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

I hope that you have enjoyed a great spring so far and you're looking forward to an even better summer. May is named after the Greek goddess, Maia. This month is a time when flowers emerge and crops begin to sprout. In Greece, wild flowers are gathered and woven into May Day wreaths, which are then hung out to dry until June 23rd, which is known as St. John's the Baptist Eve and then are burned in midsummer bonfires.

Our first big event this month is the seventh annual **Long Island Systems, Applications and Technology Conference(LISAT2011)** on **Friday, May 6, 2011** at **Farmingdale State College**. The LISAT Conference has evolved into a premier technical event on Long Island since its inception back in 2005. Our **LISAT2011 Professional Development** courses will focus on the '**Digital Power Supply Technology**'. Attendees can earn up to 6 PDH or 0.6 CEUs for these courses. The first course has the title: **'Overview of Four Digitally Controlled Power Supply Development Kits**' and will be presented by Shamim Choudhury. Shamim who will also present the second course titled: '**Digitally Controlled Bridgeless PFC**'. The third and final course offered has the title: '**Digital Filters for Switch-Mode Power Converters**' and it will be presented by Keng C. Wu. I would like to thank our Professional Development Program Chair **Ted Pappas** for putting this track together. The Conference offers four (4) additional parallel tracks including tracks in **Systems, Applications, Technology** along with a **Product Applications Track**. In addition, I would like to thank the Conference Chair **Dave Mesecher** and the Conference Co-Chair **Dr. Charles Rubenstein** along with the Technical Program Committee (TPC) Chair **Dan Rogers** and **Jesse Taub**, TPC Co-Chair and all the **LISAT Committee** members for making the Conference a success year-after-year. Additional information for the Conferences can be found inside the Pulse. Registration is now open for the Conference at: www.ieee.li/lisat. Please join us on **May 6th.**

Our second big event in May is the **IEEE Innovation Day Conference** on **Tuesday, May 17, 2011** at **NYU-Poly in Brooklyn, NY**. The IEEE Long Island Section is co-sponsoring the Conference along with the following five (5) Region 1 Southern Sections: Connecticut, New Jersey Coast, New York, North Jersey, Princeton-Central Jersey and the IEEE Metropolitan Sections Activities Council (METSAC). This **IEEE Innovation Day Conference** brings local engineers, researchers, industry leaders, educators and students under one roof for the advancement of engineering innovation, networking and knowledge sharing leading to the efficient realizations of engineering innovation. Unemployed and Life IEEE Members will get a REFUND once they attend the event for the entire day. Non IEEE members can use the full refund towards their IEEE membership if they decide to join IEEE. Congratulations to the Conference General Chair Prof. Durga Misra and the Committee for putting together such a diverse list of speakers including the Plenary Speaker Dr. William F. Brinkman, Director, Office of Science, U.S. Department of Energy, and the Keynote Speaker Dr. Alice White, Vice President, Bell Labs North America.

Visit the **IEEE Innovation Day Conference** website at: ewh.ieee.org/reg/1/innovation_day/.

The Section is taking advantage of the availability of Social Media and right now we have a big presence on LinkedIn with the following Groups:

IEEE Long Island Section Group
http://www.linkedin.com/groups?gid=3173694
IEEE Computer Society of Long Island
http://www.linkedin.com/groups?gid=3500493
IEEE PSES Long Island Chapter
http://www.linkedin.com/groups?gid=2449619
IEEE Long Island Consultants Network (LICN)
http://www.linkedin.com/groups?gid=1930607

The IEEE Long Island Section would like to expand its presence on **Facebook**, **Twitter** and other **Social Media**. If any of our members has experience with **Social Media** and would be interested in our new **Social Media Coordinator** position, please contact the **Chairman** at the email below. We are also forming a **Social Media Committee** and are looking for LI Section members to join.

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

Calendar of Events

May 2011

May 4th
Long Island Consultants Network and PACE meeting
So You Want to be a Consultant? 12 Steps to Success
By Vince Socci
6:30pm Refreshments 7:00pm Lecture
The Great Room
Briarcliffe College—Bethpage, LI

May 6th
LISAT
Long Island Systems, Applications, and Technology Conference
8:30am - 5:00pm
SUNY Farmingdale - Farmingdale, LI

May 18th
MTT Society Meeting
6:00pm Refreshments 6:30pm Lecture
Narda L-3 - Hauppauge, LI

May 19th
Communications Society Meeting
Phase Noise, Part II
By Howard Hausman
6:00pm Refreshments 6:30pm Lecture
BAE - Greenlawn, LI

May 23rd
EXCOM Meeting
5:45pm Dinner 6:15pm Meeting
Telephonics - Farmingdale, LI

May 26th
EMC Society Meeting
How to Gain More Knowledge on Advanced EMC Applications
By Marcin Szajner
6:00pm Refreshments 6:30pm Lecture
BAE Systems - Greenlawn, LI

June 2011

June 1st
Long Island Consultants Network Meeting
7:00pm
The Great Room
Briarcliffe College - Bethpage, LI

June 7th
EMC Society Meeting
How to Gain More Knowledge on Advanced EMC Applications
By Marcin Szajner
6:00pm Refreshments 6:30pm Lecture
BAE Systems - Greenlawn, LI

June 9th
Instrumentation and Measurement Meeting
5:50pm Refreshments 6:00pm Lecture
Telephonics - Farmingdale, LI

