The IEEE Newsletter

◈ IEEE

PUBLICATION OF THE NORTH JERSEY SECTION OF THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS

North Jersey Spring 2008 Student Presentation Contest

The North Jersey Section held its Annual Spring Student Presentation Contest in March. Due to the dramatic increase in participants, the Contest was expanded to two dates this year. The Undergraduate Contest was held on Tuesday, March 25; whereas, the Graduate Contest was held on Thursday, March 27. The presentations were conducted at the Metropolitan Campus of Fairleigh Dickinson University (FDU) in Teaneck, NJ.

The main focus of the Student Presentation Contest is to give students an opportunity to sharpen their communication skills, and help prepare for real life situations as practicing engineers and researchers. Additionally, the North Jersey Section contest provides an excellent chance for students to practice for the Region I Student Paper Contest, which will be held this year at FDU on April 26, 2008. The contest at the North Jersey Section level is also supplemented by awarding cash prizes to the three best presentations in both Undergraduate and Graduate categories. The first, second and third place winners in each category won $100, $75 and $50 respectively. All engineering students were encouraged to participate in submitting team or individual presentations on any project work related to engineering. This local contest does not require students to write a full paper; a slide-based presentation on technical or non-technical work is sufficient. Senior design projects, lab projects, personal engineering hobbies, engineering policy etc. are typical topics. Moving onto the regional contest requires submitting a short written paper.

We would like to thank Professor Gloria Reinish of FDU for hosting the North Jersey Spring 2008 Student Presentation Contest. We also want to congratulate the winners:

Undergraduate
- ➢ *First Place:* Yaw Ohemeng-Dapaah, Fairleigh Dickinson University (FDU)
- ➢ *Second Place:* Chetarth Sharma, Fairleigh Dickinson University (FDU)
- ➢ *Third Place:* Stephen Ellis, Fairleigh Dickinson University (FDU)

Graduate
- ➢ *First Place:* Zhe (Wendy) Wang, New Jersey Institute of Technology (NJIT)
- ➢ *Second Place (Tie):* Pranesh Shah, Fairleigh Dickinson University (FDU), Renita Machado, New Jersey Institute of Technology (NJIT)

Industry Liaison Chair Position Open for North Jersey Section

The North Jersey Section is seeking new volunteers to help conduct business for the benefit of it membership. There are a variety of positions open and available. My name is Russell Pepe. I was the Industry Liaison for the North Jersey Section for several years. I recently took on two positions, as Secretary and Student Activities Committee Chair. I am seeking my replacement as Industry Liaison. The main function for the IEEE Industry Liaison is to foster collaboration with industry.

For more information, please feel free to contact Russell Pepe at rpepe@att.net; or visit the North Jersey Section website at http://web.njit.edu/~ieeenj/. We also encourage you to join us at the monthly North Jersey Business Meeting, held during he first Wednesday of each month at 7:00 PM (free buffet dinner served at 6:00 PM).

Reminder: The June Newsletter will be electronic only. If you have a valid email address on record, you will receive a Newsletter web-update notice via email. To update your email address, go to

http://www.ieee.org/membership

click on "My Account" followed by "Change EMail Address"
As always, that latest meeting updates can be found on the North Jersey webpage

http://web.njit.edu/~ieeenj/

MAY 2008

NEWSLETTER STAFF

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Deadline for receipt of material is the 1st of the month preceding the month of publication. All communications concerning editorial and business matters, including advertising, should be sent to the Business Manager via e-mail at *k.saracinello@ieee.org* or to *The IEEE Newsletter, c/o Keith Saracinello, 25 Messenger Ln, Ringoes, NJ 08551*, (302) 683-7162.

IEEE NJ SECTION HOME PAGE
http://web.njit.edu/~ieeenj/
IEEE NJ SECTION NEWSLETTER HOME PAGE
http://web.njit.edu/~ieeenj/NEWSLETTER.html

REPORT ADDRESS CHANGES TO:
IEEE Service Center, 445 Hoes Lane, P.O. Box 1331, Piscataway, NJ 08855-1331, (732) 981-0060. It is not necessary to inform the North Jersey Section when you change your mailing address. "The IEEE Newsletter" and other section mailings use a list provided by IEEE's national headquarters.

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Members-at-Large:
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Seth Jakel (sgjakel@comcast.net)
Howard Leach (h.leach@ieee.org)

The North Jersey Section Executive Committee usually meets the first Wednesday (except holidays and December) of each month at 7:00 PM. Meetings are open to all members. For information on meeting agenda contact Secretary Russell Pepe at (201) 960-6796, rpepe@att.net.

NJ Computer Society & EMS Ch.:
Product Development Methodologies for Success!

On Thursday, May 29, 2008, the IEEE North Jersey Section Computer Society and Engineering Management Chapters will host a presentation titled "Product Development Methodologies for Success!" by Jerry Bellott..

About the Talk

Electrical Engineers can increase their ability to innovate, plan, and develop new products that succeed in the marketplace by increasing their knowledge of the corporate and market environments that they work in.

Product development methodologies enable engineers to successfully achieve their goals through appropriate planning of all phases of a project. "Product development methodologies for Success!" will empower you to:

- Position yourself to be innovative by planning continuing ed on current technologies, standards, and practices to fuel creative thinking.
- Position your company for success by using your creative potential to plan new products that address customer needs well.
- Improve product quality by addressing customer needs and expectations.
- Succeed at producing quality products on time by following a structured methodology to break the execution phase down into steps.
- Increase peer interaction to have fun and learn from others through formal and informal peer discussion and review.

