IEEE Newsletter

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

NJ Section PACE:

Engineers Meet: Legislative Action: Off-Shoring NJ Jobs, Roll Back H-1b Numbers

On Wednesday, September 10th, the North Jersey Section Professional Activities Committee will meet to discuss Legislative Action involving the Off-Shoring of NJ State jobs, Roll Back H-1B Numbers, and a Washington trip report.

The NJ State Senate and Assembly will convene in September. The Assembly will consider A2425. See PACE NEWS this issue. As the job situation for members of the engineering community worsens this will prepare us to present and discuss our concerns with our representatives.

You do not have to be unemployed to attend. All jobs are being threatened. You are encouraged to attend and bring your spouse and associates.

About the Meeting:

This meeting provides an opportunity to meet and discuss action items relating to the unemployment situation. High on the IEEE-USA list of subjects is unemployment and the displacement of American citizens by sending jobs offshore and importing foreign workers under the H-1B and L1 legislation. The New Jersey State Assembly has introduced legislation affecting sending New Jersey jobs off shore.

This year one IEEE-USA goal is to roll the H-1B number back to 65,000 from 195,000. And, please do not confuse this as an "immigration" issue. This is all about money and wage busting.

Report: Marcus Muncy will report about a seminar he attended at the Leadership Institute's Legislative Project Management School, in August at the Leadership Institute in Arlington, VA. The seminar covers how to turn legislative agenda into law, techniques dealing with the media, to working with lobbying organizations, collaborating with Hill offices, etc. Marcus is a member of the American Engineering Association, (AEA) and the IEEE North Jersey Section. AEA is covering the cost.

We need input and views from the unemployed on these important issues. We need your help and you will be able to make things happen.

Our PACE meeting is open to discuss professional needs. PACE provides the opportunity to meet, address, discuss and perhaps improve the professional aspects of the engineering profession. We should take advantage of the opportunity to have a place and time to meet. Invite your associates to join us. Bring engineers and students from the other engineering disciplines

According to IEEE-USA leaders "Employment Assistance and Career Development are important" and they request your help. More on these projects can be found at www.ieeeusa.org.

"Today's Immigrant - Tomorrow's Victim" see www.aea.org.

Welcome!

You do not have to be a member of the IEEE to attend. Members and students from other professional societies and engineering disciplines are always welcome.

Time: 6:30 to 8:30 PM, Wednesday, September 10, 2003.

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

PES/IAS:

Energy Pricing NJ

The Power Engineering and Industrial Applications Chapters will sponsor a technical meeting on September 18 concerning forces that are affecting the cost of electric energy in New Jersey. The speaker is Peter Yochum, New Jersey Board of Public Utilities.

About the Talk

In 1999 New Jersey enacted deregulation legislation to make the retail natural gas and electric markets competitive. The New Jersey Board of Public Utilities ("BPU") was charged with the responsibility of implementing this legislation.

There were two basic aspects of implementation. The process portion: enrollment, metering, billing and consumer protection produced what is generally considered a workable framework for competition. However in the area of rate design, fixed retail commodity rates during a period of rising wholesale costs hindered the ability of retail suppliers to compete.

The BPU is now implementing new initiatives, which become effective August 1, 2003. Rates for all New Jersey customers will change and in some cases the rate design modifications will be dramatic. Peter Yochum's presentation will focus on the reasons behind and implications of these rate design changes.

Time: 7:00 PM, Thursday, September 18. 2003.

Place: PSE&G Training Center, Edison, NJ. Directions: Route 287 to Route 1 North, about 500 feet. Right on Pierson Road. PSE&G first driveway on left.

Information: Ken Oexle (973) 386-1156.

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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) 791-4067.

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 Dr. Sanghoon Shin at (973) 492-1207 Ext. 22, s.shin@jeee.org.

PACE NEWS

By Richard F Tax

September Legislative Alert: NJ State Assembly

We are inviting you to write, FAX and/or call your Representatives at the New Jersey State and local level. This is another important step in enhancing the job market for engineers. www.ieeeusa.org.

With your much needed help we will be more successful in informing your representatives.

Contact your state legislators to ask that they support A2425 and A3529. This is in reference to sending NJ jobs off shore.

The NJ Assembly bill is in trouble because off shore special interest groups are mobilizing to oppose the bill. These groups have suggested certain amendments that would "gut" the bill.

