THE PULSE OF LONG ISLAND IEEE

Chair's message by Bill DeAgro, wdeagro.ieee@hotmail.com

I hope everyone has had an enjoyable summer. I welcome everyone back from their vacations and also welcome our Executive Committee (EXCOM) back from their two month sabbatical. In addition, I welcome the new attendees to our upcoming September 15 Executive Committee meeting. This year has been a year of building the Long Island Section. With this, in future years our goal is to take on a stronger presence here on Long Island. This all begins with volunteerism which has been a strong part of our growth. I'm proud to announce and welcome Michael Joseph Co this month as a new Volunteer to EXCOM supporting both Student Development/Activities and Graduates of the Last Decade (GOLD). Mike is a recent graduate of Stony Brook University and is currently an engineer for Parker Hannifin. I'm also proud to announce and thank Nick Golas of Telephonics Corporation in taking on the role of Membership Development Chairman for Long Island. Nick has been a very important asset to us and I welcome Nick to this new additional and very important challenge.

At our upcoming meeting we will have many new interested individuals attending and more than a full Agenda that needs accommodating. As a result, we plan to only partially follow the typical EXCOM agenda. We will cover briefly several high profile topics such as Off-Shoring, Student Activities/Development in addition to our other topics such as the Long Island Systems Applications & Technology (LISAT) Conference, the Awards Banquet dinner and the IEEE Regional and National meetings. Please consider volunteering and joining us to all that's happening in the IEEE, to be a more hands-on person, to network with your colleagues and to help us move forward in becoming an even better organization. If you are interest in volunteering, please don't hesitate to contact me or any of our other executives via our *Long Island IEEE we b page* at*: www.IEEE.LI (I suggest you peruse our "Activity/Affinity Chairs", "Society Chapter Chairs" and "Section Officers" areas at the top right of our webpage to see if something interests you or simply suggest a new area to us that you may have interest in volunteering. For all our current positions, we can use Vice Chairs, 2nd Vice Chairs and some Chairs.)*

At our September 15 meeting, I welcome K. Wendy Tang, Associate Engineering Professor of Stony Brook who will be participating to discuss how we can better help and serve the Student members from an administrative point of view. We will also have the IEEE Regional and IEEE USA executives, Lou Luceri and Victor Zourides**,** whom I welcome to discuss briefly Global and Regional issues including Off-Shoring. Subsequent longer meetings for these topics are expected to follow which we will keep you up to date on.

I attended with some of our EXCOM associates the IEEE Region 1 meeting in Albany, NY from August 1-3. At this meeting there were many important lectures, and training for all participants. In addition, we contributed in the preparations for the upcoming Sections Congress meeting. The Sections Congress is an international meeting coordinated by the IEEE and occurs once every 3 years with members attending from every corner of the world. Some of the areas discussed at the Regional meeting included Leadership Development, Benefits and Increased Focus on Younger Members, Public Awareness of Contributions to the Society by Engineers, a request by members to be allowed to join one technical society at no additional cost and more. These issues and problems will be proposed and discussed at the Sections Congress meeting September 19-22 in Quebec City, Canada.

- William C. DeAgro, Chair, IEEE Long Island

Contents:

The 2008 IEEE Annual Election is open through Wednesday, 1 October 2008, 12:00 PM Central Time USA (17:00 GMT).

According to our records, you have not yet voted in this year's Annual Election.

To cast your vote, please login to the IEEE Election Website at https://www.directvote.net/ieee/. You may use your IEEE Web Account username and password, or the Control Number and E-Signature located on your paper ballot.

The Candidates Biographies Booklet is available in PDF at http://www.ieee.org/portal/cms_docs_iportals/iportals/aboutus/corporate/election/2008_Bio_Book.pdf. If you access your ballot electronically, after you have authenticated access, the candidate biographical information will be available to you.

For technical support call +1 952 974 2339 or mailto:ieee@directvote.net. Other questions regarding the annual election process should be sent to corp-election@ieee.org

This message is being sent on behalf of IEEE by the election vendor Survey and Ballot Systems, 7653 Anagram Drive, Eden Prairie, MN 55344, USA.