In addition to learning structured methodology concepts, creative engineering professionals will gain perspectives on how businesses decide what design projects to develop and assign to engineering staff. In "Project Methodologies for Success!" you will learn:

- The roles of sales and marketing in identifying markets, potential customers, and possible new products that will meet customer needs if offered.
- The role of business planners in evaluating the engineering portfolio of a company to decide which products proposed by engineers and marketing managers to recommend to upper level management.
- Role of project managers to schedule and track how an organization prepares, designs, tests, and introduces a product to manufacture.
- The role of engineers to position themselves to be innovative and to produce quality products on time.

About the Speaker

Jerry Bellott is an electrical engineer with more than 20 years experience designing innovative products for the wireless, telecommunication, and computer industries at Bell Labs and other companies. Mr. Bellott currently serves as Vice Chair of the IEEE Princeton Chapter of the Signal Processing Society.

In 2000, Mr. Bellott served as senior systems engineer for then start-up ViaGate technologies, a company that designed a fiber and VDSL ATM switch that provides internet access, digital video, and remote VLAN access to up to 240 clients. The company was later purchased by DSL market innovator Tut Systems, Inc., which is now part of Motorola's broadband division. In 2004, Mr. Bellott co-designed a 64 MAC DSP circuit board using a MathStar IC which served as MathStar's primary customer IC demo and evaluation platform for nearly two years. MathStar DSP's contain 64 multiply/accumulate circuits that run at 1 gigahertz each.

Mr. Bellott is currently writing engineering documentation for a central New Jersey company that makes digital data acquisition and software defined radio products.

All Welcome!

You do not have to be a member of the IEEE to attend. Bring your friends and network during the free pre-meeting buffet starting at 6:00 PM.

Time: 7:00 PM, Thursday, May 29, 2008, pre-meeting buffet starting at 6:00 PM.
Place: Public Meeting Room, Morris County Library, 30 E. Hanover Ave., Whippany, NJ, (973) 285-6930.
Information: Seth Jakel (973) 731-1902, (973) 820-1865, sgjakel@comcast.net or Howard Leach (973) 540-1283, h.leach@ieee.org.

IEEE North Jersey Section Activities
May 2008

May 4 – "NJ Section Awards Reception" - 3:00 to 6:00 PM at the Birchwood Manor, 111 North Jefferson Rd, Whippany, NJ. Anne Giedlinski (973) 377-3175.

May 7 – "NJ Section Meeting", 6:30 PM, "Executive Committee Meeting" - 7:00 PM, ITT, 77 River Rd, Clifton, NJ. Russell Pepe at rpepe@att.net.

May 8 – "IEEE NJ-NY Co-Sponsors Professional Networking Mixer", North NJ/NY Section GOLD, WIE, PACE, CN, SAC Groups, 6:00 – 8:00 PM, Village Pourhouse (Vegas room), 64 Third Avenue (corner of 11th St), New York, NY. Contact northjerseygold@ieee "DOT" org for additional information.

May 14 – "Engineers Meet: Where Do We Go From Here?" by Kate Duncan, NJ PACE, GOLD, WIE, 6:30 – 9:00 PM, Clifton Memorial Library, 292 Piaget Ave, Clifton, NJ. Paul Ward, (973) 790-1625, PWard1130@aol.com, Richard F. Tax, (201) 664-6954, rftax@verizon.net.

May 16 – "Montclair High School Robotics Demonstration", 8:00 PM (coffee and desert at 7:30 PM), Union Congregational Church, 176 Cooper Ave, Montclair, NJ. Peter Donegan (973) 783-7998 (montclairengineer@yahoo.com), or go to http://www.montclairengineers.org/.

May 22 – "Why Consultants Fail and What You Can Do About It!" by Ed McCauley, NJ Consultants' Network, 7:30 PM, Aeroflex/KDI-Integrated Products, 60 S. Jefferson Rd, Whippany, NJ. Robert Walker (973) 728-0344 or www.TechnologyOnTap.org.

May 29 – "Product Development Methodologies for Success!" by Jerry Bellott, NJ Computer Chapter, 7:00 PM, Public Meeting Room, Morris County Library, 30 E. Hanover Ave., Whippany, NJ, (973) 285-6930. Seth Jakel (973) 731-1902, (973) 820-1865, sgjakel@comcast.net or Howard Leach (973) 540-1283, h.leach@ieee.org.

Upcoming Meetings

June 4 – "NJ Section Meeting", 6:30 PM, "Executive Committee Meeting" - 7:00 PM, ITT, 77 River Rd, Clifton, NJ. Russell Pepe at rpepe@att.net.

June 11 – "Engineers Meet: IEEE Section's Congress" by Roger K. Sullivan, NJ PACE, GOLD, WIE, 6:30 – 9:00 PM, Clifton Memorial Library, 292 Piaget Ave, Clifton, NJ. Paul Ward, (973) 790-1625, PWard1130@aol.com, Richard F. Tax, (201) 664-6954, rftax@verizon.net.

July 9 – "Engineers Meet: For a Members Social", NJ PACE, GOLD, WIE, 6:30 – 9:00 PM, Clifton Memorial Library, 292 Piaget Ave, Clifton, NJ. Paul Ward, (973) 790-1625, PWard1130@aol.com, Richard F. Tax, (201) 664-6954, rftax@verizon.net.

