

The



IEEE Newsletter

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

Newly Elected IEEE Fellows

The North Jersey Section IEEE congratulates the following members who were elected to the Fellow grade:

Gary Elko

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

Ramachandran (Ram) Ramjee

"for contributions to architecture, protocols, and performance of wireless networks."

Looking for a Few New Fellows

Nominations are being accepted for the IEEE Fellows class of 2008. The rank of IEEE Fellow is the institute's highest member grade, bestowed on senior members who have contributed "to the advancement or application of engineering, science, and technology." The deadline for nominations is 1 March 2007.

Senior members can be nominated in one of four categories: application engineer/practitioner, research engineer/scientist, educator, or technical leader.

To nominate an IEEE senior member or to learn more about the Fellow program, visit <http://www.ieee.org/fellows>.

NJ Consultants' Network: PSoC Mixed Signal Development

On Thursday, January 25, 2007, the IEEE Consultants' Network of Northern NJ is pleased to present "PSoC Mixed Signal Development", by Chris Mesibov.

About the Talk

CNNNJ is pleased to present a technical presentation about Cypress PSoC (Programmable System on Chip) mixed signal IC development. Since its introduction, the Cypress PSoC has made dramatic inroads into embedded systems as a versatile mixed signal microcontroller. The PSoC contains microcontroller, digital and analog functions that provide an embedded engineer a vast set of solution all within a single IC. The discussion will describe what functions can be provided, how they are implemented, why engineers are choosing the PSoC over other micro controllers, and how the PSoC is used. Application examples are examined and demonstrations of the software tools are given that provide insight into the powerful features and development environment available to the PSoC developer.

About the Speaker

Chris Mesibov is President of TechGenesis Inc. His consulting

business provides analog and digital design services and specializes in PSoC development. Mr. Mesibov is a Cypress PSoC certified designer/developer and has 20+ years experience designing embedded systems for RF ATE systems for military avionics, cellular / satellite equipment, and power systems for telecom products. His website is <http://www.techgenesis1.com> and can be reached by email at chris "AT" techgenesis1.com or by phone at (914) 584-2659.

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., January 25, 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>.

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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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Seth Jakel (sgjakel "AT" comcast.net)

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:

Building the Foundation For a Successful Consultant Marketing Plan

On Thursday, February 22, 2007, the IEEE Consultants' Network of Northern NJ is pleased to present "Building the Foundation For a Successful Consultant Marketing Plan", by Greg Ratta.

About the Talk

CNNNJ is pleased to offer a non-technical presentation about building a solid foundation for a consultant's marketing plan. Consultants work in a highly competitive and fast moving market where success depends on the consultant's ability to build an effective marketing and delivery program around his or her particular expertise. Without self-analysis of what value one brings to the market, there is no foundation for that program. Does your CV put your mother to sleep? Does it include generic phrases like, "self-starter" or "works effectively alone or in teams"? Are you a telecom engineer listening for the footsteps echoing outside your office that will free you to strike out on your own? Are you unemployed and seeking a full time position? If you answered "yes" to any of these questions, this presentation has been designed for you!

About the Speaker

Greg Ratta is a Licensed Professional Engineer, knowledgeable about voice and data network communication protocols, technologies and services. He is an experienced systems engineer – a problem solver, who has provided consulting services to manufacturers and service providers in the telecom and cable industries as well as to government agencies within DHS and DoJ. His background in hardware design, software development, systems analysis, network planning and operational methods has allowed him to be an effective facilitator for his clients in the planning and delivery of business systems and networking solutions to satisfy business objectives and ongoing operations. He can be reached by email at [greg.ratta "AT" verizon.net](mailto:greg.ratta@att.net) or by phone at (732) 530-1874.

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, February 22, 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>.

PES/IAS Leadership Openings

The PES and IAS Chapters are seeking members who are willing to serve in leadership and officer position in these Chapters. Interested candidates should contact Ken Oexle at (973) 386-1156 for more information.

