**NJ Section PACE, GOLD, WIE:**

**Engineers Meet:**

**Learn Ways to Define Your Retirement Goals and Plan to Reach Them in Today’s Changing Market**

On Wednesday, January 13, 2010 the North Jersey Section Professional Activities Committee, Graduates of the Last Decade and Women in Engineering will host a meeting to help you define goals and plan for your retirement. Our speakers will be Matthew Niemczyk, Financial Advisor at Ameriprise Financial and TJ Spizzo, CRPC Advanced Financial Advisor at Ameriprise Financial.

**About the Meeting**

If you're looking for help defining your ideal retirement, along with planning to save and invest for it, then you should attend our informative seminar: **Retirement: Planning Beyond the Numbers®**.

During this complimentary seminar, you'll learn ways to:

- Envision your ideal retirement.
- Build a plan to help you reach your retirement goals, even in a changing economy.
- Position your finances as you plan for a long retirement.

This is an informational seminar, and there's no cost or obligation to attend. Ameriprise Financial is committed to helping you learn more about your options in managing your financial resources and giving you straightforward guidance on personal money management and investment strategies.

You will receive our Dream Book® guide, to help you explore your retirement dreams.

**About the Speakers**

Matthew Niemczyk received his BS in Business Economics, from the Pennsylvania State University. He has been working in the investment industry for over 7 years and is currently a fully certified financial advisor for Ameriprise Financial. His areas of focus include personal financial planning for retirement, retirement income strategies, education funding, and investments. He works with his clients to design a personal financial plan based on their life goals. This strategy focuses on helping them become more confident about managing their financial objectives.

TJ Spizzo received his BS in Business and Environmental Economics from Rutgers University. He is currently a fully certified, Advanced Financial Advisor with Ameriprise Financial. TJ has over 12 years experience in the investments industry and currently holds his Chartered Retirement Planning Counselor designation. His area of focus is on personal financial planning for retirement, retirement income strategies, tax management strategies, and protection planning/family security. His mission is to help his clients reach their financial goals through a personal relationship based on personalized, knowledgeable advice. TJ is, also, actively involved in volunteering in the Mahwah Youth Sports Boosters Association.

**All Welcome!**

Members and students from all professional societies and engineering disciplines are welcome. We now have attendees from IEEE, ASME, NSPE, ASCE and AEA. For information about these groups see:

- www.aea.org
- www.ieeeusa.org/policy/care
- www.ieeeusa.org
- www.programmersguild.org
- http://web.njit.edu/~ieeenj/
- www.asme.org/sections/northjersey

CARE is the Congressional Advocacy Recruitment Effort CARE is a voluntary network of IEEE members who are interested in public policy. To help and for information go to www.ieeeusa.org/policy/care/.

**Time:** 6:30 PM to 9:00 PM, Wednesday, January 13, 2010. 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, Dr. Katherine Duncan, (973) 209-8607, kduncan@ieee.org.
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IEEE NJ SECTION HOME PAGE http://web.njit.edu/~ieeenj/
IEEE NJ SECTION NEWSLETTER HOME PAGE http://web.njit.edu/~ieeenj/NEWSLETTER.html

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The North Jersey Section Executive Committee usually meets the first Wednesday (except holidays and December) of each month at 7:00 PM. Meetings are open to all members. For information on meeting agenda contact Secretary Russell Pepe at (201) 960-6796, rcpepe@ieee.org.

NJ Consultants’ Network:
Make Your Website Your Strongest Sales Channel

On Thursday, January 28, 2010 the IEEE Consultants’ Network of Northern NJ (www.TechnologyOnTap.org) will present an information-packed workshop with an online marketing expert from ThomasNet.

About the Topic
This special program will change the way you do business – by using your website as your key sales channel: Join us and find out how to:
• Hear what engineers/buyers want from your website and how they are searching for your products and services.
• Give your potential customers what they want on your website in terms of content and functionality.
• Get more RFQs, sales inquiries, and new customers who decide to buy from your-based solely on what’s on your website.

About the Speaker
ThomasNet (www.ThomasNet.com) is the leading online destination connecting industrial sellers and buyers worldwide. ThomasNet also offers proprietary web-based technology to help industrial businesses increase sales, expand into new markets and improve efficiencies—ultimately succeeding in today’s online environment. The company has more than a century of experience in the industrial market, and conducts ongoing research on buyers’ and sellers’ needs. ThomasNet has helped thousands of clients improve their sites with its Navigator Platform technology, which includes online catalogs, CAD drawings, e-commerce capabilities, content syndication, tracking/analytics, and more.

