NJ Section PACE/SAC:
The Assault on the Careers of American Engineers & What We Might Do About It

On Wednesday, August 11, 2004, the North Jersey Section PACE/Student Activities Committee will meet to discuss conditions facing our engineering professionals. Our guest speaker will be Dr. Stephen H. Unger.

About the Talk
The careers of engineers in the US are being devastated by a combination of outsourcing of work to countries with very low pay scales and the importing of engineers from such countries. This is an integral part of the process that continues to eliminate manufacturing in the US. We need to think about the problem in a pragmatic way and to devise practical solutions based on reality rather than on slogans involving such terms as free trade or protectionism.

It is suggested that you come with the concerns that you have as they relate to your profession and those of your colleagues.

About the Speaker
Dr. Stephen H. Unger is a Professor of Computer Science (and of Electrical Engineering) at Columbia University. He has published many papers and given many talks on technology policy issues, including engineering ethics, energy, and government imposed secrecy.

Prior to Columbia University, Dr. Unger was with the Bell Telephone Laboratories. He was a founder, and later President of, the Society on Social Implications of Technology. He recently served on the Board of Directors of the IEEE, and was a member of the IEEE US Activities Board, Publications Board, and Educational Activities Board. He was a member of the IEEE Ethics Committee from 1995-98, serving as chairman from 1997-98. He received the IEEE Centennial Medal (1984), the IEEE USAB Distinguished Contributions to Engineering Professionalism Award (1987), and the IEEE Millennium Medal (2000). Dr. Unger is a Guggenheim Fellow, a Fellow of the IEEE and a Fellow of the AAAS. His degrees include: BEE (Polytechnic Institute of Brooklyn), MS and ScD (MIT).

All Welcome!
Guests, members and students from other professional societies and engineering disciplines are always welcome. We now include members from IEEE, ASME and AEA.

Time: 6:30 to 9:00 PM, Wednesday, August 11, 2004. Free refreshments will be served.

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@AEA.org).

Interested in Being a North Jersey Section Officer?
The North Jersey Section Nominating Committee will soon begin to consider candidates for section officers for next year. We request that those who are interested in a section office submit their name, office sought, and qualifications to the Committee Chair, Dr. Fred Chichester, by mail at 56 Gordonhurst Ave
Upper Montclair, NJ 07043

For further information, you may telephone him at (973) 744-7340 between the hours of 8:00 AM and 9:00 PM.

Reminder - Newark Bears Baseball Game
Tickets are now available for the Sunday, August 22nd baseball game between the Newark Bears and the Bridgeport Bluefish. It’s a good chance to get out with your family and co-workers and enjoy the great American pastime. The game will be played at Bears Stadium on route 21 in Newark. It is a modern 6200 seat stadium which is easy to get to and has convenient parking available. The game starts at 1:35 PM which makes it a great family outing. The box seat tickets, which normally sell for $9.00 each, are available to North Jersey IEEE members at only $3.00 each.

To order your tickets, or for more information, contact Art Greenberg at (973) 386-6673 or by email at ahg1@lucent.com no later than August 10th. Payment for tickets must be received by August 14th.

For information about the Newark Bears, the stadium, or directions, go to their website: http://www.newarkbears.com/

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, Education Committee Chairman, at b.chivakula@computer.org for suggestions or discussions, if interested.
August 2004
Volume 51, Number 2
Publication No: USPS 580-500
“The IEEE Newsletter” (North Jersey Section), is published monthly except June and July by The Institute of Electrical and Electronics Engineers, Inc. Headquarters: 3 Park Avenue, 17th Floor, New York, NY 10016-5997. $1.00 per member per year (included in annual dues) for each member of the North Jersey Section. Periodicals-class postage paid at New York, NY and at additional mailing offices. Postmaster send address changes to: “The IEEE Newsletter”, 445 Hoes Lane, P.O. Box 1331, Piscataway, NJ 08855-1331. USPS 580-500 (ISSN 1076-3732).

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DEADLINE FOR RECEIPT OF MATERIAL
The 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.

SECTION OFFICERS
Chairman ...................................... Dr. Durga Misra
Vice-Chairman-1............................. Har Dayal
Vice-Chairman-2............................. Bhanu Chivakula
Treasurer ................................. Dr. Edward (Ted) Byrne
Secretary ................................. Dr. Sanghoon Shin
s.shin@ieee.org (973) 492-1207 Ext. 22

Members-at-Large:
Dr. Nirwan Ansari (nirwan.ansari@njit.edu)
Naz Simonelli (naz@ieee.org)
Dr. Richard Snyder (r.snyder@ieee.org)

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@ieee.org.