Newark Needs FIRST LEGO Robotics Judges

The Newark Public Middle Schools is looking for Judges for their FIRST (For Inspiration and Recognition of Science and Technology) Lego League Robotics competition on Saturday, January 2, at NJIT.

For further information contact

Levelle Burr Alexander
Center for Pre-Collage Program, NJIT
(973) 596-3425
[burr-alexander "AT" njit.edu](mailto:burr-alexander@njit.edu)

IEEE North Jersey Section Activities

January 2007

Jan. 3 – “NJ Section Meeting”, 6:30 PM, “Executive Committee Meeting” - 7:00 PM, ITT, 100 Kingsland Rd, Clifton, NJ. Seth Jakel at [sgjakel “AT” comcast.net](mailto:sgjakel@comcast.net).

Jan. 10 – “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 (rtax “AT” verizon.net).

Jan. 25 – “PSoC Mixed Signal Development” by Chris Mesibov, 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.

Upcoming Meetings

Feb. 7 – “NJ Section Meeting”, 6:30 PM, “Executive Committee Meeting” - 7:00 PM, ITT, 100 Kingsland Rd, Clifton, NJ. Seth Jakel at [sgjakel “AT” comcast.net](mailto:sgjakel@comcast.net).

Feb. 17-Apr. 28 – “C# .NET Programming” by Dr. Donald Hsu, North Jersey Section, Saturday Mornings, 10 sessions, 9:00 AM-12:00 PM, Avtech, 130 Clinton Road, Second Floor, Fairfield, NJ. Donald Hsu (yanyou “AT” hotmail.com).

Feb. 21 – “Deuterium at the Si-Dielectric Interface in Nanoscale Devices” by Dr. Durgamadhab (Durga) Misra, NJ EDS/C&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), or Dr. Durga Misra (973) 596-5739 (dmisra “AT” njit.edu).

Feb. 22 – “Building the Foundation For a Successful Consultant Marketing Plan” by Greg Ratta, 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.

Feb. 23 – “Predictive Diagnostics Seminar” by Gabriel J. Paoletti, PE, NJ PES/IAS, 9:00 AM - 1:00 PM, Location TBA. Ronald W. Quade, PE, (732) 205-2614 or [rwquade “AT” ieee.org](mailto:rwquade@ieee.org).

Mar. 14-May 9 – “Project Management” by Dr. Donald Hsu, North Jersey Section, Tuesday Evenings, 8 sessions, 6:30-9:00 PM, NJ International Bulk Mail Center, 80 County Rd, Jersey City, NJ. Donald Hsu (yanyou “AT” hotmail.com).

Mar. 26-27 – “10th Communications and Networking Simulation Symposium (CNS 2007)”, see <http://www.scs.org/confernc/springsim/springsim07/springsim07.htm>.

Mar. 29 – “Clients First: Identifying and Focusing on Solving their Pain” 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.

Members and Non-Members Welcome
PLEASE POST

NJ Section PACE, GOLD:

ENGINEERS MEET: Contract Engineering, aka Job Shopping - An Alternate Form of Employment

On Wednesday, January 10, 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.

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, and 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 expand job opportunities.

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.

About the Speakers

HEPCO is a thirty-one year old company, headquartered in Rutherford, NJ, 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
www.ieeeusa.org
<http://web.njit.edu/~ieeenj/>
www.asme.org/sections/northjersey

Time: 6:30 to 9:00 PM, Wednesday, January 10, 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).

NJ EDS/C&S Chapters:

Deuterium at the Si-Dielectric Interface in Nanoscale Devices

On February 21, 2007, the IEEE NJ Section Electron Devices, Circuits and Systems Chapters together with the New Jersey Institute of Technology will host a talk on "Deuterium at the Si-Dielectric Interface in Nanoscale Devices." The speaker will be Dr. Durgamadhab (Durga) Misra.

