

The



# IEEE Newsletter

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

*NJ Computer & EMS Chapters:*

## Business Process Management Tools

On Tuesday, January 24, 2006, the North Jersey Chapters of the IEEE Computer Society and the IEEE Engineering Management Society will jointly host a presentation on "Business Process Management Tools" by Arthur J. Hedge III.

### About the Talk

Business Process Management is a key enterprise software category that has emerged over the past several years. There are over 100 vendors that develop products in this market. BPM tools allow organizations to design, automate, and manage the activities of knowledge workers from within one platform.

In this presentation, we will present a detailed description of the various software elements that together comprise a BPM solution. The end goal of the first stage of business process improvement is to design the "To-Be" process, the process that will be automated using a BPM tool. This stage needs to produce a model of a business process, and there are several software tools available with which to accomplish this, such as graphical design tools, process templates, form generators, etc. This presentation will give a detailed description of these and the other tools that comprise a BPM engine.

This presentation is based on the first of a series of three articles by the speaker for AIIM E-DOC magazine ([www.edocmagazine.com](http://www.edocmagazine.com)).

### About the Speaker

Arthur J. Hedge III is President of Castle Ventures. He focuses on helping companies reduce costs and operate more effectively by improving their business processes. Mr. Hedge has over 20 years of consulting expertise, focused on large-scale application development. He is also a member of the AIIM Document Management standards committee. Mr. Hedge is a graduate of the Massachusetts Institute of Technology.

### 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 PM.

**Time:** 7:00 PM, Tuesday, January 24, 2006. Pre-meeting buffet starting at 6:00 PM.

**Place:** Lucent Technologies, 67 Whippany Road, Room 3C-222, Whippany, NJ.

**Information:** Seth Jakel (973) 731-1902 or (973) 820-1865 (sgjakel "AT" comcast.net), Howard Leach (973) 540-1283 (hhleach "AT" aol.com), Moncef Elauod (732) 699-3132 (moncef "AT" research.telcordia.com), Steve Wilkowski (973) 386-6487 (swilkowski "AT" lucent.com), or Arthur Greenburg (973) 386-6673 (ahg1 "AT" lucent.com). Registration in advance is recommended with full name, affiliation and nationality so that an admission badge will be available for you on arrival.

## Newly Elected IEEE Fellow

The North Jersey Section IEEE congratulates the following member who was elected to the Fellow grade:

**Dr. Tin Ho**

*"for contributions to pattern recognition methodology and tools..."*

## Nominate a Colleague for Fellow

It's never too early to start thinking about nominating a colleague who is a senior member for the 2007 class of IEEE Fellows. Nominating forms are due to the Fellow Committee by 1 March 2006.

The IEEE Fellow grade is conferred by the Board of Directors upon a person with an extraordinary record of accomplishments in any of the IEEE fields of interest. The total number of Fellows selected in any one year cannot exceed one-tenth of 1 percent of the total voting IEEE membership.

To obtain the IEEE Fellow Nomination Kit, visit the IEEE Fellow Activities Web site at <http://www.ieee.org/fellows> or send a message to [fellow-kit@ieee.org](mailto:fellow-kit@ieee.org).

**JANUARY 2006**

# January 2006

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**Deadline for receipt of material** is the 1st of the month preceding the month of publication. All communications concerning editorial and business matters, including advertising, should be sent to the Business Manager via e-mail at [k.saracinello@ieee.org](mailto:k.saracinello@ieee.org) or to *The IEEE Newsletter*, c/o Keith Saracinello, 25 Messenger Ln, Ringoes, NJ 08551, (908) 791-4067.

### IEEE NJ SECTION HOME PAGE

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

### IEEE NJ SECTION NEWSLETTER HOME PAGE

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

### REPORT ADDRESS CHANGES TO:

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

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

### NJ PES/IAS Chapters:

## Energy Conservation Series - NJ Smart Start Buildings Program

On January 18, 2006, as the first in a series of free seminars on the topic of energy conservation, the PES and IAS Chapters will sponsor an evening discussion on the NJ SmartStart Buildings Program.

### About the Meeting

A brief presentation of the NJ SmartStart Buildings Program, funded under the NJ Clean Energy Act, will be given. SmartStart is an incentive Program, not a rebate, for all Commercial/Industrial (i.e. non-residential) customers of the gas and electric utilities in the State of NJ. It provides up to \$100K/Account/Year to energy users who install energy efficient equipment in new construction, rehabilitation and equipment replacement projects.

An overview of the program and instruction regarding project qualification and application procedures will be presented.

### About the Speaker

The presenter will be Ronald M. Maslo, PhD, PE.

Dr. Maslo is a Professional Engineer and Senior Member of the IEEE with over forty-four years diversified experience in project management, product management, systems engineering, marketing and sales management, software development, data warehousing, computer simulation, communications, information technology, and business development.

Prior to joining EAM in October 2001, Consulting on implementation of the New Jersey SmartStart Buildings Program for JCP&L, he was Director, Energy Applications for the NCR Corporation.

He earned a PhD in Engineering, a MEng in Mechanical Engineering, a BS in Civil Engineering and Engineering Mechanics and a BA in Mathematics and Physics. He is a Licensed Professional Engineer (PE) in New Jersey and has authored 29 publications in professional journals and conference proceedings.

