



The IEEE

Newsletter

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

NJ Consultants' Network:

Data Backup Practices for Your Business

On Thursday, May 27, 1999, the IEEE Consultants' Network of Northern NJ will present a panel discussion devoted to practical issues of data backup for an independent engineering business.

About the Talk

The business of an engineering consultant is heavily reliant on large amount of data residing in personal computers. The scope of work may include proposals, reports, presentations and actual project files. Furthermore, operation of the business requires at least some degree of accounting and reporting.

Any loss of such information can severely impact a consultant's practice. And yet, quite often data backup is implemented occasionally, if ever.

During the meeting, the panelists will discuss backup procedures used in their businesses. They will present their disaster and disaster-recovery experiences to the audience.

About the Speakers

The discussion panel will be comprised of long-term members of the IEEE Consultant's Network, who will share their experiences gained over many years in the business.

About the Network

The Consultants' Network of Northern NJ was founded in 1992 within the North Jersey Section of IEEE. It serves as an educational and business resource for IEEE members in independent practice. Its efforts are coordinated with other IEEE networks nationwide through the Alliance of Independent Consultants' Networks (IEEE-USA).

Time: 7:30PM, Thursday, May 27, 1999

Place: GEC Marconi Hazeltine Plant 18, 150 Parish Drive, Wayne, NJ.

Information: See <http://www.hicom.net/~cnnnj> or contact Robert Walker, 973-728-0344, r.d.walker@ieee.org.

NJ PES/IAS:

Energy Aggregation

On June 16, 1999 the IEEE North Jersey Power Engineering Society and Industrial Applications Society Chapters will host a presentation on "Energy Aggregation." The speaker will be Mr. Glenn Steiger, Vice President of Onsite Sycam.

About the Talk

The recently adopted energy deregulation legislation will allow individual consumers the option to choose their energy provider. While existing regulated utilities will continue to own and maintain the distribution system, customers will have the ability to purchase energy and related services through a cooperative purchasing arrangement known as energy aggregation.

The speaker will review the concept of energy aggregation and its opportunity to reduce energy costs through volume purchasing and the matching of customer load profiles. The presentation will cover several aspects of load aggregation and the potential opportunities it offers municipal governments, residences, school systems and businesses.

Time: 7:00 PM, Wednesday, June 16, 1999.

Place: Dialogic, 1515 Route 10 (East bound from Route 202), Parsippany, NJ.

Information: Ken Oexle 973-386-1156.

Recruit New Members and Earn Credit Towards Your IEEE Dues

Recruit	Credit
1 - 2 New Members.....	\$5.00
3 - 5 New Members.....	\$10.00
6 - 9 New Members.....	\$20.00
10 or More New.....	*Free Membership Members for Year 2000

*Payment for a full year membership is required

The program ends on August 15, 1999. Don't forget to fill in your name and membership number in the recruiter box on the application. Vouchers will be mailed by October 1999 and expire on December 31, 1999.

Get complete information and as many of the applications you will need, by giving your name and mailing address and the number of applications required to Don Weinstein, Kulite Semiconductor, One Willow Tree Road, Leonia, NJ 07605-2239, (201) 461-0900 Ext 234, mornings, or don@kulite.com.

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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, (908) 806-6898.

IEEE NJ SECTION HOME PAGE

<http://www-ec.njit.edu/~ieeenj/>

IEEE NJ SECTION NEWSLETTER HOME PAGE

<http://www-ec.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 Milton Korn (973) 365-2757, miltonkorn@aol.com.

Engineering Management Chapter Starting Up Again!

Within the geographic boundary of the North Jersey IEEE section there are just over 90 members of the Engineering Management Society currently on record. As a collection of professionals, this is a large pool of knowledge we are all missing out on. Gathering to listen to a timely topic presented by a leading authority or local member with first hand experience could provide insights otherwise missed. Combine the presentation with informal networking and shared experiences of fellow EMS members and we have all the ingredients of a very positive career-enhancing event.

