

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

NJ/NY/LI EMBS Chapters:

The Toxins & Infections Connection

On Wednesday April 18, 2007, the North Jersey/New York/Long Island Chapters of the EMBS (Engineering in Medicine and Biology Society) will present a lecture on "The Toxins & Infections Connection", part of the "Conquering Anxiety, Depression, & Fatigue Without Drugs" series. The speaker will be Professor Joel H. Levitt.

About the Talk

Mercury, lead, copper, and Candida type yeast can have serious physical and mental consequences. What's the truth about dental amalgam? What is the latest research on Aluminum and Alzheimers?

About the Speaker

Professor Levitt holds four degrees from Columbia University and has been a member of the faculty of Pratt Institute for over 25 years. He is the Chairman of our local EMBS chapter. (The New York, Long Island, North Jersey Chapter of the Engineering in Medicine & Biology Society of the IEEE). He has taught Electrical Engineering, Physics, and Programming Computer (BASIC, FORTRAN, C, C++, JAVA at Pratt. He is the author of "Small Signal Analysis- By Computer, By Inspection" Haywood Press 1983, which may have been the first electronics text to fully integrate a presentation of electronics fundamentals with an introduction to computer programming. He is also the director of the Anxiety & Hypoglycemia Relief Institute (www.tranguil.info).

He has lectured at Rockefeller University and elsewhere for EMBS on topics including

- "Anxiety and Sugar Metabolism -What's the Connection?" Dec. 23, 2003
- "Going from C++ to Java" Jan. 25, 2001
- "Going from C to C++" Nov. 30, 2000
- "Introduction to Computer Programming in C" Feb. 15, 1996
- "Domestic Violence and Sugar Metabolism-What's the Connection?" May 25, 1995
- "Fighting Anxiety, Depression, and

Fatigue Without Drugs" Jan. 20, 1994

- "Panic Attacks and Sugar Metabolism-What's the Connection?" Oct. 17 1990
- "Hypoglycemia & the two Paradoxes" Dec. 26, 2006

Free to IEEE Members: The general public pays admission but arrangements have been made for FREE ADMISSION for IEEE members and their guests. Members and their guests must be preregistered by midnight on April 17. Those who attended either of the two December 2006 EMBS meetings may also come free & bring their guests, but they must pre-register with date of Dec. attendance & current guest names.

Cost for non-IEEE attendees: This is a joint meeting between EMBS (non-profit, meetings usually free) and a for-profit (Anxiety & Hypoglycmia Relief Institute) organization. Non-IEEE attendees will be charged their regular fees (not by IEEE write/call for details). Family members of paying attendees always free, doctors, nurses, teachers always free.

Time: Seating at 7:15 PM, Lecture at 7:30 PM, Wednesday April 18, 2007. **Place:** A.R.E. of New York, 241 West 30th Street between 7th & 8th Aves., Manhattan. Use security code #102 to enter

Information/Reservations: Professor Joel H. Levitt (jlevitt "AT" pratt.edu), (212) 479-7805.

Spring 2007 Region 1 GOLD Conference April 27-29 at FDU-Teaneck, NJ

Attention all members, the upcoming regional student paper conference this year will be held locally in the North Jersey Section. It is planned for the weekend of April 27-29 at Fairleigh Dickinson University in Teaneck, NJ. This year's Region 1 GOLD conference will be held jointly with the student conference at the same location.

There will be parallel programs of activities, introduction to GOLD, GOLD affinity group leadership training, a variety of seminars on different topics, a career fair, resume workshops and social events.

The committee is still seeking corporate sponsors and career fair participants, booths are still available, see the website below for contact information.

The details of the program, registration, and pricing for the GOLD conference can be found online at the Region 1 GOLD website linked from here http://ewh.ieee.org/r1/north jersey/gold

Don't miss this opportunity to participate in a Regional event, locally right here in North Jersey. Register now!

