

The



IEEE Newsletter

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

NJ Section PACE, GOLD:

Engineers Meet:

New Directions at IEEE

On Wednesday, May 9, 2007, the NJ Section Professional Activities Committee and Graduates of the Last Decade will host a meeting to discuss IEEE's future. Our guest speaker will be Lewis M. Terman, 2007 IEEE President-Elect.

About the Meeting

The talk will introduce members to the new directions at IEEE by our future IEEE President.

The IEEE has been very successful. It is the world's largest technical professional society, with 375K members in over 150 countries around the world, producing over 30% of the world's technical literature in the relevant fields of interest, and holding over 400 conferences worldwide. It has recovered dramatically from the downturn at the beginning of the decade.

But the IEEE exists in a very dynamic and competitive world. There are many challenges from competition to its services, major shifts occurring due to emerging economies such as China and India, the ubiquitousness of the internet and the resulting global communication, and the changing ways in which members of the technical community work. This talk will focus on the current position of the IEEE and the development of strategies to react to these challenges.

You are encouraged to attend and invite your associates.

About the Speaker

Lewis Terman received the BS in Physics and the MS and PhD degrees in EE from Stanford in 1956, 1958, and 1961 respectively. He joined the IBM Research Division in 1961, where he worked on solid-state circuits, semiconductor technology, memory design and technology, digital and analog circuits, and processor design. He did two tours of duty on the Research Division technical planning staff, 1979-1980 and 1991-1993. He was manager and senior manager of groups working in MOS logic and memory design and technology, and was involved in a number

of programs leading to products. He received nine major IBM technical awards, including three Corporate awards. He was elected to the IBM Academy of Technology in 1991, and served as president in 2001-2003. He became Associate Director, IBM Research Systems Department in 2003, and retired in 2006. He is a member of the US National Academy of Engineering.

Mr. Terman's IEEE activities include: S'58-M'61-SM'74-F'75-LF'97. His offices include IEEE Board of Directors, 2001, 2004-05; Division I Director, 2004-05.

Lewis Terman has a background too extensive to publish here. More on this can be found at

<http://www.ieee.org/portal/pages/about/execs/index.html#terman>

All Welcome!

Members and students from other professional societies and engineering disciplines are always welcome. We now include members from IEEE, ASME and AEA. For more information about these groups see:

www.aea.org
www.ieeeusa.org/policy/care/
www.ieeeusa.org,
www.programmersguild.org
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 to 9:00 PM, Wednesday, May 9, 2007. Refreshments will be served.

Place: Clifton Memorial Library, 292 Piaget Ave, Clifton, NJ, (973) 772-5500.

Information: Paul Ward, (973) 790-1625 (PWARD1130 "AT" aol.com) or Richard F. Tax, (201) 664-6954 (rfax "AT" verizon.net).

Employment: Imaging Product Design Engineer

Vision Research, a local design and manufacturer of very high speed digital cameras, is looking for qualified engineers to join its design team. Expertise in digital and analog design is essential. Digital imaging system design expertise is preferred. Apply confidentially to Dick Toftness; rtoftness "AT" visionresearch.com. Vision research is an EEO employer.

MAY 2007

May 2007

Volume 53, Number 11

Publication No: USPS 580-500

"The IEEE Newsletter" (North Jersey Section), is published monthly except June and July by The Institute of Electrical and Electronics Engineers, Inc. Headquarters: 3 Park Avenue, 17th Floor, New York, NY 10016-5997. \$1.00 per member per year (included in annual dues) for each member of the North Jersey Section. Periodicals-class postage paid at New York, NY and at additional mailing offices. Postmaster send address changes to: "The IEEE Newsletter", 445 Hoes Lane, P.O. Box 1331, Piscataway, NJ 08855-1331. USPS 580-500 (ISSN 1076-3732).

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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:

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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) 669-7599, rpepe "AT" att.net.

NJ Consultants' Network:

Web Marketing for the Independent Professional

On Thursday, May 24, 2007, the IEEE Consultants' Network of Northern NJ is pleased to present "Web Marketing for the Independent Professional", by Mike Moran.

About the Talk

It's not easy being a consultant. You must keep your clients happy. You have to keep up with your field of expertise. You must collect your bills. Who has the time or money for marketing?

Few successful consultants make it without some kind of marketing. In the old days, it was a good resume and who you knew, but today, you need a Web site—a good web site. And you need to know how to get attention for your web site. It may seem overwhelming or beyond your budget, but it doesn't have to be.