CALENDAR OF IEEE EVENTS

SEPTEMBER

11 – Instrumentation and Measurement
Topic: LabView and its Application. by Wei Lin
Topic: What's New in Labview 8.6. by Robert Berger
Telephonics, Farmingdale NY
Refreshments 5:30 pm, Lecture 6:00 pm

17 – Consultants Network and NY PACE
Topic: Acquiring Patent / Intellectual Property Protection for Electronic Circuits and Systems
Speaker: Steven Rubin
WolfBlock LLP, 250 Park Ave., New York NY

25 – Circuits and Systems Society
Subject: Fiber to the User; Broadband Networks
Speaker: Terrance McGarty
BAE Systems, Greenlawn NY
Refreshments 6:00 pm, Lecture 6:30 pm

OCTOBER

2 – MTT Society
Topic: Transistor and Amplifier Modeling Methods for Microwave Design
Speaker: Larry Dunleavy
NARDA L-3, Hauppauge NY
Refreshments 6:00 pm, Lecture 6:30 pm

7 - Long Island Consultants Network
Subject: TBA
Speaker: TBA
Briarcliff College-The Great Rom, Bethpage
Refershments 6:30 pm. Contact:John Dunn

16 - Instrumentation and Measurement
Topic: Selection Criteria for DC Power Supplies
Speaker: Blair Clements
Telephonics, Farmingdale, Long Island
Refreshments 6:00 pm, Lecture 6:30 pm

NOVEMBER

5 - Long Island Consultants Network
Subject: TBA
Speaker: TBA
Briarcliff College-The Great Rom, Bethpage
Refershments 6:30 pm. Contact:John Dunn

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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.

GOLD Long Island Section Affiliate

THE PULSE congratulates Michael Joseph Co who volunteered to support both **Student Development/Activities** and **Graduates of the Last Decade (GOLD).** Mike is a recent graduate of Stony Brook University and is currently an engineer for Parker Hannifin.

Message From the Legal Affairs Chairman Steven Rubin

Perhaps one of the more interesting cases from this summer relating to technology came from the copyright realm in *Cartoon Network, et al. v. CSC Holdings Inc. and Cablevisions Systems Corp.* The Court of Appeals decided whether implementation of a network-based digital video recorder (DVR) may infringe certain copyright protections. The plaintiffs in this case were the owners of the copyrights to certain movies and television programs. Cablevision had a limited license to those movies and television programs and was about to roll out a network-based DVR. In this system, the content would be sent to a buffer for approximately one second and, upon the request of the subscriber, could be stored in a hard drive at a Cablevision location. The storage of the information at Cablevision made these devices different from the standard "TIVO"-like DVRs that sit in a user's home. The content owners sued Cablevision for copyright infringement and the lower level district court awarded an injunction preventing Cablevision from implementing the network-based DVR. Cablevision appealed.

The Court of Appeals for the Second Circuit (the appellate court that hears appeals from New York) said that in order for there to be an infringing copy under the Copyright Act, the questionable work must be fixed in a tangible medium and that fixation must be sufficiently permanent so that it may be reproduced and it must be fixed for a period of more than a transitory duration. The court broke this down into two distinct requirements: an "embodiment" requirement and a "durational" requirement. Both of those requirements must be satisfied for there to be a copy and, therefore, an infringement. The court said that the embodiment requirement is easily satisfied if the program is stored in a memory.

The first question then was whether the storage in the buffer was more than a transitory duration. The court said it was not. As a consequence, the fixation requirement was not satisfied and there was no act of copyright infringement by Cablevision storing that data in the buffer. The next question of whether the storage on Cablevision's hard drives constituted an act of copyright infringement by Cablevision turned on who committed the volitional conduct; that is, who gave the order to make a copy. The court analogized the situation to a VCR in that Cablevision created a machine but it is the user who actually sends the request to make a copy. As it is clearly the users who make the copies and not Cablevision, there was no act of copyright infringement. Finally, a theory was proposed that the transmission of the data by Cablevision to users could constitute a public performance and, therefore, another violation of the Copyright Act. The court said this was not the case, as only one subscriber was available to decode the information and, therefore, it was not a public performance. The lower court's judgment against Cablevision was thus reversed and the injunction was vacated.

