



Chairperson's Message by Santo Mazzola, chairman@IEEE.LI

I have some good news to report this month. The IEEE Tellers Committee reported the tally of votes in the 2009 IEEE annual election on 7 October 2009. The results are unofficial until the IEEE Board of Directors accepts the Report of the IEEE Tellers Committee at its meeting on 22-23 November 2009. But I am happy to report that a Long Island Section member, **Peter Alan Eckstein**, is leading for the office of IEEE Region Delegate-Elect/Director-Elect, 2010-2011, Region 1 (Northeastern USA). I would like to congratulate Peter and wish him well as Region 1 Director Elect. This is the second straight Region 1 Director who had Long Island blood in them. Sounds like the beginning of a dynasty to me.

This month I would like to direct your attention to our calendar of IEEE events (upcoming meetings). The topics of the meetings this month, like every month are very impressive. **"Making VOIP and WiFi Play Nice Together," "Neuroimaging and Neuropsychomaging," "Power Management and Embedded Processing Solutions," "EMC and The Rail Transit Industry" "Regain Control over Your Financial Life"** and the **"NI Technical Conference"** are just a few of the varied presentations and conferences being sponsored by the Long Island Section this November. Consider attending any of the varied seminars being offered and you will be glad that you did. The Long Island Section continues to provide great technical programs and professional development activities and seminars for our members. Please take advantage of these offerings.

I would like to announce, congratulate, and thank the following IEEE members for accepting the following volunteer positions:

- **Ralph Ressa** – Aerospace and Electronics Systems Society Vice Chairman
- **Ahmad Haque** – IEEE USA Liaison
- **Anthony Yackovich** – Public Relations Chairman
- **Allison Rubin** – Associate Pulse Editor
- **Terry Stratoudakis** – Engineers Joint Committee of Long Island (EJCLI) Chairman

More volunteer open positions are available. Check our website at: www.IEEE.LI/open_positions.htm

Please note that the Call For Papers for the **Sixth Annual IEEE Long Island Systems, Applications, and Technology (LISAT 2010)** conference is being circulated and more information is contained inside this edition of the Pulse. Please consider doing a paper it will be good for the Long Island Section but it will be better for you.

2010 is fast approaching we are going to have our yearly vote for the **2010 Executive Section Officers**. Starting in the September Pulse of Long Island we presented the candidates for the Long Island Section Officers 2010. The official ballot appears in both the October and November Pulse of Long Island. Voting continues the deadline for voting is December 1, 2009. I encourage you all to vote (or write in an alternate candidate of your choice). Good luck to our slate of candidates for 2010.

I leave you with a quote by Thomas Alva Edison "We don't know a millionth of one percent about anything." I will interpret that as we need to continually keep learning.

Be Well,

Santo (Sandy) Mazzola, Chair IEEE Long Island Section
chairman@IEEE.LI

CALENDAR OF IEEE EVENTS

NOVEMBER 2009

- 3** **PACE, EAC and GOLD Society Meeting**
 Topic: *Regain Control over Your Financial Life*
 Speaker: **Matthew Mandell, Brian White**
 Location: Telephonics, Farmingdale, LI
 Dinner 6:00 PM, Lecture 6:30 PM
- 4** **Long Island Consultants Network Meeting**
 Topic: *TBA* Speaker: *TBA*
 Location: The Great Room, Briarcliffe College, Bethpage, LI Time: 7:00 PM
- 5** **Communications Society Meeting**
 Topic: *Making VoIP and Wi-Fi Play Nice Together*
 Speaker: **Henning Schulzrinne**
 Location: BAE Systems, Greenlawn, LI
 Refreshments 6:00 PM, Lecture 6:30 PM
- 10** **Instrumentation and Measurement Society Meeting**
 Topic: *NI Technical Conference, 2 Tracks, 12 Presentations*
 Location: Sheraton Four Points, Plainview, LI
 Time: 8:00 AM to 5:00 PM
- 10** **Power & Energy Society Meeting**
 Topic: *Power Management and Embedded Processing Solutions*
 Speaker: **Mark Denissen**
 Location: NYIT, Old Westbury, LI
 Refreshments 6:00 PM, Lecture 6:30 PM
- 12** **Engineering in Medicine & Biology Meeting**
 Topic: *Power Neuroimaging and Neuropsychomaging*
 Speaker: **Rita Goldstein**
 Location: NYU-Poly, Melville, LI
 Refreshments 6:00 PM, Lecture 6:30 PM
- 18** **EMC Society Meeting**
 Topic: *EMC & The Rail Transit Industry*
 Speaker: **Walter A. Poggi**
 Location: Retlif, Ronkonkoma, LI
 Dinner 6:00 PM, Lecture 6:30 PM
- 30** **ExCom Meeting**
 Location: Telephonics, Farmingdale, LI
 Dinner 5:45 PM, Meeting 6:15 PM

DECEMBER 2009

- 1** **PACE, EAC and GOLD Society Meeting**
 Topic: *Define Your Retirement Goals & Plan to Reach Them in Today's Changing Market*
 Speaker: **Matthew Mandell, Brian White**
 Location: Telephonics, Farmingdale, LI
 Dinner 6:00 PM, Lecture 6:30 PM

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THE PULSE OF LONG ISLAND

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LET US HEAR FROM YOU

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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So What Is This IEEE Thing That You Belong To? Part 1

by Howard E. Michel, Ph.D. Director, IEEE Region 1



I don't get asked that question very often. Almost everyone that I know knows what the IEEE is. Take for example, my wife. "The IEEE is that place in New Jersey where I've been sending money every fall since 1976."

I teach in the Electrical and Computer Engineering Department at the University of Massachusetts Dartmouth. We all recognize that the IEEE is a set of academic publications that we must publish in if we hope to receive tenure and be promoted. I imagine that all of your coworkers know what the IEEE is too. A typical response might be "It was that organization that I belonged to in college. I think they had a magazine called Spectrum. Are they still around?" Or possibly, a few of your coworkers still belong to the IEEE. They might respond more positively, "They have great rates on group life insurance." I actually did get asked "What is this IEEE thing that you belong to?" by my mother. I proudly responded "It is my professional society." After a brief pause, she responded "Uh-huh." I figured I better come up with a better answer.

For those of us in the know, the IEEE is the world's largest technical professional society. We like the way that phrase smoothly rolls out of our mouths and into any conversation (well, almost any conversation.) The IEEE has approximately 370,000 members, in 160 countries. We have members on six continents, and I am willing to bet that we occasionally have members on the seventh, Antarctica, and in outer space and under the oceans. We have 319 sections and 1,676 local chapters, but I am getting ahead of myself. We are a member driven organization. At a recent IEEE Board of Directors meeting, I heard the former IEEE President, Lea Jamieson, proudly state that fact and claim it as a core value of the Institute. We are a member driven organization. But along with that right of membership comes a duty. If we the members drive the organization, we need to get involved. It can be as simple as being an informed member, or voting in local, regional and international elections, or participating in any of the activities that the IEEE and its members organize or associate with, or volunteering to lead those activities.

So how can you get involved? Perhaps a primer on the IEEE, **IEEE-101** if you like, is on order.

IEEE members fall into one of five grades: **Student, Graduate Student, Member, Senior Member** and **Fellow**. We also have **Associate Members** and **Affiliate Members**. Most of you probably fall into the Member category. Did you know that you are eligible to apply for the grade of **Senior Member** if you have ten years of professional experience with five years of significant performance? Your education can count as three to five years of experience depending on your degree. If you are interested in applying for elevation to **Senior Member** and receiving recognition from your peers for your technical and professional excellence, feel free to contact me and I can assist you in starting that process.

Organizationally, the IEEE is composed of six major Operating Units: **Educational Activities, Standards, IEEE-USA, Publication Services and Products, Technical Activities, and Member and Geographic Activities** (formerly Regional Activities.) Information on all of these activities is available on the IEEE website:

www.ieee.org.