**Time:** 6:30 PM, Wednesday, January 18, 2006. A pre-meeting buffet will be available starting at 6:00PM.

**Place:** Eaton Electrical, 690 Rahway Ave, Union, NJ. Directions: Route 82 Morris Avenue from either Springfield or Union to Rahway Ave.

**Information:** Ronald W. Quade, PE, (732) 205-2614 or [rwquade@ieee.org](mailto:rwquade@ieee.org).

## North Jersey Spring 2006 Student Presentation Contest Registration Open

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 the winners of the 2005 Presentation Contest.

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 both categories of \$100/\$75/\$50.

- ☞ When: Check Website for exact Date (free dinner at 5:30pm)
- ☞ Where: NJIT, Newark, NJ (Free Parking available.)
- ☞ Registration is NOW OPEN, all presenters must register.
- ☞ Winners from the section contest can progress to the regional competition. Details are at Region 1 Student Activities Website.

All participants must submit an abstract by filling in the form available at the SAC website to qualify as a contest participant.

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

## 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 return for providing the conference facility for free, the organization can get free registration up to three members in the course/seminar. Please contact Bhanu Chivukula, Education Committee Chairman, at [b.chivukula@computer.org](mailto:b.chivukula@computer.org) for suggestions or discussions, if interested.

## IEEE Virtual Museum

Look for a new exhibit on nanotechnology opening this month at IEEE's award-winning pre-university educational site (<http://www.ieee.org/museum>).

# IEEE North Jersey Section Activities

## January 2006

**Jan. 4** – “NJ Section Meeting”, 6:30 PM, “Executive Committee Meeting” - 7:00 PM, ITT, 100 Kingsland Rd, Clifton, NJ. Seth Jakel at [sgjakel “AT” comcast.net](mailto:sgjakel@comcast.net).

**Jan. 11** – “Engineers Meet: HAPPY NEW YEAR - Where Do We Go From Here?” - NJ PACE & GOLD, 6:30 – 9:00 PM, Clifton Memorial Library, 292 Piaget Ave, Clifton, NJ. Paul Ward, (973) 790-1625 ([PWard1130 “AT” aol.com](mailto:PWard1130@aol.com)) or Richard F. Tax, (201) 664-6954 ([rtax “AT” bellatlantic.net](mailto:rtax@bellatlantic.net)).

**Jan. 18** – “Energy Conservation Series - NJ Smart Start Buildings Program” - NJ IAS/PES Chapters, 6:30 PM, Eaton Electrical, 690 Rahway Ave, Union, NJ. Ronald W. Quade, PE, (732) 205-2614 or [rwquade “AT” ieee.org](mailto:rwquade@ieee.org).

**Jan. 24** – “Business Process Management Tools” - NJ Computer & EMS Chapters, 7:00 PM, Lucent Technologies, 67 Whippany Road, Room 3C-222, Whippany, NJ, (973) 779-5500. Seth Jakel (973) 731 1902 or (973) 820-1865 ([sgjakel “AT” comcast.net](mailto:sgjakel@comcast.net)), Howard Leach (973) 540-1283 ([hhleach “AT” aol.com](mailto:hhleach@aol.com)), Moncef Elaudod (732) 699-3132 ([moncef “AT” research.telcordia.com](mailto:moncef@research.telcordia.com)), Steve Wilkowski (973) 386-6487 ([swilkowski “AT” lucent.com](mailto:swilkowski@lucent.com)), or Arthur Greenburg (973) 386-6673 ([ahgl “AT” lucent.com](mailto:ahgl@lucent.com)).

### Upcoming Meetings

**Feb. 1** – “NJ Section Meeting”, 6:30 PM, “Executive Committee Meeting” - 7:00 PM, ITT, 100 Kingsland Rd, Clifton, NJ. Seth Jakel at [sgjakel “AT” comcast.net](mailto:sgjakel@comcast.net).

**Feb. 15** – “Energy Conservation Series - Solar Power” - NJ IAS/PES Chapters, 6:30 PM, Eaton Electrical, 690 Rahway Ave, Union, NJ. Ronald W. Quade, PE, (732) 205-2614 or [rwquade “AT” ieee.org](mailto:rwquade@ieee.org).

**Feb. 18-May 6** – “C# .NET Programming” – North Jersey Section, Saturday Mornings, 10 sessions, 9:00 AM-12:00 PM, location TBA. Bhanu Chivukula ([b.chivukula “AT” computer.org](mailto:b.chivukula@computer.org)).

**Feb. 23** – “Getting Started as a Consultant” - NJ Consultants' Network, 7:30 PM, Aeroflex/KDI-Integrated Products, 60 S. Jefferson Rd, Whippany, NJ. Robert Walker (973) 728-0344 or [www.TechnologyOnTap.org](http://www.TechnologyOnTap.org).

**Mar. 14-May 9** – “Project Management” – North Jersey Section, Tuesday Evenings, 8 sessions, 6:30-9:00 PM, NJ International Bulk Mail Center, 80 County Rd, Jersey City, NJ. Bhanu Chivukula ([b.chivukula “AT” computer.org](mailto:b.chivukula@computer.org)).

