A Note from the Chair

When I first became the Chair of the IEEE North Jersey Section, back in January 2013, I vowed that one of my primary goals was to help bring Engineering jobs back to New Jersey. I stated that I would contact state and federal government officials to make them aware of the exodus of jobs from New Jersey, and pull the resources of the IEEE together to bring the jobs back to our state. Our team has collectively been working hard on this front. Below is a letter that will be sent to state and federal officials. We urge our Membership to join in and support this cause. Contact The Governor, Senators and Representatives. Let them know, that as a Member of the IEEE, you want to stop the migration of jobs from New Jersey. Tell them that you want to see High tech jobs come back to our great state.

Contents of the Letter begin -

“I am writing this letter as the Chair of the North Jersey Section of the IEEE. The IEEE is an association dedicated to advancing innovation and technological excellence for the benefit of humanity. The IEEE is the world’s largest technical professional society. It is designed to serve professionals involved in all aspects of the electrical, electronic and computing fields and related areas of science and technology that underlie modern civilization. The IEEE’s roots go back to 1884 when electricity was just beginning to become a major force in society. There was one major established electrical industry, the telegraph, which—beginning in the 1840s—had come to connect the world with a communications system faster than the speed of transportation. A second major area had only barely gotten underway- electric power and light, originating in Thomas Edison’s inventions and his pioneering Pearl Street Station in New York.

We want to make you aware of a situation that has the Members of the North Jersey Section of the IEEE very concerned. New Jersey is currently experiencing a severe outward migration of high tech operations with the subsequent loss of high paying jobs. Some of the more recent examples of this migration are CommScope, Fort Monmouth and Hoffman-La Roche. In addition, several companies are moving major parts of their operations out of NJ to other states. This represents loss of permanent jobs; and a loss of revenue to the state from income taxes and property taxes. It also reflects negativity on the character of the state and its reputation as a source of intellectual citizens.

We urge an effort by our government to counter this loss. We have several suggestions. Several possible areas of effort would be by a public relations campaign promoting the history of technology within New Jersey. We want to encourage our government officials to actively lobby for government contracts or sub-contracts to be awarded in our state. This has been done by other states in the past and undoubtedly is still being done. At the state level, technical companies could meet with state officials to assist in marketing our capabilities for business throughout the United States and the world, encourage out of state companies to relocate divisions here, and discuss approaches in upgrading state facilities through local companies. An additional area would be state assistance in encouraging and supporting the various technical societies to hold their conventions and symposiums in New Jersey, thereby making our capabilities more visible. Such exhibitions would also benefit the vacation/leisure industry.

A benefit of this effort is to increase permanent employment in the private sector, which would provide high paying jobs and tax income to the state without increasing the public payroll.

Among the technical resources in New Jersey are companies that work in the areas of aerospace, chemicals, communications, defense electronics, information technology, medical research, pharmaceuticals, power generation and...
distribution, radio frequency (RF) and microwave technology, and federal government facilities that support the armed forces as well as military bases. New Jersey is also the home of world renowned technical organizations which include Bell Labs, Edison Labs and RCA Labs.

We have colleges and universities that provide degree courses and research in technology including DeVry University, Fairleigh Dickinson University, New Jersey Institute of Technology, Princeton University, Rutgers University, Stevens Institute and The College of New Jersey.

Possible avenues of effort would be to have the technical community meet with state and federal elected officials to discuss areas of expertise, including: identify new technologies that are strong in New Jersey; discuss solutions to problems such as storm damage and its prevention; novel approaches to counter terrorism; how state of the art advances in technology may be used for economy and efficiency. We can market these areas for current and future government programs that could provide work to our community.

There are many technical societies with active sections in New Jersey and they could be called on to assist in this effort. As previously mentioned, the IEEE is the world’s largest technical society. The IEEE is headquartered in Piscataway and has resources to assist in this effort. In addition, there are three IEEE geographical sections in New Jersey with about 10,000 active Members. The IEEE Membership is willing to assist in this effort.

As a first step, we would like to set up a meeting with the responsible personnel in your department to start a dialog. We want to reverse the migration from New Jersey now. Please contact me at your earliest convenience."

Contents of the letter end-

Please feel free to contact me. My e-mail is always open.

Sincerely,
Russell C. Pepe (rcpepe@ieee.org)
Chair, IEEE North Jersey Section

North Jersey Section 2014 Nominations Final Petition Call and Current Slate

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. North Jersey Section Nomination Committee is making its final call for any petitions for nominations for 2014 section officer election for any of the listed positions.

The Nominating Committee of the North Jersey Section of IEEE has proposed the following candidates to run for Section offices.

Chair: Russell Pepe
Vice Chair 1: Adriaan van Wijngaarden
Vice Chair 2: Ajay Poddar
Secretary: Chris Peckham
Treasurer: Kalyan Mondal
Member-at-large 1: Mengchu Zhou
Member-at-large 2: Goran Djuknic
Member-at-large 3: John Taylor

Additional candidates can be listed on the ballot by member petition.

Petitions must have a minimum of 25 Section member signatures, with their names and membership numbers clearly printed. The petition shall certify that the individual nominated will serve if elected.

The petition is to be sent to the Section Secretary Chris Peckham (cdp@ieee.org) no later than September 28th.

Voting will take place by written ballot which will be published in November issue of the newsletter.

In addition, Various Societies will hold election of their respective officers (Chair, Vice Chair etc.). The members are encouraged to nominate for these positions if interested. One requirement for Society position is that the member should be a member of the society for which he or she should be a member of that society for which the nominations are sent. The Society Chairs will conduct these elections. A list of Societies is published herewith.

