



# THE IEEE NORTH JERSEY SECTION NEWSLETTER

Vol. 60, No. 7

AUGUST 2013

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We reserved a box for a Somerset Patriots Baseball Game in Somerset, NJ on Saturday, June 8, 2013. This event was intended to bring IEEE Members in the North Jersey Section and Non-Members together for a fun day at America's favorite pastime. We also used the event to encourage new Members to join and current Members to elevate to Senior Member Grade. We had a nice crowd and added to our Membership. Most of all, everyone had a great time. Many IEEE Members brought their friends and families. As it turned out, the game on the previous day was rained out, so we were treated to a double header, followed by fireworks. Plus we got a free Somerset Patriots baseball hat. (What a deal!) We plan to host another social event soon. Keep reading the Newsletters to get the details as they unfold-stay tuned boys and girls.

Speaking of 2014, the IEEE North Jersey Section will be celebrating its 60<sup>th</sup> year anniversary. We want to make it a year of celebration. In addition to our Annual Awards Banquet, we are planning a few special events throughout the year to commemorate the occasion. We especially encourage all to attend the Awards Banquet in May. At the yearly Awards Banquet, we honor the newly appointed IEEE Fellows, Region 1 Award Recipients and legatees of other Awards. For the 60<sup>th</sup> year celebration, we intend to also honor our past IEEE North Jersey Section Chairs. The Awards Banquet is always a fun and festive event. 2014 will be particularly celebratory, as it will memorialize our active role for the past 60 years. If you never attended the Awards Banquet, this is the year to attend for the first time.

Over the past months, several Members have thrown in their hats to volunteer for positions on several Technical Societies and Committees. My goals for the Section are expansive, so I need the support of Volunteers. Get involved and make a difference. Feel free to contact me to volunteer and help out with a Society or Committee.

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

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

## A Note from the Chair

I hope all our friends in the IEEE world are enjoying the summer. Try to stay cool and dry, and drink plenty of water. (How is that for great technical advice?) I praise Willis Havilland Carrier during these hot, humid days and nights.

Although it is the summer, the IEEE is still hard at work. Keep an eye out for talks, seminars and events brought to you by the various Technical Societies and Committees in the North Jersey Section. Events scheduled throughout the summer and into the fall are listed in our Newsletter and on our Web Site (<http://sites.ieee.org/northjersey/>).

I want to congratulate our hardworking, dedicated Volunteers in the North Jersey Section, as we were selected as the recipient of the 2013 MGA (Member and Geographic Activities) Outstanding Large Section Award among all IEEE Sections in the world. I know our volunteers devote many hours to provide excellent services to our fellow IEEE Members. We do not do this for the glory, but it is always nice to get some recognition. Again, I want to thank everyone involved, who make our Section great.

## Calendar of Events

- August 7, 6:00 PM to 8:45 PM: IEEE North Jersey Section EXCOM meeting – Bell Labs, Murray Hill, NJ**  
**Location:** Bell Laboratories, Alcatel-Lucent, Main Building, Room Number: 6A-106, 600 Mountain Avenue, Murray Hill, NJ 07974, [Getting to Bell Labs](#)  
**Contact:** Russell Pepe (rcpepe@ieee.org), Chris Peckham (cdp@ieee.org) and/or Adriaan J. van Wijngaarden, (avw@ieee.org)  
[Read More...](#)
- August 14, 6:30 PM to 8:45 PM: PACE - ENGINEERS MEET**  
**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...](#)
- August 26, 6:00 PM to 8:00 PM: IEEE MTT/AP –Introduction to the Design and Performance of Quartz Crystal Oscillators, NJ**  
**Location:** 201 McLean Boulevard, Paterson, NJ 07504 [Getting to Synergy Microwave Corporation](#)  
**Contact:** Dr. Ajay Poddar (201)-560-3806 (akpoddar@synergymwave.com); Prof. Edip Niver (973-596-3542), [niver@adm.njit.edu](mailto:niver@adm.njit.edu)  
[Read More...](#)
- September 4, 6:00 PM to 8:45 PM: IEEE North Jersey Section EXCOM meeting -: Clifton Public Library**  
**Location:** Clifton Public Library - Allwood Branch, Activity Room, 44 Lyall Road, Clifton, NJ 07012, [Getting to Clifton Library](#)  
**Contact:** Russell Pepe (rcpepe@ieee.org), Chris Peckham [cdp@ieee.org](mailto:cdp@ieee.org) and/or Adriaan J. van Wijngaarden, ([avw@ieee.org](mailto:avw@ieee.org))  
[Read More...](#)
- September 21, 8:00 AM to 6:00 PM: 2013 IEEE North Jersey COMSOC, Computer, VTS - Advanced Communications Symposium - Poster Presentation (Poster Registration - Deadline - September 6, 2013)**  
**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](mailto:a.j.patel@ieee.org), Hong Man, Poster Coordinator, [hman@stevens-tech.edu](mailto:hman@stevens-tech.edu), Adriaan J. van Wijngaarden, Publicity, [avw@ieee.org](mailto:avw@ieee.org) [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](mailto:a.j.patel@ieee.org), Hong Man, Poster Chair, [hman@stevens-tech.edu](mailto:hman@stevens-tech.edu), Adriaan J. van Wijngaarden, Publicity, [avw@ieee.org](mailto:avw@ieee.org), Mani Iyer, Program chair [mani.iyer@ieee.org](mailto: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](mailto:akpoddar@synergymwave.com)), Prof. Edip Niver (973)596-3542, ([niver@njit.edu](mailto:niver@njit.edu)) [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](#).