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!
Free admission – members and non-members are welcome.

Time: 6:00-8:30 PM, Thursday, January 28, 2010.
Information: For directions and up-to-date meeting status, call Robert Walker (973) 728-0344 or visit our website at www.TechnologyOnTap.org.

From the North Jersey Section’s Education Committee:
Hot courses can enhance your position in the job market

IEEE North Jersey Education Committee ran programming and management courses since 1993. 229 IEEE members and non-members completed these courses. Benefits: Some got jobs at AT&T and Microsoft Corporation.

We need hot courses, instructors and classrooms. If you can teach a hot course (any course that can get people jobs), email your one-page abstract and your resume. If your NJ firm can provide a conference room, evening or Saturday morning, contact Donald Hsu, Chair, yanyou@hotmail.com. Thank-you and act NOW!
IEEE North Jersey Section Activities
January 2010

Jan. 5 – Jan. 14 – “Software Testing and Quality Assurance” by Dr. Piyu Tripathy, 6:30 PM to 9:00 PM, Room: ECEC 202, NJIT, 161 Warren Street, Newark, NJ. Donald Hsu, yanyou@hotmail.com.

Jan. 6 – “NJ Section Meeting”, 6:30 PM, “Executive Committee Meeting” - 7:00 PM, ITT, 77 River Rd, Clifton, NJ. Russell Pepe at rcpepe@ieee.org.

Jan. 13 – “Engineers Meet: Learn Ways to Define Your Retirement Goals and Plan to Reach Them in Today’s Changing Market” by Matthew Niemczyk and TJ Spizzo, NJ PACE, GOLD, WIE, 6:30 PM to 9:00 PM, Clifton Memorial Library, 292 Piaget Ave, Clifton, NJ. Paul Ward, (973) 790-1625, PWard1130@aol.com, Richard F. Tax, (201) 664-6954, rtax@aea.org, Dr. Katherine Duncan, (973) 209–8607, kduncan@ieee.org.


Upcoming Meetings

Feb. 3 – “NJ Section Meeting”, 6:30 PM, “Executive Committee Meeting” - 7:00 PM, ITT, 77 River Rd, Clifton, NJ. Russell Pepe at rcpepe@ieee.org.

Feb. 10 – “Digital Radiography” by Dr. Lucian A. Kasprzak, NJ EDS/C&S Chapters, 7:00 PM, New Jersey Institute of Technology (NJIT), Room 202, ECE Center (Intersection between Warren & Summit Streets), Newark, NJ. Dr. Durga Misra (973) 596-5739 (dmisra@njit.edu), Dr. Edip Niver (973) 596-3542 (NJIT), or Dr. Richard Snyder (973) 492-1207 (RS Microwave).


Mar. 13 - May 15 – “C# .NET Programming” by Donald Hsu, PhD, 9:00 AM to 12:00 PM, Room: ECEC 202, NJIT, 161 Warren Street, Newark, NJ. Donald Hsu, yanyou@hotmail.com.

Apr. 6 - May 25 – “Project Management” by George Sierchio, 6:30 PM to 9:00 PM, Room: ECEC 202, NJIT, 161 Warren Street, Newark, NJ. Donald Hsu, yanyou@hotmail.com.

Members and Non-Members Welcome
PLEASE POST
**About the Speaker**

Lucian A. Kasprzak received the PhD degree in Solid State Technology from the Materials Science Department of Stevens Institute of Technology in 1972, while on an IBM Resident Fellowship. He received a BS in Physics from Stevens in 1965 and an MS in Physics from Syracuse in 1970. He has worked, his entire career, on reliability of semiconductor devices and ICs, from their inception as discrete devices to ULSI. He discovered the hot electron effect in short channel MOSFET devices in 1973 while at IBM, from which he retired in 1995. The past 14 years, he has been in the medical device industry in various R&D organizations. He pioneered the creation of IEEE transactions on Device and Materials Reliability and is on the Board of Directors of the International Reliability Physics Symposium. Dr. Kasprzak is a Fellow of the IEEE.