Also, there are a number of volunteer opportunities available in all capacity at various committees. The members are encouraged to apply for any of these positions. Please contact Amit Patel (a.j.patel@ieee.org), or Naresh Chand (chandnaresh@gmail.com) and send in your nominations with your Name, Address, Membership Number, E-mail and position for which the nomination is desired.
Calendar of Events

- **September 4, 6:00 PM to 8:45 PM:** IEEE North Jersey Section EXCOM meeting - Murray Hill, NJ  
  **Location:** Alcatel-Lucent, Room Number: 6A-106, 600 Mountain Ave, Murray Hill, NJ 07974, Getting to Bell Labs  
  **Contact:** Russell Pepe (rcpepe@ieee.org), Chris Peckham edp@ieee.org and/or Adriaan J. van Wijngaarden, (avw@ieee.org)  
  Read More…

- **September 05, 6:00 PM to 7:00 PM:** IEEE AP-S/MTT-S, ED/CAS - Physics of Multi-antenna Systems and their Impacts on Wireless Systems - Prof. Tapan Sarkar, Syracuse University, NY  
  **Location:** NJIT - ECE 202, 161 Warren Street, Newark, NJ 07102 Getting to NJIT  
  **Contact:** Dr. Ajay Poddar, Phone: (201)560-3806 (Email: akpoddar@synergymwave.com), Prof. Durga Misra dmisra@njit.edu  
  Read More…

- **September 05, 7:00 PM to 8:00 PM:** IEEE AP-S/MTT-S, ED/CAS - Analytical Synthesis of Multiband Filters through Frequency Transformation - Microstrip Implementation - Prof. Magdalena Salazar Palma of Universidad Carlos III de Madrid, Spain  
  **Location:** NJIT - ECE 202, 161 Warren Street, Newark, NJ 07102 Getting to NJIT  
  **Contact:** Dr. Ajay Poddar, Phone: (201)560-3806 (Email: akpoddar@synergymwave.com), Prof. Durga Misra dmisra@njit.edu, Prof. Edip Niver (973)-596-3542, niver@njit.edu  
  Read More…

- **September 10, 6:30 PM to 8:30 PM:** IEEE IMS - Fast Digital EMI Receivers - Nicolaas duToit  
  **Location:** Alcatel-Lucent, Room Number: 6A-106, 600 Mountain Ave, Murray Hill, NJ 07974, Getting to Bell Labs  
  **Contact:** Emad Farag, (emad.farag@alcatel-lucent.com), Adriaan J. van Wijngaarden, (avw@ieee.org)  
  Read More…

- **September 11, 6:00 PM to 8:45 PM:** PACE - Engineers Meet for a Social  
  **Location:** Clifton Memorial Library, 292 Piaget Ave, Clifton, NJ 07011 Getting to Clifton Library  
  **Contact:** Paul Ward, (973)-790-1625, (peward@ieee.org) Richard F. Tax, (201)-664-6954 (rtax@aea.net)  
  Read More…

- **September 21, 8:00 AM to 6:00 PM:** 2013 IEEE North Jersey COMSOC, Computer, VTS - Advanced Communications Symposium - Call for Posters (Poster Registration - Deadline - September 6, 2013)  
  **Contact:** Amit Patel, Symposium Chair, a.j.patel@ieee.org, Hong Man, Poster Coordinator, hman@stevens-tech.edu, Adriaan J. van Wijngaarden, Publicity, avw@ieee.org, Mani Iyer, Program chair mani.iyer@ieee.org, Yu-Dong-Yao, Local Arrangements  
  Read More…

- **September 21, 8:00 AM to 6:00 PM:** 2013 IEEE North Jersey Advanced Communications Symposium  
  **Location** Babbio Center, Stevens Institute of Technology, 205 State Street, Hoboken, NJ 07030, Getting to Stevens Institute of Technology  
  **Contact:** Amit Patel, Symposium Chair, a.j.patel@ieee.org, Hong Man, Poster Chair, hman@stevens-tech.edu, Adriaan J. van Wijngaarden, Publicity, avw@ieee.org, Mani Iyer, Program Chair mani.iyer@ieee.org, Yu-Dong-Yao, Local Arrangements  
  Read More…

- **September 24, 6:00 PM to 7:30 PM:** AP/MTT – Accurate Clocks and their applications - Dr. John Vig  
  **Location:** NJIT - ECE 202, 161 Warren Street, Newark, NJ 07102 Getting to NJIT  
  **Contact:** Dr. Ajay Kumar Poddar (201)-560-3806, (akpoddar@synergymwave.com), Prof. Edip Niver (973)-596-3542, (niver@njit.edu)  
  Read More…

- **October 2, 6:00 PM to 8:45 PM:** IEEE North Jersey Section EXCOM meeting at NJIT, Newark, NJ  
  **Location:** NJIT - ECE 202, 161 Warren Street, Newark, NJ 07102 Getting to NJIT  
  **Contact:** Russell Pepe (rcpepe@ieee.org), Chris Peckham edp@ieee.org and/or Adriaan J. van Wijngaarden, (avw@ieee.org)  
  Read More…

- **October 3, 8:30 AM to 5:00 PM:** IEEE MTT/AP - 28th Annual Symposium and Mini-Show  
  **Location:** Hanover Manor, 16 Eagle Rock Avenue, E. Hanover, NJ 07936  
  **Contact:** Kirit Dixit (201-669-7599), Russell Pepe (201-960-6796), Har Dayal (973-628-7394), Ajay Poddar (973-881-8800) and George Kannel (973-437-9990). Read More…

- **October 31, 11:30 AM to 2:30 PM:** North Jersey Section and PES/IAS Life Grade Luncheon  
  **Location:** Hanover Manor, 16 Eagle Rock Avenue, E. Hanover, NJ 07936  
  **Contact:** Ken Oexle at k.oexle@ieee.org  
  Read More…

Prior registration is encouraged and appreciated. You do not have to be an IEEE member to attend any event.  
For up to date information, visit our website: IEEE North Jersey Section or visit Webinabox.vTools.
September 4, 2013

IEEE North Jersey Section EXCOM meeting – Murray Hill, NJ

This executive committee (EXCOM) meeting of the IEEE North Jersey Section will be held at Bell Laboratories, Alcatel-Lucent, in Murray Hill, NJ. The meeting will take place in Room 6A-106, which is located near the main entrance behind the Bell Labs Showcase exhibition area. It is not necessary to sign in to access this area.

There will be a get-together with a buffet starting at 6 pm.

The meeting starts at 7 pm EST and typically ends at 8:45 pm. The meeting is meant to discuss and coordinate the section's activities and new initiatives.