## Meeting Announcements

**August 7, 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), Chris Peckham or Adriaan van Wijngaarden (avw@ieee.org).

**Location:** Bell Laboratories, Alcatel-Lucent, Main Building, Room Number: 6A-106, 600 Mountain Avenue, 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 Peckham ([cdp@ieee.org](mailto:cdp@ieee.org))

Adriaan J. van Wijngaarden, ([avw@ieee.org](mailto:avw@ieee.org))

[For Updates and Registration - Click Here](#)

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**August 14, 2013**

### IEEE PACE presents:

#### Engineers meet: Foreign Engineers' History and Opportunities? We are all in this together

**Speaker:** Imad Shabeeb, an Engineer from Iraq

**Abstract:** Engineers are engineers and most face similar issues. It makes no difference what you are, who you are or where you came from. Age, race, creed or origin; Engineers all face the same issues and problems and seek unity, professional jobs and opportunities.

Where lay the problems? Come and meet Mr. Shabeeb. We met Mr. Shabeeb at our previous PACE meeting. Join us this month and meet some other experienced people.

How workers find their way into the U.S. and the first few years of the struggle of a third-world engineer in the U.S.

Here, Imam, an Iraqi engineer will provide his view of the Iraq war and what's going on in the Middle East. He will discuss their education system compared to ours and how qualified foreign engineers relate to American engineers. He will speak about jobs engineers have in Arab countries, Iran, and Turkey and what experience they need.

What's going on in the Middle East, and what was going on before the changes of the last decade?

Come and join other Section professionals for the talk and refreshments.

**Biography:** Imad Shabeeb worked for the US army in Iraq for a couple of years, was injured twice doing combat missions, lost family members, and was then granted a Special Immigrant Visa (SIV) with a green-card upon arrival in the U.S. He received this for serving with the US army and because of the risk of staying in Iraq after being affiliated with the US government.

He graduated with a BSEE and a GPA of 3.07 (evaluated here) from the University of Baghdad. He had started graduate work for a master's degree at the University of Baghdad when the war started in 2003, and his education ended. In 2005, Imad started working for the US Army, and, in 2009, he went back to school to do the last steps to get his degree. He arrived in the U.S. in 2010.

He has applied for an EIT license test, taught, and did entry-level jobs, and is still struggling to find a stable engineering position or an open-minded employer who is not looking for cheap engineering labor and foreign engineers with an unstable visa status.

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](mailto:pward1130@aol.com), Richard F. Tax, 201- 664-6954, [rtax@aea.org](mailto:rtax@aea.org)

[For Updates and Registration - Click Here](#)

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**August 26, 2013**

**IEEE MTT/AP-S Chapter presents:**

### **Introduction to the Design and Performance of Quartz Crystal Oscillators**

**Speaker:** Mike Driscoll, RF Consultant

**Abstract:** This workshop Tutorial will focus on the analysis, design, performance, and evaluation of Crystal Oscillators. It will include a discussion of key oscillator performance parameters, including frequency stability and environmental stress sensitivity.

