

*The*



# IEEE Newsletter

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

*NJ Section PACE, GOLD:*

## Engineers Meet:

### Retirement: It's like being 18, only with money

On Wednesday, September 12, 2007, the North Jersey Section of Professional Activities Committee and Graduates of the Last Decade will host a meeting to discuss "Your Retirement." Our guest speakers will be Matthew Rotella and Karol Turner of Burklow, Rotella & Associates.

#### About the Meeting

The traditional approach to retirement planning is all about numbers. But before you can crunch the numbers, you may need to identify your plans and dreams for retirement. Our new seminar, Retirement: Planning Beyond the Numbers®. We'll help you envision your retirement options, and help you feel more confident and on track with your retirement planning. Ameriprise Financial is committed to helping you learn more about your options in managing your financial resources and giving you straight forward guidance on personal money management and investment strategies.

We'll explore issues like:

- Defining your dreams for retirement
- Envisioning the life you hope to live in retirement
- Retiring TO something rather than retiring FROM something

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

#### About the Speakers

Matthew R Rotella, CFP®, CRPC® is the co-founder of Burklow, Rotella & Associates a Private Wealth Advisory Practice of Ameriprise Financial. He has 13 years of financial industry experience. Karol Turner has over 29 years of financial industry experience and is an Associate Financial Advisor with Burklow, Rotella & Associates.

Matthew holds a BS in Leadership from the United States Military Academy, a MS in Management from Steven's Institute of Technology; he is a Certified Financial Planner and a Chartered Retirement Planning Counselor.

#### All Welcome!

Members and students from other professional societies and engineering disciplines are always welcome. We now include members from IEEE, ASME and AEA. For more information about these groups see:

[www.aea.org](http://www.aea.org)  
[www.ieeeusa.org/policy/care/](http://www.ieeeusa.org/policy/care/)  
[www.ieeeusa.org](http://www.ieeeusa.org),  
[www.programmersguild.org](http://www.programmersguild.org)  
[web.njit.edu/~ieeenj/](http://web.njit.edu/~ieeenj/)  
[www.asme.org/sections/northjersey](http://www.asme.org/sections/northjersey)

**Time:** 6:30 to 9:00 PM, Wednesday, September 12, 2007. 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) or Richard F. Tax, (201) 664-0803 (rftax@verizon.net).

#### Employment: Mechanical Engineer

Vision Research, a local design and manufacturer of very high speed digital cameras, is looking for qualified engineers to join its design team. Expertise in small product enclosure design, sourcing and finishing is essential. Skills in thermal analysis, modeling and Solidworks design tools are necessary. This person must have relevant industry experience of greater than 5 years to qualify. The ideal candidate would be someone that has worked as a mechanical engineer in an electronic products company. Apply confidentially to Dick Toftness; rtoftness@visionresearch.com. Vision research is an EOE employer.

**SEPTEMBER 2007**

# September 2007

## Volume 54, 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).

### NEWSLETTER STAFF

Editor .....Keith Saracinello  
Business Manager .....Keith Saracinello  
k.saracinello@ieee.org (302) 683-7162

**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](mailto:k.saracinello@ieee.org) or to *The IEEE Newsletter*, c/o Keith Saracinello, 25 Messenger Ln, Ringoes, NJ 08551, (302) 683-7162.

### IEEE NJ SECTION HOME PAGE

<http://web.njit.edu/~ieeenj/>

### IEEE NJ SECTION NEWSLETTER HOME PAGE

<http://web.njit.edu/~ieeenj/NEWSLETTER.html>

### REPORT ADDRESS CHANGES TO:

IEEE Service Center, 445 Hoes Lane, P.O. Box 1331, Piscataway, NJ 08855-1331, (732) 981-0060. It is not necessary to inform the North Jersey Section when you change your mailing address. "The IEEE Newsletter" and other section mailings use a list provided by IEEE's national headquarters.