About the Talk

After the discovery of the hydrogen/deuterium (H/D) isotope effect, passivation of interfaces such as Si-SiO₂ and Si-high-k by deuterium instead of hydrogen is getting significant attention for scaled CMOS devices. Deuterium passivation brings significant improvement in hot-carrier lifetime in metal-oxide-semiconductor (MOS) transistors. Annealing in deuterium ambient or deuterium implantation is used to incorporate deuterium at the Si/SiO₂ interface. Various methods of deuterium incorporation (recipes) at the interface for several device applications (CMOS, photodiodes, TFTs) will be discussed. Some device characteristics improvement after deuterium implantation at the Si/SiO₂ interface when a thin oxide is grown on implanted silicon substrate will also be addressed. In case of annealing thermal budget is a limiting factor whereas for implantation, energy and implantation dose significantly influence the interface passivation. The challenges to retain

deuterium at the Si/SiO₂ interface until the completion of CMOS fabrication process will be analyzed.

About the Speaker

Dr. Durgamadhab (Durga) Misra is a Professor in the Department of Electrical and Computer Engineering at New Jersey Institute of Technology (NJIT). He served as the Director of Microelectronics Research Center at NJIT for a year in 1996 and in 1997 he was on a research leave at the VLSI Research Department of Bell Laboratories, Lucent Technologies at Murray Hill, New Jersey. His general interests lie in the areas of nanoelectronic and optoelectronic devices and circuits. His current focus is gate dielectric (both SiO₂ and high-k) reliability on Si and Ge substrates and their interfaces for nanoscale CMOS devices. He has organized many International Symposiums on Solid-State Science and Technology field during the Technical Meetings of the Electrochemical Society and IEEE. He is a Senior Member of IEEE, Distinguish Lecturer in IEEE EDS, and a Fellow of the Electrochemical Society.

All Welcome!

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

Time: 7:00 PM, Wednesday, February 21, 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), or Dr. Durga Misra (973) 596-5739 (dmisra "AT" njit.edu).

Call For Papers

10th Communications and Networking Simulation Symposium (CNS 2007)

As part of

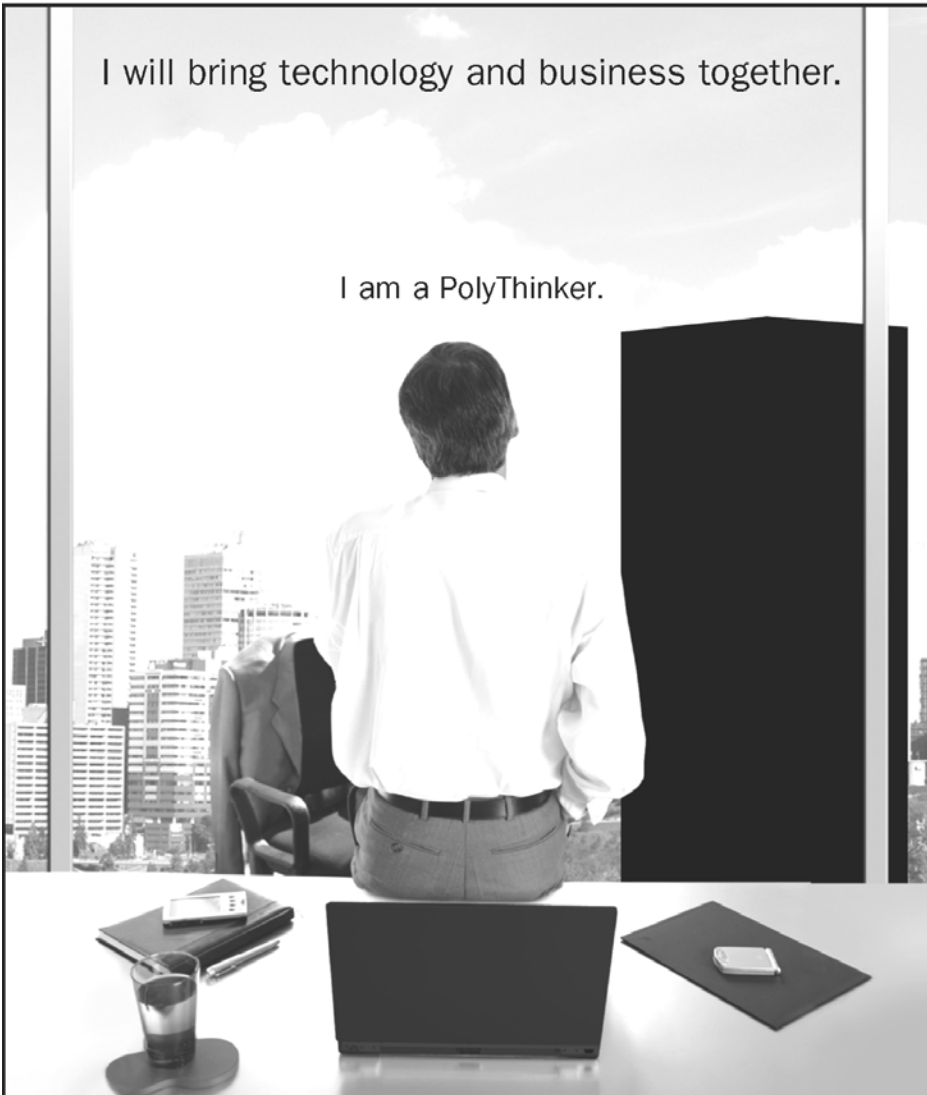
Spring Simulation Multiconference
2007 (SpringSim 2007)