Aug. 13 – "Engineers Meet: State of IEEE and Proposed Improvements" with Dr. John Vig, NJ PACE, GOLD, WIE, 6:30 – 9:00 PM, Clifton Memorial Library, 292 Piaget Ave, Clifton, NJ. Paul Ward, (973) 790-1625, PWard1130@aol.com, Richard F. Tax, (201) 664-6954, rftax@verizon.net.

Oct. 2 – "2008 MTT/AP Symposium and Mini-Show" – MTT-S/AP-S Chapter, 9:00 AM - 4:30 PM, Hanover Manor, 16 Eagle Rock Avenue, E. Hanover, NJ. Kirit Dixit (201) 669-7599 (kdixit@ieee.org), Art Greenberg (973) 386-6673 (ahg1@alcatel-lucent.com), Har Dayal (973) 633-4618 (har.dayal@baesystems.com), or George Kannell (973) 386-4170 (gkk@gsinnovations.com).

Oct. 16 – "Life Grade Luncheon", Hamilton Park Conference Center, Florham Park, NJ. Complete details and registration form will appear in the September Newsletter.

Members and Non-Members Welcome
PLEASE POST

Engineers Meet:
Engineering Graduates - Where Do We Go From Here?

On Wednesday, May 14, 2008, the North Jersey Section Professional Activities Committee, Graduates of the Last Decade, and Women in Engineering will meet for a discussion on "Engineering Graduates - Where Do We Go From Here?" The moderator will be Kate Duncan, WIE Chair.

About the Meeting

Grads: 1, 2, 3 years and still no job. Engineering, especially EE and Computer Science employment in the US, have been in a recession since the telecom bust of 2002. It's easy to blame the usual suspects: outsourcing, hi tech immigration, the NSF, inflated shortage projections by government, industry and academia, low achievement in science and tech education. Some members detected shortcomings of the profession during the 1970's.

A review of the D,S & E High tech Recruiting Index covering their demand over a 30 year period.

http://www.aea.org/documents/tax/htri_file.pdf

As a current or recent graduate what is the correct career path? Is this the optimum career path for the future? What's the career path for the engineer of the future? Several grassroots groups have sprung up taking very different paths to attack the issue. Are some colleges rated poorly by major corporations? Can any of them be successful? What's the IEEE doing? Is there a Supply/Demand problem? Is your college equipped to meet the requirements of major corporations?

The engineering profession needs help if it's going to offer a viable career and profession. The old status quo will not work.

What do we do? Get political; get organized; make friends in high places; unionize. What's your opinion? It's time to come together to save the profession we love. We all need to get involved. Remember; "If you're not part of the solution; you're part of the problem!"

Bring your associates, friends and spouses.

About the Speaker

Open discussion with Kate Duncan WIE Chair as moderator. Everyone will have an opportunity to express their views and opinions about the profession, jobs and opportunities.

Paul Ward, will be available for the

PACE committee. Richard F. Tax will represent The American Engineering Association (AEA).

All Welcome!

Members and students from all professional societies and engineering disciplines are welcome. We now have attendees from IEEE, ASME, NSPE, ASCE and AEA. For information about these groups see:

www.aea.org
www.ieeeusa.org/policy/care/
www.ieeeusa.org
www.programmersguild.org
http://web.njit.edu/~ieeenj/
www.asme.org/sections/northjersey

CARE is the Congressional Advocacy Recruitment Effort. CARE is a voluntary network of IEEE members who are interested in public policy. To help go to www.ieeeusa.org/policy/care/.

Time: 6:30 PM to 9:00 PM, Wednesday, May 14, 2008. Refreshments will be served.
Place: Clifton Memorial Library, 292 Piaget Ave, Clifton, NJ, (973) 772-5500.
Information: Paul Ward, (973) 790-1625, PWard1130@aol.com, Richard F. Tax, (201) 664-6954, rftax@verizon.net.

Engineers Meet:
State of IEEE and Proposed Improvements

On Wednesday, August 13, 2008 the North Jersey Section Professional Activities Committee, Graduates of the Last Decade and Women in Engineering will host a meeting to discuss IEEE's present and future. Our guest speaker will be Dr. John Vig, 2008 IEEE President-Elect.

About the Meeting

The talk will consist of two parts:
1) "the state of the IEEE," i.e., a report on how IEEE is doing with respect to membership, conferences, publications, standards, finances, and other activities; what the major threats and opportunities are, and
2) what 2009 President-elect Vig would like to accomplish during his term in 2009. He has a long "to-do" list. However, his term is only one year, and the president's powers are limited. Nevertheless, he will discuss what he wishes to improve in IEEE, and ask the audience's advice about the prioritization of his goals.

Bring your associates, friends and spouses.

About the Speaker

John Vig was born in Hungary and came to the United States in 1957, where

he subsequently received the BS degree from the City College of New York and his PhD degree from Rutgers – The New Jersey State University.

He spent his professional career performing and leading R&D activities in Army research laboratories, where he developed high-stability resonators, oscillators, and sensors. He retired from his Army position in 2006, after 36 years of service (as a civilian scientist).

He has been serving as a technical advisor to several DARPA program mangers on programs ranging from micro- and nanoresonators to chip-scale atomic clocks and low-noise oscillators. He is currently working as a technical consultant with System Planning Corporation supporting selected DARPA program activities. He also serves on the Technical Advisory Board of a startup, SiTime Corp.

Dr. Vig is the author of more than 100 publications, including nine book chapters, and he holds 55 patents. He is an IEEE Fellow, and is the recipient of the IEEE Cady Award and the IEEE Sawyer Award. He has been the Distinguished Lecturer of the IEEE Ultrasonics, Ferroelectrics, and Frequency Control (UFFC) Society, and he has served as the president of this Society. Dr. Vig founded the IEEE Sensors Council and has served on the IEEE Board of Directors for three years. In 2005, he was IEEE Vice President for Technical Activities. He is currently serving as the 2008 IEEE President-elect, i.e., he will be IEEE President in 2009.