**Mar. 22** – “Light-Emitting Diodes” – EDS/C&S Chapters, 7:00 PM (buffet at 6:15 PM), New Jersey Institute of Technology (NJIT), Room 202, ECE Center, Newark, NJ. Dr. Richard Snyder (973) 492-1207 (RS Microwave), Dr. Edip Niver (973) 596-3542 (NJIT), or Har Dayal (973) 633-4618 ([har.dayal “AT” baesystems.com](mailto:har.dayal@baesystems.com)).

**Mar. 24** – “Electric Power Transfer Switch Seminar” - NJ IAS/PES Chapters, 9:00 AM – 3:00 PM, Automatic Switch Co., 50 Hanover Rd, Florham Park, NJ 07932. Ken Oexle, (973) 386-1156 or [k.oexle “AT” worldnet.att.net](mailto:k.oexle@worldnet.att.net).

**Mar. 27-28** – “2006 IEEE Sarnoff Symposium” – see [www.sarnoffsymposium.org](http://www.sarnoffsymposium.org) for details.

**Apr. 19** – “Electromagnetics and Semiconductor Device Simulations” – EDS/C&S Chapters, 7:00 PM (buffet at 6:15 PM), New Jersey Institute of Technology (NJIT), Room 202, ECE Center, Newark, NJ. Dr. Richard Snyder (973) 492-1207 (RS Microwave), Dr. Edip Niver (973) 596-3542 (NJIT), or Har Dayal (973) 633-4618 ([har.dayal “AT” baesystems.com](mailto:har.dayal@baesystems.com)).

**May 7** – “NJ Section Awards Reception” - 3:00 to 6:00 PM at the Birchwood Manor, 111 North Jefferson Rd, Whippany, NJ. Anne Giedlinski (973) 377-3175.

**Members and Non-Members Welcome**

**PLEASE POST**

*NJ Section PACE & GOLD:*

## Engineers Meet:

### Happy New Year - Where Do We Go From Here?

On Wednesday, January 11, 2006, the North Jersey Section Professional Activities Committee and Graduates of the Last Decade will meet to discuss the engineering profession.

#### About the Meeting

Engineering, especially EE, and Computer Science employment in the US have been in a recession since the telecom bust of 2002. It's easy to blame the usual suspects; outsourcing, hi tech immigration, the NSF, inflated shortage projections by government, industry and academia, low achievement in science and tech education. Some detected shortcomings of the profession during the 1970's.

What's the career path for the engineer of the future? Several grassroots groups have sprung up taking very different paths to attack the issue. Can any of them be successful? What's the IEEE doing?

The engineering profession needs help if it's going to offer a viable career and profession. The old status quo will not work.

What do we do? Get political; get organized; make friends in high places; unionize. What's your opinion? It's time to come together to save the profession we love. We all need to get involved. Remember; "If you're not part of the solution; you're part of the problem!"

#### About the Speaker

Mark Carangi is a Senior Member of the IEEE with over 25 years experience in digital design and product test. Mark has an MSEE from Ohio University and an MBA from FDU. He has curious desire to enhance the profession.

#### 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.ieeeusa.org](http://www.ieeeusa.org)

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

[www.asme.org/sections/northjersey](http://www.asme.org/sections/northjersey)

**Time:** 6:30 to 9:00 PM, Wednesday, January 11, 2006. Refreshments will be served.

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

**Information:** Paul Ward, (973) 790-1625 (PWard1130 "AT" aol.com) or Richard F. Tax, (201) 664-6954 (rtax "AT" bellatlantic.net).

*NJ Consultants' Network:*

## Getting Started as a Consultant

On Thursday, February 23, 2006, the IEEE Consultants' Network of Northern NJ is pleased to present "New Client Development for The Technical Professional", presented by David Mills & Ed McCauley, courtesy of the Sandler Sales Institute.

#### About the Talk

As technical professionals we often give away valuable information and expertise without any commitment as to what they will do with it once they have it. This puts many of us in chase mode, making it difficult to manage our time effectively and forecast concisely.

It doesn't matter what you call it – client development, practice-building, or marketing, everyone sells. But not everyone is comfortable selling. You are not alone if you are uncomfortable with the fact that part of your job requires that you "sell" your ideas, your company and services to your clients.

Many people perceive sales as exploitative and even manipulative but selling doesn't have to be a bad word; it CAN be just another way of looking at providing a solution. Selling is a respectable and profitable part of your profession, and a necessary function of marketing and growing your business. It's a necessary skill in today's competitive marketplace.

Sales is not a mystical art or the domain of those with certain personalities. Rather, successful selling is dependant upon the process we use and who is in charge of leading it.

Join David Mills, Principal of the Sandler Sales Institute, for a comprehensive, highly interactive program designed to help you take greater charge of the sales process, avoid unpaid consulting, deal with money issues and get commitments while building better relationships with your Clients.