### SECTION OFFICERS

Chair ..... Kirit Dixit  
kdixit@ieee.org (201) 669-7599  
Vice-Chair-1 .....Bhanu Chivukula  
b.chivukula@computer.org (732) 718-3818  
Vice-Chair-2 .....Amit Patel  
a.j.patel@ieee.org  
Treasurer ..... Dr. Sanghoon Shin  
s.shin@ieee.org (973) 492-1207 Ext. 22  
Secretary ..... Russell Pepe  
rpepe@att.net (201) 960-6796

### Members-at-Large:

Pete Donegan ([doneganp@ieee.org](mailto:doneganp@ieee.org))  
Katherine Duncan ([kb2zoo@hotmail.com](mailto:kb2zoo@hotmail.com))  
Seth Jakel ([sgjakel@comcast.net](mailto:sgjakel@comcast.net))

*The North Jersey Section Executive Committee usually meets the first Wednesday (except holidays and December) of each month at 7:00 PM. Meetings are open to all members. For information on meeting agenda contact Secretary Russell Pepe at (201) 669-7599, [rpepe@att.net](mailto:rpepe@att.net).*

NJ GOLD, PACE, WIE:

## Maximizing Your Marketability - Improve the Odds Of Staying Employed Throughout Your Career

On October 10, 2007, the North Jersey section GOLD, PACE, and WIE committees are jointly sponsoring a talk on maximizing your marketability techniques for new job searches. The speaker will be Dru Reynolds.

### About the Talk

Thought a resume is all you need? While a resume is a critical portion of marketing yourself for a new job, it is not alone. Other issues to consider include: having a career roadmap, evaluating the corporate fit, and what to do for an interview.

Come participate and learn how to combine these and other aspects of self marketing to build a better resume and whole presentable self-portfolio to land a new job and career.

### About the Speaker

Dru Reynolds has more than 20 Years experience in recruiting & professional placement, currently an independent recruiter specializing in placing in the RF and MW wireless arena and licensed by the state of NJ. She is an IEEE Coordinator Region 1 & 2, in the MTT Society and active in the NJ Coast Section as Secretary and Newsletter Editor.

### All Welcome

This talk is FREE to attend, you do not have to be an IEEE member, invite your friends. Free refreshments of pizza and sodas will be served.

### Registration Required

All attendees must register for the talk to hold their seat by filling out the registration form at the following website:

[http://ewh.ieee.org/r1/north\\_jersey/gold](http://ewh.ieee.org/r1/north_jersey/gold)

Register NOW for a chance to win some door prizes!

**Time:** 6:15 PM to 8:45 PM, Wednesday, October 10, 2007. Refreshments will be served.

**Place:** Clifton Memorial Library, 292 Piaget Ave, Clifton, NJ, (973) 772-5500.

**Information:** Richard F. Tax, (201) 664-0803 ([rftax@verizon.net](mailto:rftax@verizon.net)), or [northjerseygold@ieee.org](mailto:northjerseygold@ieee.org).

News from IEEE-USA:

## IEEE Technology-Related News Stories Aired in More Than Two-Dozen U.S. TV Markets; View Latest, Archived Spots

Beginning in 2005, in collaboration with the American Institute of Physics (AIP) and other technical professional organizations, IEEE-USA has helped to underwrite almost 300 local television news stories on engineering and science.

Since January 2006, stories about IEEE-related technologies aired in more than two-dozen U.S. TV markets, including New York, Chicago, Philadelphia, San Francisco, Tampa-St. Petersburg, Phoenix and Miami -- broadcast on ABC, CBS, NBC, Fox, Univision, cable and independent TV affiliates. The average number of household views for these markets is estimated at more than 70 million.

Recent IEEE technology-related stories included: "Preparing for Disaster"; "Movie Magic"; "Engineers Invent Doppler-Based Stethoscope"; "RFID-based Recycling Technology Makes Philadelphia Greener"; and "Automotive Engineers Team Up to Improve Energy-Saving Technology."

The stories are aired as part of AIP's "Discoveries & Breakthroughs" news service that delivers a dozen vetted 90-second spots (in English and Spanish) to the top 66 television markets in the United States -- with a potential reach of 75 million viewers.