We do not want this legislation watered down to defeat the purpose of keeping US jobs, especially those of the public sector, in the hands of US citizens.

Included is the Legislation information with Representative Contacts about the legislation citing the relevant URL addresses and information to reach your New Jersey State Members of the Assembly.

Special attention: the text of New Jersey legislation ASSEMBLY No. 2425 can be found at http://www.njleg.state.nj.us/2002/Bills/A25 00/2425_I1.HTM. Sponsored by: Assemblyman Reed Gusciora, this provides that only citizens or legal residents of the United States may be employed in performing certain State contracts.

Special attention: the text of New Jersey legislation ASSEMBLY No. 3529 can be found at http://www.njleg.state.nj.us/2002/Bills/A35 00/3529_I1.HTM. Sponsored by: Assemblywoman Linda R. Greenstein, this provides for regulation of certain call center communications by Division of Consumer Affairs.

Call and Email these representatives.

Your Representatives can be contacted through the following web sites and map.

Entire list of your NJ representatives and Legislation

http://www.njleg.state.nj.us/members/abcr oster.asp

Here's a handy map to find your local NJ rep

http://www.njleg.state.nj.us/districts/njmap 210.html

Be sure to call and email! Calling will be more effective in the emotional and importance of the message. Also, stay focused on off-shoring. Get a full name of your contact. Be polite. Smile – You are making things happen.

Leave an impression on this issue. Call back if you have other issues.

2nd ISSUE: Roll Back the H-1B Numbers from 195,000 to 65,000. This will be considered in the fall of 2003.

Companies are having American workers train their own H-1B replacements. This has got to stop.

Call your Congressional Representative. You might want to mention that according to your source www.nomoreh1b.com more than 220,000 New Jersey workers are unemployed while more than 140,000 foreign workers are employed in NJ under the H-1B legislation.

US Congress: Get your Rep at: http://www.house.gov/writerep/, US Senators: http://www.senate.gov/

Please, CALL STAR LEDGER, Main office: 973-392-4141 & ask for coverage on S1349, A2425. www.starledger.com

How is the employment situation affecting you? How is outsourcing affecting you?

REMEMBER: the job you save may be your own. We have 4500 members in North Jersey. Make it work.

For more information attend our PACE meetings. See meeting notice in this issue.

Governor of New Jersey

http://www.state.nj.us/governor/govma il.html

For more information get to:

- www.ieeeusa.org
- > www.ZaZona.com
- www.aea.org
- > www.numbersusa.com
- http://www.fairus.org/
- http://www.zazona.com/ShameH1B/
- http://heather.cs.ucdavis.edu/itaa.html

IEEE, North Jersey Section web page ➤ http://web.njit.edu/~ieeenj/

Richard F Tax, IEEE, North Jersey Section PACE Chairman VP American Engineering Association



Need Help? Don't Wait for a Crisis!

FREE referral service:

