4 director in 2005-06, and chairing the IEEE Strategic Planning Committee in 2007-08. He is a member of the IEEE Computer Society, Technology Management Council and Women in Engineering affinity group. He was honored with an IEEE Third Millennium Medal in 2000.

Jensen and his wife, Marlene, live on Lake Zumbro outside of Rochester, Minn. They have two grown sons, Joel and Ryan, and three grandchildren, Emily, Lily and Dane.

IEEE USA

IEEE-USA Presents \$2,500 in Scholarship Awards for 'How Engineers Make A World of Difference' Online Video Competition

In conjunction with Engineers Week 2011, IEEE-USA is presenting \$2,500 in scholarship awards to Zachary Phillips, an undergraduate electrical engineering student at LeTourneau University in Longview, Texas, for his first-place entry in the fourth IEEE-USA "How Engineers Make a World of Difference" online video competition.

According to Nita Patel, IEEE-USA vice president of communications and public awareness, Phillips' entry was deemed most effective in reinforcing for an 11-to-13-year-old audience how engineers and technology professionals improve the quality of life. He received both the first-place award (\$2,000) and a special award (\$500) for an in-person presentation of his video to more than two-dozen 11-to-13-year-olds at church.

A LeTourneau EE sophomore and IEEE student member, Phillips was also the second-place scholarship award winner in IEEE-USA's third online video competition held in 2009-10. He will be recognized for his 2010-11 award at the IEEE-USA Annual Meeting in Austin, Texas, on 5 March.

To view Phillips' award winning 2010-11 entry, as well as winning entries from the three previous years, visit <http://www.youtube.com/ieeusavideo>.

The three-judge video competition panel consisted of: Andrew Quecan, a Ph.D. student in electrical engineering at Stanford University; Suzette Aguilar, a Ph.D. student at the University of Wisconsin; and Nate Ball, a mechanical engineer and former host of PBS' "Design Squad."

According to IEEE-USA Vice President Patel, the video competition was designed to be replicated in IEEE student sections both in and outside of the United States. Reached by phone in Longview, Phillips told Patel that he produced his entry in one week's time during LeTourneau's winter break.

The winning entries are seen by the "tweener" target audience at the annual EWeek Discover Engineering Family Day, and on the "Design Squad Nation" Website.

See "Design Squad" Competition Archives at <http://pbskids.org/designsquad/blog/competition>.

IEEE-USA Government Fellowships: Linking Science, Technology & Engineering Professionals with Government

Each year, IEEE-USA sponsors three government fellowships for qualified IEEE members. The fellows, chosen by the IEEE-USA Government Fellows Committee and confirmed by the Board, spend a year in Washington serving as advisers to the U.S. Congress and to key U.S. Department of State decision makers.

Known as either a Congressional Fellowship or an Engineering & Diplomacy Fellowship, this program links science, technology and engineering professionals with government. This Fellowship also provides a mechanism for IEEE's U.S. members to learn firsthand about the public policy process while imparting their knowledge and experience to policymakers.

2012 application materials are now available online. **The deadline to apply is March 18, 2011.**

The application kit for the 2012 Congressional Fellowship can be found at:

http://ieeusa.org/policy/govfel/documents/cfappkit12_000.doc

The application kit for the 2012 Engineering & Diplomacy (State Department) Fellowship can be found at:

http://ieeusa.org/policy/govfel/documents/Stateappkit12_000.doc



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Discover the Benefits of Membership

A monthly column by Nikolaos Golas, Membership Development Chairman

Benefit Resources for Members

1. INNOVATION E-BOOK SERIES

This series of IEEE-USA E-Books on innovation provides the basics for gaining an understanding of what innovation involves, what it takes to be an innovator, and what it takes to develop a culture where innovation can thrive.

<http://www.ieeeusa.org/communications/ebooks/innovation.asp>



2. CONSULTANTS DATABASE SERIES

Any IEEE member who is interested in providing services as a consultant, full-time or part-time, can register in the IEEE-USA Consultants Database. Potential clients come to this database and use a search engine to find consultants among our IEEE members who are listed. More than 30,000 clients searched the database last year.

Visit the Consultants Database at:

<http://www.ieeeusa.org/business/consultants/>



3. IEEE TRAVEL PROGRAM

The IEEE Travel Program is intended to facilitate business-required travel, while managing costs and maintaining efficient business processes. Volunteers are encouraged to make travel arrangements through the IEEE's corporate travel agency, World Travel, Inc., whenever the purchase of fares through World Travel, Inc. is the most cost effective.