Everyone is welcome to attend this meeting.

Please register in advance for this meeting using VTOOLS to provide the meeting organizers an accurate head count. You can change/cancel the registration if your plans change.

For more information, please contact Russell Pepe (rcpepe@ieee.org) and/or Adriaan van Wijngaarden (avw@ieee.org).

Location: Alcatel-Lucent, Room Number: 6A-106, 600 Mountain Ave, Murray Hill, NJ 07974, Getting to Bell Labs
Time: 06:00PM to 08:45PM
6:00 pm - 7:00 pm - Get-together and Buffet
7:00 pm - 8:45 pm - Meeting
No Admission Charge

Contact: Russell Pepe (rcpepe@ieee.org), Chris Peekham (cdp@ieee.org), Adriaan J. van Wijngaarden, (avw@ieee.org)
For Updates and Registration - Click Here
Back to Calendar of Events

September 05, 2013

IEEE AP-S/MTT-S, ED/CAS present:

Physics of Multi-antenna Systems and their Impacts on Wireless Systems

Speaker: Prof. Tapan Sarkar, Syracuse University, NY

Abstract: The objective of this presentation is to present a scientific methodology that can be used to analyze the physics of multiantenna systems, and their Impacts on Wireless Systems.

Biography: Tapan K. Sarkar received the B.Tech. degree from the Indian Institute of Technology, Kharagpur, in 1969, the M.Sc.E. degree from the University of New Brunswick, Fredericton, NB, Canada, in 1971, and the M.S. and Ph.D. degrees from Syracuse University, Syracuse, NY, in 1975. From 1975 to 1976, he was with the TACO Division of the General Instruments Corporation. He was with the Rochester Institute of Technology, Rochester, NY, from 1976 to 1985. He was a Research Fellow at the Gordon McKay Laboratory, Harvard University, Cambridge, MA, from 1977 to 1978. He is now a Professor in the Department of Electrical and Computer Engineering, Syracuse University. His current research interests deal with numerical solutions of operator equations arising in electromagnetics and signal processing with application to system design. He obtained one of the “best solution” awards in May 1977 at the Rome Air Development Center Spectral Estimation Workshop. He received the Best Paper Award of the IEEE Transactions on Electromagnetic Compatibility in 1979 and in the 1997 National Radar Conference. He has authored or coauthored more than 300 journal articles and numerous conference papers and 32 chapters in books and fifteen books, including his most recent ones, Iterative and Self Adaptive Finite-Elements in Electromagnetic Modeling (Boston, MA: Artech House, 1998), Wavelet Applications in Electromagnetics and Signal Processing (Boston, MA: Artech House, 2002), Smart Antennas (IEEE Press and John Wiley & Sons, 2003), History of Wireless (IEEE Press and John Wiley & Sons, 2005), Physics of Multiantenna Systems and Broadband Adaptive Processing (John Wiley & Sons, 2007), Parallel Solution of Integral Equation-Based EM Problems in the Frequency Domain (IEEE Press and John Wiley & Sons, 2009), and Time and Frequency Domain Solutions of EM Problems Using Integral Equations and a Hybrid Methodology (IEEE Press and John Wiley & Sons, 2010).


He received Docteur Honoris Causa both from Universite Blaise Pascal, Clermont Ferrand, France in 1998 and from Politechnic University of Madrid, Madrid, Spain in 2004. He received the medal of the friend of the city of Clermont Ferrand, France, in 2000.
September 10, 2013
IEEE IMS presents:
Fast Digital EMI Receivers
Speaker: Nicolaas du Toit, VP of engineering at AR Worldwide

Abstract: Modern wide band digital receivers are characterized by instantaneous bandwidths in the range 25 to 250 MHz. Without mention of any specific product, special design considerations and constraints for digital EMI receivers are discussed. The principles of digital Fourier analysis are explained. The presentation shows how the daily tasks of EMI test engineers are greatly simplified and shortened by orders of magnitude. Some hereto unimagined EMI problem-solving capabilities are explained, such as the ability to catch and quantify fast transient emissions.

Biography: Mr du Toit is currently VP of engineering at AR Worldwide. He has 30 years experience in the development of and the management of teams developing RF & Microwave power amplifiers, fast scanning EW and EMI receivers, fast switching low noise synthesizers, tunable filters, low phase noise VCO’s, power amplifiers and advanced DSP-based EMC receivers.

Other positions he held include: Engineering Director at Paratek Microwave, Area Manager for Sub-Saharan AfricaLiebert-Hiross (now Emerson Network Power), and R&D ManagerGrinaker at Electronic Systems.

Goal - to make a contribution where cutting edge technology is happening!

Location: Alcatel-Lucent, Room 6A-106, 600 Mountain Ave, Murray Hill, NJ 07974, Getting to Bell Labs
Time: 6:30 PM to 8:30 PM
Contact: Emad Farag, (emad.farag@alcatel-lucent.com), Adriaan J. van Wijngaarden, (avw@ieee.org)
For Updates and Registration - Click Here
Back to Calendar of Events

September 11, 2013
IEEE PACE presents: Engineers meet for a Social

Agenda: This meeting is about getting all members of the Section and North Jersey together for a light evening of discussion and hospitality. We can also hold a brainstorming session to discuss future meetings and activities. All are invited. We shall encourage North Jersey Section Ex-Com officers to attend. When they do, our Section membership will have an opportunity to meet with them on a first name basis.

Bring your associates, friends and spouses. Come and join other Section professionals for the talk and refreshments.

Members and students from other professional societies and engineering disciplines are always welcome. We now include members from IEEE, ASME and AEA. One does not have to be a member of the IEEE or the North Jersey Section to attend.
We encourage all to attend.