The good news about Web marketing is that it doesn't have to break your bank. Free or low-cost hosting of blogs, web sites, podcasts and videos give you ways to get your marketing message out. Search marketing takes some time, but not much money. Find out how to create a Web site that conveys the image you want and delivers the message prospective clients need to hear. Learn how Web marketing can set you apart among the sea of consultants looking for engagements.

Consultants' Network Member Presentation

During the second half of the meeting, Jim Boyd, Chairperson of the IEEE Consultants' Network of Northern NJ will be presenting a brief overview of his consulting practice.

Since founding XL Research Inc. in 1978, Jim Boyd (www.picconsult.com) has been designing microcontroller-based products for consumer and industrial applications. Jim has background in analog, digital and power design and has focused his consulting practice on PIC-based applications since becoming an Authorized Consultant for Microchip Technologies in 1998. He is also a Certified HiTech C Consultant and former Consulting Editor for Electronic Design magazine. (Contact: 973-584-0329, j.boyd@ieee.org).

About the Speaker

Mike Moran is an IBM Distinguished Engineer who has worked on the Web since its inception, including eight years at ibm.com where he most recently was Manager of Web User Experience. Mike is currently a Product Manager for OmniFind, IBM's enterprise search

product, and is an expert in search marketing—co-author of the best-selling book Search Engine Marketing, Inc., columnist for Revenue magazine and WebProNews. His new book on Internet marketing, Do It Wrong Quickly, will be available in September. Mike can be reached at his Web site (mikemor.com), which is also home to his Biznology newsletter and blog.

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 24, 2007.

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>.

Montclair Society of Engineers:

Montclair High School Robotics Team to Demonstrate Robots

The Montclair Society of Engineers is hosting its annual Montclair High School (MHS) Robotics team demonstration on Friday, May 18, 2007.

About the Demonstration

The MHS Robotic Teams entered two Robots various FIRST (For Inspiration and Recognition of Science and Technology) competitions held throughout the country. The Robots are programmed to go to a rack and hang an inner tube from it without any external control. Then they are divided up into teams for an exciting game of Rack and Roll, played under the remote control.

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.

The two teams are the seven year old coed, Judy and Josh Weston & Montclair Board of Education Team 555, winners of this years Colorado Regionals and all female Credit Suisse & Montclair Board of Education Team 1929, who won rookie honors last year in the Hartford Regional.

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 18, 2007. Coffee and desert will be served at 7:30 PM.

Place: Union Congregational Church,, 176 Cooper Ave, Montclair, NJ. . Directions are available at <http://www.montclairengineers.org/>

Information: Bob Chamberlin (973) 748-0385, Peter Donegan (973)783-7998 montclairengineer "AT" yahoo.com, <http://www.montclairengineers.org/>

NJ Computer and EMS Chapters:

Open Source Comes to Business Process Management

On Thursday, May 31, 2007, the NJ Section Chapters of the IEEE Computer Society and the IEEE Engineering Management Society will jointly host a presentation on "Open Source comes to Business Process Management" by Arthur J. Hedge III.

About the Talk

Business Process Management is a key enterprise software category that has emerged over the past several years. There are over 100 vendors that develop products in this market. BPM tools allow organizations to design, automate, and manage the activities of knowledge workers from within one platform. Several vendors have released open source versions of their BPM suites.

In this presentation, we will present a detailed description of the various software elements that together comprise a BPM solution. We will discuss the BPM market today and why several companies are developing open source BPM toolsets.

About the Speaker

Arthur J. Hedge III is President of Castle Ventures. He focuses on helping companies reduce costs and operate more effectively by improving their business processes. Mr. Hedge has over 20 years of consulting expertise, focused on large-scale application development. He is also a member of the AIIM Document Management standards committee. Mr. Hedge is a graduate of the Massachusetts Institute of Technology.

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 PM.

Time: 7:00 PM, Thursday, May 31, 2007. A free pre-meeting buffet will be available 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 [home], (973) 820-1865 [cell], or Howard Leach (973) 540-1283, (h.leach "AT" ieee.org).

IEEE North Jersey Section Activities May 2007

May 2 – "NJ Section Meeting", 6:30 PM, "Executive Committee Meeting" - 7:00 PM, ITT, 100 Kingsland Rd, Clifton, NJ. Russell Pepe at rpepe "AT" att.net.