Visit the IEEE Travel Site at:

http://www.ieee.org/membership_services/services/travel/index.html



4. IEEE.tv

IEEE.tv is an award-winning, Internet-based television network that produces and delivers special-interest programming about technology and engineering for the benefit of IEEE's member and the general public. Its ever-growing library of programs includes videos on wind power, biomedical engineering, and on recycling computer and electronic products. New programs, recorded in high definition, are added monthly.

Visit the IEEE.tv Site at:

http://www.ieee.org/membership_services/services/travel/index.html



IEEE Introduces iPhone Application for Wireless Technology Definitions

IEEE, announced that its IEEE Standards Wireless Dictionary application, a comprehensive, one-of-a-kind dictionary of terms and definitions relating to wireless technology, is accessible by Apple® devices including iPhone®, iPod touch® and iPad®. It contains industry acronyms, names and terms provides easy access to definitions with special emphasis on commercial systems.

Over several decades, IEEE has accumulated more than 3,200 terms and definitions in its constantly expanding wireless lexicon. Culled from numerous IEEE standards, the wireless dictionary is searchable by keywords, standard number, or by browsing the database alphabetically. It provides complete source citations – a feature that will be greatly appreciated by researchers, editors and students. The search function automatically identifies terms as the user starts typing in the search field.

The dictionary encompasses numerous technology areas including: Ad hoc networks; broadband wireless access (BWA); coexistence; integrity/confidentiality; interference; low-rate wireless personal area networks (LR-WPAN); media independent handover; mobile broadband wireless access; mobility; quality of service (QoS); RF/microwave exposure assessment; SAR measurements; vehicular mobility; wireless access; wireless communications; wireless local area networks (WLANs); wireless metropolitan area networks (WMANs); wireless networks security; wireless personal area networks (WPANs); and wireless regional area networks (WRANs).

“The primary goal of this application is to provide easy access to meanings for the terminology, acro-nyms and jargon used in the wireless industry with a particular emphasis on commercial systems,” said Judith Gorman, Managing Director, IEEE Standards Association. “Since the iPhone has become one of the more popular wireless devices, it seems only natural to create an application that puts this unique repository of information at the user’s fingertips.”

The official release of the IEEE Standards Wireless Dictionary application for Apple devices was at the 2011 International Consumer Electronic Show (CES) in January in Las Vegas, Nev.

The release of the IEEE Standards Wireless Dictionary marks another milestone in the IEEE-SA’s initiative to expand its reach into the mobile arena. In July, IEEE-SA launched its National Electrical Safety Code® (NESC®) Mobile Standard, optimized for such mobile devices as smartphones and tablet PCs. IEEE plans to expand its efforts in the mobile arena, eventually rolling out other mobile initiatives across its vast global network of technical councils, societies, and study and work groups.

The IEEE Standards Wireless Dictionary application is available in [iTunes®](#) and it can be downloaded by going to [Apple](#) and searching under iPhone.

To learn more about the IEEE-SA, visit their [website](#). You can also find IEEE-SA on [Facebook](#) or follow them on [Twitter](#).



<http://www.ieee.org/renew>



March Lectures and Seminars

The Long Island Section AIAA, ASME, IEEE Product Safety Engineering Society, and IEEE Power & Energy Society / Industry Applications Society Joint Chapter Invites you to a presentation on

"NYIT Solar PHEV Project"

Tuesday March 8, 2011 (5:30 – 8:00PM)

New York Institute of Technology (Northern Blvd. Old Westbury, NY)
Saltan Hall – SCI

NYIT is planning to develop a new energy resource to address carbon emissions and petroleum consumption in the transportation sector...parking lots. When viewed through an alternate perspective, these seemingly static areas are large, un-shaded tracts of land, perfect for solar power generation. And when this source is coupled with plug in hybrid vehicles (PHEV), significant emissions reductions and fuel consumption reductions can be realized. In addition, while linked to the electric grid, this tandem pair can become a demand resource for the utility in a strategy called Vehicle to Grid (V2G). In conjunction to providing real world data to verify driving habits on Long Island and calibrate software simulation models, NYIT hopes to develop a scalable PV platform that can be easily extrapolated to lots of any size. In addition, we will analyze the economic merit of the vehicle to grid strategy and propose methods to improve the viability of this approach. The major goal is to translate these per vehicle benefits of emissions and consumption reductions to fleet level benefits. Even if only a quarter of registered vehicles on Long Island are PHEVs, 35% of local fuel consumption and emissions can be offset. This talk will cover features such as PHEV: Plug In Hybrid Vehicle; Solar Carport; and further research into technical and environmental aspects.