All Welcome!

Members and students from all professional societies and engineering disciplines are welcome. We now have attendees from IEEE, ASME, NSPE, ASCE and AEA. For information about these groups see:

www.aea.org
www.ieeeusa.org/policy/care/
www.ieeeusa.org
www.programmersguild.org
http://web.njit.edu/~ieeenj/
www.asme.org/sections/northjersey

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Information: Paul Ward, (973) 790-1625, PWard1130@aol.com, Richard F. Tax, (201) 664-6954, rftax@verizon.net.

Engineers Meet:
IEEE Section's Congress

On Wednesday, June 11, 2008 the North Jersey Section Professional Activities Committee, Graduates of the Last Decade, and Women in Engineering will meet for a discussion on "Sections Congress - An opportunity." The speaker will be Roger K. Sullivan, Past Region 1 Director and Member of the IEEE BoD.

About the Meeting

Considering Roger Sullivan's present position in Region 1 as the Sections Congress Coordinator, the topic will be Sections Congress - An opportunity. I think this will appeal to the PACE, GOLD & WIE attendees. Roger will talk about the status of appropriate recommendations from the last Section's Congress and about the Region 1 recommendation process for the Sections Congress in September 2008. These proposed recommendations from Region 1 will be discussed and prioritized at the Region 1 Summer meeting.

All Welcome!

Members and students from all professional societies and engineering disciplines are welcome. We now have attendees from IEEE, ASME, NSPE, ASCE and AEA. For information about these groups see:

www.aea.org
www.ieeeusa.org/policy/care/
www.ieeeusa.org
www.programmersguild.org
http://web.njit.edu/~ieeenj/
www.asme.org/sections/northjersey

CARE is the Congressional Advocacy Recruitment Effort. CARE is a voluntary network of IEEE members who are interested in public policy. To help go to www.ieeeusa.org/policy/care/.

Time: 6:30 PM to 9:00 PM, Wednesday, June 11, 2008. Refreshments will be served.
Place: Clifton Memorial Library, 292 Piaget Ave, Clifton, NJ, (973) 772-5500.
Information: Paul Ward, (973) 790-1625, PWard1130@aol.com, Richard F. Tax, (201) 664-6954, rftax@verizon.net.

Engineers Meet:
For a Members Social

On Wednesday, July 9, 2008 the North Jersey Section Professional Activities Committee, Graduates of the Last Decade, and Women in Engineering will meet for a Social, with pizza, soda & refreshments.

About the Meeting

This meeting is about getting members of the Section together for a light evening of discussion and hospitality. Learn more about the profession and business side of engineering. We can hold a brainstorming session to discuss future meetings and activities. This is a continuation of the PACE, GOLD, WIE joint meeting's and lively discussions. All are invited. We shall encourage North Jersey Section Ex-Com officers to attend. When they do, our Section membership will have an opportunity to meet with them on a first name basis.

Bring your associates, friends and spouses.

About the Speaker

Everyone will have an opportunity to express their views about the profession, jobs and opportunities.

All Welcome!

Members and students from all professional societies and engineering disciplines are welcome. We now have attendees from IEEE, ASME, NSPE, ASCE and AEA. For information about these groups see:

www.aea.org
www.ieeeusa.org/policy/care/
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www.programmersguild.org
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CARE is the Congressional Advocacy Recruitment Effort. CARE is a voluntary network of IEEE members who are interested in public policy. To help go to www.ieeeusa.org/policy/care/.

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Place: Clifton Memorial Library, 292 Piaget Ave, Clifton, NJ, (973) 772-5500.
Information: Paul Ward, (973) 790-1625, PWard1130@aol.com, Richard F. Tax, (201) 664-6954, rftax@verizon.net.

North Jersey Section Seeks Committee Chairs and Volunteers

The North Section is seeking new volunteers to help conduct business for the benefit of its membership. There are a variety of volunteer positions open and available. They range from technical to non-technical, leadership or just participatory. For Society Chapter Chairs, you must be a member of the corresponding IEEE Society.

If you would like to become involved with volunteering in some of these efforts or positions or just become more informed about what is happening at the North Jersey Section, please contact Dr. Chandra Gupta at c.gupta@ieee.org. You are welcome to attend the Section business meeting held the first Wednesday of every month to find out more and other volunteer activities that require some help.

Some committees needing volunteers include the following. Please contact the person indicated for additional information.

- Power Electronics Society Chapter Chair - contact c.gupta below.
- GOLD (Graduates of the Last Decade) Affinity Group Volunteers and Committee members needed - contact northjerseygold@ieee.org
- WIE (Women in Engineering) Affinity Group Volunteers and Committee members needed - contact kduncan@ieee.org

Additionally, if interested volunteers would like to get more general information about the Section, including a complete listing of all chapters and committees, visit the North Jersey Section website http://web.njit.edu/~ieeenj/, or contact Dr. Chandra Gupta at c.gupta@ieee.org.

Jerry Minter Featured in the Premier Oral History Video on IEEE.tv

By Howard Leach, Section Historian

In February of this year, Mr. Jerry B. Minter, the founder of our predecessor organization, the IRE Northern NJ Sub-Section in 1947, made history again by becoming the first individual to be featured in an Oral History Video on IEEE.tv. The actual oral history video taping took place on March 13th, 2007, at his company's location, the Components Corporation, Denville, NJ. Until that time, all of the oral historical recordings were audio only.