NJ Computer Chapter:
Digital Libraries: An Introduction
On Tuesday, August 24, 2004, the IEEE North Jersey Section Computer Chapter will host a presentation titled “Digital Libraries: An Introduction” by Dr. Nabil R. Adam.

About the Talk
Research in digital libraries has recently come into its own discipline. This new discipline has been legitimized by the significant number of funded research projects, and conferences, journals, and other traditional and on-line publications dedicated to the study and advancement of digital libraries. This tutorial will attempt to provide a broad range of information about digital libraries, including an overview of the area, key features, examples and applications, and research projects, and current related work that address research challenges in the area.

About the Speaker
Dr. Nabil R. Adam received his MS, MPhil, and PhD degrees from Columbia University. He is a Professor of Computers & Information Systems and the Director of the Center for Information Management, Integration, and Connectivity (CIMIC) at Rutgers University and member of the Department of Computer & Information Science at NJIT. Dr. Adam is Editor-in-Chief of the International Journal on Digital Libraries and serves on the editorial board of the Journal of Management Information Systems and the Journal of Electronic Commerce. He has co-authored/co-edited nine books including one on Databases Issues in GIS, (Kluwer Academic Publisher, 1997); one on Electronic Commerce (1996), two on Digital Libraries (1995, 1996) and one on Advanced Databases (1993), all published as part of the Springer Verlag Lecture Notes Series in Computer Science. He is the co-founder and current chair of the IEEE Computer Society Task Force on Digital Libraries. He was General Chair of the 1997 IEEE International Conference on the Advances in Digital Libraries (IEEE ADL’97). He also serves as a consultant to several organizations.

All Welcome!
You do not have to be a member of the IEEE to attend. Bring your friends and network during the free pre-meeting buffet starting at 6:00 PM.

Time: 7:00 PM, Tuesday, August 24, 2004.
Pre-meeting buffet starts at 6:00 PM.

NJ Consultants’ Network:
Insurance and the Independent Consultant
On Thursday, September 23, 2004, the IEEE Consultants’ Network of Northern NJ (CNNNJ) will host a talk on “Insurance and the Independent Consultant.”

About the Talk
Operating without a corporate or employer’s umbrella, independent consultants need to understand well the available options, particularly insurance options, to secure their business and personal assets and provide for their healthcare. A panel of engineering consultants and representatives from the insurance industry will discuss critical business, liability, and health concerns and necessary insurance protection from the viewpoint of the independent consultant. The discussion will include:

• Which consulting businesses need insurance?
• What kinds of insurance do I need for my business?
• What options are available for:
  • Business property insurance?
  • Business liability insurance?
  • Health insurance?
• Where can I find group coverage?
The panel will take questions from the audience.

About the Panel
Engineers from the Consultants Network of Northern NJ with successful consulting businesses will speak on their experiences in purchasing and using insurance. Representatives from insurance firms will explain the insurance options available in today’s market.

All Welcome!
Everyone welcome. No registration needed. Free admission.

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.

Place: Aeroflex/KDI-Integrated Products, 60 S. Jefferson Rd, Whippany, NJ.
(908) 229-6125 (vshaiva@computer.org).
IEEE North Jersey Section Activities
August 2004

Aug. 4 – “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.

Aug. 10 – Reservation Deadline for Newark Bears Baseball Game – Contact Art Greenberg at (973) 386-6673 or ahgl1@lucent.com to reserve your seat.

Aug. 11 – “The Assault on the Careers of American Engineers & What We Might Do About It” - NJ PACE/SAC, 6:30 – 9:00 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).

Aug. 24 – “Digital Libraries: An Introduction” - NJ Computer Chapter, 7:00 PM (pre-meeting buffet at 6:00 PM), Public Meeting Room, Morris County Library, 30 E. Hanover Ave, Whippany, NJ. Seth Jakel (973) 731-1902 (sgjakel@comcast.net) or Vivek Shaiva (908) 221-6125 (vshaiva@computer.org).

Upcoming Meetings

Sept. 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.


Sep. 22-Dec. 1 – “Project Management” – North Jersey Section, North Jersey Section, Wednesday Evenings, 10 sessions, 6:30-9:00 PM, NJ International Bulk Mail Center, 80 County Rd, Class Room #2, 3rd Floor, Jersey City, NJ. Bhanu Chivakula (b.chivakula@computer.org).


Sep. 26 – “North Jersey Section 50th Anniversary Spirit of NJ Harbor Cruise” – NJ Section, 7:30 PM, Port Imperial Marina, Pershing Circle, Weehawken, NJ. Howard Leach (hhleach@aol.com).