**Featuring Daniel Rapka,
Adjunct Professor, Mechanical Engineering, NYIT**

This lecture will offer 0.2 CEU credits or 2 PDH

CEU fee is \$30 – make checks payable to IEEE Long Island Section

All are welcome - **NO cost to attend** - Pizza will be provided

Proof of citizenship and photo ID are NOT required

If you wish to attend, please register by clicking on the following address

http://meetings.vtools.ieee.org/meeting_view/list_meeting/5283

(attendees registering for CEU's please type "CEU" in the phone number field)

The Long Island Chapter of the IEEE Instrumentation & Measurement Society and the Long Island LabVIEW User Group (LILUG) are presenting the following seminar titled:

Object Oriented Programming in LabVIEW

by Steven Hoenig, Bloomy Controls, Inc.

Thursday, March 10, 2011 at 6:00 PM

Refreshments will be served at 6:00 PM, lecture starts at 6:30 PM

Telephonics Corporation - Farmingdale, NY

Abstract:

Object Oriented Programming is a powerful software development methodology that has become an accepted standard in many programming languages, such as C++ and Java, and is available within the LabVIEW programming environment. Steven will introduce basic concepts of Object Oriented software development and the LabVIEW Object Oriented Programming (LVOOP) model. Real-world examples will be given to demonstrate how and when LVOOP can be used, and the advantages it can bring to your LabVIEW applications.

Speaker Biography:

Steven Hoenig is the Business Unit Manager of the New Jersey field office of Bloomy Controls. Bloomy Controls, Inc. is a leading developer of high performance automated test, data acquisition, and control systems. The company is a National Instruments Select Alliance Partner with more than 18 years of experience developing LabVIEW applications for a wide range of R&D, validation, and manufacturing applications. Steven holds a B.S. in Electrical Engineering from The Cooper Union and an M.S. in Electrical Engineering from Columbia University. He is a National Instruments Certified LabVIEW Architect and Certified Professional Instructor.

Photo ID is required to enter the facility.

Registration is required, and is available online only. Please visit the [Calendar Page](#) of the IEEE Long Island Website www.ieee.li and click on the registration link, and fill out the form or click on the following Long Island LabVIEW User Group Registration Link. All are invited, and the lecture is free.

Seminar Coordinator: Robert Berger, Chair of the IEEE Instrumentation & Measurement Society, LI Section

March Lectures and Seminars (continued)

The Long Island Chapter of the IEEE Signal Processing Society (SPS) is presenting the following lecture titled:

Digital Signal Processing For Radar Applications

By Michael Parker, Senior DSP Technical Marketing Manager, Altera Inc.
Benjamin Esposito, Principal DSP Technology Specialist, Altera Inc.

Tuesday March 15, 2011

Telephonics Corporation - Farmingdale, NY

Refreshments will be served at 6:00 PM, lecture starts at 6:30 PM

Abstract: This seminar will feature a space-time adaptive processing (STAP)-pulsed Doppler radar simulation using back-end FPGA implementation: Complete model of a radar system environment with MATLAB and Simulink. Highly-optimized implementation of radar STAP back-end processing using DSP Builder Advanced Blockset. Implementation at 300-MHz system clock rates on Altera Stratix IV FPGA board. Full complement of FPGA-optimized floating-point functions within Altera DSP Builder. During the seminar, solutions will be presented to the challenges faced by system and implementation engineers.

Speaker Biography: **Michael Parker** joined Altera in January 2007, and has over 20 years of DSP wireless engineering design experience with Alvarion, Soma Networks, TCSI, Stanford Telecom and numerous startup companies. Michael also authored Digital Signal Processing 101, published in 2010. As Senior DSP Technical Marketing Manager, he is responsible for Altera's DSP product planning. This includes optimizing FPGA silicon architecture for DSP applications, DSP tool development, Floating point IP and DSP IP planning. **Benjamin Esposito** works as Principal DSP technology Specialist with system architects helping them map DSP algorithms over to Altera devices efficiently. He also works closely with Altera DSP product planning specifying requirements for future silicon, tools and IP.

Photo ID is required to enter the facility.