To make this possible there are a few things we need to do to get the ball rolling. First and foremost, we need to hear from EMS members as well as others in the chapter who may be interested in participating. To better serve the group we will be sending a short survey to identify members interests and preferences. With this information, we can begin to line up speakers, topics, meeting times, etc., tailored to the requests of the group.

Second, there is an IEEE process to form a local EMS chapter. We need to obtain signatures on a petition to show there is local interest to form the chapter. This petition will be circulated with the survey.

Last but not least is member support. We will save the flag waving. However, as with any organization, it is the participation of the membership that leads to the organization's success. Participation may take the form of attending functions, and range to outright volunteering. Please let us know if you would be interested in joining us, and volunteer to help make this EMS chapter a reality. We want to hear from you, be it a request to serve as chairman or to make occasional telephone calls -- the strength of the chapter is in its member participation.

NNJ EMS members be on the lookout for a mailing around the end of April (if you didn't receive one, contact us please!) Contained in this mailing is the petition, as well as a survey to gather information about local members' interests and perspectives.

Plans are afoot to hold our first meeting some evening in mid-June. We tentatively hope to have an overview of the May IEMC Conference in Puerto Rico. Details will follow in upcoming newsletters and on the NNJ web page (<http://www-ec.njit.edu/~ieeenj/>).

Sound interesting? Willing to help in the planning stages? Want to share ideas or be a speaker at a meeting? Want to join the EMS? Have any questions at all? Please contact either:

✉ Amy Galarowicz at email:
a.galarowicz@ieee.org or phone:
(973) 239-5026, or
✉ Wayne Owens at email:
mlwo@aol.com or phone: (914) 398-1543.

NJ PES/IAS:

Power Quality Issues of Variable Speed Drives/Solid State Starter Applications

Under the auspices of IEEE-North Jersey PES/IAS Chapters there will be a technical presentation on "Power Quality Issues of Variable Speed Drives/Solid State Starter Applications" on May 19, 1999. The presentation will be given by Mr. R. Vittal Rebbapragada, P.E.

About the Talk

With the introduction of variable speed drives and solid state starters, selection and application of drive motors brought in requirements that were not required to be addressed when the drives were constant speed induction motors, built to NEMA MG-1. The issues that need to be addressed are: (1) Harmonics, (2) Transients in output current from PWM Inverters, (3) shaft voltage and bearing currents, (4) air gap flux. Knowledge of all these is necessary for proper application of this technology. As an example, does one need a 6 pulse, 12 pulse or 18 pulse system? This presentation will briefly address all these issues, and outline the requirements from already published ANSI/IEC Standards

About the Speaker

Mr. R. Vittal Rebbapragada, P.E., is employed by Raytheon E&C, Princeton, NJ as a Senior Consulting Electrical Engineer. Mr. Rebbapragada graduated with a BSEE from the Indian Institute of Science in 1959, and since has worked in Utility/Architect Engineering Firms in the areas of Generation, Transmission & Distribution. He is member of several technical committees of IEEE-PES, and a licensed professional engineer.

Time: 7:00 PM, Wednesday, May 19, 1999.

Place: Dialogic, 1515 Route 10 (East bound from Route 202), Parsippany, NJ.

Information: Ken Oexle 973-386-1156.

North Jersey Section Activities

May 1999

May 5—"NJ Section Executive Committee Meeting" – 7:00 PM, ITT, 100 Kingsland Road, Clifton, NJ. Milton Korn (973) 365-2757 or miltonkorn@aol.com.

May 18—"Braze Solutions in Thermal Management in Electronic Systems" – MTT/S/AP-S Chapter, 6:30 PM, NJIT, Room 202, ECE Building, Newark, NJ. Reservations, questions or directions: Dr. Chandra Gupta (973) 633-4469 (Marconi Aerospace), Dr. Edip Niver (973) 596-3542 (NJIT), or Willie Schmidt (973) 492-0371.

May 19—"Power Quality Issues of Variable Speed Drives/Solid State Starter Applications" – NJ IAS/PES Chapters, 7:00 PM, Dialogic, Inc., 1515 Route 10, Parsippany, NJ. Ken Oexle (973) 386-1156.