**All Welcome!**

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

**Time:** 7:00 PM, Wednesday, February 10, 2010. Free buffet will begin at 6:15 PM.

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

**Information:** Dr. Durga Misra (973) 596-5739 (dmisra@njit.edu), Dr. Edip Niver (973) 596-3542 (NJIT), or Dr. Richard Snyder (973) 492-1207 (RS Microwave).
Volunteer Teacher for 11-week apprenticeship with middle school students in Newark

Citizen Schools is a national non-profit serving low-income middle-school students after school, extending the number of hours spent in an active learning environment. A core program element is the project-based student apprenticeship. Each semester, generous volunteers get trained to become Citizen Teachers who lead these hands-on apprenticeships on a topic of their choosing, and about which they are both passionate and knowledgeable. These apprenticeships culminate in a WOW! moment where students teach back what they learned via the creation of a high-quality product, service or presentation that demonstrates their mastery.

We have a renewed focus on science, technology and engineering and are looking for ways to bring these to live in an exciting way to our students. This semester’s offering has ranged from an Arup Consulting Engineering working with them on structural engineering to the students learning mechanical engineering principles by creating a dancing pad. We are currently recruiting volunteers for the Spring semester (starting week of February 8th) to spend 90 minutes a week on either a Tuesday or Thursday (for 11 weeks) as Citizen Teachers in Newark (NJ) and would be interested in engaging yourself and/or your organization in the process. To learn more about the program (http://www.youtube.com/profile?v=mx4xeO3xq7g&user=citizenschoolslonline), read about past apprenticeships (http://ctnation.citizenschools.net/dotnetnuke/Teach/ThinkIt/ApprenticeshipIdeaBan k/tabid/151/Default.aspx) or apply to become a Citizen Teacher (http://ctnation.citizenschools.net/dotnetnuke/Volunteer/SignUp/tabid/175/Default.aspx). To apply: http://ctnation.citizenschools.net/dotnetnuke/Volunteer/SignUp/tabid/175/Default.aspx

If you have any questions, please contact Bing Howell at binghowell@citizenschools.org.

North Jersey Spring 2010 Student Presentation Contest

The Spring 2010 Student Presentation Contest is coming up! The North Jersey Section will be holding a presentation contest scheduled for March 24, 2010, for undergraduate and graduate students. This contest has been held in years past. Its overwhelming success in generating student participation and interest make it a fantastic event for up and coming engineers. This year’s contest will feature similar prizes ($$$) and have graduate and undergraduate categories.

The main focus of the presentation contest is to give students an opportunity to sharpen their communication skills, and help prepare for real life situations as practicing engineers and researchers. Additionally, the North Jersey Section contest provides an excellent chance for students to practice for the Region I Student Paper contest in Spring.

The contest at the North Jersey Section level is also supplemented by awarding cash prizes to the three best presentations in both graduate and undergraduate categories. All engineering students are encouraged to participate in submitting team or individual presentations on any project work related to engineering. This local contest does not require students to write a full paper, just a slide-based presentation on technical or non-technical work is sufficient. Senior design projects, lab projects, personal engineering hobbies, engineering policy, etc., are great topics to submit. Moving onto the regional contest requires submitting a short written paper.

The details of contest rules, judging criteria, viable topics for presentations, and abstract form will be same as last year. Also, if you would like to get an idea of what topics would be appropriate or how you can prepare your abstract, take a look at winners from past years at the NJI IEEE SAC homepage archive.

This year’s North Jersey Section Contest will be open to graduate and undergraduate students and first/second/third place prizes will be awarded in each category of $100/$75/$50. All participants MUST REGISTER by submitting an abstract by filling in the form available at the SAC website to qualify as a contest participant.

Time: starting at 6:00 PM with dinner at 5:30 PM, Wednesday, March 24, 2010.
Place: FDU, Teaneck, NJ (http://www.fdu.edu/visitorcenter/direction s/teaneck_map.html).
Information: If you have any questions, please email the contest organizer, northJerseysac@ieee.org (jignasa.ray@ieee.org).

North Jersey Section Seeks Committee Chairs and Volunteers

The North Section is seeking new volunteers to help conduct business for the benefit of its membership. There are a variety of volunteer positions open and available. They range from technical to non-technical, leadership or just participatory. For Society Chapter Chairs, you must be a member of the corresponding IEEE Society.