Sponsored by:

The Society for Modeling and
Simulation International (SCS)

March 26-28, 2007
Norfolk, Virginia, USA

<http://www.scs.org/confernc/springsim/springsim07/springsim07.htm>



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Wednesday, January 17th 6-8 p.m.
Brooklyn MetroTech Campus

Thursday, January 18th 6-8 p.m.
Long Island Graduate Center

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- tech writing & digital media

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NJ Consultants' Network:

Clients First: Identifying and Focusing on Solving their Pain

On Thursday, March 29, 2007, the IEEE Consultants' Network of Northern NJ is pleased to present "Clients First: Identifying and Focusing on Solving their Pain", by Ed McCauley.

About the Talk

Pain & pleasure, in the past, present, and in the future, are fundamental motives that cause people to act.

For 18 years, Bottom Line Technologies Inc has worked with business owners and senior executives:

- Challenged to meet aggressive, sometimes nightmare schedules.
- Struggling with technologies they lack the experience to effectively manage.

- Frustrated by a lack of resources to achieve their goals.
- Risking lost market share, lost contracts, customers, or worse should they fail.

Do these folks sound like they're in PAIN? You bet they are!

BLT designs chips, boards, and complete systems for commercial, industrial, and military Clients seriously committed to quality product development.

Come hear BLT's president, Ed McCauley, share how they execute on their prime directive: "Acting in the Client's best interest" by understanding and treating their Client's pain.

During the second half of the meeting, Chris Mesibov of the IEEE Consultants' Network of Northern NJ will be presenting a brief overview of his consulting practice, Techgenesis. Chris can be emailed at [chris "AT" techgenesis1.com](mailto:chris@AT_techgenesis1.com) or reached

by phone at (914) 584-2659.

About the Speaker

Ed McCauley is President of BLT.

About the Consultants' Network

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All Welcome!

Everyone welcome. No registration needed. Free admission.

Time: 7:30 PM, Thursday, March 29, 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>.