Worldwide, the IEEE has 319 sections. Every member belongs to a section. Since you are reading this, I can assume that you belong to one of five sections: Boston, Maine, New Hampshire, Providence or Worcester County. Those section names are somewhat misleading however, because for example, my home section, the Providence Section, covers all of Rhode Island and the south-east portion of Massachusetts, including Cape Cod. As a member, you can participate in any of the Section's activities, including chairing one of its many committees or running for office. If you are not sure which section you belong to and would like to get involved in your local Section's activities, send me an email and I'll put you in contact with the Section Chair.

The IEEE organizes its **319 Sections** into **10 Regions**. **Region 1** is composed of **22 Sections** in the states of **New Jersey, New York, Connecticut, Rhode Island, Massachusetts, Vermont, New Hampshire, and Maine**. The IEEE has about 35,000 members in Region 1. I am the Director for Region 1, and I am always looking for members who want to volunteer. If you are looking to help drive the IEEE at the Region level, send me an email.

The change, from **Regional Activities** to **Member and Geographic Activities (MGA)**, took effect on January 1, 2008, and represents a two year effort to redefine the way IEEE deals with its members. The **MGA** vision is more than just membership grade or what section you belong to. We want to create a 360 degree view of each member, individually.

Specifically, where are you in your professional career, what technical interests do you have, what emerging technologies might be appropriate for your continuing education, etcetera. We want to create an IEEE that gives you significant value for your membership dues. We want the IEEE to be your professional society of choice; one that allows you to answer the question, "**What is that IEEE thing that you belong to?**"

I appreciate you taking time to read my thoughts, and I look forward to hearing from you on any matters that pertain to your professional society, the IEEE.

Please email me at:

h.michel@ieee.org

WIN \$5,000 IN SCHOLARSHIP PRIZES!

Show "How Engineers Make a World of Difference"

Enter IEEE-USA's Online Video Competition for Undergraduates!

IEEE-USA will present four scholarship awards totaling \$5,000 to U.S. undergraduates who create the most effective 90-second video clips reinforcing for an 11-to-13-year-old audience how engineers improve the world. Entries in the 2009-10 competition should provide an individual profile of an engineer or technologist and how s/he makes "a world of difference."

First prize is: \$2,000; second, \$1,500; and third, \$1,000. The first-place winner will also receive up to \$1,000 to cover travel expenses to accept his/her award at the IEEE-USA Annual Meeting in Nashville, Tenn., on 6 March 2010. Further, a special award of \$500 will be given for the most innovative and effective presentation of a video entry to the "tweener" target audience.

Winning entries will be announced and shown during Engineers Week, 14-20 February 2010.

For more information, visit: www.ieeeusa.org/communications/video_competition; or e-mail p.mccarter@ieee.org.



BECOME A PAID INTERN NEXT SUMMER AT A MASS MEDIA NEWS OUTLET!

Report on Today's Sci-Tech News

Become an IEEE-USA Engineering Mass Media Fellow!

IEEE-USA is seeking applications from U.S. IEEE undergraduate and graduate student members to work full-time in the summer as reporters, researchers and production assistants in mass media organizations nationwide—including radio and TV stations, newspapers and magazines—both print and electronic.

In addition to receiving a weekly stipend and travel expenses, IEEE-USA Engineering Mass Media Fellows gain valuable work experience and sharpen their communication skills as they research, write and report on today's sci-tech news for the general public. Fellows have interned at such media outlets as *The Los Angeles Times*, National Public Radio and *Scientific American*.

IEEE-USA is the only engineering organization in the Mass Media Fellows program, which is administered by the American Association for the Advancement of Science (AAAS).

To download an application, go to www.aaas.org/programs/education/MassMedia/apply.shtml.

For more information on IEEE-USA participation, visit www.ieeeusa.org/communications/massmedia.asp; or e-mail p.mccarter@ieee.org.



Deadline for applications: Friday, 15 January 2010



IEEE Life Members, A Natural Resource

by Lou Luceri, LSMIEEE, Organizer Life Member Affinity Group



Wanted: Life Members – Older engineers who have lived under different circumstances, having different experiences which have influenced their individual attitudes and aspirations a local resource that is willing to volunteer, and one that needs to be exploited by local regions, sections and societies.

Inquire – The Long Island Section Life Members (LM) Affinity Group for details

The idea of volunteering is a means for older engineers to remain involved in society after retirement from formal employment. It is a means of engaging the mind, staying active and staying independent. All older engineers have the innate desire to be continually active as possible, for as long as possible. It's also a win-win situation, both for the engineer and the profession.

World wide, Life Members are a team of 28,000 strong in 54 Affinity Groups which can help play a pivotal role both within and outside of our organization. They have backgrounds in science and technology, economics, various disciplines of electrical engineering, computer science, social science, communications, strategic planning, information technology, business, marketing, and administration.

What is a Life Member?

The designation "Life Member" is applicable only to a member who has attained the age of 65 years and who has been a member of IEEE for such a period that the sum of his/her age and his/her years of membership equals or exceeds 100 years. The designation of Life Member shall be effective on 1 January of the year immediately succeeding the year in which the requirement for the Life Member category has been satisfied.

Do I have to apply for membership?

No, this is an automatic process based on age plus years of membership. Members who qualify each year will be notified by mail in the fourth quarter of the qualifying year. "Life" status will be effective on 1 January of the following year.

OK, so I am a Life Member. How do I take part in Section Activities?

Life member are a great local area resource and they can participate in the following type of activities:

- Judging Science Fair competition
- After school homework programs in Math and Science
- Manning booths at local IEEE Technical Conferences
- Handling registration, sign-in tables, badging, etc.
- Source of speakers on various topics of technology
- Teaching other senior citizens about new technologies (computers, internet, email, etc.)
- Merit Badge counselors for the Boy Scout program
- Write articles on case studies experienced
- Pass on lessons learned and the critical thinking required to deal with demands of business based on technological advances
- Seminars on real life issues that today's engineers will encounter in their daily work
- Bring real-world experiences to all engineers and future managers from entry level to those in position of responsibility for an organization's future

Life Members can be very helpful at the Section level in not only providing advice and assistance with the operation of the Section, but also pursue projects, such as history, Milestones, Historic Landmarks, etc. They can also play a crucial role, often filling the gaps in relation to personal assistance, mentoring, community relations and leadership.

Recent stats show that Region 1 boasts of having over 5400 Life Members, which is second only to Region 6 with 6600. Region 1 presently has five Affinity Groups, and we're adding Long Island to the list this year! Worldwide, there are over 28,000 Life Members!

The Life Member is a resource that is able, willing and ready for exploitation used wisely and it will provide benefits for years to come!

For further information please contact Lou Luceri at: L.A.Luceri@ieee.org



LEGAL AFFAIRS

by Steve Rubin, Legal Affairs Chairman

Bilski Update: All of the briefs have been filed. Oral argument before the Supreme Court is scheduled for November 9, 2009. A decision would then come out in a few months. I will keep you apprised.

The vastly unpopular continuation rules proposed by the Patent Office have now been withdrawn. The new Director of the Patent and Trademark Office, David Kappos, appears to have heard the pleas of the Patent community and decided to withdraw the rules. He is said to have opposed the rules before he took on his current position as Director. The rules, as you may recall, severely limited the number of claims (definitions of the invention) and applications that could be filed for an invention. It also had the potential to limit the value of each filed patent application.

Kappos is also talking about revamping the count system. Patent Examiners are currently rewarded based on how quickly they "dispose" of a case. The Examiner ends up getting an incentive to reject an application a few times regardless of its worth or patentability. Kappos is looking to help fix that by giving Examiners more time to review applications. He is also looking into allowing more credit for interviews with Examiners about applications.

Kappos also indicated he would like to cut down on the pendency of filed applications. Those of you who deal with software, for example, know that it can take years after an application is filed to even hear from the Patent Office. Kappos has suggested the following goals: 10 months to a first Office Action (from 26 months); 20 months to a Final Office Action (from 32 months); and reducing the application backlog from 1.2 million applications to 300,000 applications.

Steve Rubin rubin@dilworthbarrese.com

IEEE Job Site

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LECTURES & SEMINARS

Long Island Section Professional Activities Committee (PACE), Employment Assistance Committee and Graduates of the Last Decade (GOLD), are presenting:

“Regain Control Over Your Financial Life”

Tuesday, November 3, 2009 at 6:30 PM

Refreshments will be served at 6:00PM. This seminar is free & all are invited.