June 13th
PACE Event
IEEE Senior Member Grade Elevation Night
6:00pm - 8:00pm
Telephonics - Farmingdale, LI

June 21st
Signal Processing Society Meeting
Multi-core DSP Applications
6:00pm Refreshments 6:30pm Lecture
Telephonics - Farmingdale, LI

June 27th
EXCOM Meeting
5:45 pm Dinner 6:15 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:
Nikolas Golas 631-755-7059
membership@IEEE.LI

LEGAL AFFAIRS

As I mentioned last month, the **America Invents Act,** formerly known as the Patent Reform Act of 2011, was passed by the Senate in March. A related bill is currently being debated by the House of Representatives. The House is going through all sorts of changes and amendments to their version of the bill and so I will continue to share with you what was passed by an overwhelming majority of the Senate. I hope you will see that the issues being legislated are quite complex and not simply fixing a broken patent system as has been suggested in some media. In fact, virtually every provision will generally hurt innovation and does very little to affect the scope of examination in the Patent Office.

Some changes would be made during prosecution of patent applications. It looks like the inventor must literally be named in the application itself – as opposed to simply being listed in a cover sheet. Rules are relaxed for making substitute statements in the name of the inventor in case he is unavailable or unwilling to sign applicable papers. A company may be able to file a patent application in the name of the company if the inventor is under an obligation to assign the application to that company.

Provisions are added to challenge an issued patent. The current law allows a patent to be challenged in a variety of ways. A re-examination request may be filed with the Patent Office challenging the validity of a patent based on novelty. A similar challenge may be raised in district court. Four new procedures are added to challenge patents: Inter-partes review, Post-grant Review, Supplemental examination, and Business Method Patents review. I'll handle the first two this month.

The Inter-partes review is intended to replace re-examinations. A notable difference is that this review cannot be filed if there is already a civil action challenging the validity of a claim or after a complaint of infringement has been received. Currently, a defendant may challenge a patent in court AND file a request for re-examination in the Patent Office. This bill appears to remove that option.

Post-grant Review would allow someone to challenge a patent on any invalidity ground if the request is filed within 9 months of a patent issuing. These grounds include novelty, statutory subject matter (is it the type of thing worthy of patent protection), challenges to the description, the clarity of the claims, etc. This is much broader than challenges currently available. As with the Inter-partes review, the Post-grant Review cannot be filed if there is already a pending civil action.

Steve Rubin
srubin@dilworthbarrese.com

Industry News

Motorola Solutions Foundation Donates $50,000 towards Long Island Regional FIRST Robotics Program

Tom Boehm, Software Engineer, Motorola Solutions, presented a check to School-Business Partnerships of Long Island, Inc. (SBPLI) on behalf of Motorola Solutions Foundation in the amount of $50,000. The money went toward the cost of this year's Long Island FIRST (For Inspiration and Recognition of Science and Technology) Robotics Competition (FRC), which was held March 25-26, 2011 at Hofstra University.

Each year, it costs approximately $250,000 to provide the Long Island Regional FRC program. Due to economic circumstances, it has become more difficult for SBPLI to acquire funding for the competition, which has seen a growing number of participating teams over the years. SBPLI thanked Motorola Solutions Foundation for its very generous donation.

CAPTION:
Pictured (left to right): Joani Madarash, Board Member, and Janet Anderson, Acting President, School-Business Partnerships of Long Island, Inc.; and Tom Boehm, Software Engineer, Motorola Solutions and Mentor, Patchogue-Medford High School Robotics Team #329.

IEEE Long Island Section
2011 Annual Awards Ceremony

On Thursday evening, March 31, 2011 the IEEE Long Island Section held its annual Awards Ceremony at the Hyatt Regency in Hauppauge, LI. This event recognized the achievements and contributions of individuals who made significant contributions to the Electrical Engineering Profession and to the IEEE Long Island Section. Click here for additional information about this event and the award recipients.

Region 1 Award Recipients

Volunteer Section Certificate Award Recipients

Volunteer Section Plaque Award Recipients

LI Section Award Recipients

Nikolaos Golas, Chairman, LI Section

Jesse Taub, Awards Committee Chairman

Frank Messina, Keynote Speaker

LISAT2011- Long Island Systems, Applications and Technology Conference

LISAT2011

Long Island Systems, Applications and Technology Conference

The IEEE Long Island Section's Annual Conference

Friday, May 6, 2011

Farmingdale State College

Farmingdale, New York

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

The IEEE Long Island Section in cooperation with its technical society chapters and IEEE Region One will hold the 2011 Long Island Systems, Applications and Technology Conference (LISAT2011) on Friday, May 7, 2011 at Farmingdale State College of the State University of New York. This seventh annual Conference will feature presentations that highlight new and interesting work on a variety of electronic systems, technologies and applications - most of which are Long Island based, as well as a graduate student paper track. There will also be a full-day Professional Development Track which will provide attendees up to 0.6 CEUs (6 PDHs).