Please join me at my upcoming lecture on "Acquiring Patent/Intellectual Property Protection for Circuits and Systems" on Wednesday, September 17. This is similar to the lecture I delivered in June and will be held at my law firm, WolfBlock LLP, 250 Park Avenue, New York, New York.
https://ieeecommunities.org/ieee.ny?go=1854884

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 TO SUPPLY ARPDD ENHANCEMENTS TO THE AN/APS-147 RADAR FOR MH-60R MARITIME STRIKE HELICOPTERS

Griffon Corporation (NYSE:GFF) 7/14/2008 , announced today that Telephonics Corporation, its electronic information and communication systems subsidiary, received a $71.5M order from Lockheed Martin Systems Integration - Owego for development of increased capabilities and functional enhancements to the AN/APS-147 Multi-Mode Radar (MMR) and IFF Interrogator Systems for the U.S. Navy's MH-60R Maritime Strike Helicopters. The program, called Automatic Radar Periscope Detection and Discrimination (ARPDD), will develop a next-generation Telephonics AN/APS-147 multi-mode radar that will feature new capabilities to detect very small, low visibility targets using advanced algorithms and additional hardware and software improvements. The contract is a follow-on to an existing $17.5M Navy development contract awarded to Telephonics in 2006.

"This is a very important enhancement to the already extremely capable AN/APS-147 MMR. ARPPD will bring unprecedented performance against these most difficult contacts and enable new mission capabilities in the Maritime Strike Helicopter," said Joseph J. Battaglia, President of Telephonics. "We are proud to be a part of this important program and look forward to continuing our support to Lockheed Martin and to the U.S. Navy."

Telephonics Radar Systems Division is a world leader in lightweight, high-performance, multi-mode maritime surveillance systems. In addition to the AN/APS-147, Telephonics produces the AN/APS-508 for the Canadian CP-140 Aurora aircraft, the APS-143C(V)3 for various U.S. and International operators including the U.S. Coast Guard, the RDR-1700B lightweight MMR now in service with the Japanese Coast Guard, and a range of search and rescue and weather radar for civil and military applications.

TELEPHONICS SUCCESSFULLY COMPLETES QUALIFICATION TESTING OF NETCOM-V, THEIR ADVANCED GROUND VEHICLE NETWORKED INTERCOMMUNICATION SYSTEM

6/23/2008 - Telephonics Corporation, a wholly owned subsidiary of the Griffon Corporation (NYSE:GFF), announced today that it has successfully completed all qualification testing of its NetCom-V™ networked intercommunication system. This completes the final major milestone in the NetCom-V development and allows the system to enter full scale production.

The qualification test profile, conducted by certified independent laboratories, included all environmental (Military Standard (MIL-STD 810F), electromagnetic interference (EMI) (MIL-STD 461) and TEMPEST (NSTISSAM 1/92) testing required for U.S. Army and U.S. Marine Corps (USMC) ground vehicles. The qualified Technology Readiness Level 8 (TRL 8) system is planned to move directly into full rate production.

"Throughout the numerous demonstration, qualification and customer evaluation activities completed over the past months, the NetCom-V system has proven that integrated wired and wireless intercommunications can fill existing, documented U.S. Army and USMC communications capability gaps," said Phil Nicholas, President of Telephonics' Communication Systems Division. "NetCom-V also brings capabilities that fit the requirements for the future Army and Marine Corps Joint Light Tactical Vehicle (JLTV) by unlocking the capabilities that future networked radios bring to the warfighter."

Fiber to the User; Broadband Networks

Speaker: Dr. Terrance McGarty ,Managing Partner, The Telmarc Group

Thursday September 25th at 6:30pm
(This seminar is free and all are invited. Refreshments will be served at 6pm.)

Who Should Attend?
Anyone interested in the basics of Fiber to the User Broadband Networks

Abstract:
This presentation is an overview of Fiber to the User (FTTU) systems and architectures. It provides an overview of the service requirements, the alternative architectures, the cost analysis and the legal and policy issues. It is a primer on understanding the networks and their options. The discussion goes through the various architectures and then applies them to specific situations demonstrating the issue related to deployment and operations. The presentation then discusses the cost factors associated with the build-out of such systems. There are detailed discussions related to capital plant for both common intra-structures and end user installs. The presentation also focuses on many of the hidden costs associated with such builds including franchise costs and fees and extensions of the builds required on a market by market basis. Finally the presentation discusses the comparison of FTTU and wireless options.