If you would like to become involved with volunteering in some of these efforts or positions or just become more informed about what is happening at the North Jersey Section, please contact Dr. Chandra Gupta at c.gupta@ieee.org. You are welcome to attend the Section business meeting held the first Wednesday of every month to find out more and other volunteer activities that require some help.

Some committees needing volunteers include the following. Please contact the person indicated for additional information.

- Power Electronics Society Chapter Chair - contact c.gupta below.
- GOLD (Graduates of the Last Decade) Affinity Group Volunteers and Committee members needed - contact northjerseygold@ieee.org
- WIE (Women in Engineering) Affinity Group Volunteers and Committee members needed - contact kduncan@ieee.org
- Membership Development Committee Chair and Volunteers - contact c.gupta below.

Additionally, if interested volunteers would like to get more general information about the Section, including a complete listing of all chapters and committees, visit the North Jersey Section website http://web.njit.edu/~ieeenj/, or contact Dr. Chandra Gupta c.gupta@ieee.org.

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North Jersey Volunteer Open House and 2010 Officer Election a Success

The North Jersey Section Volunteer Open House, Officer Training and Senior Member Information Session was held on Wednesday December 2, 2009 at New Jersey Institute of Technology in the ECE Building Room 202 and brought out a mix of over 30 volunteers and section members.

The evening started a buffet dinner and open networking session for existing section members and officers to meet and greet with new interested volunteers.

This year's event was an officer training program and volunteer open house along with a senior member information session. This meeting provided an opportunity to train current and new officers on what is required of them during the year to conduct IEEE North Jersey Section activities. It was also a way for new volunteers and officers to get an introduction of what to do and how to conduct successful programs as well as what other activities and opportunities exist to participate and volunteer with.

The meeting started with some IEEE introduction and background and then quickly moved to discussing new communication channels of how to stay more informed of local activities. Then the presentation reviewed what is required of section officers and a format for conducting successful events in the section.

The meeting was then paused to conduct the official business of this last executive committee meeting of 2009. This also covered Keith Saracinello, chair of the Teller's committee, announcing officer election results for 2010.

Chairperson:............................................Amit Patel
Vice Chairman-1: ....................................Dr. Sanghoon Shin
Vice Chairman-2: ....................................Dr. Naresh Chand
Secretary:................................................Russell Pepe
Members-At-Large:
................................................................Peter Donegan
................................................................Dr. Katherine Duncan
................................................................Dr. Mengchu Zhou

Then the meeting continued with a description of the senior membership application process and information about how applicants can get their required number of references. The meeting then had a formal introduction of all current and newly incoming officers to give everyone an opportunity to discuss with individuals aligned to their areas of technical and professional interests.

Lastly, the meeting concluded with cake, coffee, and pictures of attendees and officers. Some photos appear below.

North Jersey Section Chair, Amit Patel, leads the training workshop at NJIT
North Jersey Section Chair, Amit Patel (center), shares leadership ideas with Larry Yang (left), GOLD Chair, and Ron Quade, PE (right), PES Chair

METSAC December 5th Lunch Meeting

From left: Outgoing METSAC Chair Bob Pellegrino, Incoming Region 1 Director, Dr. Charles Rubenstein, METSAC Chair and Jr. Past North Jersey Section Chair, Kirit Dixit
CALL FOR PAPERS, PRESENTATIONS, EXHIBITORS and STUDENT PAPERS

The Long Island Systems, Applications and Technology (LISAT) Conference features several parallel professional tracks including topics in Systems, Applications, and Technology, along with an Exhibit Hall. We are currently soliciting submissions for participation in both the Technical Program and the Exhibit Hall, and are interested in papers, presentations, and exhibits that showcase the development and use of technology by local organizations. LISAT 2010 will also provide the opportunity for select student papers to be presented. Undergraduate and graduate students are encouraged to submit papers in an area of their interest or current work.