Program at a Glance

Three all-day parallel systems, applications and technical tracks

Product Applications Track

Four lectures on practical applications of tools and equipment

Independent six-hour CEU/PDH Track

"Digital Power Supply Technology"

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

Exhibits Hall

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

Poster Session

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

For more information or to register for LISAT2011, please go to

www.ieee/li/lisat

LISAT2011 Registration

LISAT2011
Friday, May 6, 2011

Registration Information

Registration Rates

IEEE Members	$150.00
Unemployed IEEE Members	$35.00
IEEE Student & Life Members	$75.00
Non-Members	$200.00
Professional Engineers	$150.00
CEU Credit Fee (0.6 CEUs)	$30.00

To Register for this conference, please go to

www.ieee/li/lisat

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LISAT2011 Conference Sponsorship Opportunities

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- Listing in the LISAT Conference Program and in the IEEE Long Island Section Newsletter - The PULSE

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- Listing in the LISAT Conference Program and in the IEEE Long Island Section Newsletter - The PULSE

Conference Luncheon **$1500.00**
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Speaker's Breakfast **$1000.00**
- One FULL day conference registration
- Corporate banner displayed at luncheon
- Listing in the LISAT Conference Program and in the IEEE Long Island Section Newsletter - The PULSE

Conference Break's **$1000.00**
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- Corporate banner displayed at luncheon
- Listing in the LISAT Conference Program and in the IEEE Long Island Section Newsletter - The PULSE

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To sponsor LISAT2011, please contact :

Terry Stratoudakis terry@aleconsultants.com
David Bomzer tbomzer@daypitney.com

LISAT2011 Conference CEU/PDH Track Offerings

Digital Power Supply Technology Offerings

Digital Filters for Switch-Mode Power Converters

By Keng C. Wu
0.2 CEUs; 2PDHs

Who should attend: Those interested in the design of digital filters for switch-mode power converters.

Abstract: Digital filters design procedures for switch-mode power converter applications are presented. Based on the state-space averaging and the conventional analog approach, control loop stability of power converter is first established. The procedure then isolates and identifies the main error amplifier transfer function, embedded in the control loop, in both symbolic and numerical forms and in terms of standard Laplace s-operator. Bilinear transformation, $s = C(1- z^{-1})/(1+ z^{-1})$, converts the analog, s-domain transfer function to the digital, z-domain. By placing further the z-domain transfer function in standard form with rational polynomials in z^{-n}, coefficients of polynomials for the corresponding digital filter are identified. The digital filter is then incorporated using Direct Form 2 implementation. Time-domain simulations employing MathCAD and MATLAB SIMULINK confirm the power converter operations based on either analog control or digital filter. The procedure covers both voltage-mode and peak current-mode control techniques. It is intended for intermediate audience. This course will run for one hour and 45 minutes including a Q&A session at the end.

Speaker's Biography: Keng C. Wu (M'97), a native of Chiayi, Talin, Taiwan, received the B.S. degree from Chiaotung University, Taiwan, in 1969 and the M.S. degree from Northwestern University, Evanston, Illinois in 1973. He was a lead member, technical staff, of Lockheed Martin, Moorestown, NJ. He has published four books, "Pulse Width Modulated DC-DC Converters" Chapman & Hall, Jan. 1997; "Transistor Circuits for Spacecraft Power System" Kluwer Academic Publishers, Nov. 2002; "Switch-mode Power Converters: Design and Analysis" Academic Press, Elsevier, Nov. 2005; "Power Rectifiers, Inverters, and Converter" Lulu.com Nov. 2008. He holds seven U.S. patents, was awarded "Author of the Year" twice (2003 and 2006 Lockheed Martin, Moorestown), and presented a 3-hour educational seminar IEEE APEC-2007 S17.

Digitally Controlled Bridgeless PFC

By Shamim Choudhury
0.2 CEUs; 2 PDHs

Who should attend: Those interested in the use of digitally controlled bridgeless PFC.

Abstract: As power efficiency becomes a more and more important consideration in power supply design, bridgeless PFC is becoming more and more attractive for many power supply designers. This presentation will go over the bridgeless PFC topology and discuss in detail it's digital control and digital control implementation. Differentiated digital techniques such as the usage of true average current to close the control loop and the derivation and calculation of average current are also discussed.

Speaker's Biography: Shamim Choudhury has been with Texas Instruments Inc. since December 1997. He currently serves as a Senior Systems & Application Engineer with C2000 Digital Power group. As a member of the system applications team, his main areas of interest have been on digital control of AC-DC & DC-DC switching power supplies, Power Factor Correction converters, UPS and motor control systems. He has published and presented multiple conference papers and TI application reports in these areas. Prior to his joining TI, Shamim spent 2 years at Alcatel, and 3 years at International Game Technology, as a Design Engineer working on switch mode power supplies. He received his M.S. degree in Electrical Engineering from Texas A&M University in College Station, TX, in December 1991 and is a member of the IEEE Power Electronics Society.

Farmingdale State College

LISAT2011 Conference CEU/PDH Track Offerings (continued)

Digital Power Supply Technology Offerings *(continued)*

Overview of Four Digitally Controlled Power Supply Development Kits

By Shamim Choudhury
0.2 CEUs; 2 PDHs

Who should attend: Those interested in the design of digitally controlled power supplies.

Abstract: The presentation provides an overview of four digitally controlled power supply development kits, the Phase-Shifted Full Bridge Isolated DC/DC, LLC Resonant Isolated DC/DC, Bridgeless PFC kits, and Interleaved PFC Kits. All four kits are digitally controlled with C2000 Piccolo digital controllers. Topics covered include specifications and input/output characteristics. These four power topologies are the most commonly used power topologies in today's advanced AC/DC power supplies or rectifiers. These topologies provide a solid starting point for power supply developers that are either interested in digital power as an R&D project or developing a real product.