APRIL 2007

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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 "AT" 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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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.

North Jersey SMC Society: An Integrated Platform for an Adaptive Workflow System: Combining Knowledge-Based and Data-Driven Approaches

On Tuesday, April 10, 2007, the NJ Systems, Man & Cybernetics (SMC) Chapter will be hosting a seminar at NJIT on the topic noted above. Dr. Tong Sun, a Principal Scientist at Xerox Innovation Group, will be the presenter.

About the Talk

Today's business processes (or workflows) are characterized by global, dynamic, uncertain and error-prone environments. In order to compete in such contexts, enterprises need to effectively stay adaptable to environmental and internal changes, constantly reconsider and optimize business processes, and rapidly develop new services and products to support evolving business. Domain knowledge modeling provides an invaluable means to capture and represent the business conditions from prior experiences and inherent expertise. However, the knowledge-based approaches are dependent on very time-consuming knowledge acquisition and modeling maintaining processes. and the knowledge model itself to keep up with the rapid changing environment is very challenging. On the other hand, data driven approaches automatically acquire new knowledge patterns from historical log data through data mining and machine learning techniques. Such automatically derived knowledge then can be used to refine and augment the domain knowledge, to intelligently enable workflow automation, and to improve the quality and efficiency of the process. But most of the existing data-driven approaches do not take any "legacy" (preexisting) domain knowledge into account, which inherently reduce their efficiency in discovering meaningful knowledge. Therefore, the integration of domain knowledge and data-driven approaches not only leverages the strength of each methodology, but also enables an enterprise to adapt to changing conditions throughout the entire workflow lifecycle: workflow modeling, analysis, deployment, automation, and transformation. In this talk, Dr. Sun will discuss the research work in developing such an integrated platform for an adaptive workflow system that supports Xerox pre-sale/post-sale services. workflow solutions. and products in digital production printing

environment. About the Speaker

Dr. Tong Sun is a Principal Scientist of Document Workflows & Services Lab at Xerox Innovation Group, Webster, New York. Since joining Xerox in 1995, she has not only worked on innovative research and advanced prototype development, but also successfully transferred several research technologies into Xerox products. Her research interests include semantic web technology, ontology modeling, operational intelligence, workflow modeling and management, machine learning, and data mining. She has 16 scientific papers in published prestigious conferences and journals and has 10 US patents pending. She has also served as Industry Track Chair, Special Session Chair, Guest Journal Editor, and Program Committee Member in various conferences. She holds a Bachelor and Master degree in Electrical Engineering from Huazhong University of Science and Technology in China, as well as a PhD in Computer Engineering from the University of Rhode Island.

All Welcome!

You need not be a member of IEEE to attend, and there is no charge for admission. Light refreshments will be served starting at 6:45 PM.

Time: 7:00 PM (light refreshments at 6:45 PM), Tuesday, April 10, 2007.

Place: New Jersey Institute of Technology (NJIT), Room 202, ECE Center (Intersection between Warren & Summit Streets), Newark, NJ. Directions are available at http://www.njit.edu/ University/Directions.html.

Information/RSVP: Dr. Mike Liechenstein, (973) 471-0721, (m.liechenstein "AT" ieee.org). **Please RSVP** and check the electronic newsletter for any changes.

IEEE North Jersey Section Activities April 2007

Apr. 4 – "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.

Apr. 10 – "An Integrated Platform for an Adaptive Workflow System: Combining Knowledge-Based and Data-Driven Approaches" by Dr. Tong Sun, North Jersey SMC Society Chapter, 6:00 PM (light refreshments at 5:45 PM), New Jersey Institute of Technology (NJIT), Room 202, ECE Center, Newark, NJ. Dr. Mike Liechenstein, (973) 471-0721, (m.liechenstein "AT" ieee.org).