Recent advances in Crystal Oscillator performance will also be described. At the conclusion of the Tutorial, attendees will be able to utilize, specify, and evaluate crystal oscillator design and performance criteria. The Tutorial will be divided into the following topics:

- Section 1: Quartz Crystal Resonator Characteristics
- Section 2: Crystal Oscillator Fundamentals
- Section 3: Typical Crystal Oscillator Performance
- Section 4: Recent Advances
- Section 5: Frequency Stability Specification and Measurement

**Biography:** Mike Driscoll joined the Westinghouse Defense Centre (now part of Northrop Grumman Electronic Systems) in Baltimore in 1965 after graduating from the University of Massachusetts in Amherst. Since 1968, he has worked primarily on the design and development of low noise signal generation hardware for use in high performance radar systems and other special applications. He was a Senior Consulting Engineer and subsequently a contract engineer at Northrop Grumman until retiring in December, 2012. His responsibilities included the design and development of high stability oscillators as well as characterization and reduction of phase noise in RF signal processing components and circuits. He is a past Secretary, Treasurer, and President of the Baltimore, Washington, and Northern Virginia chapter of the UFFC. He has been a member of the IEEE Frequency Control Symposium Technical Program Committee since 1987. He is an Associate Editor and Associate Editor-in-Chief of the IEEE Transactions on Ultrasonics, Ferroelectrics and Frequency Control (UFFC) and was the Conference Chair for the 2005, 2006, and 2012 IEEE International Frequency Control Symposia (IFCS). In 1991, he was elected as an IEEE Fellow, cited for "Contributions to the development of low-noise acoustic resonator-stabilized oscillators". In 1997, he was the recipient of the IEEE UFFC Society CADY award, cited for Contributions to Low Noise Signal Generator Design. In 2006, he was a recipient of the Northrop Grumman Lifetime Achievement Award. He is the UFFC Society's Distinguished Lecturer for 2012-2013. He has published and presented over 60 papers in IEEE Journals and at IEEE Conferences. He has presented several IEEE Tutorials and Northrop Grumman Instructional Courses and holds 16 U.S. Patents dealing with the subject of Low Noise Signal Generation. He is currently a consultant.

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

**Time:** 06:00PM to 08:00PM (No Admission Charge)

**Contact:** Dr. Ajay Poddar (201)-560-3806,  
([akpoddar@synergymwave.com](mailto:akpoddar@synergymwave.com))

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

[For Updates and Registration - Click Here](#)

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**September 4, 2013**

### **IEEE North Jersey Section EXCOM meeting – Clifton Public Library, NJ**

This executive committee (EXCOM) meeting of the IEEE North Jersey Section will be held in the Activity Room of the Clifton Public Library (Allwood Branch, 44 Lyall Road, Clifton, NJ 07012, T: (973) 471 0555).

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, when the library closes. 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](mailto:rcpepe@ieee.org)) and/or Adriaan van Wijngaarden ([avw@ieee.org](mailto:avw@ieee.org)).

**Location:** Clifton Public Library, Allwood Branch, 44 Lyall Road, Clifton, NJ 07012 [Getting to Clifton Public Library](#)

**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](mailto:rcpepe@ieee.org)), Chris Peckham ([cdp@ieee.org](mailto:cdp@ieee.org)), Adriaan J. van Wijngaarden, ([avw@ieee.org](mailto:avw@ieee.org))

[For Updates and Registration - Click Here](#)

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**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 8 of this Newsletter and/or visit the site

<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](mailto: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](mailto:a.j.patel@ieee.org),  
Hong Man, Poster Coordinator, [hman@stevens-tech.edu](mailto:hman@stevens-tech.edu),  
Adriaan J. van Wijngaarden, Publicity, [avw@ieee.org](mailto:avw@ieee.org)

[For Updates and Registration - Click Here](#)

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## 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 emigrated 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.

He and his wife (of 49 years) live in Colts Neck, NJ, USA. Their main hobby is ballroom dancing. **Location:** Building: 201 McLean Boulevard Synergy Microwave Corp. Paterson, New Jersey United States 07504

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

**Contact:** Dr. Ajay Poddar (201)-560-3806,  
([akpoddar@synergymwave.com](mailto:akpoddar@synergymwave.com))

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

[For Updates and Registration - Click Here](#)

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### 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/>. For AFA Chapter 195 info, contact Howard Leach, at [h.leach@ieee.org](mailto: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".

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## 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](mailto:listserv@listserv.ieee.org), with the body containing "subscribe northjerseypublic"

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

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

Follow us on Twitter at: [twitter.com/ieeenorthjersey](https://twitter.com/ieeenorthjersey)

Or join the LinkedIn IEEE North Jersey Section Group at: [LinkedIn Group Invitation](#)

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## Welcome! New Members of the IEEE North Jersey Section

Name	IEEE Current Grade	Description
Mark Arevalo	Graduate Student	Member
Prasenjit Bhadra	Graduate Student	Member
James Bracegirdle	Member	
James Breese III	Student	Member
Edgardo Caballero	Member	
Justin Cheng	Student	Member
Tzvi Friedman	Graduate Student	Member
William Gaydos	Member	
Xuan Guo	Graduate Student	Member
Daniel Kamien	Student	Member
Jay Klimowicz	Student	Member
Sisi Li	Graduate Student	Member
Wilson Neyra	Associate	Member
Daniel Paniagua Mejia	Graduate Student	Member
Michele Phibbs	Member	
Kevin Quizhpi	Student	Member
Ahmad Richardson	Student	Member
Amin Salighehdar	Graduate Student	Member