A limited number of DVDs of the IEEE technology-related TV spots can be obtained by sending an e-mail to [p.mccarter@ieee.org](mailto:p.mccarter@ieee.org).

To view the latest 90-second stories as well as almost 100 archived spots -- all on IEEE-related technologies, go to <http://www.aip.org/dbis/IEEE/>.

Contact: Pender M. McCarter  
Senior Public Relations Counselor  
IEEE-USA  
Phone: (202) 530 8353

# IEEE North Jersey Section Activities

## September 2007

**Sep. 5** – “NJ Section Meeting”, 6:30 PM, “Executive Committee Meeting” - 7:00 PM, ITT, 77 River Rd, Clifton, NJ. Russell Pepe at [rpepe@att.net](mailto:rpepe@att.net).

**Sep. 12** – “Engineers Meet: Retirement: It’s like being 18, only with money” by Matthew R Rotella and Karol Turner, NJ PACE & GOLD, 6:30 – 9:00 PM, Clifton Memorial Library, 292 Piaget Ave, Clifton, NJ. Paul Ward, (973) 790-1625 ([PWard1130@aol.com](mailto:PWard1130@aol.com)) or Richard F. Tax, (201) 664-0803 ([rftax@verizon.net](mailto:rftax@verizon.net)).

**Sep. 15-Dec. 1** – “C# .NET Programming” by Dr. Donald Hsu, North Jersey Section, Saturday Mornings, 10 sessions, 9:00 AM-12:00 PM, AVTI, 25 Salem Street, Hackensack, NJ. Donald Hsu ([yanyou@hotmail.com](mailto:yanyou@hotmail.com)).

**Sep. 26** – “Simulated Aircraft System Demo” by Jerry B. Minter and 1st Lt David Simpson, NJ PACE & GOLD, 6:30 – 9:00 PM, Clifton Memorial Library, 292 Piaget Ave, Clifton, NJ. Paul Ward, (973) 790-1625 ([PWard1130@aol.com](mailto:PWard1130@aol.com)) or Richard F. Tax, (201) 664-0803 ([rftax@verizon.net](mailto:rftax@verizon.net)).

### Upcoming Meetings

**Oct. 3** – “NJ Section Meeting”, 6:30 PM, “Executive Committee Meeting” - 7:00 PM, ITT, 77 River Rd, Clifton, NJ. Russell Pepe at [rpepe@att.net](mailto:rpepe@att.net).

**Oct. 10** – “Maximizing Your Marketability - Improve the Odds Of Staying Employed Throughout Your Career” by Dru Reynolds, NJ GOLD, PACE, WIE, 6:30 – 9:00 PM, Clifton Memorial Library, 292 Piaget Ave, Clifton, NJ. Paul Ward, (973) 790-1625 ([PWard1130@aol.com](mailto:PWard1130@aol.com)) or Richard F. Tax, (201) 664-0803 ([rftax@verizon.net](mailto:rftax@verizon.net)).

**Oct. 16-Dec. 11** – “Manage Global E-Commerce Projects” by Dr. Donald Hsu, North Jersey Section, Saturday Mornings, 8 sessions, 9:00 AM-12:00 PM, NJ International Bulk Mail Center, Jersey City, NJ. Donald Hsu ([yanyou@hotmail.com](mailto:yanyou@hotmail.com)).

**Oct. 19** – “Technical Seminar on Utility Distribution Systems – Part 1”, NJ PES/IAS, see <http://web.njit.edu/~ieeenj/> and October Newsletter for further details. Ronald W. Quade, PE, (732) 205-2614 or [rwquade@ieee.org](mailto:rwquade@ieee.org).

**Oct. 25** – “Life Grade Lunch”, Hamilton Park Conference Center, Florham Park, NJ. Ken Oexle (973) 386-1156.

**Nov. 16** – “Technical Seminar on Utility Distribution Systems – Part 2”, NJ PES/IAS, see <http://web.njit.edu/~ieeenj/> and October Newsletter for further details. Ronald W. Quade, PE, (732) 205-2614 or [rwquade@ieee.org](mailto:rwquade@ieee.org).