IEEE EDS Mini-Colloquium

**Jointly Organized by
Calcutta Chapter of EDS and North Jersey Chapter of EDS/CAS
Bhubaneswar, INDIA
Clarion Hotel
January 3, 2007**

EDS Distinguished Speakers:

- (1) Professor V.R. Rao (Indian Institute of Technology Bombay, INDIA)
- (2) Professor Renuka Jindal (University of Louisiana, USA)
- (3) Professor Hiroshi Iwai (Tokyo Institute of Technology, JAPAN)
- (4) Professor Claeys Cor (IMEC, BELGIUM)
- (5) Professor Mike Bushnell (Rutgers University, NJ, USA)
- (6) Professor Lothar Pfitzner (Fraunhofer Institute)
- (7) Professor Durga Misra (New Jersey Institute of Technology, USA)

For information please contact:

- Durga Misra at [dmisra "AT" njit.edu](mailto:dmisra@njit.edu)
- Partha Sarkar at [partha_sarkar_9 "AT" yahoo.com](mailto:partha_sarkar_9@yahoo.com)

Tutorial on Navigation: Space, Air, Land and Sea a Success!

On November 15, 2006, North Jersey Section of the IEEE AES Society held a day long tutorial on Navigation: Space, Air, Land and Sea at the L-3Com Space and Navigation Division, Budd Lake facility. The course was delivered by Dr. Myron Kayton who possesses 50 years of experience in this field. The course was attended by 45 people comprising engineers, scientists and managers. This was the first activity of this newly formed AES Section and was a great success. The course required a prior registration and a nominal registration fee. Everyone who signed for the course attended it. This section plans to organize more such tutorials to benefit engineers working in Aerospace and Electronic Systems.



Organizers of the course: Bruce Eteson (BAE Systems), Har Dayal (BAE Systems), Myron Kayton (Instructor), Michael Stora (L-3Com), and Naresh Chand (BAE Systems).



Group that attended the Navigation tutorial on November 15 organized by the IEEE AES North Jersey Chapter.

Life Grades Luncheon

The fifth Annual Life Grades Luncheon sponsored jointly by the Power Engineering Society Chapter and the Section was held on November 2nd, 2006 at the Hamilton Park Conference Center, Florham Park, NJ. Carl Sulzberger, Life Member, talked about the IEEE History Center and it's many activities including the Oral History and Milestone Award program.

The IEEE established the Milestone program in 1983 to honor and recognize significant achievements in the history of electrical and electronics engineering. The program was later expanded to include significant achievements in computing. Today there are about 75 milestones with 15 in Region 1. The North Jersey Section currently has two: first establishment of two-way police radio communication in Bayonne, NJ, in 1933, and the demonstration of practical telegraphy in Morristown, NJ, in 1838.

Recently, Carl wrote an application for an IEEE Milestone plaque for the Edison West Orange Laboratory site. It was subsequently approved by the North Jersey Section and the IEEE Milestone Committee. It then needed the approval of the milestone site owner, the National park Service. However, the National Park Service cannot accept a plaque for installation anywhere on the site. The Section is still trying to find a suitable place within the West Orange Municipal facilities to mount a milestone plaque to recognize Edison's many achievements at his West Orange Laboratory.

Carl is also a member of the IEEE Power and Energy magazine Editorial Board and frequently writes history articles for the bi-monthly publication. He provided copies of the IEEE Power & Energy Magazine May/June 2006 issue in which he authored the history article on Mazda technology and the trademark used by GE from 1909 into the 1940's to promote it's tungsten filament and lamp base products.

To learn more about the history center, go to the following:

http://iee.org/web/aboutus/history_center/index.html



Left to right: Carl Fruehling, Steve Mallard, Dr. Fred Chichester, Alex Strashinsky, Naz Simonelli, and Wilhelm Schmidt

Left to right: John Hyfantis, Ron Quade, Kirit Dixit, Dr. Richard Snyder, Ken Oexle, Won Kim, and Ram Rathore





Left to right: Carl and Virginia Sulzberger, Ken Hendrix, Julius Kaplan, Dr. Michael Liechenstein, John Baka, Herb Blaicher, and Howard Leach



Past Section Chairs: Dr. Mike Liechenstein, Steve Mallard, Dr. Richard Snyder, Herb Blaicher, Ken Oexle, Howard Leach

NJ Power Engineering Society/Industry Applications Society

Predictive Diagnostics Seminar

The PES and IAS Chapters will sponsor a technical seminar on the topic of predictive diagnostics. The session will be held on Friday, February 23, at a location to be determined in Northern NJ.