**Refreshments:** Pizza and refreshments will be served during the mid-meeting break.

**CARE** is the Congressional Advocacy Recruitment Effort. **CARE** is a voluntary network of IEEE members who are interested in public policy. For information go to: [www.ieeeusa.org/policy/care/](http://www.ieeeusa.org/policy/care/)

**Location:** Clifton Memorial Library, 292 Piaget Ave., Clifton, NJ 07011 (973-772-5500)

**Time:** 06:30PM to 08:45PM (No Admission Charge)

**Contact:** Paul Ward, 973 790-1625. pward1130@aol.com, Richard F. Tax, 201-664-6954, rtax@aea.org

For Updates and Registration - Click Here

Back to Calendar of Events

---

**September 21, 2013**

2013 IEEE North Jersey and its COMSOC, Computer, and VTS Chapters present:

**IEEE North Jersey Advanced Communications Symposium and Poster Presentation:**

The 2013 IEEE North Jersey Advanced Communications Symposium is a full-day symposium on advanced communication systems. The symposium consists of eight invited presentations and a parallel poster session. For more information, please check page 9 of this Newsletter and/or visit the site:

[http://sites.ieee.org/northjersey/events/2013-njacs](http://sites.ieee.org/northjersey/events/2013-njacs)

**Poster Registration:** We encourage all (graduate) students and postdocs to submit a poster for possible presentation during this symposium. Please use the link below to register a poster presentation, and use the comment field to provide the poster title. Please also send the title and abstract to Prof. Hong Man (hman@stevens-tech.edu).

[https://meetings.vtools.ieee.org/meeting_registration/register/19553](https://meetings.vtools.ieee.org/meeting_registration/register/19553)

**Location:** Babbio Center, Stevens Institute of Technology, 205 State Street, Hoboken, NJ 07030

Getting to Stevens Institute of Technology

**Time:** 08:00AM to 06:00 PM

**Contact:** For more information, please contact:

Amit Patel, Symposium Chair, a.j.patel@ieee.org,
Hong Man, Poster Coordinator, hman@stevens-tech.edu,
Adriaan J. van Wijngaarden, Publicity, avw@ieee.org

For Updates and Registration - Click Here

Back to Calendar of Events

---

**September 24, 2013**

IEEE MTT/AP-S Chapter presents:

**Accurate Clocks and Their Applications**

**Speaker:** John Vig

**Abstract:** Clocks are "everywhere," not only in visible places, such as wrist watches and alarm clocks, but in everything electronic: radios, TVs, computers, radar systems, GPS.... The applications and fundamentals of quartz and atomic clocks will be reviewed. Emphasis will be on aspects that are of greatest interest to users (as opposed to designers).

The discussion will include:

- Some interesting applications of clocks
- Resonator and oscillator basics
- Atomic clock basics
- Characteristics and limitations of clocks, and recent developments

**Biography:** John Vig was born in Hungary. He immigrated to the United States in 1957, where he subsequently received the B.S. degree from the City College of New York and his Ph.D. degree from Rutgers - The State University. He spent his professional career performing and leading R&D in US government research laboratories - developing high stability quartz crystal resonators, oscillators, and sensors.

He has been awarded 55 patents and is the author of more than 100 publications, including nine book chapters. Since 2006, he has been a consultant, mainly to program managers at the US Defense Advanced Research Projects Agency (DARPA) for programs ranging from micro- and nano-resonators to chip-scale atomic clocks.

He is an IEEE Life Fellow, and is the recipient of the IEEE Cady Award and the IEEE Sawyer Award. He has been the Distinguished Lecturer of the IEEE Ultrasonics, Ferroelectrics, and Frequency Control (UFFC) Society, and he has served as the president of this Society. He founded the IEEE Sensors Council, served as its founding president, and he served as the 2009 IEEE President and CEO.

**Location:** Building: 201 McLean Boulevard Synergy Microwave Corp. Paterson, New Jersey United States 07504

**Time:** 06:00:00PM to 07:30:00PM (No Admission Charge)

**Contact:** Dr. Ajay Poddar (201)-560-3806, (apkoddar@synergymwave.com)

Prof. Edip Niver (973)-596-3542, (niver@adm.njit.edu)

For Updates and Registration - Click Here

Back to Calendar of Events

---

**October 2, 2013**

IEEE North Jersey Section EXCOM meeting – at NJIT, Newark, NJ

This executive committee (EXCOM) meeting of the IEEE North Jersey Section will be held at the New Jersey Institute of Technology (NJIT), in Newark, NJ. The meeting will take place in the ECE Building, Room ECE-202, at 161 Warren Street, Newark, NJ 07102

There will be a get-together with a buffet starting at 6 pm.

The meeting starts at 7 pm EST and typically ends at 8:45 pm.

The meeting is meant to discuss and coordinate the section's activities and new initiatives.
Everyone is welcome to attend this meeting. Please register in advance for this meeting using VTOOLS to provide the meeting organizers an accurate head count. You can change/cancel the registration if your plans change.

For more information, please contact Russell Pepe (rcpepe@ieee.org) and/or Adriaan van Wijngaarden (avw@ieee.org).

**Location:** NJIT - ECE 202, 161 Warren Street, Newark, NJ 07102

**Getting to NJIT:**

**Time:** 06:00PM to 08:45PM
6:00 pm - 7:00 pm - Get-together and Buffet
7:00 pm - 8:45 pm - Meeting

No Admission Charge

**Contact:** Russell Pepe (rcpepe@ieee.org), Chris Peckham (cdp@ieee.org), Adriaan J. van Wijngaarden, (avw@ieee.org)

For Updates and Registration - Click Here

Back to Calendar of Events

---

**October 3, 2013**

**IEEE MTT/AP - 28th Annual Symposium and Mini-Show**

**Agenda:** Selected topics in microwave technologies for commercial and military applications

**Location:** Hanover Manor, 16 Eagle Rock Avenue, E. Hanover, NJ 07936

**Time:** 8:30 AM to 5:00 PM:

**Contact:** Kirit Dixit (201-669-7599), Russell Pepe (201-960-6796), Har Dayal (973-628-7394), Ajay Poddar (973-881-8800) and George Kannell (973-437-9990).

For Updates and Registration - Click Here

Back to Calendar of Events

---

**October 31, 2013**

**North Jersey Section and PES/IAS Life Grade Luncheon**

**Agenda:** Book editors A. Michael Noll and Michael N. Geselowitz will describe their book “Bell Labs Memoirs: Voices of Innovation.”