Preliminary acceptance to the Technical Program will be based on a 300-to-500-word abstract. Authors of accepted abstracts will be required to provide a six (6) page IEEE standard manuscript (in MS Word format) for publication in IEEE Xplore, and will be required to make a power point presentation at the conference. Manuscripts are subject to the LISAT Technical Program Committee's peer review and may require revision prior to final acceptance. Important dates for the Technical Program are:

- Oct 31, 2009: Abstracts due (300-to-500 words)
- Nov 15, 2009: Notification of accepted abstracts
- Nov 30, 2009: Biographies of authors and ½-page presentation outlines due
- Jan 15, 2010: Manuscripts for publication (MS Word) and copyright releases due
- Jan 30, 2010: Notification of final acceptance of manuscripts
- Feb 15, 2010: Presenter Registration Fee and two (2) sentence presentation descriptions due
- Apr 1, 2010: Power Point slide presentation due
- May 7, 2010: LISAT2010 Conference

All submissions must include the author’s full names, affiliations, postal addresses, phone numbers, and email addresses. Submissions should be emailed to the LISAT Technical Program Committee at LISATprogram@ieee.org. Detailed instructions on submission, manuscript and presentation templates, and information on the conference, is available on the LISAT web site at http://iewh.ieee.org/conf/lisat

At least one author of each paper/presentation must register for the Conference and will be expected to provide a 20-minute presentation at the conference followed by 5 minutes of Q&A. Longer presentations will be considered. One presenting author will be allowed to register at a discounted rate. A limited number of tutorial and application presentations which will not be published by the IEEE may also be accepted.

While LISAT welcomes a wide variety of papers in systems, applications, and technology, some examples of topics of particular interest are: Homeland Defense, Alternate Energy Sources, Green Building Technologies, Mobile Communications, Microwave Technology, Electromagnetic Compatibility, Mobile Ad Hoc Networking, Network Security, Sensor Fusion, Antenna Systems and Processing, Radio Locationing, Radar Systems and Techniques, and Medical Electronics.

For information on Exhibiting at LISAT, please contact: Fred Kruger at f.m.kruger@ieee.org
For all other information contact LISAT2010 Conference Chair: Dave Mesecher at d.mesecher@ieee.org or Conference Co-Chair Charles Rubenstein at c.rubenstein@ieee.org

LISAT is sponsored by the IEEE Long Island Section and its Technical Society Chapters and IEEE Region 1, in cooperation with the Institute for Research & Technology Transfer (IRT) at the Farmingdale State College (SUNY).

Releases and Approvals: This conference will be unclassified and attended by both US and non-US persons. It is the author’s responsibility to obtain all required company and government releases and approvals prior to making a paper submission. A statement that such releases and approvals have been obtained as well as a completed IEEE Copyright Form (signed by the submitting author) must accompany the manuscript of each accepted paper.
Call for Papers

The 33rd IEEE Sarnoff Symposium 2010

Sponsor
IEEE Princeton/Central Jersey Section

Co-Sponsors (approved and pending)

Conference Chairs:
- Nicholas Madanopoulos (City College of CUNY)
- Ajay Rajkumar (Alcatel-Lucent)
- Edwin Hou (NJIT)
- Pantelis Monogioudis (Alcatel-Lucent)
- Sweta Jain (WinLab, Rutgers Univ.)
- Christian Makaya (Telecordia)
- Maria Fresa (Princeton Univ.)
- Pravin Raghuwanshi (DeVry)
- Elias Kpodzo (NetS-Stevens Institute of Techn.)
- D. Deng (API Nanofabrication and Research Corp.)
- Malay Ganai (NEC)
- Joe Stack (DSI RF Systems, Inc.)
- Matthew Zieniewicz (CERDEC)
- Narayan Gehlot
- Komlan Ego (NJIT)

Since 1978 the IEEE Sarnoff Symposium has been bringing together a tremendous and rich diversity of telecom experts from industry, universities, and government. The popularity of the Sarnoff Symposium, again being held in the historic Nassau Inn located in the heart of downtown Princeton, NJ, continues to grow as the premier forum for researchers, engineers, and business executives in the North East drawing an attendance from all over the world. Besides the technical paper presentations, the Symposium will include tutorials, student paper poster presentations, executive panels, and exhibition.

Prospective authors are encouraged to submit a full paper for review. Only original papers that have not been published or submitted for publication elsewhere will be considered. The submission process is carried through the EDAS conference management system (http://edas.info). The manuscripts must follow the IEEE two-column format with single-spaced, 10-point font in the text. The maximum paper length is of five (5) pages. A sixth page may be accepted after an additional fee. Submission of a regular paper implies that at least one of the authors will have a full registration to the Conference and present the paper upon the acceptance of the submission. Manuscript template available at: www.sarnoffsymposium.org.