Speakers: **Matthew Mandell**, CRPC Advanced Financial Advisor for Ameriprise Financial and **Brian White**, Advanced Financial Advisor for Ameriprise Financial

Abstract: Today, everyone seems to be talking about the economy. This seminar will turn the conversation around and talk about what's really important in your own personal financial situation. **Understand Today, Own Your Tomorrow: A New Perspective on Your Finances.** During this seminar, you'll learn ways to invest your savings safely and securely, get back on track toward reaching your retirement goals, and uncover gaps in your financial plan.

Speaker Bios: **Matthew Mandell** received his BS in Finance from the Pennsylvania State University. He is a

fully certified financial advisor, qualifies as an Advanced Financial Advisor, earned his CRPC (Chartered Retirement Planning Counselor) designation, achieved Circle of Success, and qualified as a member of the Million Dollar Round Table. He works with clients to develop a custom tailored financial plan pertaining to their life goals and specializes in effective retirement planning, personalized investment advice, education funding, and protection planning. **Brian White** has over five years experience in the financial services industry. Over his career as a Financial Advisor, Brian has achieved notable accomplishments that rank him among the top of his peers such as The Mercury Award, Top Achiever Award and The Circle of Success. Brian is a fully certified financial advisor, a

member of the Advanced Advisor Group and has earned the Chartered Retirement Planning Counselor designation. His mission is to help his clients reach their financial goals through a personal relationship based on personalized, knowledgeable advice. Brian graduated Cum Laude from Adelphi University where he earned his Bachelor Degree in Business Finance.

Location: Telephonics Corporation, 815 Broad Hollow Road, Farmingdale.

Registration: Required. Register by visiting the Calendar page of the IEEE Long Island Section webpage at:

<http://www.ieee.li/calendar/>

INDUSTRY NEWS

BAE Systems to Provide Identification-Friend-or-Foe Systems to U.S. Navy and Army

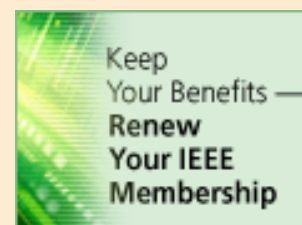
BAE Systems will provide identification-friend-or-foe (IFF) digital transponders, upgrade kits, and spares to the U.S. Navy and Army under a \$20 million contract. The IFF systems increase situational awareness and help to positively establish the identity of friendly forces, reducing the risk of fratricide, or “friendly fire.”

BAE Systems’ IFF technology identifies aircraft and ships as friendly forces through transponders that are installed on submarines, surface ships, fixed-wing aircraft, and helicopters. The transponders work by responding to interrogations from ground-based or airborne IFF interrogator systems.

“Through use of open-system architecture and field-programmable gate arrays, the transponders are designed to be serviced and upgraded solely through software modifications, reducing risks and costs associated with hardware modifications,” said Sal Costa, director of identification solutions for BAE Systems.

Under the Naval Air Systems Command contract modification, BAE Systems will deliver 46 AN/APX-118 common digital transponders and 381 AN/APX-123 transponders to the Army and Navy, along with 400 modification kits and spares.

Work will be performed in Greenlawn, New York, and is expected to be completed in December 2011. BAE Systems has delivered more than 4,500 common transponders to the Navy and Army since 1999.



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

LECTURES & SEMINARS

The Long Island Chapter of the IEEE Communications Society is presenting a seminar titled:

Making VoIP and Wi-Fi Play Nice Together

Thursday, November 5, 2009 at 6:30 PM

Refreshments will be served at 6:00PM. This seminar is free & all are invited. Q&A will follow lecture

This Seminar has been APPROVED for 0.2 CEUs

Speaker: Distinguished Lecturer, Professor Henning Schulzrinne, Professor of Computer Science and the Department Chair at Columbia University.

Abstract: This lecture aims to provide a summary of recent work in solving the many problems that make enterprise deployment of VoIP over Wi-Fi (IEEE 802.11) challenging. It will address issues from the link layer to the application layer and describe how to accelerate layer-2 discovery by caching access point and channel information. This lecture will also briefly discuss the promise of 802.21 and research efforts in network discovery and

provide a detailed technical summary of the issues involved in pushing 802.11 beyond its original design limits.

Speaker Bio: Professor Henning Schulzrinne is a Professor of Computer Science and the Department Chair at Columbia University. He received his PhD from the University of Massachusetts and is a member of the technical staff at AT&T Bell Laboratories, Murray Hill and an associate department head at GMD-Fokus (Berlin). Mr. Schulzrinne has co-developed various protocols, including RTP, RTSP and SIP, which are now internet standards, used by almost all internet telephony and

multimedia applications. His research interests include internet multimedia systems, ubiquitous computing, mobile systems, quality of service, and performance evaluation. He is a Fellow of the IEEE.

Seminar Coordinator: Dave Bomzer, IEEE Communications Society LI Chapter Chair; tdbomzer@daypitney.com

Location: BAE Systems, 450 Pulaski Road, Greenlawn, NY.

Registration: Is required along with U.S. citizenship to enter facility

Register by visiting the Calendar page of the IEEE Long Island Section webpage at:

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

INDUSTRY NEWS

Telephonics Corporation begins construction of their Technical Support Services Center in Elizabeth City

Telephonics Corporation announced that they have contracted with Revelle Builders of Murfreesboro, North Carolina to construct its Technical Support Services Center located on the Elizabeth City-Pasquotank County Airport and adjacent to the U.S. Coast Guard base.

Scheduled to open in 2010, the Technical Support Services Center is a 22,000 square-foot, two-story facility that will contain hangar space and a turnkey radar maintenance repair and upgrade center. The Center will also have state-of-the art computers and displays to simulate the radar operator's environment.

"Telephonics is totally committed to the U.S. Coast Guard mission success," said Joseph Battaglia, president of Telephonics Corporation. "Our commitment to a long-term lease and a multi-million dollar facility will shorten our supply chain and improve our overall responsiveness and interface with the Coast Guard's Air Logistics Center."

FedEx Shipping Benefit for IEEE Members

FedEx IEEE members can now save up to 26% on select FedEx® shipping services. There are no costs and no minimum shipping requirements to take advantage of this great member benefit. For more information or to enroll in this program, call 800-MEMBERS (800 636 2377), 8 AM - 6 PM EST, M-F). As a bonus for participants in the program the discounts now include an additional 5% discount for eligible shipments which are processed on fedex.com or with another approved FedEx® electronic shipping solution.

- Up to 26% off select FedEx Express® U.S. shipping
- Up to 20% off select FedEx Express international
- Up to 12% off select FedEx Ground® shipping

SAVE THE DATE!!!

LISAT2010

Friday, May 7, 2010

Long Island Systems,
Applications & Technology Conference
Farmingdale State University

Sponsored by the
IEEE Long Island Section
Farmingdale State University
Institute for
Research & Technology Transfer



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Opening Soon ...The Applied Science Center of Innovation and Excellence for Homeland Security

by Ray Donnelly, Deputy Executive Director, Long Island Forum for Technology (LIFT)



Originally conceived in the aftermath of the attacks on 9-11 as an idea for regional cooperation by area firms the mission of the Applied Science Center of Innovation and Excellence in Homeland Security has emerged as a one of a kind facility which combines industry, academia and government in a unique collaboration.

The Center's focus will be to accelerate the transfer of science and technology to the ideas and operational needs of government, nongovernment, and private organizations that face the challenges that they have identified in meeting the threats and challenges of homeland security and defense in the 21st Century. It will be a Nationally Recognized Center of Excellence for applied science, focused on this convergence of the critical enabling technologies in the Homeland Security market and will have its day-to-day operations led by the State's Regional Technology Development Center (LIFT).

This Center is industry lead and will function as both a central node of the innovation network and as a virtual location for linking research development done at the State's research institutions with users, other enabling organizations / institutions and the real world environment for validation testing.

The 90,000 sq. ft. Center will house facilities for 20 participating organizations, a decision support and modeling and simulation visualization lab, a satellite network capable of providing connectivity to worldwide assets and VSAT communication and other forms of low bandwidth and high bandwidth data transfer capability.