Their book consists of biographical and autobiographical portraits of twelve people who worked at Bell Telephone Laboratories in Murray Hill, NJ during the 1960s. The people presented include a glass blower, a limousine driver, a patent attorney, research vice president, and scientists. The counties represented range from the United States to England, India, and Germany.

One objective of the book is to tell the story of Bell Telephone Laboratories through the lives of a representative group of people who actually worked there. Another objective of the book is to honor the memory of William O. Baker who headed the research organization at Bell Telephone Laboratories from 1955 to 1973 – a period some consider the “golden years” of Bell Labs.

They will also discuss the fate of Bell Telephone Laboratories, Inc. (1925-1984), the innovations produced there, and the factors that made the place so unique.

**Advanced registration is required prior to October 24th for 30 only in order of receipt. A hard copy form can be requested from Ken Oexle at k.oexle@ieee.org**

**Location:** Hanover Manor, 16 Eagle Rock Avenue, E. Hanover, NJ 07936

**Time:** 11:30 AM to 2:30 PM

**Contact:** Ken Oexle at k.oexle@ieee.org

For Updates and Registration - Click Here

Back to Calendar of Events

---

**IEEE Pre-College activities present:**

**Pre-College Cyber Defense Competition**

In support of the Section’s IEEE Pre-College activities, the following is provided on the Air Force Association's CyberPatriot VI—The National High School Cyber Defense Competition.

The “Shooting Star” Chapter 195 of the Air Force Association will be sponsoring up to four Open Division high school CyberPatriot VI teams. CyberPatriot was created to help motivate students to pursue science, technology, engineering, and mathematics (STEM) through a high school cyber defense competition. The CyberPatriot VI is patterned after the National Collegiate Cyber Defense Competition. Each high school team consists of a teacher/coach, two to five students, and up to five alternates.

The All Service Division (Jr ROTC units) and the Open Division (regular high school) team enrollment deadline is Oct 1st with competition dates scheduled for Nov 15th, Dec 6th, and Jan 17th. The final in-person all paid competition will be held at the AFA’s CyberFutures Conference, at the Gaylord National Hotel and Convention Center, National Harbor, Md. March 26-30, 2014.

The Open Division enrollment fee per team is $385.00. However, for the first four high schools within Morris or Union Counties to fully enroll, the “Shooting Star” Chapter 195 will pay the enrollment fee. For more details and to enroll, see: [http://www.uscyberpatriot.org/](http://www.uscyberpatriot.org/). For AFA Chapter 195 info, contact Howard Leach, at h.leach@ieee.org, or 973-540-1283.

The Northrop Grumman Foundation is the Presenting Sponsor for Cyber-Patriot VI. CyberPatriot’s founding partners are SAIC and CIAS at the University of Texas-San Antonio.

For schools outside of Morris and Union Counties, please contact the Section’s Pre-College coordinator, Steve Majkowski, for potential support.
North Jersey Section Employment Network Announcement

Unemployed members can contact Suzanne McIntosh (skranjac@us.ibm.com) for assistance with their job search. The Employment Network's LinkedIn group is available for exchange of job leads and discussion of emerging technologies. Low-cost educational opportunities are available throughout the summer months on current high-demand technologies such as cloud computing, Hadoop, and analytics. Educational opportunities are flexible and can be expanded to address additional topics of interest. Please contact the chair for additional information.

Join our network by sending an email to Suzanne McIntosh (chair), at skranjac@us.ibm.com

Suzanne will be happy to add you to our LinkedIn group, “IEEE North Jersey Section Employment Network”.

Welcome! New Members of the IEEE North Jersey Section

<table>
<thead>
<tr>
<th>Full Name</th>
<th>IEEE Grade</th>
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<tbody>
<tr>
<td>Brian James Carroll</td>
<td>Student Member</td>
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<tr>
<td>Thomas Catanese</td>
<td>Member</td>
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<tr>
<td>Joshua Cruz</td>
<td>Student Member</td>
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<td>Chiyuan Ding</td>
<td>Member</td>
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<td>Mike Egbert</td>
<td>Member</td>
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<td>Thomas William Fuscaldo</td>
<td>Member</td>
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<td>Grzegorz (Greg) Hader</td>
<td>Member</td>
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<td>Kumar H Jagtiani</td>
<td>Member</td>
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<td>Piotr Jarosz</td>
<td>Student Member</td>
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<tr>
<td>Alireza Louni</td>
<td>Graduate Student Member</td>
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<td>Jaime Franklin Orantes</td>
<td>Student Member</td>
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<td>Mihai Peterca</td>
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<td>Anthony Richard Picaro</td>
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<td>Matthew Piccinich</td>
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<td>Benjamin Prentice</td>
<td>Student Member</td>
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<td>Shawn Thomas Riker</td>
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<td>Naomi B Robbins</td>
<td>Member</td>
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<td>Genaro Salierno</td>
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<td>Mark Schoenberger</td>
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<td>Francisco A Varela</td>
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<td>William Fischler</td>
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<td>Sharrone Lawrence</td>
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<td>Huaxia Wang</td>
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</table>

How to subscribe to this newsletter if you are not a North Jersey IEEE Member?

To subscribe, send an email to: listserv@listserv.ieee.org, with the body containing "subscribe northjerseypublic"

To unsubscribe, send an email to: listserv@listserv.ieee.org, with the body containing "signoff northjerseypublic"

Back to Calendar of Events

North Jersey Section Seeks Committee Chairs and Section Volunteers

The IEEE North Jersey 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. A list of North Jersey Societies, Chapters, Groups and Committees are published at the end of the newsletter for those interested in participating. 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 Nominations Committee chair, Amit Patel at a.j.patel@ieee.org. You are welcome to attend the section business meeting held the first Wednesday of every month to learn more about volunteer activities that require some help. Please check out the website below for published meeting times and locations. Some committees needing volunteers include the following.

Please contact the person indicated for additional information.