IEEE CONSULTANTS' NETWORK OF NORTHERN NJ www.TechnologyOnTap.org

IEEE North Jersey Section Activities September 2003

- **Sept. 3** "NJ Section Executive Committee Meeting" 7:00 PM, ITT, 100 Kingsland Rd, Clifton, NJ. Dr. Sanghoon Shin at (973) 492-1207 Ext. 22 or s.shin@ieee.org.
- **Sept. 10** "Engineers Meet: Legislative Action Off-Shoring NJ Jobs" NJ PACE, 6:30 8:30 PM, Clifton Memorial Library, 292 Piaget Ave, Clifton, NJ. Paul Ward (973) 790-1625 (PWard1130@aol.com) or Richard F. Tax (201) 664-6954 (rtax@bellatlantic.net).
- **Sept. 16** "Standards, Algorithms, Measurement Techniques and Applications for Voice Quality in VoIP Communication" NJ Computer Chapter, 7:00 PM, Public Meeting Room, Morris County Library, 30 E. Hanover Ave, Whippany, NJ. Howard Leach, (973) 540-1283 (hleach@ieee.org) or Seth Jakel, (973) 731-1902 (sgjakel@yahoo.com).
- **Sept. 17** "Advanced JAVA Programming" North Jersey Section, Wednesday Evenings, 10 sessions, 6:30-9:00 PM, Ramada Inn, 265 Route 3 East, Clifton, NJ. Bhanu Chivakula (b.chivakula@computer.org).
- **Sept. 18** "Energy Pricing NJ" NJ IAS/PES Chapters, 7:00PM, PSE&G Training Center, Edison, NJ. Ken Oexle (973) 386-1156.
- **Sept. 20** "One-Day PACE Workshop Survival in a Competitive Environment" NJ Coast PACE Chapter, 8:00 AM 5:00 PM, Meeting Rooms 107/108, Magill Commons, Monmouth University, West Long Branch, NJ. See http://ewh.ieee.org/r1/njcoast/calendar.htm or contact Dr. Amruthur Narasimhan, (732) 957-0850 (anarasimhan@ieee.org).
- **Sept. 25** "Professional Engineer Licensing" NJ Consultants' Network, 7:30 PM, MCE/KDI Triangle, 60 S. Jefferson Rd, Whippany, NJ. Robert Walker (973) 728-0344 or www.TechnologyOnTap.org.
- **Sept. 25** "Symposium on Security in e-business: Opportunities, Technical Issues and Implementation" NJ Coast PACE and Consultants Network Chapters, 9:00 AM 5:00 PM, Meeting Rooms 107/108, Magill Commons, Monmouth University, West Long Branch, NJ. See http://ewh.ieee.org/r1/njcoast/calendar.htm or contact Dr. Amruthur Narasimhan, (732) 957-0850 (anarasimhan@ieee.org). Register by September 4, 2003 to get lower rates.

Upcoming Meetings

- Oct. 1 "NJ Section Executive Committee Meeting" 7:00 PM, ITT, 100 Kingsland Rd, Clifton, NJ. Dr. Sanghoon Shin at (973) 492-1207 Ext. 22 or s.shin@ieee.org.
- Oct. 2 "2003 MTT/AP Symposium and Mini-Show" MTT-S/AP-S Chapter, 9:00 AM 6:00 PM, Radisson Hotel Fairfield, 690 Route 46 East, Fairfield, NJ. Kirit Dixit (201) 400-2313, Willie Schmidt (973) 492-0371, Har Dayal (973) 633-4618, or George Kannell (973) 386-4170.
- Oct. 17-18 "Call for Participation Consortium for Computing Sciences in College Eastern Region Nineteenth Annual Conference" Montclair State University, Upper Montclair, NJ. For further information see http://www.csam.montclair.edu/~deremer/CCSCE2003Call.pdf or http://www.ccsc.org.
- Oct. 23 "The Art of Cold-Calling What You Need to Know" NJ Consultants' Network, 7:30 PM, MCE/KDI Triangle, 60 S. Jefferson Rd, Whippany, NJ. Robert Walker (973) 728-0344 or www.TechnologyOnTap.org.
- Oct. 24 "Power Systems Grounding Technical Seminar" Sponsored by the NJ IAS/PES Chapters, 9:00 AM to 3:00 PM, JCP&L, 300 Madison Avenue, Punchbowl Room, Morristown, NJ. Contact Ronald W. Quade at (212) 833-0268 or RonaldWQuade@eaton.com.
- **Jan. 5-8** "2004 IEEE Consumer Communications and Networking Conference Consumer Networking: Closing the Digital Divide" Caesars Palace, Las Vegas, Nevada. See http://www.ccnc2004.org/ for more details.

Members and Non-Members Welcome PLEASE POST

NJ Computer Chapter:

Standards, Algorithms, Measurement Techniques and Applications for Voice Quality in VoIP Communication

On Tuesday, September 16th, the IEEE North Jersey Section Computer Chapter will host a presentation on "Standards, Algorithms, Measurement Techniques and Applications for Voice Quality in VoIP Communication" by Aart Konynenberg.

About the Talk

Quality of Speech (QoS) testing is one the key issues in modern telecommunications. Whether it is during the equipment development, network setup, or network operation, one will always be faced with the problem to determine and optimize the quality of speech. This especially becomes critical with new technologies such as VoIP that inherently trade quality for bandwidth and New evaluation techniques efficiency. based on modeling human perception have been devised to tackle this issue. presentation will give comprehensive understanding of how speech quality testing works and why it is required. It will also provide an overview on the latest standards for state of the art of QoS testing.