Sep. 27-Dec. 6 – “Advanced Java Programming” – North Jersey Section, North Jersey Section, Monday Evenings, 10 sessions, 6:30-9:00 PM, NJ International Bulk Mail Center, 80 County Rd, Class Room #2, 3rd Floor, Jersey City, NJ. Bhanu Chivakula (b.chivakula@computer.org).


Fall 2004 – “Introduction to .NET and C#” - North Jersey Section, 1 Day Course, Time, Date and Location TBA,. Bhanu Chivakula (b.chivakula@computer.org).

Fall 2004 – “Object-Oriented Design Training” - North Jersey Section, 1 Day Course, Time, Date and Location TBA,. Bhanu Chivakula (b.chivakula@computer.org).

Members and Non-Members Welcome

PLEASE POST
2004 Awards Banquet

From left - Durga Misra, Section Chair, with Region 1 Award Recipients Richard Tax, Al Stolpen, George Kannell, Won Kim and Roger Sullivan, Region 1 Director

From left - Kirit Dixit, Mike Liechenstein and Art Greenberg share a moment at the Awards Reception

Jerry Minter (left) and Willie Schmidt remember history of North Jersey Section over the last 50 years
North Jersey Section 50th Anniversary 
Spirit of NJ Harbor Cruise

To celebrate the 50th Anniversary of the North Jersey Section of the IEEE, the Executive Committee has agreed to provide a $25.00 subsidy per ticket for members and one significant other for the Spirit of New Jersey Harbor Cruise on Sunday, September 26th.

The Spirit of New Jersey leaves Sunday evenings at 7:30 PM on a three hour dinner cruise from Port Imperial Marina, Pershing Circle, Weehawken, NJ. It travels down the Hudson past the Statue of Liberty, up the East River under the Brooklyn Bridge, and then returns. The cruise features live entertainment, a DJ, and an all-you-can-eat buffet that includes beef, poultry and seafood with fresh vegetables, salad, rolls with butter, and dessert. For more information, refer to: http://www.spiritcitycruises.com/NewJersey/index.html.

Boarding starts one hour before the 7:30 PM cruise. Directions to Port Imperial are available on their web site at: http://www.portimperial.com/directions.htm. Currently, parking fees are $8.00 per vehicle.

Two tickets can be purchased by each IEEE member of the North Jersey Section who would like to attend up to 50 tickets at this time. To purchase your ticket(s), fill out the following application. The current full price is $64.00 per person. You can purchase them for $39.00 each.

50th North Jersey Section Anniversary Cruise Application for tickets:

Name(s): ____________________________________________________________

IEEE Membership number: ____________________________________________

Address with zip: ____________________________________________________

____________________________________________________________________

Phone: ________________  Email for ticket confirmation: _________________

Number of tickets: _____  Check amount either $39.00 (1) or $78.00 (2): ______

Please make checks payable to: IEEE North Jersey Section
Note, no refunds unless your tickets are purchased by other members.

Send completed application to
Howard Leach
11 Beech Drive
Morris Plains, NJ  07950
The 2002 National Electric Code Seminar

The PES and IAS Chapters will sponsor a one-day seminar providing an overview and discussion of recent changes incorporated in the 2002 NATIONAL ELECTRICAL CODE (NEC). The session will be held on Friday, October 22nd, from 9:00 AM – 12:45 PM, in the Punch Bowl Room at Jersey Central Power and Light, 300 Madison Ave Morristown, NJ 07962. The instructor is Won Kim, PE. Participants are encouraged to bring their NEC book to the seminar. It can be ordered at www.NFPAcatalog.org. (Request the current NEC 2002 edition)

About the Seminar

The National Electrical Code is revised every three years by National Fire Protection Association as NFPA 70, and is adopted by most of the States as the State’s Electrical Code. The purpose of the Code is the practical safeguarding of persons and property from hazards arising from the use of electricity. The seminar will cover the major changes in the code, and the topics will include the following:

- Relationship to Uniform Construction Code of New Jersey and Electrical Safety Code (NESC) published by IEEE
- Enforcement of the Code by the Department of Community Affairs (DCA) and the municipalities
- Relationship between electrical engineers/designers, electrical contractors and electrical inspectors
- Wiring methods, materials and protection
- Equipment for general use
- Special occupancies and conditions
- Communications Systems

WHERE: Punch Bowl Room at Jersey Central Power and Light, 300 Madison Ave Morristown, NJ 07962. Directions: Route 287 to Route 124 (Madison Ave Exit). Head toward Madison. Jersey Central building is on the left about 1.5 miles from the exit.

WHEN: Friday, October 22nd, 9:00 AM – 12:45 PM

COST: Non-IEEE members $100; IEEE (& affiliate) members $75; IEEE GOLD (Graduates of the Last Decade) Members $50; IEEE Student Members $25; IEEE Life Members – Free. All Registrations after Oct. 15 must include an additional late fee of $25.