May 6 – "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 9 – "Engineers Meet: New Directions at IEEE" - NJ PACE & GOLD, 6:30 – 9:00 PM, Clifton Memorial Library, 292 Piaget Ave, Clifton, NJ. Paul Ward, (973) 790-1625 (PWARD1130 "AT" aol.com) or Richard Tax, (201) 664-6954 (rftax "AT" verizon.net).

May 15 – "Spring 2007 Packaging Symposium" – registration 12:00 - 1:00 PM, papers from 1:00 - 5:30 PM, Lucent Technologies, Bell Laboratories, 600 Mountain Ave, Murray Hill, NJ. See <http://www.imaps-gs.org/> for details. Voya Markovich, voya.markovich "AT" eitny.com or (607) 755-1978.

May 18 – "Montclair High School Robotics Teams' Presentation", 8:00 PM (coffee and desert at 7:30 PM), Union Congregational Church, 176 Cooper Ave, Montclair, NJ. Bob Chamberlin (973) 748-0385, Peter Donegan (973) 783-7998 (montclairengineer "AT" yahoo.com), or go to <http://www.montclairengineers.org/>.

May 24 – "Web Marketing for the Independent Professional" by Mike Moran, 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 25 – "Mission Critical Power Technical Series - Paralleling Switchgear Seminar" by Ron Hilbert, NJ IAS/PES, 9:00 AM - 2:00 PM, PSE&G Training Center, 234 Pierson Ave, Edison NJ. Ronald W. Quade, PE, (732) 205-2614 or rwquade "AT" ieee.org.

May 31 – "Open Source Comes to Business Process Management" by Arthur J. Hedge III, NJ Computer and EMS Chapters, 7:00 PM, Public Meeting Room, Morris County Library, 30 E. Hanover Ave, Whippany, NJ. Seth Jakel - (973) 731 1902 – home, (973) 820-1865 – cell, or Howard Leach (973) 540-1283, (h.leach "AT" ieee.org).

Upcoming Meetings

June 6 – "NJ Section Meeting", 6:30 PM, "Executive Committee Meeting" - 7:00 PM, ITT, 100 Kingsland Rd, Clifton, NJ. Russell Pepe at rpepe "AT" att.net.

Members and Non-Members Welcome

PLEASE POST

North Jersey Section History – Made Again!

On March 13th, 2007, Mr. Jerry B. Minter, the founder of the predecessor organization to our North Jersey Section, the IRE Sub-Section of Northern New Jersey, made history again by becoming the first individual to be video taped for the History Center Archives. Until this time, the historical recordings were all oral. The video taping was arranged by Mary Ann Hoffman, Archival & Web Services Manager, and conducted by Dr. Michael N. Geselowitz, Director of the IEEE History Center, Rutgers-The State University, 39 Union Street, New Brunswick, NJ. See photos below.

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.



Jerry B. Minter with Mary Ann Hoffman, Archival and Web Services Manager, IEEE History Center. Shown in the foreground is a grid dip meter that was engineered and produced by the Measurements Corporation.



Jerry B. Minter, President, in his office at the Components Corp, Denville, NJ



Jerry B. Minter with his IEEE Fellow Award, dated January 1, 1969



Jerry B. Minter with Dr. Michael Geselowitz with a Model 90 Standard Signal Generator, for early TV production, in the background that was produced by the Measurements Corporation



Jerry B. Minter, President, Components Corporation, with Dr. Michael Geselowitz next to a production machine



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, and Dr. Naresh Chand, the IEEE North Jersey Aerospace & Electronics Systems Chairman. On December 13th, 2006, Jerry B. Minter gave a talk and demonstration of his patented Aircraft Collision Avoidance System.

I will transform technology into opportunity.

I am a PolyThinker.



Join us for an information session

Wednesday, May 16th 6-8 p.m.
Manhattan Graduate Center
55 Broad Street, New York, NY 10004

Thursday, May 31st 6-8 p.m.
How to finance your graduate education
Brooklyn Campus
Six MetroTech Center, Brooklyn, NY

Westchester Graduate Center
40 Saw Mill River Rd. Hawthorne, NY 10532

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Patent - Trademark - Copyright - Trade Secret

We are growing and in need of a Patent Agent or Patent Attorney. A strong background in communication systems is required. Hours are flexible. Resumes should be e-mailed to mail "AT" myerswolin.com.

Myers Wolin LLC assists clients in recognizing, defining, and protecting intellectual property and acting to preserve that property for full commercial exploitation. Our practice covers the spectrum of intellectual property services, including applying for protection, litigation, appeals, interferences, alternative dispute resolution, licensing, opinions, corporate transactions and due diligence.