Speaker's Biography: Shamim Choudhury has been with Texas Instruments Inc. since December 1997. He currently serves as a Senior Systems & Application Engineer with C2000 Digital Power group. As a member of the system applications team, his main areas of interest have been on digital control of AC-DC & DC-DC switching power supplies, Power Factor Correction converters, UPS and motor control systems. He has published and presented multiple conference papers and TI application reports in these areas. Prior to his joining TI, Shamim spent 2 years at Alcatel, and 3 years at International Game Technology, as a Design Engineer working on switch mode power supplies. He received his M.S. degree in Electrical Engineering from Texas A&M University in College Station, TX, in December 1991 and is a member of the IEEE Power Electronics Society.

Registration to LISAT2011 is required to attend the CEU/PDH track offerings. Registration is $150.00 for IEEE Members and Registered PE's. The registration fee for non-members who are not PE's is $200.00. All those wishing to have their CEUs recorded will be charged an additional $30.00 (covers three 2-hour classes).

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IACET CEU Provider #1255

For more information or to register for LISAT2011, please go to
www.ieee/li/lisat

LISAT2011 Conference Program Schedule

	REGISTRATION - ROOSEVELT HALL		
8:00 - 8:30	**Opening Ceremony and Keynote Presentations** *Roosevelt Hall - Little Theatre*		
	BREAK (8:30 - 9:00): ***Roosevelt Hall Multi-Purpose Room Exhibits Area***		
	Systems Track Lupton Hall Room T-101	**Applications Track** Lupton Hall Room 190	**Technology Track** Lupton Hall Room 161
9:00 - 10:15	**Session 1** **S01**. Information Dissemination over Low-Bandwidth Links **S02**. The Bandwidth Crunch: Can Wireless Technology Meet the Skyrocketing Demand for Mobile Data? **S03**. Cognitive Radio Based Wireless Sensor Network Architecture For Smart Grid Utility	**Session 1** **A01**. A Few DNA-based Security Techniques **A02**. Encryption and Multiplexing of Fingerprints for Enhanced Security **A03**. Bypassing Web-based Wireless Authentication Systems	**Session 1** **T01**. Design for Nano-scale Spiral Antenna for Power Harvesting Applications **T02**. Design of Resonant Iris Filter with Dielectric Filled Cavities **T03.** Fully Integrated PLL Based Clock Generator for Implantable Biomedical Applications
	BREAK (10:15 - 10:45): ***Roosevelt Hall Multi-Purpose Room Exhibits Area***		
10:45 - 12:00	**Session 2** **S04.** Convergence of Multiple Radio Access Technologies **S05**. Real-Time Traffic Information System Based on GPS Tracking **S06**.Middleware/API and Data Fusion in Wireless Sensor Networks	**Session 2** **A04**. Bit Error Rate Estimation for MIMO HSDPA: Chip Level Wiener Equalizer and Successive Interference Cancellation **A05**. Eagle O: A Semi-Autonomous Robot **A06**. Sleep Apnea Diagnostic System	**Session 2** **T04**. Spectrum Sensing Based on Time Covariance Matrix by Using GNU Radio and USRP for Cognitive Radio **T05**. Effect of Radiation on the Molecular and Contamination Properties of Silicone-Based Coatings **T06**. Fiber Optics for Harsh Environments
	LUNCH (12:00 - 1:30): ***Roosevelt Hall Multi-Purpose Room Exhibits Area***		
1:30 - 2:45	**Session 3** **S07**. Management of Li-Ion Battery Systems on Board Satellites Focusing on Cell Balancing **S08**. Combinatorics & Power Consumption **S09**. Non-Intrusive Electrical Load Monitoring and Profiling Methods for Applications in Energy Management Systems	**Session 3** **A07**. Adding Code Generation to Develop a Simulation Platform **A08**. Selection of Electronic Health Records Software Challenges, Considerations, and Recommendations **A09**. Securing our Nation and Protecting Privacy	**Session 3** **T07**. Enhanced Photosynthesis Based Electronic Energy Generation **T08**. SEVA-INTEGRAL– An Instrument for Exploration of Pathogenic Zones **T09**. Dielectric Analysis for Torque of Solute Ion Coulomb Force Monopole Motor
	BREAK (2:45 - 3:15): ***Roosevelt Hall Multi-Purpose Room Exhibits Area***		
3:15- 4:30	**Session 4** **S10**. The Impact of Project Retrospectives on Process Improvement Initiatives: A Case Study **S11**. MoM Software for GPU Hardware **S12**. Applying Lessons from Safety-Critical Systems to	**Session 4** **A10.** Practical Implementation of Time Covariance Spectrum Sensing Methods Using WRAP **A11.** Model of Smart Solar Power Station **A12.** Service-Learning Computing Courses Assist with Technology Needs in Community Based Organizations Serving Older Adults	

LISAT2011 Conference Program Schedule (continued)

	Product Applications Track Roosevelt Hall Room 109
1:30 - 2:45	**MITEQ, Inc. and Day Pitney LLP:** *Patent Law Essentials & Updates*
2:45 -3:15	**BREAK**
3:15 - 4:30	**National Instruments:** *Techniques for Streaming and Analyzing Terabytes of Continuous Data*

	CEU/PDH Track Electric Utility Distribution Engineering Roosevelt Hall Room 111
8:35 - 10:15	**Session I** Digital Filters for Switch-Mode Power Converters *(0.2 CEU's, 2 PHDs)*
10:15 -10:30	**BREAK**
10:30 - 12:10	**Session II** Digitally Controlled Bridgeless PFC *(0.2 CEU's, 2PDHs)*
12:10 - 1:10	**LUNCH**
1:10 - 2:50	**Session III** Overview of 4 Digitally Controlled Power Supply Development Kits *(0.2 CEU's, 2 PDHs)*

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Career Management

Career Corner: Time to think? Are you kidding?