In addition it will house a secured facility, an auditorium, an integration area where center participants will focus their research and development on elements central to the center's mission and a rapid prototyping center.

The Center capabilities are further enhanced through the collaboration with many regional academic institutions as well as Brookhaven National Laboratories. The facility is located in Bethpage, NY making it convenient to both Washington D.C. and New York City, and is set to open and be fully operational by January 2010.



Construction Progress Continues at the Bethpage Facility

In short, when dedicated thinkers push the boundaries of challenge, and when they are committed to the security of our nation, they can help ensure that new mission-critical capabilities are created, knowledge is generated, and needed technologies are deployed to the right places. For additional information check the Advanced Energy Research & Technology Center (AERTC) website at: <http://www.aertc.org/>

LECTURES & SEMINARS

The Long Island Section Power & Energy Society and Industry Applications Joint Societies Chapter is presenting:

"Power Management and Embedded Processing Solutions: A semiconductor manufacturer's approach to the world's energy problems"

Tuesday, November 10, 2009 at 6:30PM

This seminar is free & all are invited. Refreshments will be served at 6:00PM

This lecture will provide 0.2 CEUs or 2 hours of PDH training

Speaker: Mark Denissen, Vice President, Worldwide Strategic Marketing, Texas Instruments

Abstract: This talk will cover Smart Grid efforts and solutions as well as End Equipment Solutions that Texas Instruments is working to provide in Smart Metering using Power Line Communications, Renewable Energy, Green Power using Floating Point Digital Signal Controllers (DSC), LED/Lighting, Energy Harvesting, High Performance and Power Efficient Motor Control Systems, Embedded Processing and Power Management solutions, developments in efficient power inverter design and micro-inverters for solar energy and wind power and efficient low power wireless control of these systems, and Texas Instruments LED Lighting Lab and

Solar Energy Systems Lab drive to provide end equipment solutions for customers in this market.

Speaker Bio: Mr. Denissen manages Worldwide Strategic Marketing for Texas Instruments. He is focused on improving Texas Instruments capabilities to exceed customer expectations at a systems level across the breadth of Texas Instruments product offering. Mr. Denissen holds a BSEE degree from UCLA and has been an employee of Texas Instruments for over 25 years. He has experience in Product Line Management, Technology Licensing & Acquisition, Strategic Investments & Acquisitions and Sales & Marketing and global experiences in building and managing sales and system engineering teams. Mr. Denissen is a member of Texas

Instruments Kilby Labs Advisory Board, Texas Instruments Ventures Board, TECH Fort Worth Board member and InCube Ventures Advisory Board member.

Seminar Coordinator: Steven Rubin, Chair of the Long Island Section Power & Energy Society and Industry Applications Joint Societies. Mr. Rubin can be reached at rubin@dilworthbarrese.com

Location: New York Institute of Technology, Northern Blvd., Old Westbury, NY, Salten Hall Room SC1

Registration: Registration is required. Register by visiting <http://www.IEEE.LI/calendar/>

LECTURES & SEMINARS

The Long Island Chapter of IEEE Engineering in Medicine & Biology Society is presenting:

Neuroimaging and Neuropsychology

Thursday, October 29, 2009 at 6:30PM

This seminar is free & all are invited. Refreshments will be served at 6:00PM

Speaker: Dr. Rita Goldstein, Ph.D., Brookhaven National Laboratory, Upton, New York

Who Should Attend?

Any individual involved with Biomedical Engineering, Medical Imaging, Neuroimaging, Neuropsychology and mental health practices focusing on addiction, neuropsychology and cognitive neuroscience.

Abstract: The lecture will focus on Dr. Goldstein's use of Neuroimaging and Neuropsychology in the study of brain function during behavior, cognition and emotion in order to identify characteristics/signaling and interplay between the cognitive-emotional behavioral and neurobiological changes that accompany addiction. The goal of Dr. Goldstein's study is to understand the biologic and neurological mechanisms underlying addiction.

Dr. Goldstein will present evidence that drug addiction is associated with abnormalities in the brain related to dopaminergic and higher-order cortical dysfunction that contribute to the core clinical symptoms and behavioral problems in drug addiction (including impulsivity and disadvantageous decision-making).

Speaker Bio: Dr. Goldstein began her post-doc career at SUNY Stony Brook and Brookhaven National Laboratory in 1999 and in 2002 became an "Assistant Scientist" at Brookhaven in Medical Research, and an Affiliate in the Department of Psychology at Stony Brook; Dr. Goldstein became a "Scientist" at Brookhaven in 2006. Dr. Goldstein has conducted years of research in brain-behavior mechanisms underlying addiction, including special emphasis on the role of the prefrontal cortex and the mesocortical and mesolimbic dopamine brain circuits.

Dr. Goldstein embraces a multidisciplinary approach to her research, utilizing principles of non-invasive techniques to measure brain function such as functional magnetic resonance imaging (fMRI), positron emission tomography (PET) event related potential (ERP) and neuropsychology.

Seminar Coordinator: John F. Vodopia, Esq., Chair of the IEEE Long Island Chapter of Engineering in Medicine and Biology

Location: NYU-Poly, 105 Maxess Road, Melville, NY.

Registration: Registration is required. To register please visit the calendar page of the IEEE website,

<http://www.IEEE.LI/calendar/>,

Click on the registration link, and fill out the form.

Brain Teaser Challenge Solution

by Butch Shadwell

Harvesting hydrogen from the sea was the subject. "We all know that deuterium is found in much higher concentrations in the sea than in the atmosphere. Perhaps the heavier molecules find it harder to make the transition from liquid to gas phase on the surface, so most of the evaporation is of the lighter isotopes. So the problem today is - how big a container do I need to hold 1 mole of H₂ at STP?"

In this problem, fact that the gas is deuterium is not relevant at STP. The answer is approximately the same for a mole of any gaseous compound. Remember $pV=nRT$, where n is the number of moles of the gas in question and R is a proportionality constant that varies depending on the units selected for the other three variables. For p in atmospheres, V in liters, and T in degrees Kelvin, $R = 0.0821 \text{ L atm/K mol}$. Since p and n equal 1, $V = R * T$ or $V = 0.0821 * 273$, or 22.39 liters. But I bet you already knew that.

Brain Teaser Challenge

by Butch Shadwell

Little Schlomo had nothing on his mind as he rolled the wheel down Pearl Street with his stick. The sound this perfect circle made as it rumbled along, drew his thoughts away from here and now. It was 1889, and for a ten year old in New York, life was lived in the street, and things were hard. Uncle Lenny, who had been living with his family for as long as he could remember, was sure his ship would come in any day now. Even

though he knew it was rubbish, sometimes Schlomo would enjoy listening as his uncle would explain his latest get rich quick scheme.

It was on a Tuesday, as he heard his Uncle Lenny describe his new electric light business. As you know, light bulbs were pretty expensive, about a dollar a piece, and they didn't really last that long.

Lenny's idea was to sell folks lower voltage light bulbs which were a little cheaper and would last a little longer. He planned on buying transformers to reduce the voltage. What turn ratio did he need to run 25 volt bulbs? Hope you remember your electrifying history.

Reply to Butch Shadwell at: b.shadwell@ieee.org

Tel: 904-410-9751 Fax: 904-410-9750

3308 Queen Palm Dr., Jacksonville, FL32250

<http://www.shadtechserv.com>

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gbodner@bodnerorourke.com

Long Island's Early Electronics History

by Jesse Taub

In our Section's commemoration of the IEEE's 125th Anniversary, we have been highlighting Long Island's important contributions to electronics. This month we are discussing some milestones in microwave engineering..

Long Island's Microwave History

Microwave frequencies have traditionally been used for radar and radar countermeasures and high data rate communications. Microwave technology has a long history and many important contributions were made by engineers on Long Island.

Microwave communications in laboratories started shortly after Hertz demonstrated radio wave propagation in 1888. It remained a laboratory curiosity for many years after Marconi showed that longer wavelengths can traverse oceans. The microwave spectrum was rediscovered in the late 1930's because it was found to be optimum for developing radar.