Topics

Predictive Diagnostics involving transformers and medium voltage switchgear will be discussed. New technologies involving continuous oil monitoring will be contrasted with traditional oil analysis, including Roger Ratios. On-line bushing monitoring for power factor and potential internal partial discharges will be presented. A case study of a generator step-up (GSU) transformer will be illustrated where the use of partial discharge and oil analysis saved approximately \$1M in an unwarranted repair. MV switchgear failure modes will also be reviewed, in addition to the validity of existing IEEE failure data. Continuous and remote monitoring of medium voltage switchgear partial discharges will also be presented.

About the Instructor

Gabriel J. Paoletti, PE, received a BSEE degree from Drexel University, Philadelphia, PA, in 1976. Mr. Paoletti has over twenty-eight years of engineering service experience with Westinghouse, ABB and Eaton Electrical (Cutler-Hammer) Engineering Service. His electrical distribution equipment experience includes field-testing, predictive and preventive maintenance, partial discharge technologies, RCM programs, applications engineering, failure analysis, and power systems studies. He has design experience with vacuum circuit breaker modernization, low voltage circuit breaker cell-retrofits and motor and transformer repair experience. He is also a patent participant for the switchgear partial discharge sensor. Mr. Paoletti is a Senior Member of IEEE and a Registered Professional Engineer in the States of Pennsylvania and Delaware. Mr. Paoletti has had technical papers published in the IEEE-IAS concerning microprocessor-based protective relays (1990), vacuum modernization of MV circuit breakers (1997), partial discharge technology related to MV motors and MV switchgear (2001) and condition-based maintenance of MV switchgear (2002). Mr. Paoletti is currently Division Applications Engineering Manager for the Eaton Engineering Services and Systems Division. He also was a contributing author to the IEEE-Buff Book regarding topics on maintenance, testing and calibration (2002).

The registration fee for this seminar prior to February 9th 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 February 9th 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 1:00 PM (lunch is included), Friday, February 23, 2007.

Place: To be determined and announced in the North Jersey Section February Newsletter and updated on the website at <http://web.njit.edu/~ieeenj/>

Directions: To follow

Information: Ronald W. Quade, PE, (732) 205-2614 or [rwquade "AT" ieee.org](mailto:rwquade@at.ieee.org)

Registration: Predictive Diagnostics Seminar 2/23/2007

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 February 9, 2007

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

IEEE North Jersey Section Course C# .NET Programming

Saturday morning, February 17, 2007 through April 28, 2007

Ten weekly classes (February 17, 24, March 3, 10, 24, 31, April 7, 14, 21, 28, 2007)

Place: Avtech, 130 Clinton Road, Fairfield, NJ (Checks should not be mailed to this address)

IEEE North Jersey Section thanks Avtech for sponsoring this “hands-on” course at its site.

The IEEE North Jersey Section is offering a course entitled "C# .NET Programming". Since 2002, C# .NET has generated significant headway in Fortune 1000 enterprise development systems. Dice.com lists 800+ C# .NET jobs in the New York tri-state area daily! This course will cover the fundamentals of C# language, the .NET framework, window and web-based applications, ADO.NET, ASP.NET, and XML. It will be useful for anyone to develop applications based upon these tools.

You will receive the IEEE Certificate of Completion when you finish the course. Microsoft Corp. has MCAD and MCSD certifications. You may wish to get certified by taking the necessary Microsoft exams with the knowledge gained from this course.

Instructor: **Donald Hsu, Ph.D.**, has been a corporate manager for 11 years and is an experienced trainer. Since 2001, he has trained 790+ people in C++, C#.NET, Java, Unix, Visual Basic, WebLogic and XML courses in 10 organizations.