**Dec. 14** – “Technical Seminar on Utility Distribution Systems – Part 3”, NJ PES/IAS, see <http://web.njit.edu/~ieeenj/> and October Newsletter for further details. Ronald W. Quade, PE, (732) 205-2614 or [rwquade@ieee.org](mailto:rwquade@ieee.org).

## Members and Non-Members Welcome

# PLEASE POST

## *NJ AESS Chapter:*

# **Simulated Aircraft System Demo**

The North Jersey Chapter of the IEEE Aerospace & Electronic Systems Society (AESS) together with the Civil Air Patrol Lone Eagle Composite Squadron will sponsor two simulated aircraft system demos to celebrate the Squadron's 50<sup>th</sup> anniversary on Wednesday, September 26th, at the Morris County Library, Whippany, NJ.

### **About the Demos**

The first demo will be on the 'Minter Electronic Aircraft Safety Warning System' by Mr. Jerry B. Minter. He maintains that the current aircraft transponder system in present operation worldwide has some serious limitations as follows: 1) the dependence on barometric pressure to determine relative altitude, and 2) the lack of instant horizontal location of other aircraft transponders.

His patented solution uses a multimode antenna system that can locate the relative horizontal direction and elevation to another plane within one microsecond after receiving the first transponder pulse. Because the system does not generate a radiation signal, no license is required for operation.

The second demo will be on the 'Simpson Hydraulic Flight Simulator' which is designed to behave as a fixed-wing aircraft would on the vertical or "pitch" axis that can be used to demonstrate climb, cruise, terminal velocity, service ceiling, slow flight, stall and stall recovery, powered or "dead-stick" decent and landing.

The patent pending hydraulic flight simulator is made up of a number of plastic vessels representing flight dynamics. These vessels are connected together with flexible tubing to simulated flight controls from which the operator can make changes and observe the flow of water - representing the energy - through the vessels which represents the simulated aircraft response.

### **About the Demo Speakers**

Jerry B. Minter was first employed in 1935 by the Boonton Radio Corporation, NJ, in the development of band-pass intermediate frequency transformers. In 1936 he was involved in the development of aircraft radio receivers at the Radio Frequency Laboratories of Boonton, N.J. During the later part of 1936 he was employed by the Ferris Instrument Corp., NJ, to take charge of several projects including development of a signal generator and a radio noise and field-strength meter.

In 1939, Mr. Minter and some of his associates from Ferris Instrument Corp

organized the Measurements Corp of Boonton, NJ, where he became Vice President and Chief Engineer. After much success with design and production of test equipment, the stockholders decided to sell the Measurements Corp. to the Edison Company in 1953. At that time, he had a number of conversations with Charles Edison about his father, Thomas Edison, and dined in the dining room of Edison's West Orange Laboratory before it was turned over to the National Park Service as a National Historic Site.

In 1954, Mr. Minter bought the Components Corp. and entered into the audio business where he developed a series of special test records. In the 1960's, the company designed and built miniature high voltage power supplies for use in high altitude probes for NASA. They also developed a high-reliability edgeboard connector called the "DigiKlip" that was used commercially in the Univac 1108, DC-10, as well as in space and military programs.

Mr. Minter also worked on video systems, one within a hospital area to reduce RF interference. In another medical project, he modified VCR's to reduce their startup time in medical facilities within NYC. His most recent technical innovation is a passive collision warning system for small aircraft. Jerry Minter holds 26 patents of which the last six are on his aircraft collision avoidance system.

He received a BS in EE from MIT in 1934. He organized and chaired the first Northern New Jersey Subsection of the Institute of Radio Engineers (IRE) in 1947. Jerry B. Minter was named a Fellow of the IEEE in 1969 and he became a Life Fellow of the IEEE in 1979. He also is a Fellow and past President of the Radio Club of America. Further, he is also a past President of the Audio Engineering Society and has held memberships in the Radio Electronic Television Manufacturing Association, the Society of Automotive Engineers, the American Standards Association, and the American Society of Metals.