Apr. 11 – "Engineers Meet: Contract Engineering aka job shopping - An Alternate Form of Employment" - 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 F. Tax, (201) 664-6954 (rftax "AT" verizon.net).

Apr. 18 – "The Toxins & Infections Connection" by Professor Joel H. Levitt, NJ/NY/LI EMBS Chapters, 7:15 PM, A.R.E. of New York, 241 West 30th Street between 7th & 8th Aves., Manhattan, NY. Professor Joel H. Levitt (jlevitt "AT" pratt.edu), (212) 479-7805.

Apr. 19 – "The Trend of Next Generation Wireless Mobile Systems" by Dr. Qi Bi, NJ Communications & SP Chapters, 7:00 PM (light refreshments at 6:45 PM), New Jersey Institute of Technology (NJIT), Room 202, ECE Center, Newark, NJ. Dr. Nirwan Ansari (973) 596-3670 (nirwan.ansari "AT" njit.edu) or Dr. Yun-Qing Shi (973) 596-3501.

Apr. 25 – "Global Stability Analysis and Stabilization of Power Amplifiers" by Professor Almudena Suarez, EDS/C&S & MTT-S/AP-S Chapters, 7:00 PM (buffet at 6:15 PM), New Jersey Institute of Technology (NJIT), Room 202, ECE Center, Newark, NJ. Dr. Richard Snyder (973) 492-1207 (RS Microwave), Dr. Edip Niver (973) 596-3542 (NJIT), Har Dayal (973) 633-4618 (BAE Systems), or Dr. Durga Misra (973) 596-5739 (dmisra "AT" njit.edu).

Apr. 27 – "Mission Critical Power Technical Series - Generators Seminar", NJ IAS/PES, 9:00 AM - 2:00 PM, PSE&G Training Center, 234 Pierson Avenue, Edison NJ. Ronald W. Quade, PE, (732) 205-2614 or rwquade "AT" ieee.org.

Apr. 27-29 - "Spring 2007 Region 1 GOLD Conference", FDU-Teaneck, NJ. Amit Patel a.j.patel "AT" ieee.org.

Upcoming Meetings

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 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 Avenue, Edison NJ. Ronald W. Quade, PE, (732) 205-2614 or rwquade "AT" ieee.org.

Members and Non-Members Welcome PLEASE POST

2006 IEEE North Jersey Fellow

Gary W. Elko

"for contributions to microphone array signal processing for communication systems."



Gary W. Elko was born in 1955 in Philadelphia Pennsylvania. He graduated from Cornell University with a BSEE degree in 1977. He then followed his interests in acoustics and signal processing and received an MS and PhD from Penn State University in 1984. After graduation, he joined the Acoustics Research Department at AT&T Bell Laboratories where he worked on electroacoustic systems and signal processing for hands-free audio communication and room acoustics. He is currently president of mh acoustic LLC, a company he founded with former Bell Labs colleagues in Summit NJ. He has over 20 patents and applications and has published more than 60 papers in refereed journals. He is a past associate editor of the IEEE transactions on Acoustics Speech and Signal Processing and is a Fellow of the Acoustical Society of America.

NJ Communications & SP Chapters:

The Trend of Next Generation Wireless Mobile Systems

On Thursday, April 19, 2007, the North Jersey Chapters of the IEEE Communications Society and Signal Processing Society will host a presentation titled "The Trend of Next Generation Wireless Mobile Systems" by Dr. Qi Bi.

About the Talk

With the deployment of 3G high speed packet data wireless mobile systems worldwide, the stage has been set to evolve 3G wireless systems to the next generation. From this point forward, the efforts are focused on the delivery of the broadband experience with integrated and blended service. In this talk, we shall share our view of where the industry is going and what wireless experience an average user may expect to have in the near future. Our analysis will cover three major industrial standards including CDMA, wCDMA and WiMAX.