May 25-June 24—"Internet Programming/Web Application Development" – North Jersey Section, Tuesday and Thursday Evenings, 10 sessions, 6:30-9:00 PM, GEC-Marconi, Plant 11, 164 Totowa Rd, Totowa NJ. Gabe Silberman at (732) 463-6824 or silberman@ieee.org.

May 27—"Data Backup Practices for Your Business" - NJ Consultants' Network, 7:30 PM, GEC-Marconi, Hazeltine Plant 18, 150 Parish Drive, Wayne, NJ. Robert Walker at (973) 728-0344 or r.d.walker@ieee.org.

Upcoming Meetings

June 2—"NJ Section Executive Committee Meeting" – 7:00 PM, ITT, 100 Kingsland Road, Clifton, NJ. Milton Korn (973) 365-2757 or miltonkorn@aol.com.

June 16—"Energy Aggregation" – NJ IAS/PES Chapters, 7:00 PM, Dialogic, Inc., 1515 Route 10, Parsippany, NJ. Ken Oexle (973) 386-1156.

Members and Non-Members Welcome

PLEASE POST

IEEE North Jersey Section Home Page

The latest information regarding the North Jersey Section, events, meetings and activities can be found at the North Jersey Section Home Page:

<http://www-ec.njit.edu/~ieeenj/>

Check it out today!

IEEE North Jersey Section Course

Internet Programming/Web Application Development

Tuesday and Thursday Evenings, May 25 through June 24, 1999
(May 25, 27, June 1, 3, 8, 10, 15, 17, 22, and 24)

GEC Marconi, Plant 11, 164 Totowa Road, Totowa, NJ
(Checks **should not** be mailed to this address)

The IEEE is offering an evening course entitled "Internet Programming/Web Application Development." The course will run for 5 weeks. Each session will run for 2 ½ hours with a short break approximately in the middle.

- ♦ Anyone who is interested in developing web sites
- ♦ Windows programmers making a transition to Internet technology
- ♦ Database personnel wanting to migrate to web development using web servers

TOPICS

- ♦ *Fundamentals of Internet/Intranet*
- ♦ *HTML(HyperText Markup Language)*
- ♦ *FrontPage97/98 and other HTML editors*
- ♦ *Extensive use of Graphics/Image tools*
- ♦ *Integrate Multimedia in Web Pages*
- ♦ *Database Concepts - MS Access and MS SQLServer*
- ♦ *Database Integration with Web Applications*
- ♦ *Application Development : Introduction to JavaScript & VB Script*
- ♦ *Designing an Effective Web Site*

Class size will be limited to a maximum of 25 with a minimum of 15. Early registration is recommended. Phone reservations will NOT be accepted. Applications postmarked after May 14th will require an additional late fee of \$25. No applications accepted after May 18.

WHERE: GEC-Marconi, Plant 11, 164 Totowa Rd, Totowa NJ. (Checks **should not** be mailed to this address)

WHEN: Tuesdays and Thursdays:: May 25 through June 24 1999 - 6:30-9:00 PM

COST: IEEE members \$250; Non-members \$350

CONTACT: Gabe Silberman at (732) 463-6824 or silberman@ieee.org

REGISTRATION: Internet Programming/Web Application Development

To: Mr. Gabriel Silberman, 57 Sandford Rd, Fair Lawn, NJ 07410-4203 (Checks **should be mailed to this address**)

Name: / Mr. / Mrs. / Miss / Ms. / _____

☐ Nonmember

☐ IEEE Member Member #: _____ Member of _____ technical society

Employer: _____

Address: _____

Home Address: _____

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

Please enclose required fee payable to: North Jersey Section IEEE

Registration status will be mailed after May 14, 1999. Phone inquiries concerning registration will NOT be honored. In general, the effective date of the application corresponds to the date when BOTH a fully completed application & payment are received.

☐ Tuition receipt will be mailed only if this box is checked Signature: _____