Finally, but not the least of his past activities, Jerry B. Minter was a Senior Member of the Civil Air Patrol and used his own aircraft to conduct CAP search and rescue missions.

1<sup>st</sup> Lt David Simpson, CAP, Aerospace Education Officer, is a long time model airplane builder starting at the age of eleven. He also, as a high school senior, taught fourth, fifth, and sixth graders model airplane building and joined CAP following the events of 9/11/2001. He is a co-founder of the Princeton Flying Corps, a non-profit project of the NJ Aviation Hall of Fame that preserves the history of NJ

World War I aviators. He also has a private pilot's license and was part owner of a 1946 Piper J-3 "Cub".

### **All Welcome**

You do not have to be a member of the IEEE or the Civil Air Patrol to attend. A free buffet will be available at 6 PM. Come and bring your friends.

**Time:** Free buffet starts at 6:00 PM and the program starts at 7:00 PM, Wednesday, September 26, 2007.

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

**Information:** Dr. Naresh Chand, (973) 636-7408, [naresh.chand@baesystems.com](mailto:naresh.chand@baesystems.com), or Howard Leach (973) 540-1283, [h.leach@ieee.org](mailto:h.leach@ieee.org).

## **Call for Fellow Nominations**

Nominations are being accepted for the IEEE Fellows class of 2009. The rank of IEEE Fellow is the institute's highest member grade, bestowed on IEEE senior members who have contributed "to the advancement or application of engineering, science and technology." The deadline for nominations is 1 March 2008.

Senior members can be nominated in one of four categories: application engineer/practitioner, research engineer/scientist, educator or technical leader. The Fellows Web site contains additional information on the nomination process including access to the Fellows Nomination Kit, lists of Fellows who may be available as references as well as the history of the IEEE Fellows program. Please visit the Fellows website at <http://www.ieee.org/fellows>.

News from IEEE-USA:

## **Wireless Internet Access Expanding Throughout United States: "IEEE-USA Today's Engineer Online" Cites Public and Private Investment**

Washington (17 July 2007) - Public and private investment in wireless Internet access is accelerating, making it the biggest growth area in wireless communications, according to the current issue of IEEE-USA Today's Engineer Online.

Wi-Fi networks are found in about 175 U.S. cities or regions and operate on the IEEE 802.11 standard. They run in unlicensed spectrums with data speeds around 1 megabit/second. Municipalities often deploy them to allow communications and data access for their employees, from police and fire protection to maintenance crews and building inspectors, among others.

"Is Internet access part of the basic infrastructure needed to encourage economic activity, like roads, bridges and harbors, considered within the province of government," Today's Engineer author George McClure asks in "Wireless – Everywhere Soon?"

McClure cites numerous municipalities' efforts to develop their own Wi-Fi networks. Based on various IEEE 802 standards for local area networks and metropolitan area networks, cities and regions have experienced varying success.

The bigger trend is for private investors to build and run wireless networks in expectation of future profits. However, the biggest private investor, Earthlink, is rethinking its strategy in light of a recent \$30 million quarterly loss.

"A policy issue arises: should government offer communications services in competition with private enterprise?" McClure writes. "The telcos and cable companies think not."

To read the entire article, go to [www.todaysengineer.org](http://www.todaysengineer.org).

IEEE-USA advances the public good and promotes the careers and public policy interests of more than 215,000 engineers, scientists and allied professionals who are U.S. members of the IEEE. IEEE-USA is part of the IEEE, the world's largest technical professional society with 370,000 members in 160 countries. See <http://www.ieeeusa.org>.