All accepted papers (after review by experts in the field) will be presented in oral sessions, included in the 33rd IEEE Sarnoff Symposium Proceedings and published through IEEE Xplore. Student papers should be submitted to the Student Papers Chair (praghuwanshi@devry.edu). Prospective tutorial presenters should contact the Tutorials Chair (ekpodzo@msn.com).

IMPORTANT DATES

- Papers, Panel and Tutorial Proposals Due: Nov. 15, 2009
- Student Papers Due: Dec. 5, 2009
- Notification of Tutorials Acceptance: Jan. 7, 2010
- Notification of Papers Acceptance: Jan. 30, 2010
- Final Version Due: Mar. 1, 2010

CONFERENCE SCHEDULE

- Tutorials: Apr. 12, 2010
- Paper Sessions and Panels: Apr. 13-14, 2010
- Exhibits: Apr. 13, 2010
- Poster Presentations: Apr. 14, 2010

The Symposium is soliciting state-of-the-art research papers, panels and tutorial proposals in the following areas of interest.

Wireline Communication Systems
- Triple / Quad Play Architectures
- Broadband Access Networks
- IPTV

Optical Communications & Networking
- WDM Systems and Devices
- Broadband Access Communications
- Radio over Fiber (RoF)

Wireless Communications Systems
- 4G Cellular and Wireless LAN Systems
- MIMO Transmission Schemes
- Hierarchical Networks (Femto, Pico, Relays)
- Radio Resource and Interference Management
- Self Configuring and/or Optimizing Networks (SON)
- Sensor, Mesh and Ad Hoc Networks
- Free Space Optics (FSO) Wireless Systems
- Ultra Wideband (UWB) Communications
- Power Management for Green Communication
- Satellite Communication Systems
- Military Communication Systems
- Disruption Tolerant Networks

Communications and Information Theory
- Network Information Theory
- Cross-Layer Optimization Schemes

Applications
- Multimedia Applications for Mobile and Tethered Users
- Mobile Payment Applications
- Trust, Security, and Privacy
- Business Models for Mobile Applications

Wireless Communications Components
- Power Amplifiers
- Microwave Devices
- Antennas Design
- RF Repeaters
- Transceivers

For more information www.sarnoffsymposium.org or sarnoff.symposium@ieee.org

“The IEEE Newsletter” – January 2010 - Page 9 NJ
IEEE North Jersey Section Course
Software Testing and Quality Assurance

Evenings, January 5, 2010 through January 14, 2010
Eight classes (January 5, 6, 7, 8, 11, 12, 13, 14, 2010)
Room: ECEC 202, New Jersey Institute Technology, 161 Warren Street, Newark, NJ 07102 (Checks should not be mailed to this address)

IEEE North Jersey Section appreciates NJIT for sponsoring this course at its site

The North Jersey Section IEEE is offering an evening course entitled "Software Testing and Quality Assurance". No prior experience in the software testing and QA is assumed. The course covers:

- **Fundamental concepts** with particular emphasis on the practical aspects of software testing
- Includes **process, and managerial topics**
- In a **step-by-step** manner, with course material contains a large number of examples from real systems

The IEEE certificate of completion will be given to you when you complete the course. You may wish to take ISTQB certification examination.

**Instructor:** Piyu Tripathy, Ph.D., has 16 years of experience in software testing and maintenance at Eicon networks, Nortel Networks, Cisco Systems, Airvana and NEC Laboratories America.

**Software Testing and Quality Assurance:** Theory and Practice by Authors: Sagar Naik and Piyu Tripathy, Publisher: Wiley, 2008 – This book is included with the registration fee.

This is not an exclusive ISTQB examination prep course. Software testing, quality assurance processes and concepts will be discussed in the class.