This first professional video taping of an oral history interview was arranged by Mary Ann Hoffman, Archival & Web Services Manager, and conducted by Dr. Michael N. Geselowitz, Director, both of the IEEE History Center, Rutgers University, New Brunswick, NJ.

To see where the first video taping occurred, see the first photo below showing the room at the Components Corporation, Denville, NJ. The second photo, used within the video, shows some of the attendees and demo equipment used by Jerry Minter to demo his patented Aircraft Collision Avoidance System at a Section meeting on December 13th, 2006.

To access the documentary on IEEE.tv, follow this link to the entry page:

http://www.ieee.org/web/membership/IEEEtv/about.html?WT.mc_id=hpwd_ieeetv

Then within the IEEE.tv Public Access™ window, scroll down to '**Oral History: Jerry Minter**' and click on the arrow. The documentary is just under 13 minutes in length.

Although the video is very good, there many historical facts in the oral history that are not included in the video. To review all of the historical content, first go to the Jerry B. Minter abstract at the following link.

http://www.ieee.org/web/aboutus/history_center/oral_history/abstracts/minterab.html

From here click on the 'Jerry B. Minter Oral History' link to get to the complete transcript of the interview. For a short summary biography on Jerry Minter's career, see the following, much of which is included in interview and the video.
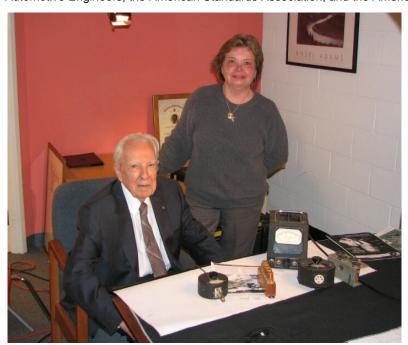
Bio on Jerry Minter

Jerry B. Minter was first employed in 1935 by the Boonton Radio Corporation, NJ, in the development of band-pass intermediate frequency transformers. In 1936 he was involved in the development of aircraft radio receivers at the Radio Frequency Laboratories of Boonton, NJ. During the later part of 1936 he was employed by the Ferris Instrument Corp., NJ, to take charge of several projects including development of a signal generator and a radio noise and field-strength meter.

In 1939, Mr. Minter and some of his associates from Ferris Instrument Corp organized the Measurements Corp of Boonton, NJ, where he became Vice President and Chief Engineer. After much success with design and production of test equipment, the stockholders decided to sell the Measurements Corp. to the Edison Company in 1953. At that time, he had a number of conversations with Charles Edison about his father, Thomas Edison, and dined in the dining room of Edison's West Orange Laboratory before it was turned over to the National Park Service as a National Historic Site.

In 1954, Mr. Minter bought the Components Corp. and entered into the audio business where he developed a series of special test records. In the 1960's, the company designed and built miniature high voltage power supplies for use in high altitude probes for NASA. They also developed a high-reliability edgeboard connector called the "DigiKlip" that was used commercially in the Univac 1108, DC-10, as well as in space and military programs.

Mr. Minter also worked on video systems, one within a hospital area to reduce RF interference. In another medical project , he modified VCR's to reduce their startup time in medical facilities within NYC. His most recent technical innovation is a passive collision warning system for small aircraft. Jerry Minter holds 26 patents of which the last six are on his aircraft collision avoidance system.

He received a BS in EE from MIT in 1934. In 1947, he organized and chaired the first Northern New Jersey Subsection of the Institute of Radio Engineers (IRE). Jerry B. Minter was named a Fellow of the IEEE in 1969, and he became a Life Fellow of the IEEE in 1979. Jerry Minter is a Fellow and past President of the Radio Club of America. He is also a past President of the Audio Engineering Society and has held memberships in the Radio Electronic Television Manufacturing Association, the Society of Automotive Engineers, the American Standards Association, and the American Society of Metals.

On March 13th, 2007, Jerry B. Minter with Mary Ann Hoffman are shown just after the first oral history video taping at the Components Corporation, Denville, NJ, of which Jerry Minter is President. Shown in the foreground is a grid dip meter that was engineered and produced in volume by the Measurements Corporation.

On Dec 13th, 2006, at a Section meeting, Jerry B. Minter gave a talk and demonstration of his patented Aircraft Collision Avoidance System. Shown from left to right are members of the Lone Eagle Composite Squadron of the Civil Air Patrol, Peapack-Gladstone, NJ, with Jerry B. Minter, Capt. Will McLain V, Squadron Commander, and Dr. Naresh Chand, the IEEE North Jersey Aerospace & Electronics Systems Chairman on the right. This photo is shown at about 8 minutes and 47 seconds into the video.

IEEE NJ-NY Co-Sponsors Professional Networking Mixer

The IEEE North NJ/NY Section GOLD, WIE, PACE, CN, SAC Groups is co-sponsoring a professional networking mixer event on Thursday, May 8, 2008.

The event is totally free, only registration is required. Interested participants can register via the webform located on the North Jersey GOLD website http://ewh.ieee.org/r1/north_jersey/gold For any additional questions or issue, contact the chair at northjerseygold@ ieee.org.

Take this opportunity to meet IEEE section officers, find out about the different active section IEEE societies, investigate volunteer opportunities, and mingle with local professionals in various fields. There will also be raffles & speed networking - so bring plenty of business cards and you can win a prize! Hors dhoerves will be provided and other local engineering professionals & society members are always welcome. Invite your peers!

Time: 6:00 – 8:00 PM, Thursday, May 8, 2008.
Place: Village Pourhouse (Vegas room), 64 Third Avenue (corner of 11th St), New York, NY.
Information: northjerseygold@ieee.org.

Montclair Society of Engineers:
Montclair High School Robotics Team to Demonstrate Robots

On Friday, May 16, 2008, the Montclair Society of Engineers is hosting its annual Montclair High School (MHS) Robotics team demonstration.
About the Demonstration
The MHS Robotic Teams entered two Robots in various *FIRST* (For Inspiration and Recognition of Science and Technology) competitions held throughout the year. The students will give a presentation followed by a demonstration of the Robots.
About the Speakers
MHS Robotics is divided into two teams. The students designed, programmed and fabricated the Robots themselves. Team 555 won the Colorado Regional last year.

The two teams are the eight year old coed, Team 555 and the all female Team 1929.

About the Montclair Society of Engineers
The Montclair Society of Engineers is an active organization of men and women engaged in all disciplines of the engineering and scientific professions. The society was founded in 1924 to promote friendly associations among engineers, to contribute professional knowledge and experience to the solution of community problems, and to assist students in the study of engineering and allied sciences. It is not affiliated with the IEEE.
All Welcome!
You do not have to be a member of the Montclair Society of Engineers or the IEEE to attend.

Time: 8:00 PM, Friday, May 16, 2008.
Place: Union Congregational Church, 176 Cooper Ave, Montclair, NJ. Directions are available at http://www.montclairengineers.org/.
Information: Peter Donegan (973)783-7998 (montclairengineer@yahoo.com), http://www.montclairengineers.org/.

Why Consultants Fail and What You Can Do About It!

On Thursday, May 22, 2008, the IEEE Consultants' Network of Northern NJ (www.technologyontap.org) will feature a presentation titled "Why Consultants Fail and What You Can Do About It!." The speaker will be Ed McCauley.

About the Topic

How many times have you or a colleague faced these frustrating situations?

- Prospects fail to understand the value you bring
- Prospects hide after you spend days preparing detailed proposals
- You have to cut prices to get the contract
- The selling cycles getting longer rather than shorter
- Prospects stalling with excuses and "think-it-overs."

Why do these things keep happening and what you can do to prevent them from continuing?

Join Ed McCauley for an eye-opening look at the deficiencies of traditional selling that make the sales process ineffective and demeaning. Learn honest, no-nonsense approaches to selling that challenge long-held sales beliefs, and place the power and control of the selling process in your hands.

During this briefing you will discover:

- How the traditional "buyer/seller dance" turns you into an unpaid consultant
- Why traditional approaches lead to price-cutting
- Why you may be busy selling, but sales remain low
  You will learn how to:
- Differentiate yourself in the first 15 seconds
- Stop the unpaid consulting
- Handle prospects that want to think it over
- Uncover why people really buy
- Actually ENJOY the sales process!

About the Speaker

For 19 years, Ed McCauley has been President of Bottom Line Technologies Inc. (BLT) providing:

- Design services - working closely with their clients, BLT designs FPGA, board, and complete system solutions.
- Technical training - BLT is Xilinx's exclusive authorized training partner from New York State Through Virginia.
- Sales and management training and coaching - BLT specializes in training

salespeople and management of companies selling to technical customers.

Ed began his career at Datatel, a datacom startup that grew from 3 to 300 people and a private acquisition. Next he joined then venture funded start-up "Xilinx" as an original member of their field sales team covering the northeastern US. After Xilinx's IPO, he left to start BLT. Ed is an alumnus of The U.S. Naval Academy, Rutgers and Drexel Universities, a longtime member of CNNNJ, and can be contacted at (908) 479-1200 or via email: ed.mccauley@ bltinc.com.

About the Consultants' Network

Founded in 1992, the IEEE Consultants Network of Northern NJ encourages and promotes the use of independent technical consultants by business and industry.

All Welcome!

Everyone welcome. No registration needed. Free admission.

Time: 7:30 PM, Thursday, May 22, 2008.
Place: Aeroflex/KDI-Integrated Products, 60 S. Jefferson Rd, Whippany, NJ. (Entrance at rear of building).
Information: For directions and up-to-date meeting status, call Robert Walker (973) 728-0344 or visit our website at www.TechnologyOnTap.org. To download a map to KDI, go to: http://www.mcekdi-integrated.com/ directions.htm.

President's Science Adviser to Address IEEE International Homeland Security Conference

Washington (17 March 2008) - Dr. John Marburger, science adviser to President Bush, will be the keynote speaker at the 2008 IEEE International Conference on Technologies for Homeland Security.

The eighth-annual conference is scheduled for 12-13 May at the Westin Hotel in Waltham, Mass. For more information and to register, go to http://www.ieeehomelandsecurityconference.org/.

The National Science and Technology Council, Nuclear Defense Research and Development Subcommittee, calls the conference "the key homeland security conference in 2008 to share the U.S. nuclear defense research and development roadmap with the global technology innovation community."

Marburger, director of the Office of Science and Technology, came to the Executive Office of the President after serving as director of the Brookhaven National Laboratory in Upton, NY. He was president of the State University of New York at Stony Brook from 1980-84, and before that a professor of physics and electrical engineering at the University of Southern California. While at the Los Angeles school, he developed theory for various laser phenomena and co-founded USC's Center for Laser Studies.

General themes of the conference are:

- Transportation security focused on chemical, biological and high explosives, with special sessions on radiological and nuclear areas
- Infrastructure protection and cyber security, with emphasis on protecting the financial sector, communications and electric power networks, and focusing on threats to the chemical and refinery sectors
- Information sharing, interoperability and incident management technologies, high-level risk assessment and supporting technologies of modeling and simulation, emphasizing tools development
- Software assurance focused on software development, testing, legacy systems and infrastructure

The U.S. Department of Homeland Security (DHS), Science and Technology (S&T) Directorate, is providing technical assistance to support the conference. Robert Hooks, Director of Transition, DHS S&T Directorate, is the featured speaker and participated in the technical paper review committee.

About 200 selected technical papers from around the world will be featured, and more than 500 technology experts are expected to attend.

The conference is organized by the IEEE Boston Section and IEEE-USA.

Industry sponsors include Massport, SAIC, Raytheon, Qwest, PSSG and ARES.

IEEE-USA advances the public good and promotes the careers and public policy interests of more than 215,000 engineers, scientists and allied professionals who are U.S. members of the IEEE. IEEE-USA is part of the IEEE, the world's largest technical professional society with 370,000 members in 160 countries. See http://www.ieeeusa.org.

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Air Transportation Experts to Discuss RFID's Impact on Security and Efficiency at 2008 IEEE RFID Conference

Washington (14 April 2008) - Video poker machines aren't the only high-tech applications in casinos. Radio Frequency Identification (RFID) technology is becoming increasingly more widespread in the gaming industry.

"RFID in Casinos" will be examined at a luncheon panel -- Thursday 17 April from noon to 1:30 -- during the second IEEE International Conference on RFID (IEEE RFID 2008) at Las Vegas' Venetian Resort-Hotel-Casino, 16-17 April.

"Through wireless communications, RFID can provide real-time visibility to casino management in tracking people and high-value products," said panel moderator Harry Pappas, president and CEO of the International RFID Business Association.

"If a million dollars worth of casino chips or coins are being moved across a facility, management wants to know its status at any given time, who's pushing the cage and where it is in the facility."

"RFID in Casinos" panelists include Jim Grubbs, security supervisor and training coordinator at Caesars Palace; Jeff Markman, president of Positek RFID; and John M. Kendall, president and CEO of CHIPCO International.

Kendall said his company, a leading maker of gaming chips, has been working with RFID for more than 15 years. It has integrated RFID into chips to help stop counterfeiting and theft and provide functional data. His presentation will describe how to evaluate RFID technology, illustrate radio frequency choices based on application, and provide guidance in developing a return-on-investment formula for such new technology investments.

"We are successfully working with our technology system partners on player tracking, eliminating counterfeit chips, stopping employee theft, providing data collection on functional automation and validating player and employee performance," Kendall said.

An enabling technology, RFID uses tags and readers to transmit a unique number. The tags store information on a microchip connected to a radio antenna, while the readers emit radio waves that exchange signals with the tags.

Casinos are continually faced with the challenge of securing their operations. Grubbs, who works for one most successful casinos on the Las Vegas Strip, said the gaming industry is still implementing RFID.

"Even though it has been used to some extent in tracking gaming chips, the technology is really just starting to be implemented in other security applications," Grubbs said. "To some extent, we're still learning how to apply and sell the value of RFID to senior management.,

"But I have seen how well RFID proximity badging has worked in the corporate sector at The Boeing Company, and if it works for their top-secret areas, I'd like to use this technology and enhance our facility security."

Markman's Positek RFID company is a leading supplier of RFID-enabled sorting and tracking software to the textile rental industry. He said RFID technology in uniforms is widely employed in casinos.

"Because of the considerable cost of uniforms, the casino and hospitality industry have long been tracking items with bar codes," Markman said. "RFID eliminates the labor associated with tracking and provides for more accurate and up-to-date tracking."

Pappas, whose International RFID Business Association is focused on developing workplace standards for RFID education, training and certification, sees the value of RFID in gaming.

"RFID technologies are an ever-growing part of the casino hospitality industry worldwide," Pappas said. "This includes RFID tags embedded in casino chips to ward off counterfeiting; tracking high-value mobile assets, including expensive wines and liquor; monitoring linens and robes in hotel rooms and employee uniforms in the laundry; as well as controlling access to critical areas of the casino operations -- all under a closed-end loop environment."

IEEE RFID 2008 will address the technical and policy challenges of RFID technologies, examine job opportunities and feature 44 technical papers by leading academic and industrial researchers from around the world. The conference is co-located with RFID Journal Live! executive conference and exhibition (http://www.rfidjournalevents.com/live/).

For more information, see http://www.ieee-rfid.org/2008. You can register through partner RFID Journal Live! by going to http://www.rfidjournalevents.com/live/registration_options.php. Choose https://www.one-stop-registration.com/rfidlive/OSR.Index.

IEEE-USA and the IEEE TAB New Technology Directions Committee (http://www.ieee.org/web/volunteers/tab/tab_507.html) are financial co-sponsors for IEEE RFID 2008. IEEE-USA President Russ Lefevre chairs the committee.

IEEE RFID 2008 is funded in part by a U.S. Army Research Office grant of $5,000, which represents seven percent of the total estimated cost of the conference.

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THE INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS, INC.