Discover how traditional sales practices:

- Turn you into an unpaid consultant
- Why prospective clients always want to think-it-over
- And why traditional approaches lead to price-cutting

During this program we will learn how to:

- Enhance account development strategies.
- Effectively manage existing client relationships and referral development.
- Develop the appropriate networking and prospecting activities.
- Conduct presentations that will permit

the client to say "yes" without pressure from you!

- Help your organization develop a larger client base.
- Learn why people really buy.

#### About the Speakers

David Mills, Principal of the Sandler Sales Institute of Philadelphia (<http://davidmills.sandler.com>), possesses 15 years of business development, management, and training experience. David has created many proprietary products and processes and today holds three global patents. He is internationally published and holds a BS in Mechanical Engineering from the University of Delaware and a Black Belt in Isshinryu Karate.

Ed McCauley has 17 years of experience applying a disciplined and systematic approach to high-tech sales, marketing, and management. In addition to teaching for the Sandler Sales Institute, Ed remains president of a high tech corporation where he continues to sell technical solutions to companies ranging in size from start-up to the Fortune 100. Ed is an alumnus of The U.S. Naval Academy, Rutgers and Drexel Universities, a longtime member of CNNNJ, and can be contacted at (908) 479-1200 or via email: [ed.mccauley "AT" btinc.com](mailto:ed.mccauley@btinc.com).

#### 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!

Everyone welcome. No registration needed. Free admission.

**Time:** 7:30 PM, Thursday, February 23, 2006.

**Place:** Aeroflex/KDI-Integrated Products, 60 S. Jefferson Rd, Whippany, NJ. (Entrance at rear of building)

**Information:** For directions and up-to-date meeting status, call Robert Walker (973) 728-0344 or visit our website at [www.TechnologyOnTap.org](http://www.TechnologyOnTap.org). To download a map to KDI, go to: <http://www.mcekd-integrated.com/directions.htm>.

## New Public Announcements - Mailing for North Jersey Section!

A new North Jersey Section non-IEEE members mailing list for public announcements has been created. The purpose of this mailing list is to disseminate to the North New Jersey section information pertinent to their professional and technical enhancement. It also provides information about IEEE membership services, benefits, social events, networking opportunities, technical and professional meetings, and contests. All events are open for the benefit of the membership and potential new membership. Basic mailing list commands for subscribing and unsubscribing to the mailing list are initiated by email:

TO: listserv@listserv.ieee.org

JOIN BODY: subscribe northjerseypublic firstname lastname

LEAVE BODY: signoff northjerseypublic

## The NJ Section Education Committee Requests Your Feedback

The IEEE North Jersey Section has been helping fellow engineering professionals for the last fifty years. The Education Committee has successfully conducted software and engineering training courses over the last few decades. The Committee is committed to professional development of the members and the instructors for the courses are very qualified and experienced in their respective fields. Classes are arranged on weekday evenings or on Saturdays provided at least fifteen candidates are available. Completion certificates are issued by IEEE Headquarters with CEU credits for the number of training hours.

Due to the slow growth of the economy and several other factors, registration for these courses has diminished over the last few years. I would urge members to send their feedback regarding what courses they would be interested in, the format, location, and day/time, etc., by email to b.chivukula "AT" computer.org.

Regards,  
Bhanu Chivukula  
Chair, Education Committee  
Vice Chair, IEEE North Jersey Section



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## MEET ePOLY OFFLINE AT OUR GRADUATE ENROLLMENT NIGHTS

Now an IEEE Educational Partner, Polytechnic University's ePoly online graduate programs give you the chance to get ahead with your education and your career, without interfering with your busy schedule. It's a great way to pursue a Master's degree, graduate certificate, or take a few courses.

### Master's Degree Programs

Bioinformatics | Electrical Engineering | Telecommunication Networks | Engineering

### Graduate Certificates

Cyber Security | Human Resource Management | Telecommunication Network Management  
Wireless Communication | Documentation, Training and New Media

### Additional Courses

Bridge Courses in Computer Science | Supply Chain Operations | Applied Chemistry  
Project Management | Target Costing

## JOIN US FOR A GRADUATE ENROLLMENT NIGHT

### WESTCHESTER

40 Saw Mill River Road (Route 9A)  
Hawthorne, NY 10532

**Tuesday, January 10, 2006 5-7:30 pm**  
(Information Systems Engineering 6-7:30 pm)

### BROOKLYN

6 MetroTech Center  
Brooklyn, NY 11201

**Wednesday, January 11, 2006 5-7:30 pm**

### LONG ISLAND

105 Maxess Road, Suite N201  
Melville, NY 11747

**Thursday, January 12, 2006 5-7:30 pm**  
(Systems Integration 6-7:30 pm)

### FOR MORE INFORMATION:

**Phone: (718) 260-3911**

**Online: [www.epoly.poly.edu/](http://www.epoly.poly.edu/)**



## IPv6 Transition Should be Part of National Innovation Debate, Says IEEE-USA President

Washington (9 December 2005) - In a keynote address delivered this morning to the U.S. IPv6 Summit in Reston, Va., IEEE-USA President Gerard A. Alphonse urged participants to raise widespread adoption of the Internet Protocol version 6 (IPv6) by Japan, China, Korea and other Asian countries as an issue in the current national policy discussion on U.S. competitiveness and innovation policy.