**TOPICS**

1. Fundamentals of testing theory and concepts
2. Practices that support production of quality software
3. Software testing techniques
4. Life-cycle models of requirements, defects, test cases, and test results
5. Process models for unit, integration, system, and acceptance testing
6. Test Automation
7. Building test teams, including recruiting and retaining test engineers
8. Quality Models and Capability Maturity Model
9. Testing Maturity Model and Test Process Improvement Model

**WHERE:** Room: ECEC 202, NJIT, 161 Warren Street, Newark, NJ. (Checks should not be mailed to this address)
**WHEN:** January 5, 6, 7, 8, 11, 12, 13, 14, 2010, 6:30-9:00 PM.
**COST:** IEEE (& affiliate) members $600; Non-IEEE members $680.
**CONTACT:** Donald Hsu -email yanyou@hotmail.com

**REGISTRATION:** Software Testing and Quality Assurance

Please mail the registration form with the check (Checks payable to “North Jersey Section IEEE”) to Mengchu Zhou, 37 Honeyman Road, Basking Ridge, NJ 07920 and notify Donald Hsu, Chair Education Committee, IEEE North Jersey Section, yanyou@hotmail.com.

Name: ___________________________________________ _________________________________
- Non-member
- IEEE Member Member #:_________________________ Member of _____________________________ technical society

Employer:___________________________________________________________________________________________________
Employer Address:____________________________________________________________________________________________
___________________________________________________________________________________________________________
Home Address:______________________________________________________________________________________________
___________________________________________________________________________________________________________
Business (day) telephone #:___________________________________ Home telephone #:_________________________________

☐ I wish to receive IEEE completion certificate Signature:___________________________________________

“The IEEE Newsletter” – January 2010 - Page 10 NJ
IEEE North Jersey Section Course
C# .NET Programming

Saturday, March 13, 2010 through May 15, 2010

Eight weekly classes (March 13, 20, 27, April 3, 10, May 1, 8, 15, 2010)

Place: Room ECEC 202, New Jersey Institute of Technology, 161 Warren Street, Newark, New Jersey 07102

(Checks should not be mailed to this address)

The IEEE North Jersey Section thanks New Jersey Institute of Technology, for sponsoring this course.

The IEEE North Jersey Section is offering a course entitled “C# .NET Programming”. Since 2004, C# .NET has generated significant headway in Fortune 1000 enterprise development systems. Dice.com lists 700+ 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 2004, he has trained 700+ people in database, Java, WebLogic, XML, and C# .NET courses in 7 organizations.

TOPICS
1. Compare the enterprise development tools using Java to C# .NET
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 services, advanced topics
9. Present student Projects

WHERE: Room ECEC 202, New Jersey Inst Technology, 161 Warren Street, Newark, NJ

WHEN: Eight Saturdays, March 13, 20, 27, April 3, 10, May 1, 8, 15, 2010, 9:30 am to 12:00 noon.

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

CONTACT: Donald Hsu, yanyou@hotmail.com

REGISTRATION: C# .NET Programming
Please mail the completed registration with a check (payable to “North Jersey Section IEEE”) to:
Donald Hsu, 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 the completed registration form and the payment are received, you are officially registered for this course. Registration status will be confirmed by email.

☐ I wish to receive IEEE Completion Certificate  Signature:___________________________________________

“The IEEE Newsletter” – January 2010 - Page 11 NJ
IEEE North Jersey Section Course  
Project Management  

Tuesday Evenings, April 6, through May 25, 2010  
Eight weekly classes (April 6, 13, 20, 27, May 4, 11, 18, 25, 2010)  
New Jersey Institute Technology, 161 Warren Street,  
Newark, New Jersey (Checks should not be mailed to this address)  

IEEE North Jersey Section thanks New Jersey Institute Technology for sponsoring this course  

The North Jersey Section IEEE is offering an evening course entitled "Project Management". Dice.com lists 5800+ 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 from the knowledge that 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: George Sierchio, business owner with 16 years of experience. He did technical consulting, training, and managed over 30 projects. He trained 500+ adult students in the last 10 years.  

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  

WHERE: New Jersey Inst Technology, 161 Warren Street, Newark, NJ.  
WHEN: 8 Tuesdays, April 6, 13, 20, 27, May 4, 11, 18, 25, 2010, 6:30-9:00 PM.  
COST: IEEE (& affiliate) members $500; Non-IEEE members $550.  
CONTACT: Donald Hsu: yanyou@hotmail.com  

REGISTRATION: Project Management  

Please mail the registration form with the check (Checks payable to “North Jersey Section IEEE”) to Donald Hsu, Chair Education Committee, IEEE North Jersey Section, P. O. Box 2093, Fort Lee, NJ 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 completed registration form and the payment are received, you are officially registered for this course. Registration status will be notified by email.  

☐ I wish to receive the IEEE Completion Certificate Signature:___________________________________________