IEEE NORTH JERSEY SECTION
MTT-Society and AP-Society Joint Chapter

PRESENT

23rd ANNUAL SYMPOSIUM AND MINI-SHOW

FOCUS: SELECTED TOPICS IN MICROWAVE TECHNOLOGIES FOR COMMERCIAL AND MILITARY APPLICATIONS

Thursday, October 2, 2008
Hanover Manor
16 Eagle Rock Avenue, E. Hanover, NJ 07936 (Phone # 973-992-7425)

SCHEDULE OF EVENTS

9:00 AM TO 4:30 PM

TECHNICAL SESSIONS

10 –12 LECTURES FEATURING SPEAKERS FROM LEADING COMPANIES, WITH EMPHASIS ON MILITARY ELECTRONICS, WIRELESS TECHNOLOGIES AND MICROWAVE COMMUNICATIONS

MINI SHOW FEATURING LATEST PRODUCTS
(APPX. 30-40 EXHIBITORS)

(COMPLIMENTARY LUNCH SERVED)

Details of the schedule, speakers and topics can also be found at the IEEE North Jersey Section Newsletter webpage:

http://web.njit.edu/~ieeenj/NEWSLETTER.html

For further information contact:

Chair/Exhibition: Kirit Dixit (201-669-7599), kdixit@ieee.org
Publicity: Arthur Greenberg (973-386-6673), ahg1@alcatel-lucent.com
Event/ Location Co-Ordinator: Ken Oexle (973-386-1156)
Co-Chair– Technical Program: Har Dayal (973-633-4618), har.dayal@baesystems.com
Co-Chair -Technical Program: George Kannell (973-437-9990), gkk@lgsinnovations.com

THERE IS NO CHARGE TO ATTEND THE SYMPOSIUM OR SHOW

LISAT *2008*

Fourth Annual IEEE Long Island Systems, Applications and Technology Conference
Friday, May 2, 2008
The Institute for Research & Technology Transfer at Farmingdale State College
State University of New York - Farmingdale, NY

Extended CALL FOR PAPERS, PRESENTATIONS and EXHIBITORS

Last year's successful conference featured contributed papers that were presented in three parallel professional tracks: Systems, Applications, and Technology with a fourth track consisting of Region 1 award-winning graduate student presentations and a 35 booth Exhibit Hall. Technical papers describing research development and application on a broad range of electronic and electrical engineering topics are now solicited for LISAT2008. **Applied research and practitioner submissions will also be considered. No formal paper is required for these submissions.**

The deadline for abstract submissions has been extended to Feb 22.
You will be notified of acceptance by Feb 29.
All papers being included in IEEE Xplore are due by March 24.
All Power Point presentations are due by April 14.

All submissions must include the author's full names, affiliations, mailing addresses, phone numbers, and email address. In addition, a 300-to-500 word abstract, a 1/3-page biography of the presenting author, and an outline of the conference presentation must be submitted. Submissions should be emailed to the LISAT Technical Program Co-Chairmen, Dave Mesecher at **d.mesecher@ieee.org** and Daniel Rogers at **drogers@ieee.org**, as well as Jesse Taub, Technical Program Consultant, at **jjtaub@aol.com** (Please copy David Weiss **daweiss@ieee.org** on all Alternate Energy themed papers.) 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/**

Papers and presentations will be accepted based on their originality, content, clarity, and interest to IEEE members. At least one author of *each* paper/presentation must register for the Conference and will be expected to provide a 40-minute PowerPoint presentation at the conference followed by 10 minutes of Q&A. *The presenting author will be allowed to register at the discounted rate of $75.* Presented papers will become part of the IEEE Xplore database. Selected papers will receive CEU credit and the Conference Proceedings on CD-ROM will be given to each attendee.

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, Satellite Communications, Mobile Communications, RF ID Tag Technology, Microwave Technology, Electromagnetic Compatibility, Mobile Ad Hoc Networking, Multi-level Network Security, Sensor Fusion, New Electrical Power Sources, Antenna Systems and Processing, Radio Locationing, Radar Systems and Techniques, Wireless Technologies, Distributed Computing, 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 LISAT2008 Conference Chair: Dr. Charles Rubenstein at **c.rubenstein@ieee.org** or Conference Co-Chair: Dr. Babak Beheshti at **b.beheshti@ieee.org,** or go to **http://ewh.ieee.org/conf/lisat/

*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 **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 final manuscript of each accepted paper.*

IEEE AWARDS RECEPTION

North Jersey Section
May 4, 2008
Birchwood Manor, Whippany NJ

A time to relax, unwind and enjoy --
A time to pay tribute to our new Fellows --
A time to honor our Award Winners --
YES it's time for the Annual Section Reception

The Annual Section IEEE Awards Reception will be held at the Birchwood Manor, 111 North Jefferson Road, Whippany again this year. The affair is scheduled for **Sunday, May 4, 2008** from 3 to 6 PM. Tickets are $35.00 each. Spouses and guests are welcome. We are limited to 90 attendees, so please make your reservations early.

Reservations are required by April 24, 2008. Complete the reservation form and return it with your payment. If you would like tickets mailed back to you, please enclose a self-addressed **stamped** envelope. Otherwise, your tickets will be held at the door for you. If any additional information is required concerning the reception, contact Anne Giedlinski at (973) 377-3175.

Use this form for Reception reservations. **ENCLOSE A SELF-ADDRESSED STAMPED ENVELOPE to receive tickets in advance. Reservations are required by April 24, 2008.** Mail reservation request to:

> Anne Giedlinski
> 299 Brooklake Road
> Florham Park, NJ 07932

Enclosed is _____ for _____ ticket(s) at $35.00 each (make check payable to **North Jersey Section IEEE**) for:

NAME: _____

ADDRESS: _____

_____

☐ Yes, please send me directions to the Birchwood Manor