About the Speaker

Aart Konynenberg, Vice President of Business Development, Opticom Instruments Inc., assists companies with their technology roadmap, product verification, and network design reviews. He also teaches, writes papers, and presents at many conferences. Before joining Opticom, Aart worked for a number of T&M companies as Product Manager, Marketing Manager, and Director responsible for a wide selection of Telecommunication and IP test equipment.

He represented Tektronix on numerous standards committees, including ANSI, IEEE, and ITU. He holds several patents for measurement technologies in Telecommunication networks. Aart has extensive experience in test as well as reliability, availability, and serviceability dating back to his time in the Air Force where he managed Radio Relay Communication networks.

All Welcome!

You do not have to be a member of the IEEE to attend. Bring your co-workers and network during the free buffet starting at 6 PM.

Time: 7:00 PM, Tuesday, September 16, pre-meeting buffet at 6:00 PM.

Place: Public Meeting Room, Morris County Library, 30 E. Hanover Ave, Whippany, NJ, (973) 285-6930.

Information: Howard Leach, (973) 540-1283 (hleach@ieee.org) or Seth Jakel, (973) 731-1902 (sgjakel@yahoo.com).

NJ Consultants' Network:

Professional Engineer Licensing

Mr. Elliot Shapiro of Shapiro Engineering will discuss issues related to Professional Engineer licensing at the September 25th meeting of IEEE Consultants' Network of Northern NJ.

About the Talk

While effectively a must in civil or mechanical engineering disciplines, PE licensing appears to be not very common among those active in electrical, electronic and software design. This could be driven both by tradition and by the "industrial exemption" of our clients.

And yet, licensing as a professional Engineer can bring many benefits to the independent practitioner. Aside of the obvious – the ability to call oneself an engineer and the business "engineering" – a license can open new doors and encourage new clients.

Particularly, governmental entities typically require licensing regardless of scope and type of work. Those pursuing expert witnessing can convey extra credibility. Even securing professional insurance may be less expensive.

The presentation will describe potential benefits of licensing and the process of obtaining a state license.

About the Speaker

Elliot J. Shapiro, PE, is the principal of Shapiro Engineering of Valley Stream, NY. He utilizes a mechanical engineering background in operation of environmental engineering business. specializing in waste handling and treatment and in industrial pollution issues. Shapiro Engineering is accredited by NY State as a commercial laboratory, offering analytical services. Mr. Shapiro is a member of the World Trade Center Building Code Task Force, which reviews and upgrades regulations pertaining to high-rise buildings, such as events and conditions for which buildings should be designed, fire protection and evacuation. He can be contacted at (516) 791-2300.

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!

You do not have to be a member of the IEEE or of the Consultants' Network to

attend. Admission is free.

Time: 7:30 PM, Thursday, September 25th, 2003.

Place: MCE/KDI Triangle, 60 S. Jefferson Rd, Whippany, NJ. (Entrance at rear of building)

Information: For directions and up-todate 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.

Conference Rooms Needed!

The North Jersey Section (Education Committee) is looking for conference room facilities to hold their training seminars. The seminars are being held on one weeknight from 6:30 PM to 9:00 PM. In lieu of providing the conference facility for free, the organization can get free registration up to three members in the course/seminar. Please contact Bhanu Chivakula, Co-chair, Education Committee at b.chivakula@computer.org for suggestions or discussions, if interested.

Update Your Membership Profile

If you've recently updated your address, email or phone number, you can quickly update your member profile on the web at http://www.ieee.org/coa, or send an email to address-changes@ieee.org. Accurate contact information ensures prompt delivery of meeting announcements, activities and newsletters.

It Pays to Advertise in the Newsletter

Over 5000 readers who are influential electrical, electronics, in the and computer industry receive the IEEE Newsletter each month (except July). many readers represent companies in the North Jersey area. Included are manufacturers, consultants, sales representatives, universities, and colleges. You can reach this targeted professional audience with your advertisement in the Newsletter.

For information about advertising in the IEEE Newsletter, contact the North Jersey Section Business Manager, Keith Saracinello, at k.saracinello@ieee.org, or call (908) 791-4067 after business hours (leave message).