Mariyans Stoyanov	Member
Nicholas karter	Member
Brian Carroll	Student Member
Vlad Chiriach	Student Member
Joshua Cruz	Student Member
Ndubueze Eluwa	Student Member
Eileen Hwuang	Student Member
Kumar Jagtiani	Member
Piotr Jarosz	Student Member
Linhao Li	Member
Peter Likarish	Member
Alireza Louni	Graduate Student Member
Samuel McKnight	Student Member
Jaime Orantes	Student Member
Amrit Panda	Member
Anthony Picaro	Student Member
Matthew Piccinich	Student Member
Shawn Riker	Student Member
Alfred Vizzzone	Member
Lauren Wizemann	Student Member
William Cray	Member
William Fischler	Student Member

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## Nomination Committee Invites Executive Committee Officer Nominations for 2014

The 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.

North Jersey Section Nomination Committee invites nominations (self nominations are allowed) for the election of section officers for 2014. All elected section officer nominations are due as soon as possible to the committee. The following positions listed are being sought.

- Chair,
- 1<sup>st</sup> Vice Chair,
- 2<sup>nd</sup> Vice Chair,
- Secretary,
- Treasurer,
- Member-at-Large (3 positions)

In addition, various society chapters 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 a Society position is that the member must be a member of the society for which the nomination is made.

The Society Chairs will conduct these elections. A list of societies is published in the newsletter and on the website.

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

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your Name, Address, Membership Number, E-mail and position for which the nomination is desired.

### 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](mailto: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](mailto:sean.kennedy@alcatel-lucent.com))

**WIE** (Women in Engineering) Affinity Group Volunteers and Committee members needed –

**Contact:** Zhiwei Mao ([zmao@fdu.edu](mailto:zmao@fdu.edu))

**EMBS** (Engineering in Medicine and Biology Society) is seeking active committee volunteers –

**Contact:** [raquelpc@njit.edu](mailto:raquelpc@njit.edu)

**Computer Society Chapter** Committee Volunteers –

**Contact** [zhao@fdu.edu](mailto:zhao@fdu.edu)

**Technical Management Council** Committee Volunteers –

**Contact:** [almeida@synergymwave.com](mailto:almeida@synergymwave.com)

**North Jersey Section Awards Committee** Volunteers –

**Contact** [k.oexle@ieee.org](mailto:k.oexle@ieee.org)

**Membership Development Committee** Volunteers –

**Contact** [miyer108@gmail.com](mailto:miyer108@gmail.com)

Additionally, if interested volunteers would like to get more general information about the section, including a complete listing of all chapters and committees, visit the North Jersey section website <http://sites.ieee.org/northjersey> or contact anyone listed above.

## IEEE North Jersey Advanced Wireless Communications Symposium and Call for Posters

**Babbio Center, Stevens Institute of Technology, Hoboken, NJ**

**September 21, 2013**

The IEEE North Jersey Section and its Communications, Computer and Vehicular Technology Chapters are organizing a one-day technical symposium covering wireless communication and related topics at the Babbio Center on Saturday, September 21, 2013. The event consists of eight invited presentations given by distinguished speakers as well as **poster sessions by invited graduate students/postdocs**. There will be plenty of opportunity to interact with presenters and network with peers at the coffee breaks, during the lunch and the closing reception.

The organizing committee is currently inviting graduate students to prepare a poster presentation on recent work, recent research results, and cutting edge developing technologies in communications and related fields. Masters students, PhD candidates, and post docs are encouraged to participate. The posters session will be particularly helpful for student researchers to have direct interactions with faculty, industry personnel and other peers. This will serve as an excellent platform and opportunity to network for future collaborative research and career advancement.

Poster presentations will be on display all day and a special dedicated exhibition hour is scheduled for all attendees. Presenters have opportunities to interact with all attendees. There is no charge of registration fee to poster presenters. Three outstanding posters will receive 2013 IEEE North Jersey Section communications student/postdoc research awards. The 1st/2nd/3rd place winners will receive prizes of \$400/\$300/\$200 respectively (one prize per winning poster). All poster presentations will receive participation certificates. All submissions will be subject to review by the organizing committee.