World War II stimulated its development with many innovations from organizations such as the MIT Radiation Lab. In Lake Success, Long Island, Sperry's expertise on Klystron oscillators and radar systems were important contributions. After the war many companies were formed to further develop radar and radar countermeasures. Schools like Brooklyn Polytechnic (now NYU-Poly) helped to give Long Island a strong pool of trained microwave engineers. Poly formed the Microwave Research Institute which developed a national reputation.

While early microwave engineering was based on the use of expensive waveguide components, the era of printed microwave circuits was ushered in during the mid 50's. Airborne Instruments Laboratory in Mineola (now part of ITT) was a pioneer in this technology. The early 50's also fostered microwave antenna and array developments by Long Island companies such as Wheeler Labs, Jasik Labs and Dorne and Margolin.

The 1960's were noteworthy for improvements in microwave receiver sensitivity due to developments in Masers and parameter amplifiers. Long Island was one of the leaders in these fields. The 1970's were noted for the availability of gallium arsenide field effect transistors (FETS) with good microwave performance. This development paved the way for practical microwave monolithic integrated circuits (MMIC's). It was now possible to conceive of complete RF subsystems comprised of only several low cost MMIC chips. Recent developments with silicon CMOS chips promises even more cost savings.

The design cycle for MMIC's and their housings was greatly accelerated by developments in computer aided design software in the 80's and 90's. It now became possible to solve Maxwell's equations for complex structures. Many Long Island companies are currently supplying hardware use these tools. MMIC technology, having dramatically reduced the cost of microwave hardware, has in turn, led to many mass production applications. Millions of satellite dish TV converters use a sensitive 12GHz receiver chip, costing only a few dollars. Cell and cordless telephones continue to operate at higher microwave frequencies. Many local companies are involved with microwave communication systems and technology.

Microwave engineering is alive and well on Long Island. Our Section's Microwave Theory and Techniques Society Chapter, chaired by James Colotti and Eric Darwin, has several meetings per year that are well attended. Microwave technology and engineering has a long association with Long Island and is expected to remain so for many years to come.

November

IEEE Calendar and Historical Events

6: 1923: Jacob Schick receives a patent for the **first electric shaver**.

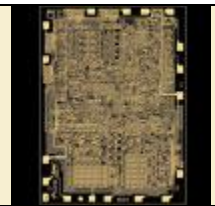


8: 1923: Birth date of IEEE Member **Jack St. Clair Kilby** Nobel Prize winner and inventor of the monolithic IC.



12: 12–15 November: **Region 9 IEEE Graduates of the Last Decade and Women in Engineering** meeting in Guayaquil, Ecuador.

15: 1971: Intel releases the **C4004 microprocessor**, the first commercial single-chip microprocessor.



18: 18–23 November: **IEEE Meeting Series** in New Brunswick, N.J.

19: 1954: First **automatic toll collection machine** goes into service on the Garden State Parkway in New Jersey.



20: 1923: **Garrett A. Morgan Sr.** receives a patent for a three-position traffic signal.



23: 1977: European Space Agency launches its **first weather satellite**, Meteosat-1.



24: 1969: **Apollo 12**, the second manned mission to the surface of the moon, successfully returns to Earth.



Northrop Grumman Names Stephen D. Hogan Vice President, Information Operations and Electronic Attack

Northrop Grumman Corporation has named Stephen D. Hogan vice president of Information Operations and Electronic Attack and Integrated Product Team leader for the company's Aerospace Systems sector.

As the team leader, Hogan will be responsible for directing approximately 600 employees working in Bethpage, N.Y., St. Augustine, Fla., Hollywood, Md., and Camarillo, Calif. The portfolio of the Information Operations and Electronic Attack IPT includes the Improved Capability III airborne electronic attack (AEA) system in the EA-6B Prowler and its derivative in the EA-18G Growler, the company's Next Generation Jammer (NGJ) offering, and advanced decision support and targeting software tools such as RainStorm(TM) and the Net-centric Enabled Mission eXecution System (NEMXS(TM)).

Prior to his promotion, Hogan was program director and capture lead for the company's NGJ program.

He was responsible to win and execute all NGJ related contracts and development activities, as well as pursuing follow-on opportunities for the NGJ and its associated technologies.

Hogan previously led the Northrop Grumman team responsible for developing the AEA system that is the heart of the EA-18G. The EA-18G United States Navy-Boeing-Northrop Grumman team introduced this advanced AEA system to the fleet on time and under budget. For their efforts, the team was awarded the 2008 NAVAIR Commander's Award. Hogan also has won several management awards in his own right. Before joining Northrop Grumman, Hogan had held program and acquisition management positions within the U. S. Department of the Navy.

He earned a Bachelor of Science degree in mechanical engineering from University of Maryland, a master's degree in engineering administration from George Washington University and is a certified program management professional.

IEEE Celebrates 2009 Nobel Prize Winners



IEEE, the world's largest technical professional association, is proud to congratulate three of its Life Fellows – Dr. Charles K. Kao, Dr. Willard S. Boyle and Dr. George E. Smith – as recipients of the 2009 Nobel Prize in physics. Recognized for breakthroughs involving the transmission of light in fiber optics and inventing an

imaging semiconductor circuit, the three scientists created the technology behind digital photography and helped link the world through fiber-optic networks.

"As a physicist myself, I am especially proud that these three members of IEEE have been honored with the Nobel Prize in physics," said IEEE President John Vig. "On behalf of our members around the globe, I congratulate these innovators for being recognized for advancing technology that has benefitted humanity."

Acknowledged for his 1966 discovery that showed how to transmit light over long distances via optical glass fibers, Dr. Kao helped build the framework for modern broadband communication networks that carry today's high-speed Internet data and phone calls around the world.

Working together, Dr. Boyle and Dr. Smith invented the first imaging technology using a digital sensor, a charged-coupled device (CCD). CCD technology has revolutionized photography so that light could be captured electronically (in the form of pixels) instead of on film. "The inspiration of Willard Boyle and George Smith transformed an industry," said Dr. Gordon Day, President of IEEE-USA. "Replacing film with electronic devices made photography faster and cheaper, and digital imaging has led to great advances in the processing and distribution of images."

The IEEE, known as an organization that brings the best minds in science and technology together to benefit mankind is home to more than 19 Nobel Prize winners, ranging from Guglielmo Marconi's 1909 Nobel Prize in Physics in recognition of his contribution to the development of wireless telegraphy to Paul C. Lauterbur and Sir Peter Mansfield's 2003 Nobel Prize in Medicine for their discoveries concerning magnetic resonance imaging.

IEEE Launches New Biometrics Certification and Training Program

Together IEEE and some of the world's leading biometrics experts have developed a new certification and training program for biometrics professionals and their organizations. The IEEE Certified Biometrics Professional™ (CBP) program focuses on the relevant knowledge and skills to apply biometrics to real-world challenges and applications.

"This program is of vital importance to the biometrics community," said Vincenzo Piuri, chair, IEEE CBP Certification Committee and professor, Department of Information Technology, University of Milan. "The IEEE CBP program helps organizations meet the increasing demand for skilled professionals who can successfully implement or incorporate biometrics in a wide range of applications."

The IEEE CBP program was developed to help meet the training, hiring, and evaluation needs of professionals and organizations throughout the biometrics industry. Individuals who will benefit include biometrics professionals, practitioners, and engineers from a wide array of industries. The program consists of two components: certification, through the IEEE Certified Biometrics Professional™ (CBP) Exam; and training, through the IEEE Certified Biometrics Professional™ (CBP) Learning System.

By passing the IEEE CBP exam and earning the CBP designation, biometrics professionals demonstrate that they have the level of proficiency needed to perform in a competent and effective manner, and meet the demands of this rapidly evolving field. The IEEE CBP Learning System combines print materials and online interactive software to provide effective biometrics training and CBP exam preparation.

"The IEEE CBP program provides the industry with an unbiased measure of the baseline level of knowledge held by an individual," explains Matthew S. Loeb, staff executive, IEEE. "The new CBP designation and training are by-products of the evolving field of biometrics and the amount of growth this industry has seen over the last 10 to 15 years."

In 2009, the CBP exam will be available from October 26 - November 22, and registration is currently open. Professionals who want more information and to register for the exam and organizations that are interested in registering multiple employees should visit:

www.IEEEBiometricsCertification.org

LECTURES & SEMINARS

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

EMC and The Rail Transit Industry

Wednesday, November 18, 2009, at 6:30 PM

Refreshments will be served at 6:00PM. This seminar is free & all are invited

Speaker: Walter A. Poggi, President, Retlif Testing Laboratories

Abstract: The presentation will focus on the growing awareness for the need of Electromagnetic Compatibility in today's evolving rail and transit industry. The transition from an electro-mechanical "world" to a microprocessor one will be reviewed as well as look at the growing technologies of Positive Train Control and Communications Based Train Control. Reviewed in the presentation will be the building blocks of current EMC compliance programs used by agencies such as the New York City Transit as well as an overview of the normal EMC testing requirements imposed on today's rail and transit equipment.

Speaker Bio: Mr. Walter A. Poggi is president of Retlif Testing

Laboratories, a 30 year old independent testing laboratory providing conformity assessment and product approval testing services.

Mr. Poggi received his B.S. degree from New York Institute of Technology in 1969. He has been certified by the National Association of Radio and Telecommunications Engineers as a Senior EMC Engineer and by the International Trade Association as a Certified Trade Expert.

Walter is deeply involved in the American Council of Independent Laboratories (ACIL) this country's leading trade association representing the interests of independent laboratories. He holds the position of Chairman of the Government Affairs Committee. Mr. Poggi is a member of numerous trade, engineering and business associations, such as the Long island Forum for Technology (LIFT),

the Institute for Electronic and Electrical Engineers (IEEE), the Society of Automotive Engineers (SAE) and the MacArthur Business Alliance (MBA). In 1998, MR Poggi received the IEEE's Region One Award "For Developing Industry Initiatives in EMC Supporting the International Acceptance of U.S. Products".

Seminar Coordinator: Donald Lerner, IEEE EMC Society LI Chapter Chair and Martin Czuba

Location: Retlif Testing Laboratories located at 795 Marconi Avenue, Ronkonkoma, NY. The facility is located just south of the Long Island Expressway Exit 59.

Registration: Is required. Register by visiting the Calendar page of the IEEE Long Island Section webpage at:

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

The Long Island Chapter of the IEEE Instrumentation and Measurement Society is presenting a seminar titled:

NI Technical Conference

Tuesday, November 10, 2009, from 8:00 AM to 5:00 PM

This Conference is free & all are invited and free Lunch will be provided



Join **National Instruments** along with **ALE System Integration** and **Bloomy Controls** for the **NI Technical Conference**. This complimentary, full-day event is designed to both strengthen your engineering skills and introduce you to your NI engineering resources. It is a chance to network with your peers and learn more about what's going on at National Instruments all in a local environment.

The agenda includes a keynote presentation from NI experts as well as a variety of technical and hands-on sessions. The conference offers information on emerging industry trends within a valuable networking forum and product exhibition. The day includes technical presentations highlighting the latest National Instruments innovations featuring the latest developments for automation, manufacturing, design, and test. They offer content for all experience levels. The presentations for the 2 Tracks are shown below:

Track 1: Test	Track 2: Hands-On/Embedded
What's New in LabVIEW 2009	LabVIEW and Computer-Based Measurements Hands-On Pt. 1
Introduction to Object Oriented Programming in LabVIEW	LabVIEW and Computer-Based Measurements Hands-On Pt. 2
HPC using FPGA's	Improving Prototype Validation with LabVIEW and Multisim
LabVIEW FPGA for Test Applications	Developing & Customizing LabVIEW Embedded Technologies
New DAQ Technologies - X Series and New Compact DAQ	NI Real-Time Hypervisor: Run Windows and LabVIEW Real-Time in Parallel on the Same Controller
Architecting High-Speed Data Streaming Systems	LabVIEW for Wireless Sensor Networks

The **NI Technical Conference** will be hosted at the Four Points by Sheraton hotel located at 333 South Service Rd, Plainview, NY 11803. To register contact **National Instruments** directly at:

<http://sine.ni.com/nievents/app/overview/p/eventId/36140/site/nic/country/us/lang/en/offeringId/519217>

IEEE and IBM Announce Agreement to Publish IBM Journals in IEEE Xplore®

IEEE and IBM today announced a publishing agreement to disseminate some of the leading technical articles and papers in computer hardware, software and information systems to a wider audience of researchers and interested readers around the world. The IBM Journal of Research and Development, which now includes the IBM Systems Journal, is one of the top-cited journals in the field and addresses the latest advancements in computer science. Beginning in the first quarter of 2010, all papers ever published in the IBM journals will be available exclusively in the IEEE Xplore digital library.

"IBM is proud to join with IEEE in the combined publication of the IBM Journal of Research and Development and the IBM Systems Journal beginning in 2010," said John Ritsko, editor-in-chief, IBM Technical Journals. "With more than four million users coming to IEEE Xplore each month, this collaboration will achieve the widest possible distribution for technical readers as well as enable efficient and sustainable publication of these leadership journals."

The IBM Journal of Research and Development and IBM Systems Journal, which have been published online since 1998, merged into one fee-based online publication in 2009. The production of future editions of the current publication, the IBM Journal of Research and Development, will be handled by IEEE. IBM will be responsible for the content acquisition and peer review, while IEEE assumes the article production, copy editing, data conversion, online hosting and maintenance.

"The IBM journal is the #3 cited journal in computer science, hardware and architecture according to the 2009 ISI Journal Citation Report and IEEE Xplore contains some of the most highly cited technical journals in the world. By adding high quality content such as the IBM Journal of Research and Development, IEEE Xplore continues to be one of the most robust and valuable technical libraries on the market today," said Tony Durniak, staff executive, IEEE Publications.

The research community will have the opportunity to purchase single IBM journal articles via IEEE Xplore or a subscription package to the entire journal, including all issues ever published, starting in 1957. IEEE members and digital library subscribers also will be able to add the journals to their current subscription packages.

The journal was launched in 1957 by Thomas J. Watson Jr., IBM president and CEO, who viewed it as "a strong indication of the increasing emphasis we at IBM want to place in the future on fundamental science and technology." In 1962 as the computer industry grew, the IBM Systems Journal was added to report advances in software, software systems, and eventually services. It's among the most cited journals in computer science.

IEEE Members Select Moshe Kam 2010 President-Elect

Moshe Kam, department head and Robert Quinn Professor of Electrical and Computer Engineering at Drexel University, Philadelphia, Pa., USA, has been selected as 2010 IEEE President-Elect. Pending acceptance of the Teller's Committee report by the IEEE Board of Directors on 22 November, Kam will begin serving as IEEE president on 1 January 2011. He will succeed 2010 IEEE President Pedro Ray, president, Ray Engineers, Old San Juan, Puerto Rico.

The other candidates for 2010 IEEE President-Elect were J. Roberto Boisson de Marca, professor, Pontifical Catholic University, Rio de Janeiro, Brazil, and Joseph V. Lillie, AT&T (retired) Lafayette, Louisiana, USA. All of the candidates were nominated by the IEEE Board of Directors.

Of the members who voted, 15,690 selected Kam, 14,903 selected Lillie, and 12,704 selected de Marca.

An advertisement for IEEE's document delivery service. The background is a blue-tinted image of a person's hand holding a document. The text is as follows:

Need A Paper From Any Publisher?

Ask*IEEE.
Your one-stop source for document delivery.

www.ieee.org/askieee

Reporting on the 2009 Region 1 IEEE WIE Professional Development Seminar by Christina Nickolas, PE, Chairperson Women in Engineering IEEE LI Section



The third IEEE Women in Engineering (WIE) Professional Development Seminar (PDS) was held successfully on September 25-27 in White Plains, NY and was entitled, "Engineer the Future, Sharpen your Competitive Edge". NY Region 1 sponsored the event together with co-host Region 2.

The conference welcomed over 70 attendees and over 20 guest speakers. The goals of the conference were to obtain the professional skills and knowledge to build a competitive edge in the current work environment. It also offered the opportunity to network with peers and colleagues.

The conference started Friday evening with the welcoming reception in which Karen Panetta, Ph.D. WIE Chair, from Tufts University, spoke about her involvement with WIE. Karen has traveled the world talking to young girls about engineering careers. She spoke and showed us a video on the "Nerd Girls" program in which she founded in order to break the stereotype that women can't be both smart and gorgeous. The program involved undergraduate women engineers that research renewable energy topics. See video online at <http://ieeewomen.org>



Volunteers Setting-up Early on Friday

Afterward Cortina Cortes, Ph.D. from Google presented the keynote speech on work/life balance and expressed her passion for computer science. She also presented some cool problems that the folks at Google are working on. The evening ended with a fabulous Chocolate Fondue, decadent desserts, and wine and cheese.

For Saturday and Sunday, the speakers included accomplished individuals from academia and industry. Greg Bradley (Keynote Speaker) from MTA Metro-North Railroad, gave a powerful speech on how important it is for all of us to develop our leadership skills and that having the right attitude is important for our career success. Other speakers included Nada Anid Ph.D. from NYIT, Peter Eckstein, IEEE-USA, VP Government Relations, Charles Rubenstein, Ph.D. IEEE Region 1 Director-Elect, and Hue Rhodes, Writer Director, were some of the speakers at the event.

Generally the conference program had the right balance of seminars in leadership development, technical knowledge, and professional and personal goal setting. During the coffee breaks the attendees had a chance to network, share experiences, and visit the exhibit tables of the corporate and university sponsors.



Shown with Region 1 Director-Elect Charles Rubenstein are Holly Cyrus, Darlene Rivera, Jignasa Ray, and Christina Nickolas

Part of Saturday's program had two tracks: one was geared towards the professional engineer who wanted to gain some technical expertise and the other towards career development for the engineering student or the recently employed engineer. In addition, by attending all seminars, the attendee had the option to obtain 12 CEUs.



Attendees at Workshop during the Conference

Here I'd like to mention that the conference's success was due to the hard work of the co-chairs Darlene Rivera and Jignasa Ray, Marlen Waaijer - who did an excellent job as a Conference Webmanager and developing the program booklet, and to the many volunteers, contributors, advertisers, and attendees.

Special thanks to our local companies **Telephonics Corp.** www.telephonics.com, **ALE System Integration** www.aleconsultants.com and **Tactronics Holdings** www.tactronics.com who advertised in the Conference booklet.



Richard "Dick" Ephraim Saeks IEEE Fellow Dies at 67



Dr. Richard Saeks of Chattanooga, an innovative scientist, engineer and teacher, passed away on Monday, October 12, 2009 from natural causes following a period of poor health. He was 67 years old.

He was born in Chicago on November 30, 1941 to Morris George and Elsie Saeks. He was preceded in death by his parents and his only brother Jerrold Saeks. He is survived by his sister-in-law, Joyce Saeks; a niece, Abby Markowitz and a nephew, Lorne Saeks, all of Chicago, Illinois.

Dr. Saeks was educated in the Chicago Public Schools and went on to obtain his BS in Electrical Engineering from Northwestern University, MS in Electrical Engineering from Colorado State University and Ph.D. from Cornell University.

Dick was the Vice President and Chief Technology Officer of Accurate Automation Corporation in Chattanooga, Tennessee. For the past 17 years Dick developed advanced systems for the government under grants and contracts from the Department of Defense (DoD), National Aeronautics and Space Administration (NASA), and National Science Foundation (NSF). He was a world-class electrical engineer who was an expert in control theory, fault diagnosis, systems theory and plasma technologies. As an international authority on control, large-scale systems, fault analysis, and mathematical system theory, Dr. Saeks had 3 patents on ion doping, sensor fusion and tiperon control systems. Professor Saeks also wrote 4 technical books on Systems Theory and was the author of over 300 academic papers. His patented plasma aerodynamics technology has been demonstrated to maneuver high speed missiles in flight. Dr. Saeks fault diagnosis technique known as the Component Connection Model is used to determine unknown failures in a well understood plant. He developed techniques for Adaptive Control, Neurocontrol, Adaptive Critic and Youla parameterization that are today used for control system of unmanned aircraft and boats.

Prior to coming to Accurate Automation, he taught electrical engineering for 25 years in a number of distinguished positions in academe serving as Dean of Engineering and Motorola Professor at the Illinois Institute of Technology, Professor and Chair of the Department of Electrical and Computer Engineering at Arizona State University, and Paul Whitfield Horn Professor of Electrical Engineering, Mathematics, and Computer Science at Texas Tech University. He started his academic career at Notre Dame University in Indiana.

Dick was a Fellow in the Institute of Electrical and Electronics Engineers (IEEE), and a Fellow in the American Institute of Aeronautics and Astronautics (AIAA). He served as President of the IEEE Systems, Man and Cybernetics Society. He holds numerous honors including the IEEE Third Millennium Award and 2 Tibbetts Awards from the U.S. Small Business Administration. He has an Inc 500 Award and is in Who's Who in America.

Third Quarter Engineering Unemployment Data Show Mixed Trends

The unemployment rate for U.S. electrical and electronics engineers (EEs), which had jumped to a record high in the second quarter, has eased, according to third quarter data just released by the Department of Labor's Bureau of Labor Statistics. For the engineering profession as a whole, the rate continued to climb, but more slowly.

The jobless rate for EEs dropped from 8.6% in the second quarter to 7.3% in the third. Quarter to quarter, the EE workforce grew by 26,000.

For civil engineers, the unemployment rate dropped from 4.7 percent to 3.6 percent, but for mechanical engineers, it rose from 5.6 percent to 9.5 percent. Overall, engineering joblessness rose to 5.9 percent, a 0.4 percentage point increase compared to a 1.6 percentage point increase in the second quarter.

The unemployment rate for computer professionals went from 5.4 percent in the second quarter to 6 percent in the third. Software engineers showed a slight decline (4.7 percent vs. 5 percent), while computer scientists and systems analysts experienced an increase (7.3 percent vs. 6.4 percent).

"These mixed data suggest that the worst may be passing, but we are still a long way from the levels of engineering unemployment we would expect to see in a strong economy," IEEE-USA President Gordon Day said. "We are also encouraged that announcements of layoffs in the high-tech sector appear to have subsided, after peaking early in the year. A clear turnaround in engineering unemployment would be a very positive sign for the general workforce, since engineers create new jobs in many categories."

Career enhancement resources are available for IEEE members at:

<http://www.ieeeusa.org/careers/>.

Help for unemployed and at-risk members is available at:

<http://www.ieeeusa.org/careers/help/>

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IEEE-USA Webinar: Snooping Employers: How Employers Get Background Information on You Prior to the Interview

Date: 12 November 2009

Time: 2:00-3:00 p.m. ET

Moderator: Elizabeth Lions

Are human resources professionals doing more than just examining your resume before they invite you in for an interview? Of course, they are! With the unemployment rate rising for U.S. electrical and electronics engineers, human resources professionals are doing more research on applicants to help them weed out people amidst the rising number of resumes they're receiving. Elizabeth Lions solves the mystery of how employers are getting inside information on you in her IEEE-USA webinar, "Snooping Employers: How Employers Get Background Information on You Prior to the Interview."

To register click on the following link:

<http://ieeeusa.org/careers/webinars>

20

09

International Test Conference



The Cornerstone of Test Week™

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Advance Program

Test Week: November 1 – 6

Conference & Exhibition: November 3 – 5

Austin, Texas USA



LECTURES & SEMINARS

Long Island Section Professional Activities Committee (PACE), Employment Assistance Committee and Graduates of the Last Decade (GOLD), are presenting:

“Define Your Retirement Goals and Plan to Reach Them in Today's Changing Market”

Tuesday, December 1, 2009 at 6:30 PM

Refreshments will be served at 6:00PM. This seminar is free & all are invited.

Speakers: **Matthew Mandell**, CRPC Advanced Financial Advisor for Ameriprise Financial and **Brian White**, Advanced Financial Advisor for Ameriprise Financial

Who Should Attend?: If you are looking for help defining your ideal retirement and planning to save and invest for it.

Abstract: You will learn ways to envision your ideal retirement, build a plan to help you reach your retirement goals, even in a changing economy, and position your finances as you plan for a long retirement. In addition, you will receive Dream Book® a guide from Ameriprise Financial, to help you explore and meet your retirement dreams.