Contact: Chris McManes  
IEEE-USA Senior Public Relations Coordinator  
Phone: (202) 530-8356  
E-Mail: [c.mcmanes@ieee.org](mailto:c.mcmanes@ieee.org)

News from IEEE-USA:

## **IEEE-USA President Urges Passage of Competitiveness Legislation to Help United States Maintain Global Leadership in Science and Technology**

Washington (1 August 2007) - IEEE-USA President John Meredith urges the House and Senate to pass the conference report of the "America Competes Act" to help bolster our country's global leadership in science and technology and promote U.S. competitiveness and innovation.

"We commend the conferees for recognizing the vital role that science and technology research and development plays in strengthening U.S. economic well-being, energy independence and national security," Meredith said. "Our nation's innovation infrastructure and ability to compete with emerging nations will greatly benefit from this legislation."

The final version of the three-year, \$43.3 billion bill, based on H.R. 2272 and S. 761, passed Tuesday. The House is expected to vote on the measure Thursday, the Senate on Friday.

The "America Competes Act" would, among other things, authorize significant funding increases for research and development; strengthen educational opportunities at the elementary through graduate school level in science, technology, engineering and mathematics; increase funds to improve the skills of math and science teachers; and provide college scholarships for hundreds of future math and science teachers. The bill puts research programs at the National Science Foundation, the National Institute of Standards and Technology and the Department of Energy on track to double their budgets during the next decade.

The legislation is based on recommendations contained in the National Academies' "Rising Above the Gathering Storm" report and the Council on Competitiveness' "Innovate America" report. Sen. Lamar Alexander (R-Tenn.) and House Science and Technology Committee Chairman Bart Gordon (D-Tenn.) led their respective chamber's conference teams.

"Keeping America competitive will help us keep good jobs on our nation's shores and ensure our ability to compete in a global marketplace," Gordon said. "That process begins with a high-quality educational system and follows with ideas

and investments in people here at home."

For more on the "America Competes Act," go to [http://science.house.gov/legislation/leg\\_highlights\\_detail.aspx?NewsID=1938](http://science.house.gov/legislation/leg_highlights_detail.aspx?NewsID=1938)

IEEE-USA advances the public good and promotes the careers and public policy interests of more than 215,000 engineers, scientists and allied professionals who are U.S. members of the IEEE. IEEE-USA is part of the IEEE, the world's largest technical professional society with 370,000 members in 160 countries. See <http://www.ieeeusa.org>.

Contact: Chris McManes  
IEEE-USA Senior Public Relations Coordinator  
Phone: (202) 530-8356  
E-Mail: [c.mcmanes@ieee.org](mailto:c.mcmanes@ieee.org)

## Life Grade Luncheon

The PES Chapter and the Section will sponsor a luncheon for North Jersey IEEE Life Grades (Members, Senior Members and Fellows) on Thursday October 25 at the Hamilton Park Conference Center, 175 Park Avenue, Florham Park, NJ 07932. The luncheon will begin at 11:30 AM in the Terrace area. Cost is \$5.00 per person.

Advance registration is required prior to October 15. We can accommodate only 30 people. Registrations will be processed in the order of receipt and will be confirmed by return mail. Please complete the following registration form and include a check Payable to the North Jersey Section IEEE in the amount of \$ 5.00 per person.

Reservations cannot be accepted at the door. For additional information contact Ken Oexle (973) 386-1156.

---

IEEE Life Grade Luncheon Registration NJ - Oct 25, 2007

Name\_\_\_\_\_

Address\_\_\_\_\_

Phone \_\_\_\_\_

IEEE #\_\_\_\_\_ Life Grade \_\_\_\_Yes

Return to: Ken Oexle  
11 Deerfield Rd  
Whippany, NJ 07981

Prior to October 15 and enclose \$5.00 Check payable to **NJ Section IEEE**

# IEEE North Jersey Section Course

## C# .NET Programming

*Saturday morning, September 15, 2007 through December 1, 2007*

*Ten weekly classes (September 15, 29, October 6, 13, 20, 27, November 3, 10, 17, December 1, 2007)*

*Place: AVTI, 25 Salem Street, Hackensack, NJ (Checks should not be mailed to this address)*

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

The IEEE North Jersey Section is offering a course entitled "C# .NET Programming". Since 2002, C# .NET has generated significant headway in Fortune 1000 enterprise development systems. Dice.com lists 850+ C# .NET jobs in the New York tri-state area daily! This course will cover the fundamentals of C# language, the .NET framework, window and web-based applications, ADO.NET, ASP.NET, and XML. It will be useful for anyone to develop applications based upon these tools.