Amrutek Services Presents a Symposium On

Security in e-business: Opportunities, Technical Issues and Implementation

by
Dr. Manu Malek
Director of CyberSecurity Certificate Program at Stevens Institute of Technology
& Dr. Amruthur Narasimhan
President, Amrutek Services Inc.

Sponsored by IEEE NJ Coast, & PACE & Consultants Network

ABSTRACT

Many e-business applications use the Internet/World Wide Web for transactions. Due to the openness and ubiquity of the Internet, and because security vulnerabilities always exist, security has become a major concern. In fact, the growing volume and intensity of security incidents, coupled with post-9/11 heightened security concerns, have made security the most important issue relative to the progress of e-commerce. Hence, today's e-business services must include solutions that provide security as a primary component in their design and deployment. Furthermore, with the proliferation of e-services over corporate networks, security is also critical to the successful deployment of these services.

This one-day symposium will provide an overview of e-business and its infrastructure and security needs. Typical e-business infrastructure and transactions will be described. An overview of security services and mechanisms will be provided. A general introduction to the field of security, covering threats, countermeasures, as well as design principles, and practical examples of how to integrate security services into e-business will be discussed. Security vulnerabilities will be explained by presenting a few examples of security attacks and the safeguards needed to counter them. A brief description of products /applications offered by some major companies, such as IBM and Sun Microsystems will be provided. Also, implementation aspects, covering typical architectures for various e-business models, with the related security issues, will be provided.

For more details on

- ➤ What you will Learn
- > Seminar Speakers
- > Registration

Go to http://ewh.ieee.org/r1/njcoast/calendar.htm

Time: 9:00 AM – 5:00 PM, September 25, 2003. Breakfast starts at 8.30 AM

Place: Meeting Rooms 107/108, Magill Commons, Monmouth University, West Long Branch, NJ.

Information: Dr. Amruthur Narasimhan, (732) 957 0850 (anarasimhan@ieee.org)

REMEMBER TO REGISTER BEFORE September 4, 2003

THE INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS, INC.



IEEE NORTH JERSEY SECTION

MTT-Society and AP-Society Joint Chapter

PRESENT

18TH ANNUAL SYMPOSIUM AND MINI-SHOW

FOCUS: CURRENT TOPICS IN RF AND MICROWAVE COMMUNICATION

Thursday, October 2, 2003
Radisson Hotel Fairfield, 690 Route 46 East, Fairfield NJ 973-227-9200

The conference presents a series of 10 –12 lectures featuring speakers from leading companies with emphasis on military electronics, wireless technologies and microwave communications.

SCHEDULE OF EVENTS

9:30 AM TO 6:00 PM - MINI SHOW FEATURING LATEST PRODUCTS (Approx. 30-40 Exhibitors) 9:00 AM TO 5:30 PM - TECHNICAL SESSIONS

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

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

http://www-ec.njit.edu/~ieeenj/NEWSLETTER.html

FOR FURTHER INFORMATION CONTACT KIRIT DIXIT (201-400-2313), WILLIE SCHMIDT (973-492-0371), HAR DAYAL (973-633-4618), OR GEORGE KANNELL (973-386-4170).

THERE IS NO CHARGE TO ATTEND THE SYMPOSIUM OR SHOW

NJ PES/IAS:

Power Systems Grounding Technical Seminar

The PES and IAS Chapters will sponsor a one-day seminar covering Power Systems Grounding. The session will be held on Friday, October 24th at JCP&L, 300 Madison Avenue, Punchbowl Room, Morristown, NJ 07962.

About the Seminar

The instructor will be David Shipp, P.E., Product Line Manager and Principal Engineer for Cutler-Hammer Engineering Services and Systems Division. Dave has over 31 years of experience, is an IEEE Fellow and a member of the Society of Petroleum Engineers. He has published several papers for IEEE and EC&M Magazines. Dave is an active member of several of the IEEE working groups that publish the IEEE Color Book Series. Dave has recently published many papers on the topic of electrical submersible pumps for the Society of Petroleum Engineers as well.

Power System grounding is the most misunderstood aspect of power system design. This technical seminar will cover the characteristics of different power system grounding techniques, industry practices, NEC requirements, Ground Fault Protection and Detection, special generator grounding requirements, switchgear ground fault testing requirements, Electronic Grounding, Ground mats, etc.