GOLD (Graduates of the Last Decade) Affinity Group Volunteers and Committee members needed –
Contact: Sean Kennedy (sean.kennedy@alcatel-lucent.com)

WIE (Women in Engineering) Affinity Group Volunteers and Committee members needed –
Contact: Zhiwei Mao (zmao@fdu.edu)

EMBS (Engineering in Medicine and Biology Society) is seeking active committee volunteers –
Contact: raquelpc@njit.edu

EMBS Chapter Committee Volunteers –
Contact zhao@fdu.edu-

Technical Management Council Committee Volunteers –
Contact: almeida@synergymwave.com

North Jersey Section Awards Committee Volunteers –
Contact k.oexle@ieee.org

Membership Development Committee Volunteers –
Contact miyer108@gmail.com

Additionally, you can join the IEEE North Jersey Section Facebook Fan Page at: www.facebook.com/pages/IEEE-North-Jersey-Section

Follow us on Twitter at: twitter.com/ieeenorthjersey

Or join the LinkedIn IEEE North Jersey Section Group at: LinkedIn Group Invitation

Back to Calendar of Events
IEEE North Jersey Advanced Communications Symposium

Stevens Institute of Technology, Hoboken, NJ
Saturday, September 21, 2013

The 2013 IEEE North Jersey Advanced Communications Symposium will be held at the Babbio Center, Stevens Institute of Technology, in Hoboken, NJ, on Saturday, September 21, 2013. The symposium consists of eight invited presentations and a parallel poster session. Please check the tentative symposium program below. There will be plenty of opportunities to interact with presenters and network with peers at any of the breaks, during lunch and the closing reception.

Symposium Program

08:00–08:45 Registration, Meet and Greet
08:45–09:00 Opening Remarks
09:00–09:45 Beyond 4G: Millimeter Wave Picocellular Wireless Networks
10:30–10:45 Coffee Break
10:45–11:30 Low Complexity Doped Wireless Broadcast for Multimedia Applications
12:15–13:30 Lunch and Poster Presentations
13:30–14:15 Securing Large-Scale Consumer Vehicle Networks
14:15–15:00 WIFI Security
15:00–15:15 Coffee Break
15:15–16:00 Cellular Security
16:00–16:45 Your Career – Don’t Let It Manage You – A Few Tips to Manage Career Security
16:45–17:00 Closing Remarks
17:00–17:45 Reception and Networking

Registration

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>IEEE member</td>
<td>$ 15.00</td>
<td>$ 25.00</td>
</tr>
<tr>
<td>IEEE student member/graduate student member/life member</td>
<td>$ 10.00</td>
<td>$ 15.00</td>
</tr>
<tr>
<td>Non-member</td>
<td>$ 30.00</td>
<td>$ 40.00</td>
</tr>
<tr>
<td>Non-member (student/graduate student)</td>
<td>$ 15.00</td>
<td>$ 20.00</td>
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For more information and registration, please check: [http://sites.ieee.org/northjersey/events/2013-njacs](http://sites.ieee.org/northjersey/events/2013-njacs)
IEEE North Jersey Section Course

Model-Based DSP with FPGAs

*Location:* Advanced Technical Marketing (ATM), Suite 113, 1719 Rt. 10, Parsippany, NJ 07054

**Attendance limited to first 8 registrants**

**Topic:** A course entitled ‘Model-based DSP on FPGAs’ will be offered by the IEEE North Jersey Chapter. This course covers the use of Altera’s DSP Builder for the design of algorithms and firmware for Field Programmable Gate Arrays (FPGAs). It provides an introduction to the Mathwork’s product Simulink, and to the Altera tools Quartus II and DSP Builder. Familiarity with Matlab is a prerequisite. Lab exercises will be performed using the TerAsic DE0-Nano development board and will include development of a MAC, FFT, DDC and NCO. After completing the class attendees will be able to (1) develop complete FPGA designs for stand-alone operation on target platforms, (2) produce VHDL sub-modules for integration into larger FPGA designs, and (3) perform Hardware in the Loop (HIL) cosimulation. Attendees will be credited with 1.2 Continuing Education Units (CEU) from IEEE.

The term Model-Based Design (MBD) refers to a design process involving models developed not only for the purpose of dynamic simulation, but also for generation of executable code. The model therefore includes both the algorithm being developed, and a dynamic model governing the behavior of the system in which it is contained. That part of the model surrounding the algorithm acts as a test bench -- providing stimulus and reacting to outputs.

**Schedule:**

<table>
<thead>
<tr>
<th>Session</th>
<th>Topic</th>
<th>Dates</th>
<th>Times</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Intro to Model-based design Simulink</td>
<td>Mon 10/7</td>
<td>6 - 9 PM</td>
</tr>
<tr>
<td>2</td>
<td>Intro to Altera Quartus II Standard Blockset Overview &amp; Labs</td>
<td>Mon 10/14</td>
<td>6 - 9 PM</td>
</tr>
<tr>
<td>3</td>
<td>Standard Blockset Labs Advanced Blockset Overview</td>
<td>Mon 10/21</td>
<td>6 - 9 PM</td>
</tr>
<tr>
<td>4</td>
<td>Advanced Blockset Labs</td>
<td>Mon 10/28</td>
<td>6 - 9 PM</td>
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</tbody>
</table>

**Requirements:** Students are required to provide their own laptop running Windows XP or 7, with the 64-bit or 32-bit versions of Matlab and Simulink installed. Acceptable versions include 2010a, 2010b, 2011a, 2011b, and 2012a. Also, Simulink Fixed Point is required to use the Advanced Blockset, and the Communications Blockset is used on some Simulink examples. Trial licenses may be available from the Mathworks.

**Instructor:** David Haessig is the manager of Waveform Products at BAE Systems, Wayne NJ. His group is engaged in development of military wireless communication, control, and avionics systems. Dr. Haessig holds degrees in Mechanical Engineering from Lehigh University and in Electrical Engineering from New Jersey Institute of Technology. He is a senior member of IEEE and an Adjunct Professor at NJIT where he has taught courses in controls and mechatronics. He holds 4 patents in the area of inertial stabilization and has 24 technical and professional publications.

**Cost:** Unemployed IEEE Members $112.50; IEEE Members $225; Non-IEEE members $275

**Contact:** David Haessig, (davidhaessig@ieee.org)

**Registration Deadline:** October 1st, 2013, E-Register: to register online click here or go to https://meetings.vtools.ieee.org/meeting_view/list_meeting/15077 Registration limited to first 8 students.