CONTACT: Kenneth Oexle (973) 386-1156

Registration - North Jersey IEEE PES/IAS NEC Seminar, Friday, Oct. 22, 2004

Name __________________________________________

Address _________________________________________

Phone____________________ IEEE #____________________ Payment Enclosed_________

Add $25 late fee after Oct 15

Mail to:

Kenneth Oexle
11 Deerfield Road
Whippany, NJ 07981
IEEE North Jersey Section Course
Project Management

Wednesday Evenings, September 22, 2004 through December 1, 2004 (No class on November 24)
10 weekly classes (September 22, 29, October 6, 13, 20, 27, November 3, 10, 17, December 1, 2004)
NJ International Bulk Mail Center, 80 County Rd, Class Room #2, 3rd Floor, Jersey City, NJ
(Checks should not be mailed to this address)

The North Jersey Section IEEE is offering an evening course entitled "Project Management". Dice.com lists 1500+ 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 2003 software, you will learn to accomplish various project plans. In addition, it will greatly enhance your business, communications and interpersonal skills.

The IEEE certificate of completion will be given to you when you complete 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.

Instructor: Donald Hsu, Ph.D., has been a corporate manager for 11 years and is an experienced trainer. Since 1999, he has trained 230+ people in IT Project+, MS Project 2003, and Project Management courses in six 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. Analyze Global E-Commerce and present student 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 10, 2004 will require a late fee of $25. No reservations will be accepted after September 15, 2004.

WHERE: NJ International Bulk Mail Center, 80 County Rd, Class Room #2, 3rd Floor, Jersey City, NJ. (Checks should not be mailed to this address)
WHEN: 10 Wednesdays, September 22, 29, October 6, 13, 20, 27, November 3, 10, 17, December 1, 2004, 6:30-9:00 PM.
COST: With textbook or notes: IEEE (& affiliate) members $375; Non-IEEE members $475.
CONTACT: Bhanu Chivakula -email b.chivakula@computer.org

REGISTRATION: Project Management
Please send checks payable to "North Jersey Section IEEE" with filled in registration forms to

Bhanu Chivakula, Chair - Education Committee, IEEE North Jersey Section, 19 Prestwick Way, Edison, NJ 08820

Name: / Mr. / Mrs. / Miss / Ms. / ___________________________     ______________________________
☐ Non-member email address
☐ 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
Registration status will be mailed after September 15, 2004. 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 received.

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

Signature:___________________________________________

“The IEEE Newsletter” – August 2004 - Page NJ
IEEE North Jersey Section Course
Advanced Java Programming

Monday Evenings, September 27, 2004 through December 6, 2004
10 weekly classes (September 27, October 4, 11, 18, 25, November 1, 8, 15, 22, December 6, 2004 (No class on Nov. 29)
NJ International Bulk Mail Center, 80 County Rd, Class Room #2, 3rd Floor, Jersey City, NJ
(Checks should not be mailed to this address)

The North Jersey Section IEEE offers an evening course titled "Advanced Java Programming". 2.5 million Java Programmers are currently working on all types of commercial projects in the world, ranging from cell phone/PDA, to UNIX server, to mainframe data-warehouses. This course covers various server side programming techniques. The prerequisite for this course is any programming language (Cobol, C++, Java, Visual Basic, etc).

Instructor: Donald Hsu, Ph.D., has been a corporate manager for 11 years and is an experienced trainer. Since 1997, he has trained 250+ people in Java Programming and Advanced Java Programming courses in six 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, Apache and advanced Multi-tier Web Servers
9. Employ SunOne 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 15, 2004 will require a late fee of $25. No reservations will be accepted after September 20, 2004.

WHERE: NJ International Bulk Mail Center, 80 County Rd, Class Room #2, 3rd Floor, Jersey City, NJ. (Checks should not be mailed to this address)
WHEN: 10 Mondays, September 27, October 4, 11, 18, 25, November 1, 8, 15, 22, December 6, 2004, 6:30-9:00 PM.
COST: With textbook or notes: IEEE (& affiliate) members $380; Non-IEEE members $450.
CONTACT: Bhanu Chivakula - email b.chivakula@computer.org

REGISTRATION: Advanced Java Programming

Please send checks payable to "North Jersey Section IEEE" with filled in registration forms to

Bhanu Chivakula, Chair - Education Committee, IEEE North Jersey Section, 19 Prestwick Way, Edison, NJ 08820

Name: / Mr. / Mrs. / Miss / Ms. / _____________________________________________     _______________________________

☐ 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
Registration status will be mailed after September 20, 2004. 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 received.

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

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