"Despite its importance, breadth, and all the potential services it will enable worldwide, the current high-level debate has not identified IPv6 as an innovation opportunity of national significance," Dr. Alphonse said. He added: "That's unfortunate because we know that Asian, European and other nations are working very diligently on IPv6, or are even seeking dominance in setting its standards." While praising a recent government directive requiring federal agencies to adopt IPv6 implementation plans, the IEEE-USA president cautioned: "We shouldn't kid ourselves that the Office of Management and Budget's directive is the same as a national vision, mission and action plan for the United States, and equivalent to the plans already in place in Japan, China and Korea."

See the text of Alphonse's remarks at: <http://www.ieeeusa.org/communications/presentationscolumn/Alphonse/alphonsedec05.html>

The U.S. IPv6 Summit brought together senior military, government and political leaders, academics, and business executives in information technology and research and development who share a common interest in IPv6 implementation. The 2006 summit focused on IPv6 transition and how the "New Internet" will help create innovative new businesses and jobs.

For more information, see <http://www.usip6.com/>.

In October, IPv6 Summit Chair Alex Lightman told "IEEE-USA Today's Engineer" that the "New Internet has the potential to create 10-million new American jobs and trillions of dollars in revenue for the United States, but leadership is slipping away to other countries, and it will soon be difficult, if not impossible to recover."

Read the "Today's Engineer" article at <http://www.todaysengineer.org/2005/Oct/ipv6.asp>.

IEEE-USA advances the public good and promotes the careers and public-policy interests of more than 220,000

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 360,000 members in 150 countries. For more information, go to <http://www.ieeeusa.org>.

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IEEE-USA Director of Communications & Public Relations  
**PHONE:** (202) 530 8353  
**E-MAIL:** [p.mccarter@ieee.org](mailto:p.mccarter@ieee.org)

*NJ PES/IAS Chapters:*

### Energy Conservation Series - Solar Power

On February 15, 2006, as part of an ongoing series of free seminars on the topic of energy conservation, the PES and IAS Chapters will sponsor an evening discussion on Solar Power.

#### About the Meeting

Details to follow in the February Newsletter.

#### About the Speaker

The presenter will be from Dome-Tech.

**Time:** 6:30 PM, Wednesday, February 15, 2006. A pre-meeting buffet will be available starting at 6:00PM.

**Place:** Eaton Electrical, 690 Rahway Ave, Union, NJ. Directions: Route 82 Morris Avenue from either Springfield or Union to Rahway Ave.

**Information:** Ronald W. Quade, PE, (732) 205-2614 or [rwquade@ieee.org](mailto:rwquade@ieee.org).

### North Jersey Section Seeks Committee Chairs and Volunteers

The NNJ IEEE Section ExCom is seeking new volunteers to help conduct business at the section level for the benefit of its membership in the North Jersey section and surrounding areas. There are a variety of volunteer positions open and available. They range from long-term to short-term, technical to non-technical, leadership or just participatory. All activities have varying levels of time commitment. For 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

NNJ IEEE Section, please contact the persons listed below for additional information and questions. You can even 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 of the positions currently open and available are:

- *Engineering in Medicine & Biology Chair/Vice-Chair.* Contact Har Dayal ([har.dayal@baesystems.com](mailto:har.dayal@baesystems.com)).
- *Solid State Circuits Chair/Vice-Chair.* Contact Har Dayal ([har.dayal@baesystems.com](mailto:har.dayal@baesystems.com)).
- *Women in Engineering Affinity Group Coordinator.* Contact Har Dayal ([har.dayal@baesystems.com](mailto:har.dayal@baesystems.com)).
- *Historian Committee* seeks help collecting IEEE historical information and specifically IEEE North Jersey Section History. Contact Al Stolpen ([a.stolpen@ieee.org](mailto:a.stolpen@ieee.org)).
- *Student Activities Chair.* Contact Amit Patel ([a.j.patel@ieee.org](mailto:a.j.patel@ieee.org)).

Additionally, if interested volunteers would like to get more general information about other activities in our section, visit the North Jersey Section website for newsletter information <http://web.njit.edu/~ieeenj/> or contact Har Dayal, [har.dayal@baesystems.com](mailto:har.dayal@baesystems.com).

### Standards Educational Materials Now Available

The IEEE Standards in Education Web Portal has been developed in response to a need for more standards education in U.S. undergraduate Electrical and Computer Engineering as well as Engineering Technology programs. It was created by the IEEE Standards in Education Task Force (SETF) with funding and cooperation received from the IEEE Foundation, the National Science Foundation, the IEEE Educational Activities Board, and the IEEE Standards Association. The materials developed are available within the web portal support open access training on the history, use, and applications of standards. Tutorials, case illustrations, a news and features section, and a glossary and reference guide are currently available. Additional tutorials and case illustrations are currently in development. Although these materials have been developed with the undergraduate student in mind, they are also helpful to anyone who is interested in learning more about standards. For more information about this effort or to access these materials, please visit [www.ieee.org/standardseducation](http://www.ieee.org/standardseducation) or contact Tara Gallus, [t.gallus@ieee.org](mailto:t.gallus@ieee.org).