About the Speaker

Dr. Bi received his MS from Shanghai Jiao Tong University and PhD from Pennsylvania State University. After teaching at Utah State University as an assistant professor for one year, he joined Bell Laboratories in 1988 and became a Distinguished Member of Technical Staff in 1995. Two years later, he was promoted to Technical Manager.

Dr. Bi is a recognized expert in wireless communications. He received Awards of Excellence from the Advanced Technology Lab of AT&T in 1996 and 1997, and Bell Labs President's Gold Awards in 2000 and 2002. Under his leadership, his team was recognized in innovations and was awarded the Bell Labs Innovation Team Award in 2003 by the Bell Labs Research. In 2004, he received the Speaker of the Year Award from the IEEE New Jersey Coast Section.

Based on his pioneering contributions in wireless communications, he broke ground in 2003 to become the first Chinese from the People's Republic of China to receive the prestigious Bell Laboratories Fellow Award. In 2004, he was recognized by the Chinese Institute of Engineers and was awarded the Asian American Engineer of the Year Award during Engineers Week in the United States.

Dr. Bi is also dedicated to international and social activities. From 1998 to 1999, he served as the technical chair for the Wireless Mobile ATM Conference. From 1999 to 2000, he organized the first and the second CDMA conferences at Lucent Technologies. From 2000 to 2002, he served as the technical chair for IEEE Globecom's wireless program. In 2003, he served as the technical chair for the IEEE Wireless Communications and Network Conference. Currently, he serves as the chair and organizer for the Wireless and Optical Communications Conference.

Dr. Bi has published extensively in many technical journals and conferences and has served as editors in many technical publications. He was often invited as a keynote speaker in many international conferences and has filed more than 60 US patents. He was also the New York chapter president of the Alumni Association of the Chiao Tung University from 2002 to 2006. He has been listed in Who's Who since 2003.

All Welcome!

You do not have to be a member of the IEEE to attend.

Time: 6:00 PM, Thursday, April 19, 2007. Refreshments will be offered at 5:45 PM.

Place: New Jersey Institute of Technology (NJIT), Room 202, ECE Center, Newark, NJ. Directions are available at http://www.njit.edu.

Information: Dr. Nirwan Ansari (973) 596-3670 (nirwan.ansari "AT" njit.edu) or Dr. Yun-Qing Shi (973) 596-3501. Also check

http://web.njit.edu/~ieeenj/comm.html for the latest updates.

NJ Section PACE, GOLD:

Engineers Meet:

Contract Engineering aka job shopping - An Alternate Form of Employment

On Wednesday, April 11, 2007, the North Jersey Section Professional Activities Committee and Graduates of the Last Decade will meet to discuss contracting engineering and the job market. Bob Glynn and Paul Lorenzen will be our guest speakers from a local contract firm.

They will present their views about contract work and the job market, and be available to answer questions from the audience. An informative article about Contract Engineering can be found at http://www.aea.org/pdf/Contract_Engineer ing_07.pdf.

About the Meeting

One of our most successful meetings is being repeated. This meeting will bring you face to face with a representative from one of the local contract firms. Attendees will have an opportunity to discuss contract engineering, the relationship between the contract firm, client company and the contract engineer.

Topics include: the current state of the employment market for engineers, resource tools for advertising, your availability, dealing with job shops - do's and don'ts. Networking - it is a contact sport, accepting positions far from home. Why this is something everyone should consider. How sending jobs offshore and importing foreign workers under the H-1B and L1 legislation have affected the business.

This meeting is NOT a job fair. Resumes can be e-mailed at a later date, but will not be necessary for the meeting.

You are encouraged to attend and bring your spouse and associates.

This is especially of interest to students, recent graduates and those looking to increase job opportunities.

About the Speakers

Bob Glynn and Paul Lorenzen of HEPCO will be our guest speakers. They are involved in all aspects of the Company with particular focus on client marketing.