TOPICS

1. Compare the enterprise development tools using C++, Java to C# .NET
2. Define Visual Studio .NET Version 2005, Express Edition
3. Identify C# syntax, data type, control structures and common language runtime
4. Distinguish methods, arrays, object-oriented programming
5. Build graphical user interface, multithreading, files and streams
6. Explain the benefit of using extensible markup language (XML)
7. Select database, SQL server, and ADO .NET
8. Choose ASP .NET, web forms, web controls, and web services
9. Operate the network, streams-based socket and mobile toolkits
10. Search and sort, data structures, generics and collections
11. Present student Projects

WHERE: Avtech, 130 Clinton Road, Second Floor, Fairfield, NJ

WHEN: 10 Saturdays, February 17, 24, March 3, 10, 24, 31, April 7, 14, 21, 28, 2007 from 9:00 AM to 12 Noon

COST: IEEE (& affiliate) members \$500; Non-IEEE members \$550.

CONTACT: Donald Hsu, yanyou "AT" hotmail.com

REGISTRATION: C# .NET Programming

Please mail the completed registration form with the check (**payable to “North Jersey Section IEEE”**) to:

Donald Hsu, Co-Chair, Education Committee, IEEE North Jersey Section, P.O. Box 2093, Fort Lee, New Jersey 07024

Name: _____ Email address _____

Non-member

IEEE Member Member #: _____ Member of _____ technical society

Employer: _____

Employer Address: _____

Home Address: _____

Business (day) telephone #: _____ Home telephone #: _____

Please enclose required fee payable to: **North Jersey Section IEEE**

As soon as a fully completed registration form and the payment are received, you are officially registered for this course. Registration status will be notified in an email format.

I wish to receive IEEE Completion Certificate

Signature: _____

IEEE North Jersey Section Course Project Management

Wednesday Evening, March 14, 2007 through May 9, 2007

Eight weekly classes (March 14, 21, 28, April 11, 18, 25, May 2, 9, 2007)

USPS, NJ International Bulk Mail Center, 80 County Road, Jersey City, NJ 07097

(Checks should not be mailed to this address)

IEEE North Jersey Section thanks USPS, BMC for sponsoring this course at its site

The North Jersey Section IEEE is offering an evening course entitled "Project Management". Dice.com lists 5500+ Project related jobs in the New York tri-state area daily! This course will help you to break down a master project into manageable tasks, pinpoint possible solutions, and provide information to keep the project under control. Using Microsoft Project software, you will learn to accomplish various project plans. In addition, it will greatly enhance your business, communications and interpersonal skills.

You will receive the IEEE certificate of completion when you finish the course. You may wish to take two certification exams, one in *Project Management* administered by Project Management Institute and the other in *IT Project+* by CompTIA Inc from the knowledge you learned in this course. (This is *not an exclusive PMP-PMI examination prep course*. No PDUs are issued for PMP eligibility. CEU credits would be given by IEEE)

Instructor: **Donald Hsu, Ph.D.**, has been a corporate manager for 11 years and is an experienced trainer. Since 1999, he has trained 450 people in *IT Project+*, *MS Project 2003*, and *Project Management* courses in eight organizations.

TOPICS

1. Explain the need for a project manager
2. Define SOW, PERT, GANTT, CPM, and Scope of the project
3. Identify the team members, resources and plan for the strategy
4. Calculate schedule, budget variances, and monitor project progress
5. Manage changes, estimates, and communications
6. Set a baseline, import tasks from MS Excel, export Project files to MS Word
7. Create and modify custom reports, templates and combination views
8. Share resources and create a master plan loaded to Project Server
9. Approve updates and conclude a project plan
10. Market global e-Commerce projects
11. Present student Projects

WHERE: NJ International Bulk Mail Center, Jersey City, NJ. (Checks **should not** be mailed to this address)

WHEN: 8 Wednesdays, March 14, 21, 28, April 11, 18, 25, May 2, 9, 2007, from 6:30 to 9:00 PM.

COST: IEEE (& affiliate) members \$430; Non-IEEE members \$480.

CONTACT: Donald Hsu: [yanyou "AT" hotmail.com](mailto:yanyou@AT@hotmail.com)

REGISTRATION: Project Management

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