NJ Power Engineering Society/Industry Applications Society
Mission Critical Power Technical Series
Paralleling Switchgear Seminar

The PES and IAS Chapters will sponsor a 3-month series of technical seminars on mission critical power. This third seminar will be on the topic of Paralleling Switchgear. The session will be held on Friday, May 25, 2007, at the PSE&G Training Center, 234 Pierson Avenue, Edison, NJ.

Topics

Generator Paralleling Switchgear

- ✓ Paralleling Switchgear Basics
- ✓ Emergency Generator Paralleling
- ✓ Closed Transition Transfers
- ✓ Redundant Engine Applications
- ✓ Reliability in Paralleling Switchgear Controls
- ✓ Horizontal Through Bus Density
- ✓ Differentiating UL 891 vs UL 1558 for Paralleling Switchgear
- ✓ Impact of NFPA 99 and 110 on Paralleling Switchgear

About the Instructor

The instructor will be Ron Hilbert. Ron is the Northeast Regional Sales Manager for Caterpillar Switchgear.

The registration fee for this seminar prior to May 11th will be \$150 for non-IEEE members, \$100 for IEEE Members, \$75 for GOLD Graduates (last 1-10 years) and \$25 for students with valid ID. The fee will be waived for IEEE Life Member Grades with verification at the seminar. Registrations after May 11th must include an additional late fee of \$25. The seminar fee includes lunch, refreshments and handouts. Non-members joining IEEE within 30 days of the seminar will be rebated 50% of the IEEE registration charge.

If desired, IEEE Continuing Education Units will be offered for this course - a small fee of \$25 will be required for processing. A total of 0.4 CEUs will be offered. Please indicate if desired below.

Time: 9:00 AM to 2:00 PM (lunch is included), Friday, May 25, 2007.
Place: PSE&G Training Center, 234 Pierson Avenue, Edison NJ
Directions: www.pseg.com/customer/business/small/facility/edison_directions.jsp
Information: Ronald W. Quade, PE, (732) 205-2614 or [rwquade "AT" ieee.org](mailto:rwquade@ieee.org)

Registration: Paralleling Switchgear Seminar 5/25/2007

Register via US mail to: Ronald W. Quade, PE
Eaton Electrical
379 Thornall St, 8th Floor
Edison, NJ 08837

Name _____

Address _____

Phone _____ Email _____

IEEE # _____ Student @ _____ Non IEEE _____ Life Member _____

Continuing Education Units: _____ Yes \$25 _____ No

If CEUs are chosen, please include a \$25 processing fee

Payment Enclosed \$ _____ Add \$25 late registration after May 11, 2007

Make checks payable to North Jersey Section IEEE (Credit Cards cannot be processed at this time).



LISAT2007

Third Annual IEEE Long Island Systems, Applications and Technology Conference

Friday, May 4, 2007

Institute for Research & Technology Transfer, Farmingdale State University
Farmingdale, NY

CALL FOR PAPERS AND EXHIBITORS

Last year's successful conference featured contributed papers that were presented in three parallel sessions: Systems, Applications, and Technology. Technical papers describing research development and application on a broad range of electronic and electrical engineering topics are solicited for LISAT2007.

All paper submissions must include title and a 300 to 500 word summary, the speaker(s) full name, affiliation, address, phone number and email address and a 1/3 page long biography. 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. Papers will be accepted based on their originality, quantitative content, clarity, and interest to IEEE members.

The deadline for paper submissions is December 1, 2006. You will be notified of acceptance or rejection on or before January 10, 2007 and will be given instructions for electronic submission of your full paper which is due by February 15, 2007. One author of each paper 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. Presented papers will be part of the CD-ROM Conference Proceedings to be given to each attendee and will become part of the IEEE Xplore database.

While LISAT welcomes a wide variety of papers in systems, applications and technology, some examples of topics of particular interest are:

Homeland Defense, 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, and Medical Electronics

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.

For information on Exhibiting at LISAT, please contact: Fred Kruger at f.m.kruger@ieee.org or Mark Sadick at mark@sagharborind.com and/or Tel: 516-967-2970

For all other information contact LISAT2007 Conference Chair: Dr. Charles Rubenstein at c.rubenstein@ieee.org or Conference Vice Chair: Dr. Babak Beheshti at b.beheshti@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 Farmingdale State University