



THE IEEE NORTH JERSEY SECTION NEWSLETTER

Vol. 60, No. 8

SEPTEMBER 2013

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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

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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 [cdp@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, [edip.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, 6:30 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](#) , [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 [cdp@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 Kannell (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, N J07936
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](#).

Meeting Announcements

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 Peckham (cdp@ieee.org), Adriaan J. van Wijngaarden, (avw@ieee.org)

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

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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).

Dr. Sarkar is a Registered Professional Engineer in the State of New York. He received the College of Engineering Research Award in 1996 and the Chancellor's Citation for Excellence in Research in 1998 at Syracuse University. He was an Associate Editor for feature articles of the IEEE Antennas and Propagation Society Newsletter (1986-1988), Associate Editor for the IEEE Transactions on Electromagnetic Compatibility (1986-1989), Chairman of the Inter-commission Working Group of International URSI on Time Domain Metrology (1990-1996), distinguished lecturer for the Antennas and Propagation Society from (2000-2003), Member of Antennas and Propagation Society ADCOM (2004-2007), on the board of directors of ACES (2000-2006), vice president of the Applied Computational Electromagnetics Society (ACES), a member of the IEEE Electromagnetics Award board (2004-2007), and an associate editor for the IEEE Transactions on Antennas and Propagation (2004-2010). He is currently on the editorial board of Digital Signal Processing – A Review Journal, Journal of Electromagnetic Waves and Applications and Microwave and Optical Technology Letters. He is the chair of the International Conference Technical Committee of IEEE Microwave Theory and Techniques Society # 1 on Field Theory and Guided Waves.

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.

Location: NJIT, ECE 202, 161, Warren Street, NJ07102

<http://www.njit.edu/about/visit/gettingtonjit.php>

Time: 06:00 PM – 07:00 PM

Contact: Dr. Ajay Poddar, (201)560-3806

(akpoddar@synergymwave.com), Prof. Durga Misra
dmisra@njit.edu

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

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05 September, 2013

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

Analytical Synthesis of Multiband Filters through Frequency Transformation - Microstrip Implementation

Speaker: Prof. Magdalena Salazar Palma of Universidad Carlos III de Madrid, Spain

Abstract: This talk discusses the novel design methodology of band-pass filters with multiple pass bands. The key point of this method is a frequency map between single-band resonators and multiple band networks formed by those single-band resonators but with additional resonators coupled to them.

Biography: She received EE MS and PhD degrees from Polytechnic University, Madrid, Spain, where she has been Assistant and Associate Professor. In 2004 she joined the Department of Signal Theory and Communications, Universidad Carlos III, Madrid, where she is Full Professor and co-director of the Radiofrequency Group, and has served as Department head. Her research deals with numerical methods for microwave components and antennas, advanced methods for network synthesis, and THz technologies. Co-author of 550 publications, including 7 books, 24 book contributions, 70 journal papers, 285 international conferences papers. She has coauthored 2 European/USA patents. She has delivered numerous invited presentations, seminars, and short courses. She has participated in 87 projects and contracts financed by USA, European, and national institutions and companies. She served in evaluation panels of USA, EU, and Spanish institutions, and as board member, associated editor or reviewer of several journals. She has received several awards and recognitions.

Location: NJIT - ECE 202, 161 Warren Street, Newark, NJ 07102 [Getting to NJIT](#)

Time: 7:00 PM – 8:00 PM

Contact: Dr. Ajay Poddar, Phone: (201)560-3806 (Email: akpoddar@synergymwave.com), Prof. Durga Misra dmisra@njit.edu, Prof. Edip Niver (973)-596-3542, edip.niver@njit.edu

[For updates and Registration: Click Here](#)

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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](#)

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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/

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](#)

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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 9 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).

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

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

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

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

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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)

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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](#)

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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, NJ07936

Time: 11:30 AM to 2:30 PM

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

[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, 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".

[Back to Calendar of Events](#)

Welcome! New Members of the IEEE North Jersey Section

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

[Back to Calendar of Events](#)

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"

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](#)

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 (zmiao@fd.edu)

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

Contact: raquelpc@njit.edu

Computer Society Chapter Committee Volunteers –

Contact zhao@fd.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, 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 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 van Wijngaarden

Event Coordinator

Nagi Naganathan

Registrations

Michael Newell

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

IEEE New Jersey Coast
Communications Society
Chapter

IEEE New Jersey Coast
AP/VT/EMC Societies Joint
Chapter

IEEE New Jersey Coast
Computer/Communications
Society Joint Chapter



Vol. 60, No. 8

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

Registration	before Sep. 15, 2013	after Sep. 15, 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



SEPTEMBER 2013

IEEE North Jersey Section Course**Model-Based DSP with FPGAs***A four session short course in October 2013***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:

Session	Topic	Dates	Times
1	Intro to Model-based design	Mon 10/7	6 - 9 PM
	Simulink		
2	Intro to Altera Quartus II	Mon 10/14	6 - 9 PM
	Standard Blockset Overview & Labs		
3	Standard Blockset Labs	Mon 10/21	6 - 9 PM
	Advanced Blockset Overview		
4	Advanced Blockset Labs	Mon 10/28	6 - 9 PM

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](http://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.**

THE INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS, INC.



NORTH JERSEY SECTION

MTT-Society & AP-Society Joint Chapter PRESENTS
28th 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

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 Dr. Ajay Poddar	Chairman of Synergy Microwave Corp., Professor at Cottbus Univ., and Technical University Munich, Germany) Chief Scientist, Synergy Microwave Corp., Visiting Lecturer at TUM, Germany	Synergy Microwave Corp.
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 MCS D 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: _____

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,

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

Executive Committee

Chair - Russell Pepe
rcpepe@ieee.org

1st Vice-Chair – Adriaan van Wijngaarden
avw@ieee.org

2nd Vice-Chair – Ajay Poddar
akpoddar@synergymwave.com

Secretary - Chris Peckham
cdp@ieee.org

Treasurer - Kalyan Mondal
mondal@fdu.edu

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 Mengchu Zhou – zhou@njit.edu
 Goran Djuknic – gd@ieee.org
 John C Taylor – john.taylor1204@gmail.com

Junior Past Chair – Naresh Chand
chandnaresh@gmail.com

Senior Past Chair – Amit Patel
a.j.patel@ieee.org

Society Chapters

Aerospace Electronic Systems Society
Chair – Goran Djuknic
gd@ieee.org
Vice-Chair – Naresh Chand
chandnaresh@gmail.com

**Antennas and Propagation Society/
 Microwave Theory and Techniques
 Society**
Chair - Ajay Poddar
akpoddar@synergymwave.com
Vice-Chair – Edip Niver
niver@adm.njit.edu

**Circuits and Systems Society /
 Electron Devices Society**
Chair - Durga Misra
dmisra@njit.edu

Communications Society
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a.j.patel@ieee.org

Computer Society
Chair - Hanna (Hong) