



*Chair's message by Bill DeAgro, [wdeagro.ieee@hotmail.com](mailto:wdeagro.ieee@hotmail.com)*

Summer is here, as evidenced by our first heat wave. I do hope we've all had been prepared. It's unfortunate this day and age, we still hear of people dying from such and here particularly in the US. This and the many other things I encounter always make me question: "Are we really as technologically advanced as we should"? I hope you frequently ask this same question because this is what brings new ideas and moves people to think outside the box. Our feats have no boundaries, logistics included.

With sadness (and not due to the heat wave), I'd must mention that one of our long time executives, Charles Richardson has recently passed on. Charles was a very dedicated and active engineer serving as Chairman of EJCLI (Engineering Joint Committee of Long Island) and Educational Activities Chairman. Also with sadness these positions are now available to continue the wonderful work Charles has had in motion.

Please note, other than a Regional meeting in August, the LI IEEE Executive Committee will be breaking for the next two months for the summer (i.e. July and August) and may not be as available as during the rest of the year. We will resume business as usual in September. I wish all a wonderful and enjoyable summer.

I want to take this moment to thank everyone of our committee members for their great efforts for the first half and most challenging half of this year - particularly with all the difficulties and setbacks we had to endure and overcome. People such as Dave Sterner who had taken charge of our Pulse editor position this year has done an outstanding job since the gate opened. Steve Rubin, our Legal Chairman with his consistent efforts and support in developing news editorials, developing lectures and providing suggestions is very much appreciated. Sandy Mazzola, our vice chair, with his supporting efforts and on and on and on. Thank you all for all your efforts professionalism.

Lastly I'd like to welcome, congratulate and thank Dave Bomzer (of Day Pitney) for joining our executive committee and volunteering his support as our Communications Vice Chair.

Enjoy your summer, William DeAgro, Chairman, IEEE LI

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**POWER & ENERGY SOCIETY MEETING**

***Green and Smart Buildings***

Date: Tuesday, July 15  
Time: 5:00PM  
Place: Con Ed, 4 Irving Place, NYC  
Speaker: Kenneth McCauley, MGR or EPV Solar  
e-mail: Arnold Wong [wongar@coned.com](mailto:wongar@coned.com)  
No walk-ins. Con Ed is a secure facility.  
ARNOLD'S PHONE NO. 212/460-4189



The IEEE Consultants Network of Long Island (LICN) invites you to attend our next meeting. Please join us to hear an informative presentation by Steve Chirichella on

***The Latest Laser Triangulation Sensor Technology.***

Steve will describe capabilities and typical applications of both 1D and 2D models. Visitors welcome. Free refreshments.

What: July LICN Meeting

When: Wed July 2nd  
6:45 PM Business meeting  
7:15 PM Presentation begins

Where:  
Briarcliffe College (The Great Room)  
1055 Stewart Ave  
Bethpage, NY 11714

**CALENDAR OF IEEE EVENTS**

**JULY**

**2 – Long Island Consultants Network**  
*The Latest Laser Triangulation Sensor Technology*  
Speaker: Steve Chirichella  
Briarcliff College-The Great Rom, Bethpage  
7PM. Contact:John Dunn

**15 – Power & Energy Society Meeting**  
Green & Smart Buildings  
Speaker: Bruce Lincoln  
Con Edison, 19<sup>th</sup> Floor, 4 Irving Pl. NYC  
5:00 pm refreshments, 5:30 pm lecture

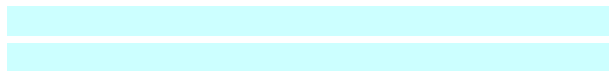
**AUGUST**

**6 - Long Island Consultants Network**  
Subject: TBA  
Speaker: TBA  
Briarcliff College-The Great Rom, Bethpage  
7PM. Contact:John Dunn

**SEPTEMBER**

**3 - Long Island Consultants Network**  
Subject: TBA  
Speaker: TBA  
Briarcliff College-The Great Rom, Bethpage  
7PM. Contact:John Dunn

**24 – MTT Society**  
Topic: TBA  
Speaker: TBA  
Telephonics, Farmingdale, Long Island  
7:00 pm



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### **GOLD Section Affiliate** – David Sterner

Since our GOLD affiliate group is officially registered, all graduates of the last decade are automatically members of GOLD. Uri Moszkowicz sent us a spreadsheet of the membership list indicating that the Long Island section has 202 graduates of the last decade.

Uri suggested we start by contacting the 36 last decade graduates whose IEEE membership is in arrears by telephone. Their input would help the section as a whole as well as improving the GOLD affiliate group.

### **Patentability of Circuits and Systems**

**Steven Rubin - WolfBlock**

Presented 2008 June 19, at BAE

Long Island Section Legal Affairs Chairman

Mr. Rubin discussed trends in patent decisions, with examples from recent cases. Patent protection is the strongest type of intellectual property available. It is also perhaps the most complex.

The basic requirements for patent protection focusing on issues relating to circuits, systems and signal processing, are explored, in addition to the four doors that must be passed in order to obtain patent protection in the United States, including: statutory subject matter, novelty, non-obviousness and written description requirements. Also covered are some recent court decisions specifically ruling on inventions relating to circuits and systems.

Check the viewgraphs posted on [www.IEEE.LI](http://www.IEEE.LI) under Circuits and Systems for the summary of the presentation and references to recent cases.

### **LET US HEAR FROM YOU**

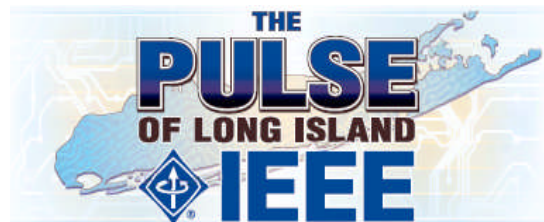
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### **U.S. SPACE PROGRAM 50<sup>TH</sup> ANNIVERSARY IN PROGRESS**

Many members of the Long Island Section made significant contributions to the space program. Grumman's lunar module for the Apollo program is the most famous Long Island project, but other members surely made contributions to the many programs for communications and scientific research.

Long Island high-tech firms produced special components and systems for the space program. Many of these firms are no longer in existence, or were absorbed by other companies. This technological history will disappear if we do not write it down for use by future researchers.

Please let us know if you participated in the space program and have a story or if you know someone who has a story about these space programs. [pulse@IEEE.LI](mailto:pulse@IEEE.LI)



**Obituary: Charles M Richardson,  
Educational Activities Chairman  
March 18, 2008**

We note with sadness the death of our L.I. Section Educational Activities Chairman. Charles was a founding trustee of Reading Reform Foundation of New York as well as founder and chairman of The Literacy Council. Trained as an engineer, he came to believe that reading, well taught in the early years was the foundation of a successful life for the individual and of democracy for the country. He fought for this belief with every fibre of his being.

Mr. Richardson held a BS in Electrical Engineering from Worcester Polytechnic Institute and an MS in Secondary Education from CW Post College. He also served as Adjunct Professor of Special Education and Reading at CW Post College. He was for 15 years co-owner/director of the Learning Foundations Tutoring Center in Hauppauge and then in Dix Hills, testing, prescribing, and administering individualized instruction for over 2700 students of all ages.

His experience included 31 years of radar engineering at Raytheon and Unisys (Sperry). He was a founding (and now honorary) trustee of the Reading Reform Foundation of NY, and a co-founder of the ASTOR Literacy Program. He was a Life Member of the Institute of Electrical and Electronic Engineers (IEEE), a Licensed Professional Engineer, and held teaching certificates in Elementary Education, Special Education, and Secondary Mathematics, Physics, and General Science.

The Literacy Council [www.tlc.li](http://www.tlc.li) supported efforts at improving reading scores of troubled Long Island schools, emphasizing phonics which had been neglected by some educators. The reading disability where 'who' and 'how' are identical can be reduced by phonics.

**Aeroflex Adds New 3 GHz Modular  
Digital RF Signal Generator To  
PXI 3000 Series Comprehensive RF  
Test Platform**

<http://www.aeroflex.com>

Stevenage, England—June 17, 2008—

Aeroflex today announced the 3020C PXI Modular Digital RF Signal Generator, a new 3 GHz variant to the growing PXI signal generator line.

Aeroflex's comprehensive modular RF test platform, the PXI 3000 Series, has the bandwidth and versatility to seamlessly cover the entire RF test process—from R&D through to manufacturing—in any wireless market from cellular to military/aerospace to RFIC.

Ideal for RF engineers performing communications test, the new 3020C covers the frequency range of 1 MHz to 3 GHz, supporting applications in high frequency (HF), very high frequency (VHF) and ultra high frequency (UHF) bands.

The 3020C has wideband width modulation up to 90 MHz for broadband communications standards or multicarrier test applications as well as radio frequency output power from -120 dBm to +6 dBm.

“Aeroflex's configurable, scalable PXI 3000 Series RF measurement system set the industry benchmarks for flexibility, speed and performance of RF instruments,” said Tim Carey, PXI product manager, Aeroflex Test Solutions. “We continue to evolve this revolutionary RF test platform, adding new modules and updating the software to extend the performance and flexibility for our customers.”

## **BAE SYSTEMS DEMONSTRATES ENHANCED EMERGENCY COMMUNICATION SYSTEM FOR FIRST RESPONDERS**

19 Jun 2008 | Ref. 190/2008

HEMPSTEAD, New York — The Hempstead and West Hempstead, New York, fire departments have successfully completed three weeks of field trial of BAE Systems' First InterComm™, a communications system that enables first responders to communicate more effectively during emergencies.

The First InterComm system allows first responders to communicate using existing radios and frequencies at incident scenes without use of additional infrastructure, including construction of temporary towers. The system automatically provides interoperability and interconnectivity when multiple agencies arrive at an incident scene.

During the field trial -- which began May 20, 2008 -- BAE Systems' First InterComm equipment was installed on two emergency vehicles. In responding to routine fires in Hempstead and West Hempstead, the system enabled the departments to communicate with equipment that otherwise would be incompatible.

"The First InterComm system provided an affordable means to communicate with our surrounding communities," said Tom Talento, Hempstead Fire Department chief. "The solution has been especially useful in the true emergencies and working fires we have encountered in the past few weeks. The system has definitely helped to minimize risk to my personnel."

The system can be configured so that "my personnel can use their existing radio equipment when on scene and receive valuable

information en route, allowing us to safely and correctly position our vehicles and maximizing our usefulness," said Peter Lilly, West Hempstead fire chief.

"There is a nationwide need for first responders to have communications interoperability," said Mike Greene, director of homeland security solutions for BAE Systems in Nashua, New Hampshire. "Upon acceptance of the trial results, various mutual-aid departments throughout Long Island and specifically in Nassau County, New York will be able to purchase the First InterComm system."

In 2004, the 9/11 Commission report documented the difficulties first responders faced due to a lack of communications interoperability at the World Trade Center. That same year, BAE Systems established a homeland security initiative to address those needs. First InterComm is among several capabilities BAE Systems now offers to help first responders communicate more effectively.

## **Northrop Grumman Awarded \$9 Million for Aircraft EMI Reduction System**

Northrop Grumman Systems Corp., Bethpage, N.Y., is being awarded a \$9,055,934 modification to a previously awarded cost-plus-incentive-fee contract for Electro Magnetic Interference Reduction System Process Hardware for E-2D Advanced Hawkeye Pilot Production Aircraft. Work will be performed in Syracuse, N.Y., and Bethpage, N.Y., and is expected to be completed in April 2010. The Naval Air Systems Command, Patuxent River, Md., is the contracting activity.

## **Telephonics awarded contract by Northrop Grumman Integrated Systems for Ground Vehicle Intercommunication System**

6/11/2008 - Griffon Corporation (NYSE:GFF) announced today that Telephonics Corporation, its electronic information and communication systems subsidiary, has been selected by the Northrop Grumman's MQ-8B Fire Scout program to provide Ground Control Shelter communications management for a demonstration MQ-8B Fire Scout Unmanned Aerial System (UAS). The system will be demonstrated to several customers. The Intercommunication System (ICS) will consist of the Telephonics NetCom-V™ networked intercommunications system fully integrated with the TruLink □ Wireless intercommunication system. This highly integrated system will permit both wired and wireless operators to communicate over long-range radios with full digital capability as well as being on a common voice network for local communications for ground operations, launch and recovery, refueling, etc. The TruLink wireless system was selected for Army aircraft and is being deployed on multiple platforms. It is the Aircraft Wireless Intercom System (AWIS), an integral part of PEO Soldier's Air Warrior's suite.

## **Honeywell Navigation Unit Helps Successful Mars Landing**

On May 25, the National Aeronautics and Space Administration (NASA) landed the Phoenix Mars Lander on the surface of Mars. Two Honeywell products on board, Miniature Inertial Measurement Units (MIMUs) and a Radar Altimeter System, played a key role in the successful landing. Additional Honeywell technology for the camera and robotic arm will ensure that the mission is completed in the next 90 days.

Launched by NASA in 2007, Phoenix is the first mission to the Martian polar region to analyze soil and ice using a robotic arm and other equipment. This mission also marked the seventh time Honeywell technologies were used on a scientific mission to Mars.

“Because of adverse conditions on the planet and in its atmosphere, landing on Mars is incredibly challenging,” said Dave Douglass, vice president, Honeywell Space. “Honeywell technology ensured a safe descent through the planet’s atmosphere after the spacecraft’s 10-month cruise to Mars. The landing was a fantastic accomplishment for the NASA spacecraft and for Honeywell.”







MIMUs, built in Clearwater, were used to determine the rate of deceleration of the spacecraft and identify the precise moment when the parachutes should deploy. “For 20 minutes, everything on descent was dependent on the MIMU navigation data for the spacecraft,” said Kevin Gaffney, MIMU Product Line manager. “The MIMUs performed flawlessly.”

In NASA’s press conference Sunday night, Honeywell was noted as providing the Radar Altimeter System and the important function it had in landing the spacecraft. The radar altimeter, built in Minneapolis, provided precision data on the altitude of the Phoenix as it descended onto the surface of Mars, specifically noting its distance from the ground.

“The Radar Altimeter System was not only used as a precision height indicator but it was also designed to provide velocity measurements in all three axes,” said Dave Hansen, Honeywell Engineering manager. “This allowed the vehicle to safely land without tipping over.”

Honeywell in Tucson, Arizona, built and delivered the camera memory, controller circuit cards for the camera and the robotic arm buffer board being used on the Phoenix. These items have a significant role in the Mars exploratory mission. The robotic arm is being used to dig on the surface of Mars to collect mineral samples. Tucson’s controller circuit card enables the robotic arm to move into position and dig. The controller circuit card for the camera enables the camera to move and take pictures. In tandem, the memory circuit card stores the photos and assists in the transmission of the photos back to earth.

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# LISAT2009

Farmingdale  
State College

Fifth Annual IEEE Long Island Systems, Applications and Technology Conference  
Friday, May 1, 2009  
The Institute for Research & Technology Transfer at Farmingdale State College  
State University of New York - Farmingdale, NY

## ***CALL FOR PAPERS, PRESENTATIONS, and EXHIBITORS***

The Long Island S<sup>y</sup>stems, Applications, and Technology (LISAT) Conference features three paralel professional tracks: S<sup>y</sup>stems, Applications, and Technology, and an Exhibit Hal. 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 business.

Preliminar<sup>y</sup> 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 manuscript (in MS Word format) for publication in the Conference Proceedings and in IEEE Xplore, and wil be required to make a power point presentation at the conference. Manuscripts are subject to LISAT review and may require revision prior to final acceptance. Important dates for the Technical Program are:

Oct 31,	2008:	Abstracts due (300-to-500 words)
Nov 15,	2008:	Notification of accepted abstracts
Nov 30,	2008:	Biographies of authors and ½-page presentation outlines due
Jan 15,	2009:	Manuscripts for publication (MS Word) and cop <sup>y</sup> right releases due
Jan 30,	2009:	Notification of final acceptance of manuscripts
Feb 20,	2009:	Presenter Registration Fee due
Apr 1,	2009:	Power Point slide presentation due
May 1,	2009:	LISAT2009 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](mailto:LISATprogram@ieee.org). For detailed instructions on submission, for manuscript and presentation templates, and for more information on the conference, go to 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 40-minute presentation at the conference folowed by 10 minutes of Q&A. One presenting author will be allowed to register at the discounted rate of \$75. A Conference Proceedings on CD-ROM wil be given to each attendee. A limited number of 20-minute and 100-minute applications oriented and/or mini-tutorial presentations (having 5 and 20 minute Q&A, respectively) may be accepted

While LISAT welcomes a wide variet<sup>y</sup> of papers in s<sup>y</sup>stems, applications, and technolog<sup>y</sup>, some examples of topics of particular interest are: Homeland Defense, Alternate Ener<sup>gy</sup> Sources, Green Buildin<sup>g</sup> Technolo<sup>gies</sup>, Mobile Communications, Microwave Technology, Electromagnetic Compatibility, Mobile Ad Hoc Networking, Network Security, Sensor Fusion, Antenna S<sup>y</sup>stems and Processin<sup>g</sup>, Radio Locationing, Radar S<sup>y</sup>stems and Techniques, and Medical Electronics.

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