Alternatively, mail the completed registration with a check (payable to “North Jersey Section IEEE”) to: Dr. Kalyan Mondal, Fairleigh Dickinson University, School of Computer Sciences and Engr, 1000 River Road, T-MU1-01, Teaneck, NJ, 07666

Name: _____________________________________________ Email address ______________________________________

__Non-member__ __IEEE Member__ Member #: __________________ Member of ______________________ technical society

Employer / Address:________________________________________________________________________________

Home Address:_____________________________________________________________________________________

Business (day) telephone #:_________________________________ Home telephone #:_______________________________

Please enclose required fee payable to: North Jersey Section IEEE.
THURSDAY OCTOBER 3, 2013

PLACE: Hanover Manor, 16 Eagle Rock Ave., E. Hanover, NJ 07936. 973-992-7425

For Registration: https://meetings.vtools.ieee.org/meeting_view/list_meeting/18843

MINI SHOW FEATURING LATEST PRODUCTS - (9:30 AM TO 4:30 PM)

TECHNICAL SESSIONS (8:50AM to 4:40PM)

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speakers</th>
<th>Title</th>
<th>Affiliation</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:50</td>
<td>Opening Remarks</td>
<td>George Kannell</td>
<td>Tech. Chair IEEE MTT/AP NJ</td>
<td>LGS Bell Labs</td>
</tr>
<tr>
<td>9:00</td>
<td>IMPLANTABLE WIRELESS MEDICAL DEVICES AND SYSTEMS</td>
<td>Dr. J.C. Chiao</td>
<td>Greene endowed professor &amp; Garrett endowed professor of Electrical Engineering</td>
<td>University of Texas – Arlington</td>
</tr>
<tr>
<td>10:00</td>
<td>BREAK - MINI SHOW EXHIBITION</td>
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</tr>
<tr>
<td>10:30-11:30</td>
<td>WHAT'S NEW IN DIGITAL PREDISTORTION</td>
<td>Dr. John Wood</td>
<td>Editor-in-Chief</td>
<td>IEEE Microwave Magazine</td>
</tr>
<tr>
<td>11:30-12:15</td>
<td>THE STATE-OF-THE-ART: METAMATERIAL MOBIUS RESONATOR OSCILLATOR, APPLICATIONS IN MODERN COMMUNICATION SYSTEMS</td>
<td>Dr. Ulrich Rohde</td>
<td>Chairman of Synergy Microwave Corp., Professor at Cottbus Univ., and Technical University Munich, Germany</td>
<td>Synergy Microwave Corp.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dr. Ajay Poddar</td>
<td>Chief Scientist, Synergy Microwave Corp., Visiting Lecturer at TUM, Germany</td>
<td></td>
</tr>
<tr>
<td>12:15</td>
<td>LUNCH - MINI SHOW EXHIBITION</td>
<td></td>
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<tr>
<td>1:15-2:00</td>
<td>A REVIEW OF GaN TRANSISTORS AND MMICs FOR VERY HIGH POWER APPLICATIONS</td>
<td>Raymond Pengelly</td>
<td>Strategic Business Development Manager</td>
<td>Cree RF Business Unit</td>
</tr>
<tr>
<td>2:00</td>
<td>BREAK - MINI SHOW EXHIBITION</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>2:30-3:30</td>
<td>MICRO Wave PHOTONICS</td>
<td>Dr. Jianping Yao</td>
<td>PEng, IEEE, FOSA, FCAE Professor and University Research Chair, School of Electrical Engineering and Computer Science</td>
<td>University of Ottawa</td>
</tr>
<tr>
<td>3:30-4:30</td>
<td>DEMONSTRATING THE FUTURE OF ELECTROMAGNETICS, ANTENNAS &amp; PROPAGATION</td>
<td>Prof. Michael Underhill</td>
<td>CEO of Underhill Research Lt Formerly at University of Surrey</td>
<td>Underhill Research Limited</td>
</tr>
<tr>
<td>4:30</td>
<td>Closing remarks</td>
<td>Kirit Dixit</td>
<td>Chair IEEE MTT/AP NJ</td>
<td>Microcom Sales</td>
</tr>
</tbody>
</table>

Registration is on-site. Details are in the October issue of the NORTH JERSEY IEEE NEWSLETTER and Section Home page http://www.ieee.org/go/njsection calendar.

ALL ARE WELCOME (IEEE Membership not required). REGISTRATION IS ON-SITE.

THERE IS NO CHARGE TO ATTEND THE SYMPOSIUM OR SHOW.

COMPLEMENTARY BREAKFAST / LUNCH INCLUDED FOR ALL.

FOR FURTHER INFORMATION

<table>
<thead>
<tr>
<th>Chair / Exhibition:</th>
<th>Kirit Dixit</th>
<th>201-669-7599</th>
<th><a href="mailto:kdixit@microcomsales.com">kdixit@microcomsales.com</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>Chair MTT/APS Symposium</td>
<td>Har Dayal</td>
<td>973-633-4618</td>
<td><a href="mailto:dayalhar@gmail.com">dayalhar@gmail.com</a></td>
</tr>
<tr>
<td>Technical Program Chair:</td>
<td>George Kannell</td>
<td>973-437-9990</td>
<td><a href="mailto:gkk@lgsinnovations.com">gkk@lgsinnovations.com</a></td>
</tr>
<tr>
<td>Publicity:</td>
<td>Arthur Greenberg</td>
<td></td>
<td><a href="mailto:a.h.greenberg@ieee.org">a.h.greenberg@ieee.org</a></td>
</tr>
<tr>
<td>Event / Location Coordinator:</td>
<td>Ken Oexle</td>
<td>973-386-1156</td>
<td></td>
</tr>
<tr>
<td>MTT/AP Chapter Chair:</td>
<td>Dr. Ajay Poddar</td>
<td>201-560-3806</td>
<td><a href="mailto:akpoddar@synergymwave.com">akpoddar@synergymwave.com</a></td>
</tr>
<tr>
<td>MTT/AP Chapter Vice Chair:</td>
<td>Prof. Edip Niver</td>
<td>973-596-3542</td>
<td><a href="mailto:edip.niver@njit.edu">edip.niver@njit.edu</a></td>
</tr>
<tr>
<td>Event Coordinator:</td>
<td>Russell Pepe</td>
<td>201-960-6796</td>
<td><a href="mailto:rpepe@att.net">rpepe@att.net</a></td>
</tr>
</tbody>
</table>

Special thanks to Dru Reynolds of Reynolds, Recruiters & NJ Coast Section for her invaluable assistance.
IEEE North Jersey Section Course
C# .NET Programming

Saturday, October 5, 2013 through November 16, 2013

Seven weekly classes (October 5, 12, 19, 26, November 2, 9, 16, 2013)

New Jersey Institute of Technology, Newark, New Jersey (Checks should not be mailed to this address)

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 1000+ C# .NET jobs (up from 720 last year) 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.