If interested, please submit a title and a short abstract to the poster session coordinator Prof. Hong Man at [Hong.Man@stevens.edu](mailto:Hong.Man@stevens.edu) by **September 6, 2013**.

# IEEE North Jersey Advanced Communications Symposium

Stevens Institute of Technology, Hoboken, NJ

Saturday, September 21, 2013

## General Chair

Amit Patel

## Program Chair

Mani Iyer

## Poster Session Chair

Hong Man

## Local Arrangements

Yu-Dong Yao

## Publicity

Adriaan J. van

Wijngaarden

## Event Coordinator

Nagi Naganathan

## Location

Babbio Center

Stevens Institute of

Technology

Hoboken, NJ

## Co-Sponsored by

IEEE North Jersey  
Section

IEEE North Jersey  
Communications  
Society Chapter

IEEE North Jersey  
Vehicular Technology  
Society Chapter

IEEE North Jersey  
Computer Society  
Chapter

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	<b>Registration, Meet and Greet</b>
08:45–09:00	<b>Opening Remarks</b> Amit Patel, <i>Symposium Chair and IEEE Communications Society Chapter Chair</i>
09:00–09:45	<b>Beyond 4G: Millimeter Wave Picocellular Wireless Networks</b> Dr. Sundeep Rangan, <i>Associate Professor, NYU Poly</i>
09:45–10:30	<b>Activity Analysis of Packet-Based Radio Systems</b> Dr. Predrag Spasojevic, <i>Associate Professor, Rutgers, WINLAB</i>
10:30–10:45	<b>Coffee Break</b>
10:45–11:30	<b>Low Complexity Doped Wireless Broadcast for Multimedia Applications</b> Dr. Silvoja Kokalj-Filipovic, <i>Assistant Research Professor, Rutgers, WINLAB</i>
11:30–12:15	<b>Throughput-Optimal Communication Strategy for the Wireless Random Access Channel</b> Dr. Howard Huang, <i>Distinguished Member of Technical Staff, Bell Laboratories, Alcatel-Lucent</i>
12:15–13:30	<b>Lunch and Poster Presentations</b>
13:30–14:15	<b>Securing Large-Scale Consumer Vehicle Networks</b> Dr. Tao Zhang, <i>CISCO</i>
14:15–15:00	<b>WIFI Security</b> Geoff Smith, <i>Vice-President, Proxim Wireless</i>
15:00–15:15	<b>Coffee Break</b>
15:15–16:00	<b>Cellular Security</b> Dr. Krishna Raghunandan, <i>Construction Administrator, MTA/New York Transit</i>
16:00–16:45	<b>Your Career – Don't Let It Manage You – A Few Tips to Manage Career Security</b> Dr. Bala Prasanna, <i>Program Manager, IBM</i>
16:45–17:00	<b>Closing Remarks</b>
17:00–17:45	<b>Reception and Networking</b>



Registration	before Sep. 7, 2013	after Sep. 7, 2013
IEEE member	\$ 15.00	\$ 25.00
IEEE student member/graduate student member/life member	\$ 10.00	\$ 15.00
Non-member	\$ 30.00	\$ 40.00
Non-member (student/graduate student)	\$ 15.00	\$ 20.00

For more information and registration, please check: <http://sites.ieee.org/northjersey/events/2013-njacs>



**THE INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS, INC.**

**NORTH JERSEY SECTION**  
**MTT-Society & AP-Society Joint Chapter**  
**PRESENTS**



**28<sup>th</sup> ANNUAL SYMPOSIUM AND MINI – SHOW**

**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](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)**

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

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

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

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

<b>WHERE:</b>	New Jersey Institute Technology, Newark, New Jersey
<b>WHEN:</b>	Saturdays, October 5, 12, 19, 26, November 2, 9, 16, 2013, 9:00 AM to 12:00 noon
<b>COST:</b>	IEEE members \$500; Non-IEEE members \$550.
<b>Contact:</b>	Donald Hsu, <a href="mailto:yanyou@hotmail.com">yanyou@hotmail.com</a>

**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: \_\_\_\_\_

Business (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](mailto: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: \_\_\_\_\_

## 2013 IEEE North Jersey Section Volunteers

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**Chair** - Russell Pepe  
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**Secretary** - Chris Peckham  
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**Antennas and Propagation Society/  
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**Chair** - Durga Misra  
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**Communications Society**

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**Controls Society**

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**Systems, Man, and Cybernetics Society**

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**Co-Chair** – Mengchu Zhou  
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**Vehicular Technology Society**

**Chair** - Mani Iyer  
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### *Technical Councils*

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**Student Activities**

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**Webmaster**

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**Industrial Liaison**

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**Intersection activities**

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