HEPCO is a thirty-one year old company, headquartered in Rutherford, New Jersey and currently serving clients in twenty-two states, with the balance of their work being done in the Connecticut to Virginia area. Their strategic hiring focus is across the entire spectrum of the engineering disciplines. This includes the major disciplines such as civil, electrical, environmental, and mechanical as well as subsets of these disciplines such as administrators, estimators, designers, facilities, inspectors, planners, reliability, safety, schedulers, stress analysts, and structural engineers. HEPCO provides their clients with both direct hires and consultants, who will work on a specific client project as HEPCO employees until that project is completed.

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/chapters/nj/ www.ieeeusa.org http://web.njit.edu/~ieeenj/ www.asme.org/sections/northjersey

Time: 6:30 to 9:00 PM, Wednesday, April 11, 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 (rftax "AT" verizon.net).

NJ EDS/C&S & MTT-S/AP-S Ch: Global Stability Analysis and Stabilization of Power Amplifiers

On Åpril 25, 2007, the IEEE NJ Section Electron Devices, Circuits and Systems Chapters together with MTT/S/AP-S and the New Jersey Institute of Technology will host a talk on "Global Stability Analysis and Stabilization of Power Amplifiers." The speaker will be Professor Almudena Suarez.

About the Talk

Power amplifiers often exhibit instabilities giving rise to frequency division by two or oscillations at incommensurate frequencies. These phenomena, observed from a certain level of input power, cannot be detected through a small-signal stability analysis of the circuit. Instead, a large-signal stability analysis must be performed. Other behaviors. like hysteresis and chaotic solutions, can also be obtained when the input power is varied. The qualitative changes in the output-power spectrum are due to bifurcations or qualitative stability changes in the circuit solution or in the number of solutions when the parameter is varied. The talk introduces the local and global stability concepts and the analysis techniques, based on harmonic balance. The first objective is to allow a good comprehension of the different phenomena. The second objective is to provide practical simulation tools for an efficient prediction and elimination of the undesired behavior. Different approaches for the local-stability analysis of nonlinear regimes will be presented, with emphasis on the polezero identification. Then, techniques will be shown for the detection of the most common types of bifurcations in power amplifiers. The final goal will be the stabilization of the circuit and the design corrections in order to suppress the undesired phenomena will also be presented.

For illustration, the simulation tools will be applied to two different switching amplifiers developed at California Institute of Technology. These amplifiers have remarkably high efficiency, but in intermediate input-power range they exhibited different undesired phenomena. The first amplifier is a Class-E/F amplifier, which showed oscillations, hysteresis and chaos. The second amplifier is a Class-E amplifier, which showed jumps in the power transfer curve and sideband noise amplification. After the application of the different techniques, the two amplifiers were globally stabilized for all the expected operating values of the amplifier bias voltage and input power. This was achieved with negligible degradation of the amplifier performance, in terms of output power and drain efficiency. The stable behavior obtained in simulation was experimentally confirmed.

About the Speaker

Almudena Suarez is a Professor at the University of Cantabria Communications Engineering Department and is a MTT-S Distinguished Lecturer.

All Welcome!

You do not have to be a member of the IEEE to attend.

Time: 7:00 PM, Wednesday, April 25, 2007. Free buffet will be starting at 6:15 PM.

Place: New Jersey Institute of Technology (NJIT), Room 202, ECE Center, Newark, NJ. Directions are available at http://www.njit.edu.

Information: Dr. Richard Snyder (973) 492-1207 (RS Microwave), Dr. Edip Niver (973) 596-3542 (NJIT), Har Dayal (973) 633-4618 (BAE Systems), or Dr. Durga Misra (973) 596-5739 (dmisra "AT" njit.edu).