Past attendees got jobs at AT&T, Goldman Sachs, IBM, Microsoft, Verizon, and other Fortune 500 firms.

Instructor: Donald Hsu, PhD., has been a corporate manager for 11 years and is an experienced trainer. Since 2006, he has trained 700+ people in C++, Java, Oracle, and WebLogic, XML, and C# .NET in 8 different organizations.

TOPICS
- Compare the enterprise development tools using Java to C# .NET
- Define Visual Studio .NET Version 2008 to latest
- Identify C# syntax, data type, control structures and common language runtime
- Distinguish methods, arrays, object-oriented programming
- Build graphical user interface, multithreading, files and streams
- Explain the benefit of using extensible markup language (XML)
- Select database, SQL server, and ADO .NET
- Choose ASP .NET, web forms, web services, advanced topics
- Present student Projects

WHERE: New Jersey Institute Technology, Newark, New Jersey

WHEN: Saturdays, October 5, 12, 19, 26, November 2, 9, 16, 2013, 9:00 AM to 12:00 noon

COST: IEEE 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, PhD, Chair Education Committee, IEEE North Jersey Section, P.O. Box 2093, Fort Lee, New Jersey 07024.

Name: ___________________________________________ Email address _______________________________________

☐ Non-member

☐ IEEE Member Member #: __________________________

Employer: _____________________________________________________________________________________________

Employer Address: ______________________________________________________________________________________

Home Address: __________________________________________________________________________________________

Home (day) telephone #: ___________________________ Home telephone #: ___________________________

Please enclose required fee payable to: North Jersey Section IEEE

☐ I wish to receive IEEE Completion Certificate Signature: ___________________________________________
IEEE North Jersey Section Course

Project Management

Saturdays, October 5 through November 16, 2013

Seven weekly classes (October 5, 12, 19, 26, November 2, 9, 16, 2013)

New Jersey Institute of Technology (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 a course entitled "Project Management". Dice.com lists 5000+ 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 2010 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 Achievement and earn 2 IEEE Continuing Education Units (CEUs) when you complete the course. You may wish to take the Certification exam 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. However, past attendees did successfully get the PMP certifications!

Instructor: Marilyn Moux, PMP, ITILv3, Cloud Essentials, CAP and Security+, has been a corporate manager for 20+ years and an IT security professional with experience within the entire Software Development Life Cycle Project Management.

TOPICS

- Explain the need for a project manager
- Define SOW, PERT, GANTT, CPM, and Scope of the project
- Identify the team members, resources and plan for the strategy
- Calculate schedule, budget variances, and monitor project progress
- Manage changes, estimates, and communications
- Set a baseline, import tasks from MS Excel, export MS Project files to MS Word
- Approve updates and conclude a project plan
- Analyze Cloud Computing, Service Level Agreements, IT Security
- Present student Projects

WHERE: New Jersey Institute Technology, Newark, New Jersey
WHEN: 7 Saturdays, October 5, 12, 19, 26, November 2, 9, 16, 2013, 9:00 am to 12:00 noon
COST: IEEE (& affiliate) members $500; Non-IEEE members $550.
CONTACT: Donald Hsu, yanyou@hotmail.com

REGISTRATION: Project Management

Please mail the completed registration form with a check (Checks payable to “North Jersey Section IEEE”) to Dr. 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

☐ I wish to receive the IEEE Completion Certificate  Signature: ___________________________________________
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rcpepe@ieee.org
1st Vice-Chair – Adriaan van Wijngaarden
avw@ieee.org
2nd Vice-Chair – Ajay Poddar
akpoddar@synergymwave.com
Secretary - Chris Peckham
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Treasurer - Kalyan Mondal
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Member-at-Large
Mengchu Zhou – zhou@njit.edu
Goran Djuknic – gd@ieee.org
John C Taylor – john.taylor1204@gmail.com
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Chair - Raquel Perez-Castillejos
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Instrumentation Measurement Society
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Vice-Chair – Emad Farag
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Photronics Society
Chair – Naresh Chand
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Power & Energy Society
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Signal Processing Society
Chair – Alfredo Tan
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Co-Chair – Mike Liechenstein
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Co-Chair – Mengchu Zhou
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Vehicular Technology Society
Chair - Manti Iyer
manti.iyer@ieee.org

Technical Councils
Technology Management Council
Chair - Tony Almeida
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Affinity Groups
Consultants Network
Chair - Peter Schutz
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GOLD
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Co-Chair 2 - Kalyan Mondal
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Co-Chair 3 - Mengchu Zhou
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skranjac@us.ibm.com

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Group Coordinator / History
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Membership Development
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mani.iyer@ieee.org
Vice-Chair - Ajay Poddar
akpoddar@synergymwave.com

MTT/AP Trade Show and Symposium
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kdixit@ieee.org
Vice-Chair – Har Dayal
dayalhar@gmail.com

TPC Co-Chair – George Kennall
gkk@lgsinnovations.com

TPC Co-Chair – Ajay Poddar
akpoddar@synergymwave.com

Newsletter
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Co-Chair – Paul E. Ward
peward@ieee.org

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Vice-Chair – Jesse Colby
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Vice-Chair - Daniel Cerone
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Webmaster
Chair – Adriaan van Wijngaarden
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jm@joelmillerlaw.com