*IEEE-USA in Action:*

## **Wall Street Journal Rebuts Engineer Shortage Claims, IEEE- USA Committee Chair Quoted**

Washington (16 November 2005) - The Wall Street Journal today rebuts claims of a shortage of U.S. engineers by saying that difficulty filling positions is often caused by employers being too choosy in the hiring process.

In "Behind Shortage of Engineers: Employers Grow More Choosy," author Sharon Begley writes that "... companies often create the very shortages they decry by insisting on applicants who meet every item on a detailed list of qualifications."

Michael Teitelbaum, a demographer with New York's Alfred P. Sloan Foundation, said, "No one I know who has looked at the data with an open mind has been able to find any sign of a current shortage."

Paul Kostek, chair of the IEEE-USA Career & Workforce Policy Committee said, "Every few years there is a spurt of panic that we won't have enough engineers in five years. And I say to myself, gee, I'll still be here."

IEEE-USA staff contributed information to Ms. Begley, directed her to Teitelbaum and arranged the Kostek interview.

Wall Street Journal subscribers can access the article at [http://online.wsj.com/article\\_print/SB113210508287498432.html](http://online.wsj.com/article_print/SB113210508287498432.html). Others can go to <http://www.post-gazette.com/pg/05320/607304.stm>.

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## **IEEE-USA Applauds Rep. Pascrell for Introducing H-1B Reform Legislation**

Washington (21 November 2005) - IEEE-USA applauds Rep. Bill Pascrell (D-NJ) for introducing legislation that attempts to correct some of the "serious problems" in the H-1B temporary visa program.

Rep. Pascrell's bill, H.R. 43278, the "Defend the American Dream Act of 2005," introduced on 17 November, is designed to provide greater workforce protections for U.S. citizens and H-1B visa holders. It would require all employers, not just so-called "H-1B-dependent companies," to attest to good-faith efforts to actively recruit U.S. workers for jobs employers propose to fill with H-1B workers. And it prohibits the outplacement (i.e., outsourcing, leasing or contracting) of H-1B workers by H-1B employers to other companies.

"In report after report, government investigators have found serious weaknesses and failings in the H-1B program," IEEE-USA President Gerard A. Alphonse said. "Contrary to the law's intent, the program can be used to fill any job at almost any wage, and the vast majority of employers are not required to recruit American workers first. IEEE-USA applauds Rep. Pascrell for drafting a bill that addresses these serious problems."

In evaluating the H-1B program for the FY 2006 budget cycle, the federal Office of Management and Budget found, "The [current H-1B] statute waives a labor market test, does not require submission of supporting documentation by employers, [and] limits the Department of Labor's authority to review or question [applications]... [,leaving] the program vulnerable to fraud or abuse." According to IEEE-USA, Rep. Pascrell's bill will fix these flaws and ensure that the statute aligns with the intent of the program.

The bill also seeks to strengthen prevailing wage protections for foreign workers because, as viewed by IEEE-USA, the current protections are ineffective and can be easily taken advantage of by employers seeking to pay lower wages than they would pay to comparably skilled Americans. Rep. Pascrell highlighted the bill at a news conference held earlier today (on 21 Nov.) in Paterson, NJ.

IEEE-USA advances the public good and promotes the careers and public policy interests of the more than 220,000 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 360,000 members in 150 countries. For more information, go to <http://www.ieeeusa.org>.

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*IEEE-USA in Action:*

## **IEEE-USA President Voices Support for Permanent Immigration of High-Tech Workers in Published Column**

Washington (22 November 2005) - In "Seeing the Light on H-1B Visas," IEEE-USA President Gerard A. Alphonse writes that to ensure the United States' continuing technological leadership, "IEEE-USA has long favored the permanent immigration of skilled foreign-born engineers and scientists as a much better solution than using temporary H-1B visas."