Region 1 Award Nominations

Nominate a colleague. Region 1 of IEEE offers a variety of awards to recognize the engineering accomplishments of members. Specific award categories include: technological innovation, engineering organization, academic teaching, enhancement of IEEE image in the public or industry and sustained IEEE service. To obtain additional information about these categories visit the Region 1 website

www.ieee.org/r1

Once at the site click on Section Information on the far right column. On the Section page click on Region 1 Awards Information. We will assist you. To nominate a qualified individual prepare a 200-word summary (including the individual's name, IEEE number and IEEE US postal mail address) specifying the accomplishment of the candidate. Send the summary to our Awards Chair

Ken Oexle 11 Deerfield Road Whippany, NJ 07981

prior to May 1. The North Jersey Awards Committee will: review the summary; suggest any changes; complete the nomination form; and forward it to the Region 1 Awards committee with a Section endorsement.

Award nominations are evaluated and approved at the Region 1 Summer Meeting and plaques are presented at the following North Jersey Section Annual Awards Reception.



32nd Annual Trenton Computer Festival at The College of New Jersey Ewing Township, New Jersey

Festival Saturday & Sunday April 28th and 29th, 2007 Saturday 10 AM to 5 PM and Sunday 10 AM to 4 PM Flea Market opens at 9 AM both days Rain or Shine!

TCF Professional Conferences on Friday April 27th 9 AM to 5 PM

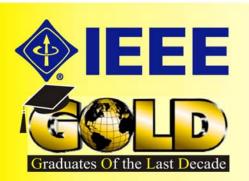
TCF is the oldest, largest, and best computer show for Personal Computer Users!

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People travel across the US and internationally to visit TCF.

www.tcf-nj.org

- Indoor Exhibitor space
- Large Outdoor Flea Market Area
- The show for bargains on new and used hardware and software
- Numerous talks, forums, tutorials, and user group sessions
- Special events
- National Exhibitors demonstrate their newest products
- Amateur Radio Special Events (e.g. license testing)
- Saturday evening banquet
- Free parking
- Free parcel pickup areas (park your purchases while you cruise the show)



CAREER FAIR AT 2007 IEEE REGION 1 GOLD CONFERENCE

Jointly held with IEEE Region 1 Student Conference Hosted by Fairleigh Dickinson University IEEE Student Branch

April 28th, 2007 (9:30AM to 6:00PM)

Companies participating at Career Fair will find a highly qualified audience (GOLD, Student, and Women In Engineering Members). Conference attendees are mostly student leaders and young professionals. Last year, the Region 1Student Conference had about 150 student attendees at Maine University. This year, with the participation from Region 1 GOLD and WIE, there should be at least 250 attendees, excluding the public.

Location:

Dickinson Hall Lobby Fairleigh Dickinson University 1000 River Rd Teaneck, NJ 07666

Conference Highlights:

- Career Fair
- Student Paper Contest
- Micromouse Competition
- GOLD Competition
- GOLD Seminars
- GOLD/WIE Meetings
- Special Presentations
- Social and Networking Event
- Award and Dinner Banquet
- Resume Walk-in Clinic

Region 1 Demographics:

(February 2007)

- About 41,300 IEEE Members
- About 3,800 GOLD Members
- About 3,100 Student Members
- 82 Schools

Contacts:

Michael Buryk Business Development Manager IEEE Job Site PH: (212) 419-7571 E-Mail: m.buryk@ieee.org

<u>Nick Nonis</u> GOLD Conference Chair PH: (718) 863-0601 E-Mail: n.nonis@ieee.org

Register by April 3rd, 2007

CAREER FAIR BOOTH PACKAGES SPONSORSHIP

GOLD Package (\$1,995)

- Keynote Speaker to Friday Night Reception or Saturday Award Dinner Banquet
- Grant 1 table for ten to Award Dinner Banquet
- ✤ 3 tables (6'x3' each) at Career Fair Venue
- Logo Displayed on all multi-media (websites, e-mail, and flyers) and events location
- ✤ 2 pages on Career Fair Booklet
- 6 Free posts of Job positions on IEEE Jobsite (worth \$210 per post) for 30 days
- Access to IEEE Job Site full resume data base for a separate fee
- E-mail all IEEE members about the company participation and profile