The key points to be covered are:

- 1. Characteristics of Different Power System Grounding Techniques
- 2. Types of System Grounding
- 3. NEMA/Arcing Ground Faults
- 4. NEC Article 250 -- Grounding
- 5. NEC Article 230-95 -- Ground Fault Protection
- 6. Performance Testing -- (Switchgear GFP)
- 7. Electronic Grounding
- 8. System Ground Fault Protection Modifications
- 9. Ground Mats/Bonding

The registration fee for this seminar prior to October 10th will be \$150 (non-IEEE members), \$100 (IEEE Members), and \$50 (students with valid ID). The fee will be waived for IEEE Life Member Grades with verification at the seminar. Registrations after October 10th 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.

Time: 9:00 AM to 3:00 PM, Friday, October 24, 2003.

Place: JCP&L, 300 Madison Avenue, Punchbowl Room, Morristown, NJ.

Directions: Route 287 to Route 124 Exit in Morristown. Follow signs toward Madison, JCP&L is about 1.5 miles

on the left side.

Information: Ronald W. Quade, PE, (212) 833-0268 or RonaldWQuade@eaton.com.

Registration: Power Systems Ground Technical Seminar 10/24/2003

Register via US mail to: Ronald W. Quade, PE

Eaton Cutler-Hammer 830 Third Avenue

Suite 920

New York, NY 10022

Name				
Address				
Phone	Email			
IEEE #	Student @		Life Member	
Payment Enclosed \$		ate registration after Oct		

IEEE North Jersey Section Seminar Advanced Java Programming

Wednesday Evenings, September 17, 2003 through November 19, 2003 - ten weekly classes (September 17, 24, October 1, 8, 15, 22, 29, November 5, 12, 19, 2003)
Ramada Inn, 265 Route 3 East, Clifton, NJ (Checks should not be mailed to this address)

The North Jersey Section IEEE is offering an evening course entitled "Advanced Java Programming." About 2.5 million Java Programmers are currently working on all types of commercial projects in the world, ranging from cell phone applets, to UNIX server, to mainframe data-warehouse access. This course covers various server side programming techniques. The prerequisite for this course is that attendees should know fundamentals of Java or have completed an Introduction to Java Programming seminar.

Instructor: Donald Hsu, PhD, has been a corporate manager for 11 years and is an experienced trainer. Since 1997, he trained 300+ people in Java Programming and Advanced Java Programming courses in seven organizations.

TOPICS

- 1. Explain the concept of Multithreading and Collections
- 2. Distinguish different types of Java Servlets and Networks
- 3. Define the use of Java Database Connectivity and Remote Method Invocation
- 4. Identify the details of Advanced Swing and Advanced AWT
- 5. Construct Enterprise Java Beans and Cold Fusion
- 6. Analyze Firewall Security and Internationalization issues
- 7. Contrast ASP vs. JSP, Corba vs. Dcom, Jini, Soap, J2ME
- 8. Build XML and advanced Multi-tier Web Servers

Register and send checks via US mail to:

received.

- 9. Employ Sun One Studio, IBM WebSphere, Bea WebLogic
- 10. Complete Server projects using development tools
- 11. Present real-world Server projects

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. Reservations accepted after September 1, 2003 will require a late fee of \$25. No reservations will be accepted after September 6, 2003.

WHERE: Ramada Inn, 265 Route 3 East, Clifton, NJ. (Checks should not be mailed to this address)

WHEN: 10 Sessions, Wednesdays, September 17, 24, October 1, 8, 15, 22, 29, November 5, 12, 19, 2003, 6:30-9:00 PM.

Bhanu Chivakula

COST: With textbook or notes: IEEE (& affiliate) members \$350; Non-IEEE members \$450.

CONTACT: Bhanu Chivakula -email b.chivakula@computer.org

REGISTRATION: Advanced Java Programming

	19 Prestwick Way Edison NJ 08820	
Name: / Mr. / Mrs. / Miss / Ms. /		∕eemail address∌
☐ IEEE /Associate Member #:	Member of	technical society
Employer:		
Employer Address:		
Home Address:		
Business (day) telephone #:		
Please enclose required fee payable to: North Jer	rsey Section IEEE	

□ Tuition receipt will be mailed only if this box is checked Signature:______

Registration status will be mailed after September 6, 2003. 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/registration and payment are