In a management training workshop that I attended recently, I was asked how I make impact in the workplace. I recall being a little awkward trying to answer, although I managed to say that I try to understand, interpret and present things in a way different from most that have looked at it, and hope this would be beneficial for the progress to be made.

This has served me well in my role as a manager, where I am layers removed from hands-on experience and need to rely on information real and perceived coming from various sources. For me to be able to consistently and constantly do this, I need to make "time to think" as a part of my daily schedule. Thoughts and ideas produced by this "Think Time" habit will be shaped & stretched by more "Think Time".

Surviving and thriving in modern work day environment has become more challenging than ever. While we may not be working 24 hours a day, 7 days a week, we seem to be on the alert 24x7. We live in a "*lead or perish*" work environment.

So, how do we get through the day, unscathed, unembarrassed and hopefully making a positive impact?

While there are many tips & tricks for a successful and stress-free management of career and life, making time to think should rank among the top choices.

Thoughts and ideas produced as a result of your "habit of making time to think" may save you and your organization from costly and embarrassing mistakes at one end, and at the other, you can be a hero for a million-dollar idea. Making time to think allows you to be rational, objective, and anticipatory, make a healthy assessment of how far or close to the goals or objectives you have set for yourself.

It will also give you a chance to re-tone, re-tune your messages or signals.

The need for thinking to produce thoughts and ideas suitable and relevant to your situations is for all working types. Recognizing this need and thus adjusting your behavior to make it happen will truly make you a successful and stress-free employee.

Of this, I think, there is no doubt.

Bala Prasanna
Region 1 Treasurer, Senior Member-IEEE

Bala Prasanna
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Acknowledgements:
1.Bala Prasanna – Career & Life Management Skills for Success, slide presentation
2. http://www.thepracticeofleadership.net/2005/03/12/developing-a-leadership-philosophy/ - **Developing a leadership Philosophy**

May Lectures and Seminars

The IEEE Long Island Consultants Network (LICN) and PACE (Professional Activities Council for Engineers) of the IEEE LI Section are presenting

So You Want to be a Consultant? 12 Steps to Success

By Vince Socci

Wednesday May 4, 2011

Refreshments will be served at 6:30 PM, lecture starts at 7:00 PM

The Great Room at Briarcliffe College - Bethpage, LI

Abstract: Many people have considered going into business for themselves as an independent consultant, but have held themselves back because they did not have a clear vision for how to get started. Perhaps they did not know how to define their technical offering. Maybe they feared the business and marketing aspects of being a consultant. They may not know how to get started, worse yet they may have already started with unrealistic goals or a poor plan and ended up in trouble. This is a how-to-do-it seminar for the beginner consultant, with a step-by-step process to launch a new consulting business. It explains what to do and what to watch out for. Valuable lessons and insights from real experience will be revealed. This is a guide for practitioners who are ready to try their hand in the consulting business.

TAKE YOUR FIRST STEP IN BECOMING YOUR OWN BOSS BY ATTENDING THIS LECTURE.

About the speaker: Vince Socci is a proven engineering leader in embedded systems, sensor and signal processing, controls, power management, communications and diagnostic systems. He has over twenty years of experience in various industries, including aerospace, automotive, defense systems, medical, industrial controls, and simulation. He managed several major development and production programs and has implemented business and technology strategies for many new ventures. Mr. Socci holds an MBA in technology management, and MS and BS degrees in electrical engineering. As Chief Engineer for On Target Technology Development, where he is responsible for mission-critical embedded systems development. He is an active leader of IEEE and is a candidate for IEEE Region 1 Director-Elect for 2012-2013.

Registration is Required. Please e-mail John Dunn at ambertec@ieee.org. All are invited, and the lecture is free.

The Long Island Chapter of the IEEE Microwave Theory & Techniques Society is presenting

Amplifier Design and Topology for Microwave Applications

By Tibby Mazilu, Ph.D. AML Communications

Wednesday, May 18, 2011 at 6:00 PM

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

L-3 Communications Narda Microwave - Hauppauge, LI

Who Should Attend? Engineers with an interest in the design, evaluation, and/or use of microwave amplifiers.

Abstract: Amplifiers employed in microwave systems are a major determinant of performance. Meeting stringent requirements depends not only on the selected device (the core of the amplifier) but also on the supporting circuitry and the design topology. The lecture will highlight relevant characteristics of microwave devices and their suitability for various applications. Device noise figure, output power and frequency characteristics are compared and their limitations discussed. Several amplifier architecture configurations are discussed along with performance limitations and tradeoffs of MESFET, HEMT, HBT and GaN devices. Finally, practical implementation and test results for several amplifiers classified by critical requirements are presented.