SILVER Package (\$1,495)

- Provide Panelists to Saturday Breakfast and Lunch
- Grant 1/2 table of 5 to Award Dinner Banquet
- ✤ 2 tables (6'x3' each) at Career Fair Venue
- Logo displayed on all multi-media (websites, e-mail, and flyers) and events location
- ✤ 1 page on Career Fair Booklet
- 4 Free posts of Job positions on IEEE Jobsite (worth \$210 per post) for 30 days
- Access to IEEE Job Site full resume data base for a separate fee

BOOTH Package (\$995)

- Provide Panelists to Saturday Breakfast and Lunch
- Grant 2 tickets to Award Dinner Banquet
- ✤ 1 table (6'x3' each) at Career Fair Venue
- Logo Displayed on all multi-media (websites, e-mail, and flyers) and events location
- ✤ 1/2 page on Career Fair Booklet
- 2 Free posts of Job positions on IEEE Jobsite (worth \$210 per post) for 30 days
- ✤ Access to IEEE Job Site full resume data base for a separate fee

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

Registration: Paralleling Switchgear Seminar 5/25/2007

Register via US mail to:	Ronald W. Quade, PE Eaton Electrical 379 Thornall St, 8 th Floc Edison, NJ 08837	pr	
Name			
Address			
Phone	Email		
IEEE #	_Student @	Non IEEE	_Life Member
Continuing Education Units:	Yes \$25	_No	
If CEUs are chosen, please in	clude a \$25 processing fee		
Payment Enclosed \$	Add \$25 late registration	on after May 11, 2007	,

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

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

The PES and IAS Chapters will sponsor a 3-month series of technical seminars on mission critical power. This second seminar will be on the topic of Generators. The session will be held on Friday, April 27, 2007, at the PSE&G Training Center, 234 Pierson Avenue, Edison, NJ.

Topics

Generator Sets:

- ✓ A Historical Perspective
- ✓ Engine and Generator Fundamentals
- ✓ Applications- Data Centers, Healthcare, Utilities, Telecom, etc.
- ✓ Selecting, Sizing and Specifying a Generator Set
- ✓ Installation Guidelines Enclosures, Controls, Fuel, Cooling, Exhaust, etc.
- ✓ Paralleling Multiple Generator Sets Designing for Redundancy
- ✓ Systems Integration Integrating Generator Sets with Other Critical Equipment (ATS, UPS, Switchgear, etc.)
- ✓ Regulations EPA, NFPA, UL and more
- ✓ Remote Generator Set Monitoring and Control
- Equipment Testing and Contingency Planning

About the Instructor

The instructors will be a team from Caterpillar's Electric Power Generation division and the New Jersey Caterpillar dealer Foley Power Systems.

The registration fee for this seminar prior to April 13th 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 April 13th 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, April 27, 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

Registration: Generators Seminar 4/27/2007

Register via US mail to:	Ronald W. Quade, PE Eaton Electrical 379 Thornall St, 8 th Floor Edison, NJ 08837
Name	
Phone	Email
IEEE #	_ Student @ Non IEEE Life Member
Continuing Education Units:	Yes \$25No
If CEUs are chosen, please inc	clude a \$25 processing fee
Payment Enclosed \$	Add \$25 late registration after April 13, 2007
Make checks payable to N	North Jersey Section IEEE (Credit Cards cannot be processed at this time).

IEEE AWARDS RECEPTION

North Jersey Section May 6, 2007 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 6, 2007** from 3 to 6 PM. Tickets are \$35.00 each. Spouses and guests are welcome. We are limited to <u>90</u> attendees, so please make your reservations early.

Reservations are required by April 25, 2007. 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 25, 2007. 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: _____

 \Box Yes, please send me directions to the Birchwood Manor





LISAT 2007

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