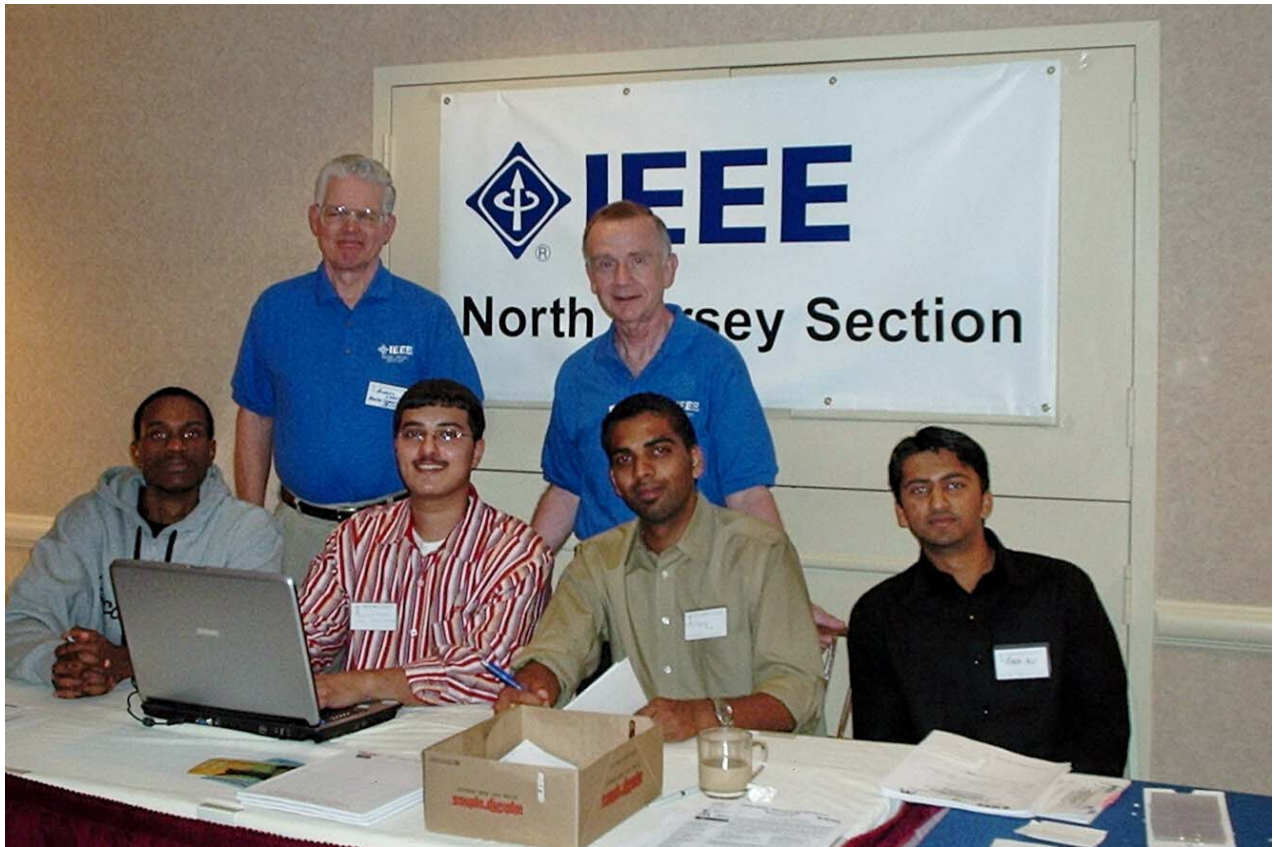
Writing in the 21 November issue of Computerworld magazine, Alphonse characterizes the H-1B program as "plagued by myth and abuse," and cites examples of how flaws in the program hurt U.S. workers and H-1B visa holders. He encourages Congress not to add more H-1B visas to a "flawed system."

You can read the column at <http://www.computerworld.com/governmenttopics/government/legislation/story/0,10801,106343,00.html>.

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## 2005 MTT/AP Annual Symposium and Mini-Show



Students from William Paterson University assisted Howard Leach (back left) and Ken Oexle (back right) at the registration desk



Dr. Chandra Gupta (right) with Willie Schmidt (middle) and Fred Chichester (left)





Interactive product demonstrations were an integral part of exhibitor displays



Exhibitors learned about customer needs and shared state-of-the-art Technology



Exhibition area experienced heavy traffic

# NJ Power Engineering Society/Industry Applications Society

## Electric Power Transfer Switch Seminar

The PES and IAS Chapters will present a technical seminar on the design, operation and application of industrial grade low – medium voltage (120 thru 15000 volt) Power Transfer Switches and Power Control Systems. The session will be held at Automatic Switch 50 Hanover Road in Florham Park, NJ 07932 on Friday, March 24, 2006 beginning at 9:00AM.

### Topics

- Power Transfer Switch Design and Construction
- Transfer Switch Ratings
- Power Switching Applications
- Controls and Communication Systems for Transfer Switching
- Power Control Systems
- Connectivity
- Tour of ASCO/Emerson Switch Assembly and Test Facility

### About the Instructor

Mr. Ronald Schroeder, Director – Product Management, Power, Switching and Controls, will lead the seminar and be assisted by other members of the staff at ASCO Power technologies (a Division of Emerson Electric). Ron has over 34 years of experience in the design and application of power transfer switches to meet specific project requirements. A graduate of Union College and Kean University, he is a Senior Member of IEEE.

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The registration fee for this seminar prior to March 10, 2006 will be \$175 (non-IEEE members), \$125 (IEEE Members), and \$50 (students with valid ID). The fee will be waived for IEEE Life Member Grades with verification at the seminar. Registrations after March 10<sup>th</sup> must include an additional late fee of \$25. The seminar fee includes lunch, refreshments and handouts. Non-members joining IEEE within 30 days of the seminar will be rebated 50% of the IEEE registration charge

**Time:** 9:00 AM to 3:00 PM, Friday, March 24, 2006.  
**Place:** Automatic Switch Company, 50 Hanover Road, Florham Park, NJ 07932 (973-966-2000).  
**Directions:** From Route 80 Take I-287 to Exit 37 (NJ 24 East - Springfield). Take NJ 24 East to Exit 2B (Columbia Turnpike). Proceed 2.2 miles to Hanover Road (6th set of traffic lights). Turn left on Hanover Road (AAA Building). Automatic Switch will be on the right (0.4 mile). Enter first driveway-marked shipping/receiving and proceed to visitor parking lot on the left. Follow sidewalk to office entrance door.  
**Information:** Ken Oexle, (973) 386-1156 or k.oexle "AT" worldnet.att.net.