About the speaker: Dr. Mazilu received the BSEE degree from IPT in Romania in 1969, and the MS and PhD degrees in Electrical Engineering in 1977, and 1981 respectively, from the University of California, Los Angeles. He worked for Spinner Group in Munich Germany, where he gained his first practical realization of RF and microwave components. Prior to AML he worked for Bunker Ramo Corp and Hughes Aircraft Company in various functions. In 1986 he co-founded AML Communications, Inc. and serves as Vice President of Engineering providing technical solutions for its diverse microwave products.

Registration: Registration is required, and is available online only. A photo ID is needed to enter the facility. Please visit the calendar page of the IEEE Long Island Website www.IEEE.LI, click on the registration link, and fill out the form.

Lecture Coordinators:

Eric Darvin, MTT Vice Chairman for the IEEE Long Island Section (mtt@ieee.li)

James Colotti, MTT Chairman for the IEEE Long Island Section (mtt@ieee.li)

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

May Lectures and Seminars (Continued)

The Long Island Chapter of IEEE Electromagnetic Compatibility Society is presenting

Characterizing Products against Modern Wireless Communication Threats

By Tom Mullineaux, MILMEGA LTD.

Thursday, May 26, 2011

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

BAE Systems - Greenlawn, NY

Who Should Attend? People involved in product qualification interested in learning about the emergence of new threats from modern wireless devices.

Abstract: 4th Generation (4G) cell phones are now available on the open market providing the high data-rate exchanges required for video streaming. Faster data rates while maintaining a modest channel bandwidth inevitably means more complex digital modulation techniques. Product standards may stipulate test bands that cover the frequency bands of the threats, however the analog modulated test signal is comparatively benign and does not ensure product RF immunity to these omnipresent signals. The talk will include: Classification of current threats, Prevalence and nature of 2G, 2.5G, 3G and 4G signals, The time / event when the threat is greatest, Complex waveform peak to average ratios, Amplifier power back-off required for test signal integrity, Is the interfering field near-field or far-field?, Simulating the threats in an ALSE or GTEM Cell

About the speaker: Tom is an RF engineer who has led RF design teams in the design and development of high-power microwave amplifiers for use in defense and commercial applications. Tom received his degree in electrical and electronic engineering from Portsmouth University, England in 1989. He has delivered both practical and theoretical presentations to IEEE EMC Society sponsored events including 'Linearization of an RF Amplifier for Immunity Testing' at the 2004 Santa Clara EMC Symposium, and has had many technical articles published, including 'Rating Power Amplifiers for RF Immunity Testing – Evaluation Engineering Magazine , 2003; 'Selecting antenna/power amplifier combinations for the coming new RF immunity standards' Interference Technology Magazine 2004; 'Using radar amplifiers for automotive RF immunity tests' Evaluation Engineering Magazine, 2005.

Registration: 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.

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

Industry News

The Navy League of the United States has awarded the Fleet Admiral Chester W. Nimitz to Joseph J. Battaglia, President and CEO of Telephonics Corporation

Telephonics Corporation announced today that its President and CEO, Mr. Joseph J. Battaglia, received the prestigious Fleet Admiral Chester W. Nimitz Award during the Sea-Air-Space Black Tie Gala on April 12, 2011. This award is presented to an individual or organization that has made an exemplary contribution to the enhancement of U.S. maritime strength and in turn, to the national security of the United States. As President and CEO of Telephonics Corporation since 1995, Mr. Battaglia has seen his company become a leading supplier to U.S. and international military markets. He was a champion in the development of the MH-60R Seahawk Multi-Mode Radar, which fundamentally changed the way the U.S. Navy conducts antisubmarine warfare with Carrier Strike Groups.

Mr. Battaglia is helping forge the future with development of the game-changing Advanced Radar Periscope Detection and Discrimination capability for the Navy. Telephonics also provides critical avionics for the F/A-18, P-3, P-8, MH-60S, and precision landing systems for aircraft carriers and large-deck amphibious assault ships.

In his 40-plus year career, Mr. Battaglia has held a variety of positions, including vice president and general manager of Lockheed Martin's Defense Systems Division and vice president of Business Development for Litton's Laser Systems Division. He is a graduate of Adelphi University with a Bachelor and Master of Science degrees in Electrical Engineering and Applied Physics, respectively.

Telephonics Corporation is honored and proud to have Joe Battaglia as their leader and we thank Joe for his dedication, outstanding leadership and vision that makes Telephonics what it is today.

IEEE USA

IEEE-USA News

April *Today's Engineer*: Focus on Entrepreneurship

The April issue looks at whether now is the right time for engineers to become entrepreneurs, including articles on legislative developments affecting small businesses and innovators, and profiles of successful entrepreneurs. Read these articles and more in this month's issue of *Today's Engineer*.

2011 IEEE-USA Annual Meeting Keynote & Speaker Video Now Available

If you couldn't join us in Austin, Texas, for the 2011 IEEE-USA Annual Meeting, you can visit our Video page for videos of the keynote addresses as well as select presentations. You can also visit our Annual Meeting Blog for additional recaps.

Check Out the New IEEE-USA Employment & Career Strategies Forum

IEEE-USA's Employment & Career Strategies Forum has migrated to a new platform, making it easier for members to share ideas and discuss effective career and employment strategies. Register now to join discussion groups, share resources and post job leads. Find articles and tutorials on resume writing, networking, interviewing skills, information on setting consulting fees, among other topics.