Speaker Bios: **Matthew Mandell** received his BS in Finance from the Pennsylvania State University. He is a fully certified financial advisor, qualifies as an Advanced Financial Advisor, earned his CRPC (Chartered Retirement Planning Counselor) designation, achieved Circle of Success, and qualified as a member of the Million Dollar Round Table. He works with clients to develop a custom tailored financial plan pertaining to their life goals and specializes in effective retirement planning, personalized investment advice, education funding, and protection planning.

Brian White has over five years experience in the financial services industry. Over his career as a Financial Advisor, Brian has achieved notable accomplishments that rank him among the top of his peers such as The Mercury Award, Top Achiever Award and The Circle of Success.

Brian is a fully certified financial advisor, a member of the Advanced Advisor Group and has earned the Chartered Retirement Planning Counselor designation. His mission is to help his clients reach their financial goals through a personal relationship based on personalized, knowledgeable advice. Brian graduated Cum Laude from Adelphi University where he earned his Bachelor Degree in Business Finance.

Location: Telephonics Corporation, 815 Broad Hollow Road, Farmingdale.

Registration: Required. Register by visiting the Calendar page of the IEEE Long Island Section webpage at:

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

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Just a few fun, informative and interesting facts and tidbits about the IEEE
Contributed by John Day,
Director, IEEE Membership Development

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A monthly column by Nikolaos Golas, Membership Development Chairman

The Institute Newsletter

The Institute Newsletter, is the newspaper that keeps you posted on what's happening at IEEE. Available monthly as a Web publication, is available for all IEEE members (more than 370,000 members) online. A subscription to The Institute is included with IEEE membership. The Institute informs IEEE's membership in a timely and objective manner of newsworthy IEEE activities both in professional and technical areas.



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IEEE Green Technology Conference Seeks Technical Papers

Organizers of the second IEEE Green Technology Conference (<http://www.ieeegreentech.org>) are seeking technical papers on topics related to current and emerging renewable energy sources and energy-reduction technologies.

Accepted papers will be presented during the conference, 15-16 April at the Gaylord Texan Hotel and Convention Center in Grapevine, Texas, between Dallas and Fort Worth. They will also be published in a conference proceedings CD and available through the digital library IEEE Xplore. Contributed papers in the following areas are solicited:

- Alternative energy sources for homes, businesses and communities, including wind, solar and bio-fuels
- Energy resource usage reduction, conservation and efficiency, including electric grid, home automation and commercial building energy management
- Alternative energy choices, large and small, and their effects in product development
- Green requirements, specifications and emerging standards and certifications
- Architectural and engineering sustainable designs, including the use of green building components
- Environmental, economic, political and social impacts of "going green"
- Indoor and outdoor environmental use, impacts and quality

To submit a paper, which must be received by 2 November 2009, go to <http://www.ieeegreentech.org/TechConf/PaperSubmission.htm>. Submissions must describe original work not previously published or currently under review for publication in another conference or journal. Instructions can be found at http://www.ieee.org/portal/cms_docs/pubs/confpubcenter/pdfs/samplems.pdf. Authors will be notified by 15 December 2009 whether their papers are accepted. For questions regarding paper submissions, contact Edward L. Safford, technical program chair, at e.safford@ieee.org. Proposals for workshops, panels and tutorials are also welcome.

With increasing concerns about fossil fuel costs, supplies and emissions, scientists, engineers and entrepreneurs are more closely examining the commercial viability of renewable energy sources. These include solar, wind, nuclear, geothermal, hydro and biomass, among others, as well as alternative vehicle power sources such as fuel cells, gasoline and liquid natural gas electric hybrids and plug-in hybrid electric vehicles. The conference aims to look at these technologies. The inaugural IEEE Green Technology Conference was held in Lubbock, Texas, in April 2009. For an overview of the event, see Patrick Meyer's June article in IEEE-USA Today's Engineer: <http://www.todayseengineer.org/2009/Jun/Green-Tech.asp>. Meyer is a doctoral student and research associate at the University of Delaware's Center for Energy and Environmental Policy.

The 2010 IEEE Green Technology Conference is sponsored by IEEE Region 5, the IEEE Financial Advantage Plan, the IEEE Fort Worth Section and IEEE-USA. The event will precede the annual IEEE Region 5 Meeting.



LISAT2010

Farmingdale
State College

Sixth Annual IEEE Long Island Systems, Applications and Technology Conference
Friday, May 7, 2010

The Institute for Research & Technology Transfer at Farmingdale State College
State University of New York - Farmingdale, NY

CALL FOR PAPERS, PRESENTATIONS, EXHIBITORS and STUDENT PAPERS

The Long Island Systems, Applications and Technology (LISAT) Conference features several parallel professional tracks including topics in Systems, Applications, and Technology, along with an Exhibit Hall. We are currently soliciting submissions for participation in both the Technical Program and the Exhibit Hall, and are interested in papers, presentations, and exhibits that showcase the development and use of technology by local organizations.

LISAT 2010 will also provide the opportunity for select student papers to be presented. Undergraduate and graduate students are encouraged to submit papers in an area of their interest or current work.

Preliminary acceptance to the Technical Program will be based on a 300-to-500-word abstract. Authors of accepted abstracts will be required to provide a six (6) page IEEE standard manuscript (in MS Word format) for publication in IEEE *Xplore*, and will be required to make a power point presentation at the conference. Manuscripts are subject to the LISAT Technical Program Committee's peer review and may require revision prior to final acceptance. Important dates for the Technical Program are:

Oct 31, 2009:	Abstracts due (300-to-500 words)
Nov 15, 2009:	Notification of accepted abstracts
Nov 30, 2009:	Biographies of authors and ½-page presentation outlines due
Jan 15, 2010:	Manuscripts for publication (MS Word) and copyright releases due
Jan 30, 2010:	Notification of final acceptance of manuscripts
Feb 15, 2010:	Presenter Registration Fee and two (2) sentence presentation descriptions due
Apr 1, 2010:	Power Point slide presentation due
May 7, 2010:	LISAT2010 Conference

All submissions must include the author's full names, affiliations, postal addresses, phone numbers, and email addresses. Submissions should be emailed to the LISAT Technical Program Committee at LISATprogram@ieee.org. Detailed instructions on submission, manuscript and presentation templates, and information on the conference, is available on the LISAT web site at <http://ewh.ieee.org/conf/lisat>

At least one author of *each* paper/presentation must register for the Conference and will be expected to provide a 20-minute presentation at the conference followed by 5 minutes of Q&A. Longer presentations will be considered. One presenting author will be allowed to register at a discounted rate. A limited number of tutorial and application presentations which will not be published by the IEEE may also be accepted

While LISAT welcomes a wide variety of papers in systems, applications, and technology, some examples of topics of particular interest are: *Homeland Defense, Alternate Energy Sources, Green Building Technologies, Mobile Communications, Microwave Technology, Electromagnetic Compatibility, Mobile Ad Hoc Networking, Network Security, Sensor Fusion, Antenna Systems and Processing, Radio Locationing, Radar Systems and Techniques, and Medical Electronics.*

For information on **Exhibiting** at LISAT, please contact: Fred Kruger at f.m.kruger@ieee.org

For all other information contact LISAT2010 Conference Chair: Dave Mesecher at d.mesecher@ieee.org or Conference Co-Chair Charles Rubenstein at c.rubenstein@ieee.org

LISAT is sponsored by the IEEE Long Island Section and its Technical Society Chapters and IEEE Region 1, in cooperation with the Institute for Research & Technology Transfer (IRTT) at the Farmingdale State College (SUNY).










Releases and Approvals: This conference will be unclassified and attended by both US and non-US persons. It is the author's responsibility to obtain all required company and government releases and approvals prior to making a paper submission. A statement that such releases and approvals have been obtained as well as a completed IEEE Copyright Form (signed by the submitting author) must accompany the manuscript of each accepted paper.

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Check the box next to name or enter the nominated candidate below:

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In order for the nomination to be valid, the ballot must have the member's name and his/her IEEE membership number. Please send completed ballots from October 1st 2009 through December 1st 2009 to our Tellers Committee Chairman at:

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