***Speaker Bio*:**
Dr. McGarty is the Managing Partner of the Telmarc Group LLC, which he founded in 1984, and which invests in and manages high tech start up ventures. Dr. McGarty has been active in the telecommunications industry for over thirty years. Most recently he was Chairman and CEO of Zephyr ommunications, the largest fiber network in Central Europe. He holds a Ph.D. from MIT in Electrical Engineering as well as two other degrees from the Institute and has also studied medicine in the joint Harvard/MIT program. He is the author of over 12 books and over 100 professional articles.

Location:
This lecture will be held at BAE Systems located at 450 Pulaski Road, Greenlawn, NY. The facility is located just east of Park Ave (Suffolk County Rte 35) on Pulaski Road. The presentation will begin at 6:30 PM. Pizza will be served starting at 6:00 PM. **Registrants must be US citizens.** Please enter from the main entrance facing Pulaski Road.

Registration:
To register please visit the calendar page of the IEEE Long Island Website, WWW.IEEE.LI ,

BAE SYSTEMS' NEW CHIEF EXECUTIVE TAKES THE HELM

London, United Kingdom, 01 Sep 2008 - Ian King today starts his new role as Chief Executive of BAE Systems, having previously held the position of Chief Operating Officer UK and Rest of World. Ian's appointment was announced in June 2008 following the conclusion of an international benchmarking succession process. BAE Systems' former Chief Executive, Mike Turner retired from the Company at the end of August.

On completion of the merger with Marconi in 1999, Ian was appointed to the position of Group Strategy and Planning Director and he was instrumental in developing the successful Group Strategy. From January 2007 Ian was Chief Operating Officer, with responsibility for the Group's UK and Rest of World businesses, and a Director of the Company.

Ian King, Chief Executive, BAE Systems plc, said: "I have inherited a quality business, based on a strong, well balanced portfolio. Combining this with our focus on business conduct will give us the confidence to continue to deliver shareholder value in line with our long-term plans.

"Our focus on delivering growth in our home markets will continue and we will look to establish to similar industrial presence in additional markets such as India. Wherever possible we will extend long-term partnering relationships with our customers which will be increasingly important to the future and stability of our business globally.

"I am honoured to be given the opportunity to lead the next stage of BAE Systems' development and look forward to the challenge."

HONEYWELL EXTENDS ITS OFFERING WITH NEW WIRELESS CO DETECTOR FOR SECURITY INSTALLATIONS

MELVILLE, NY, August 10, 2008 – Honeywell (NYSE: HON) today announced the release of the 5800CO Wireless Carbon Monoxide Detector. The newest member of Honeywell's popular 5800 Series family of wireless devices gives dealers the ability to help protect their customers against the deadly threat of carbon monoxide with a system-monitored detector. The detector can be easily added to each installation—increasing sales and the potential for greater recurring RMR.

The 5800CO provides several benefits not found in non-monitored detectors. It connects directly to the end-user's security system and can be monitored 24 hours a day, seven days a week—providing an added level of protection and peace of mind. Electrochemical sensing technology measures carbon monoxide levels over time—taking readings from low levels that may be hazardous over long periods to concentrations that present an immediate danger.

The 5800CO is designed to sound a warning alarm well before the carbon monoxide reaches fatal levels—giving the occupants time to safely evacuate the premises. Should concentrations hit dangerous levels, the end-user will be notified by the detector, control panel and monitoring station.

A built-in piezoelectric sounder will also alert the end-user to conditions such as low-battery, detector trouble and end-of-life.

It is an ideal carbon monoxide detector for difficult-to-wire locations, applications where aesthetics are critical or where hazardous materials exist.

The 5800CO is listed to UL standard 2075, with CO sensitivity evaluated to UL 2034.

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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 Colege
State University of New York - Farmingdale, NY

CALL FOR PAPERS, PRESENTATIONS, and EXHIBITORS

The Long Island Systems, Applications, and Technology (LISAT) Conference features three paralel professional tracks: Systems, 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.

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 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 copyright 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

Al 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 . 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 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: Dr. Fred Kruger at f.m.kruger@ieee.org.
For all other information contact LISA T2009 Conference Chair: Dr. Charles Rubenstein at c.rubenstein@ieee.org or Conference Vice Chair: Dave Mesecher at d.mesecher@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 Colege (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.