Registration is required and is available online only. Please visit the Calendar Page of the IEEE Long Island Website <http://www.ieee.li/calendar/> and click on the registration link, and fill out the form. **All are invited, and the lecture is free.**

Seminar Coordinator: Garry Gu, Vice-Chair of the IEEE Signal Processing Society (SPS), LI Section

The Long Island Chapter of IEEE Electromagnetic Compatibility Society is presenting a lecture titled:

Understanding EMP (Electromagnetic Pulse) threats and how to mitigate these events

By Jason Koshy, E3 Program Manager Mil/Aero

Tuesday, March 22, 2011

BAE Systems - Greenlawn, NY

Refreshments will be served at 6:00 PM, lecture starts at 6:30 PM

WHO SHOULD ATTEND? This presentation is geared toward people who are interested in understanding EMP (Electromagnetic Pulse) threats and how to mitigate these events. We will outline HEMP (High altitude EMP), SREMP (Surface generated EMP), manmade weapons, and Solar Flairs. In addition we will also cover EMP, EMI (Electromagnetic Interference) and transient (lightning and manmade surges) filtering mitigation and coordination. This presentation will go into how these events are generated, related industry standards, and how to eliminate these events from you critical systems. The presentation will focus on applications and coordination for AC power, DC power, signal, data, and RF. We will address how these applications can be mitigated on various systems that range from shelters, vehicles, planes, ships and facilities.

Abstract: The presentation will cover EMP, EMI and Surge Transient threat origins with respect to MIL-STD 461, MIL-STD 464, Mil-Std 188-125-1 and Mil-Std 188-125-2. The presentation will provide an overview of shielding effectiveness, testing and key test labs. Applications will include AC surge protection, Data Surge protection (TI, Ethernet, POTS, POE) and RF Surge protection (WLAN, VHF, UHF, GPS, etc.). Topics will also cover system coordination for vehicles, planes, shelters, facilities and shipboards.

Speaker Biography: Mr. Koshy graduated from the University of South Florida with an electrical engineering degree. Josh has been in the power quality and filtering market for the last 14 years. Josh's main focus is on EMP, EMI and surge mitigation, applications and coordination.

Seating is limited. If you wish to attend, an RSVP is required prior to the meeting. To register please visit the calendar page of the IEEE Long Island Website, www.ieee.li, click on the registration link, and fill out the form. Registrants must be US citizens. Please enter through the Main Atrium entrance on Pulaski Road.

Seminar Coordinators: Mr. Bob DeLisi and Mr. Donald Lerner

March Lectures and Seminars (continued)

The IEEE Long Island Section Computer Society and Long Island University - Palmer School of Library and Information Science present a seminar titled:

Profections in Cyberspace: A New Kind of Information - Implications for Individuals, Institutions, and Information Professionals

By Gary Marchionini - University of North Carolina, Chapel Hill

Tuesday March 29, 2011

Refreshments will be served at 6:00PM, lecture starts at 7:00PM

Tilles Center Patron's Lounge

C.W. Post Campus of Long Island University - Brookville, NY

WHO SHOULD ATTEND? Persons who are interested in learning more about the cyberspace and profection of self and discuss implications for individuals, institutions, and information professionals.

Abstract:

More of our time is spent online in a virtual space that is often called cyberspace. Our actions -- and the enormous variety of consequent actions taken by other people and machines related to our actions -- lead to the accrual of dynamic traces of our existence. These traces of our personal identity in cyberspace can be called "profections of self." This lecture will define cyberspace and profection of self and discuss implications for individuals, institutions, and information professionals.

Speaker Bio: Gary Marchionini is Dean and Cary C. Boshamer Professor in the School of Information and Library Science at the University of North Carolina where he serves as Dean of the school. He formerly taught courses in human-information interaction, interface design and testing, and digital libraries. He heads the Interaction Design Laboratory at SILS. His Ph.D. is from Wayne State University in mathematics education with an emphasis on educational computing. He was previously professor in the College of Library and Information Services at the University of Maryland and a member of the Human-Computer Interaction Laboratory (1983-1998). Dr. Marchionini's research interests include: Information interaction, human-computer interaction, human-centered computing, information retrieval, digital libraries, information architecture, digital government, cyberspace identity, and information Policy.

The seminar is free and open to all.

If you wish to attend, please register via internet in the calendar page of www.ieee.li. You can contact the coordinator Metodi Filipov by email at mfilipov@ieee.org This event is supported in part by the IEEE Computer Society.

Seminar Coordinator: Metodi Filipov, Computer Society Chair of the IEEE Long Island Section.

In Memoriam

Dr. Herman C. Okean died on January 30, 2011. He was an IEEE Fellow who made important contributions to the development of microwave integrated circuits and low noise amplifiers. Dr. Okean worked at Bell Labs in the mid-fifties and early sixties. He then came to Long Island to work at AIL (now part of ITT) where he led the development of the first

EW receiver consisting of a set of microwave integrated circuit modules. He was one of the founders of LNR Communications in 1971, where he continued to develop microwave components and systems for space application.

We extend our condolences to his wife, Maxene.


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