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

Instructor: **Donald Hsu, Ph.D.**, has been a corporate manager for 11 years and is an experienced trainer. Since 2001, he has trained 450+ people in C++, Java, WebLogic, XML, C# .NET courses in 7 organizations.

### TOPICS

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

**WHERE:** AVTI, 25 Salem Street, Hackensack, NJ

**WHEN:** 10 Saturdays, September 15, 29, October 6, 13, 20, 27, November 3, 10, 17, December 1, 2007, 9:00 AM to 12 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 form with the 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 a fully completed registration form and the payment are received, you are officially registered for this course. Registration status will be notified in an email format.

☐ I wish to receive IEEE Completion Certificate

Signature: \_\_\_\_\_

# IEEE North Jersey Section Course Manage Global E-Commerce Projects

*Tuesday Evenings, October 16, 2007 through December 11, 2007*  
*Eight weekly classes (October 16, 23, 30, November 6, 13, 20, 27, December 11, 2007)*  
*USPS, NJ International Bulk Mail Center, 80 County Rd, Jersey City, NJ 07097*  
*(Checks should not be mailed to this address)*

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

This course covers the management and entrepreneurial aspect of "Global E-Commerce". Dice.com lists 5700+ Project related jobs in the New York area daily! Using Microsoft Project, you completed projects in construction, engineering, information technology, marketing or finance. When you see a niche in the market place, you write a business plan. Then you get finance for your startup. Setting up a website, you are now selling to 6 billion world customers. You will be the next Ebay, MySpace or YouTube billionaire\$\$\$.

How do you do this? Do you have to learn HTML, JavaScript, Flash, or PHP? Do you worry about the accounting and legal issues? How do you get all the eyeballs? What is the catch? This course will provide detailed case studies of 8+ countries on their success stories using e-commerce. It covers the complexity of dealing with business partners, competitors, customer retention, and payment issues. In the continental Europe, there are 50 e-discount airlines since 1996! Yes anyone can start a web e-business, but there is no guarantee of success.

By taking this course, you can manage projects more effectively or you can start your own e-business. You will receive the IEEE certificate of completion when you finish the course. (This is *not an exclusive PMI examination prep course*).

Instructor: **Donald Hsu, Ph.D.**, has been a corporate manager for 11 years and is an experienced trainer. Since 1999, he has trained 950+ people in *Accounting, International Business, Java, Global Finance, Marketing Research and Project Management* courses in eight organizations. He started and sold three businesses. Since 2004, he has been running a non-profit global e-business.

### TOPICS

1. Explain the need for a project manager
2. Define SOW, PERT, GANTT, CPM, and scope of the project
3. Complete milestones, condition of satisfaction and final project reports
4. Contrast globalization and national diversity
5. Choose the Silicon Valley model
6. Compare France, Germany and Japan E-Commerce
7. Identify China and Taiwan E-Commerce
8. Distinguish Brazil and Mexico E-Commerce
9. Select other European countries
10. Analyze global convergence issues and present student Projects

**WHERE:** NJ International Bulk Mail Center, Jersey City, NJ. (Checks should not be mailed to this address)  
**WHEN:** 8 Tuesdays, October 16, 23, 30, November 6, 13, 20, 27, December 11, 2007, 6:30-9:00 PM.  
**COST:** IEEE (& affiliate) members \$420; Non-IEEE members \$470  
**CONTACT:** Donald Hsu, [yanyou@hotmail.com](mailto:yanyou@hotmail.com)

### REGISTRATION: Manage Global E-Commerce Projects

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

☐ I wish to receive IEEE Completion Certificate

Signature: \_\_\_\_\_