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### Registration: Electric Power transfer switch Seminar 3/24/2006

Register via US mail to: K. Oexle  
11 Deerfield Rd  
Whippany, NJ 07981

Name \_\_\_\_\_

Address \_\_\_\_\_

Phone \_\_\_\_\_ Email \_\_\_\_\_

IEEE # \_\_\_\_\_ Student @ \_\_\_\_\_ Non IEEE \_\_\_\_\_ Life Member \_\_\_\_\_

Payment Enclosed \$ \_\_\_\_\_ Add \$25 late registration after March 10, 2006.

**Make checks payable to North Jersey Section IEEE**

# IEEE North Jersey Section Course Project Management

Tuesday Evenings, March 14, 2006 through May 9, 2006

Eight weekly classes (March 14, 21, 28, April 4, 18, 25, May 2, 9, 2006)

USPS, NJI & BMC, 80 County Road, Jersey City, NJ 07097-9998 (Checks should not be mailed to this address)

## IEEE North Jersey Section appreciates USPS, BMC for sponsoring these courses at their premises

The North Jersey Section IEEE is offering an evening course entitled "Project Management". Dice.com lists 3200+ 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 300+ people in *IT Project+*, *MS Project 2003*, and *Project Management* courses in eight organizations. **Effective Project Management:** Traditional, Adaptive, Extreme, Third Edition (Paperback) by Authors: Robert Wysocki and Rudd McGary – would be given in the class.

**(This is not an exclusive PMP-PMI examination prep course even though project management processes and concepts are discussed in the class. No PDUs are issued for PMP eligibility. CEU credits would be given by IEEE)**

## 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. 5% Discount for the first 10 registrations. Phone reservations will NOT be accepted. Reservations accepted after March 3, 2006 will require a late fee of \$25. No reservations will be accepted after March 9, 2006.

**WHERE:** NJ International Bulk Mail Center, Jersey City, NJ. (Checks **should not** be mailed to this address)

**WHEN:** 8 Tuesdays, March 14, 21, 28, April 4, 18, 25, May 2, 9, 2006, 6:30-9:00 PM.

**COST:** IEEE (& affiliate) members \$400; Non-IEEE members \$480.

**CONTACT:** Bhanu Chivakula -email b.chivakula "AT" computer.org

## REGISTRATION: Project Management

Please mail the registration form with the check (**Checks payable to "North Jersey Section IEEE"**) to **Bhanu Chivukula, PMP, 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 emailed after March 10, 2006. 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: \_\_\_\_\_

# IEEE North Jersey Section Course C# .NET Programming

Saturday Mornings, February 18, 2006 through May 6, 2006

Ten weekly classes (February 18, 25, March 4, 18, 25, April 1, 8, 22, 29, May 6, 2006)

Place: Avtech Fairfield Campus, 130 Clinton Rd, 2nd Floor, Room B, Fairfield, NJ 07004, (973) 882-8996  
(Checks should not be mailed to this address)

The North Jersey Section IEEE 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 650+ C# .NET related 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.

The IEEE certificate of completion will be given to you when you complete the course. Microsoft has MCAD and MCS D 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 2002, he has trained 250+ people in Java, C++, XML, C# .NET courses in 6 organizations.

## TOPICS

1. Compare the enterprise development tools using C++, Java to C# .NET
2. Define Visual Studio .NET common language runtime
3. Identify C# syntax, data type, control structures
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. Analyze the accessibility regulations and resources
11. Present student Projects

If desired, IEEE Continuing Education Units will be offered for this course. A small fee of \$15 will be required for processing. A total of 30 CEUs will be offered. Please indicate if desired below.

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 February 8, 2006 will require a late fee of \$25. No reservations will be accepted after February 11, 2006.

**WHERE:** Avtech Fairfield Campus, 130 Clinton Rd, 2nd Floor, Room B, Fairfield, NJ 07004, (973) 882-8996  
(Checks **should not** be mailed to this address)

**WHEN:** 10 Saturdays, Feb 18, 25, March 4, 18, 25, April 1, 8, 22, 29, May 6, 2006, 9:00 AM to 12 noon

**COST:** IEEE (& affiliate) members \$475; Non-IEEE members \$550.

**CONTACT:** Bhanu Chivakula -email b.chivakula "AT" computer.org

## REGISTRATION: C# .NET Programming

Please email details to address b.chivakula "AT" computer.org. The filled in registration with the check (**Checks payable to "North Jersey Section IEEE"**) should be mailed to B. Chivukula, Chair, Education Committee, IEEE North Jersey Section, NJ, 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 #: \_\_\_\_\_

Continuing Education Units: \_\_\_\_\_ Yes \$15 \_\_\_\_\_ No

If CEUs are chosen, please include a \$15 processing fee

Payment Enclosed \$ \_\_\_\_\_ Add \$25 late registration after February 8, 2006

Please enclose required fee payable to: **North Jersey Section IEEE**

Registration status will be mailed after February 12, 2006. 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: \_\_\_\_\_