Follow IEEE-USA on Social Networking Sites

IEEE-USA has established a presence on Twitter,LinkedIn and Facebook to help U.S. IEEE members follow the organization's activities and keep them apprised of the latest news and events that are affecting their careers and the profession.

Career Resources For IEEE Members

Unemployed or concerned about your future? Check out the following resources to help you with your career and employment: IEEE-USA Career Navigator,IEEE Job Site, Employment and Career Strategies Forum and the IEEE career page. For further information contact Ed Kirchner, Chair Employment and Career Services Committee or Scott Grayson.

Key to YOUR Benefits

IEEE

Discover the Benefits of Membership

A monthly column by Nikolaos Golas, Membership Development Chairman

Benefit Resources for Members

1. IEEE WOMEN IN ENGINEERING

IEEE Women in Engineering (WIE) is the largest international professional organization dedicated to promoting women engineers and scientists. The mission of IEEE WIE is to inspire, engage, encourage and empower IEEE women worldwide. IEEE WIE envisions a vibrant community of IEEE women and men innovating the world of tomorrow.

http://www.ieee.org/membership_services/membership/women/

2. IEEE-USA INNOVATION INSTITUTE

IEEE-USA has defined innovation as a strategic priority and believes the ability to innovate is an increasingly critical skill set for U.S. engineers in order to maintain rewarding careers, as well as for the nation to sustain its competitiveness in the global economy. In response to the globalization challenges facing the technology sector, IEEE-USA established this Innovation Institute, which is a key focus of our efforts to help IEEE members adapt to the changing world of engineering.

http://www.ieeeusa.org/careers/innovation/

3. P.E. EXAM SAMPLE BOOKS

The Principles and Practice of Engineering (PE) exam for electrical and computer engineers assumed a new structure in the spring of 2009 with three 80-question exams: power, computer, and electrical and electronics. The organization that prepares the exam, the National Council of Examiners for Engineering and Surveying (NCEES), has developed a sample book for each exam. Each book contains the exam specifications and 80 practice questions and solutions. For some questions, alternative solutions are also given.

Visit the site to purchase the books at:

http://www.ncees.org//Exams/Study_Materials.php?exam=PE

4. SPECTRUM'S TECH INSIDER WEBINAR SERIES

If you are an engineer or technology professional, check out the IEEE Spectrum Online new series of Webinars for people who need to know what's REALLY happening in today's hottest technology fields. Leading industry experts will explore important technology developments and trends and get into the technical nitty-gritty. A live Q&A following each Webinar will give you the opportunity to address specific questions you might have.

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Industry News

Northrop Grumman Begins Testing of New Multi-Function Active Sensor Developed for Broad Area Maritime Surveillance (BAMS) Applications

Northrop Grumman Corporation has announced the start of system tests of a new Multi-Function Active Sensor (MFAS) being developed here for use by the U.S. Navy onboard the MQ-4C Broad Area Maritime Surveillance Unmanned Aircraft System (BAMS UAS).

The MFAS is a 360-degree field-of-regard active electronically scanned array radar designed for maritime surveillance. The X-Band two-dimensional sensor features a combination of electronic scanning and a mechanical rotation, allowing the radar to spotlight a geographic area of interest for longer periods to increase detection capabilities of smaller targets, particularly in sea clutter.

"BAMS will provide the Navy with a very capable persistent maritime intelligence, surveillance and reconnaissance system to provide a capability to detect, track, classify, and identify maritime and littoral targets," said Capt. Bob Dishman, the Navy's BAMS UAS program manager.

"With our successful Critical Design Review behind us and sensor testing underway, our customer-industry team is rapidly pulling the components together that will result in first MQ-4C flight next year," said Steve Enewold, Northrop Grumman vice president for the BAMS program.

The MFAS tests are being conducted in a laboratory environment at Northrop Grumman and are expected to continue over the next several months in parallel with ongoing radar software mode development and hardware synchronization and integration activities.

The first MFAS sensor is scheduled for delivery to Northrop Grumman's Aerospace Systems sector facility in San Diego, Calif., in June with a second sensor slated for delivery in September. Risk reduction flight tests of the MFAS are planned for later this year onboard the company's Gulfstream II test-bed aircraft.

"This is a very significant first step toward providing the U.S. Navy warfighter with a new and powerful ISR capability," said Paul "Buz" Kalafos, vice president of Surveillance Systems at Northrop Grumman's Electronic Systems sector.

The Northrop Grumman MQ-4C BAMS UAS is a versatile maritime intelligence, surveillance and reconnaissance aircraft system that will perform maritime missions independently or in direct collaboration with fleet assets. BAMS UAS will play a key role in providing fleet commanders with a persistent, reliable picture of maritime surface contacts, covering vast areas of open ocean and littoral regions in a highly efficient manner.

The BAMS UAS program is managed by the Navy's Program Executive Office, Unmanned Aviation and Strike Weapons' Persistent Maritime Unmanned Aircraft Systems Program Office (PMA-262), located at Naval Air Station Patuxent River, Md.

The BAMS UAS is the latest addition to a growing family of unmanned systems developed by Northrop Grumman. The BAMS UAS system builds on the company's more than 60 years experience with unmanned aircraft and autonomous flight control, including thousands of flight hours by the combat-proven RQ-4 Global Hawk, the MQ-8B Fire Scout vertical takeoff and landing tactical unmanned aerial system (VTUAV)—the first completely autonomous VTUAV aircraft to land aboard a Navy vessel underway—and the X-47B Unmanned Combat Air System—the first unmanned air vehicle scheduled to perform carrier landings.

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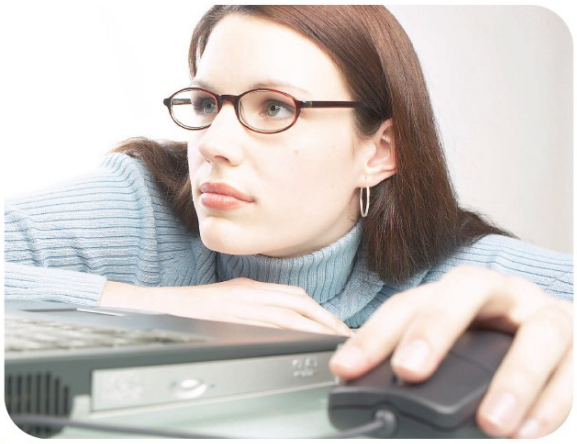

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Learn about the future of innovation and network with the brightest engineering minds and colleagues from academia, business and government.

WHY ATTEND?

IEEE Innovation Day will help you create value by implementing new ideas, which can have profound, long-term effects on your career. The day will feature sessions on innovation in business and technology, innovation for globalization and a panel/workshop on innovation in professional advancement.

WHO SHOULD ATTEND?

Students, researchers, faculty, and business professionals engaged in the disciplines of engineering, information technology, science, and management will greatly benefit.

PROGRAM

Continental Breakfast and Opening
Welcome Message from Jerry Hultin, President of NYU-Poly
Followed by Keynote Speaker TBA

Innovation in Technology and Business
Inspiration from World Leaders
Lunch Talk: "Becoming an Innovation Sherpa"™

Innovation for Globalization
Global Health, Solar Lantern, Rural Wireless
Break: Networking / Tour of NYU-Poly Game Innovation Lab

Innovation in Professional Advancement & Enrichment
Real World Experiences & Stress Management

Closing Reception: Student Projects and Demonstrations

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IEEE Innovation Day Schedule

Tuesday, May 17, 2011 8:00AM - 5:00PM
Polytechnic Institute of New York University - Pfizer Auditorium - Brooklyn, NY

Time	Program-at-a-Glance
8:00–9:00	**Breakfast, Meet and Greet (Lobby, Pfizer Auditorium)**
9:00–11:00	**Plenary and Keynote Session (Pfizer Auditorium)** **Chair: Durga Misra**
9:00	**Welcome:** Durga Misran
9:03	**Introduction of President Jerry Hultin:** Charles Rubenstein
9:05	**Welcome Address:** President Jerry Hultin, Polytechnic
9:15	**Plenary Presentation:** William Brinkman, Director, Office of Science, US Department of Energy
10:00	**Keynote Address:** Alice White, Vice President, Bell Labs North America (Alcatel-Lucent)
10:45 - 11:00	**Coffee Break (Lobby, Pfizer Auditorium)**
11:00 - 12:20	**Innovation on Technology and Industry Session (Pfizer Auditorium)** **Chair: Ashutosh Dutta**
11:00	**Healthcare Innovation: Beyond the Smoke and Mirrors**, Brett E Trusko, Mount Sinai School of Medicine, New York
11:30	Timothy P. Cross, Director, Strategic Initiative, Center for Technology, Innovation and Community Engagement
11:50	**XaaS: The Next Frontier of Innovation in Communications,** Bhumip Khasnabish, IEEE ComSoc Distinguished Lecturer
12:20 – 1:10	**Lunch and Lunch-Time Talk: *How to Become an Innovation Sherpa***, Joe Nadan, NYU-Poly
1:10 – 2:40	**Innovation for Globalization Session (Pfizer Auditorium) Chair: T.K. Srinivas**
1:10	**Engineering for the Middle of Nowhere**, Toby Cumberbatch, Cooper Union, New York
1:40	Samuel Sia, Columbia University, NY
2:10	Parag Pruthi, CEO & Founder of NIKSUN Inc., NJ
2:40 – 3:00	**Coffee Break & Student Projects and Demonstrations (Innovation Lab & Lobby)**
3:00 – 5:30	**Innovation for Professional Advancement and Enrichment Session & PANEL (Pfizer Auditorium)** **Co-Chairs: Naresh Chand and Judith Sheft**
3:00	**Harmonizing Successful Career with Personal Fulfillment,** Sundar Ramaswamy, NJ
3:30	**Career Hints, Tips, and Traps - Coaching and Simple Strategies to Help You Succeed,** Zane Zumbahlen, IBM Corporation, NY
3:50	Gregory Mass, NJIT, NJ
4:10	Mario Casabona, Angel Investor, Founder & CEO, Electro-Radiation Inc, NJ
4:30	**Innovation and Continuing Education, Inseparable Allies,** Eric Tappert, IEEE EAB & Chair, Continuing Prof. Ed Committee
5:30	**Reception & Student Projects and Demonstrations**

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The PULSE encourages letters to the editor. Members of the IEEE Long Island Section are encouraged to write in about PULSE articles or about other topics of interest to Long Island Engineers. While the IEEE Long Island Section greatly appreciates feedback, we cannot guarantee that all letters will be answered or published. Please direct comments to pulse@ieee.li or to a Section officer.

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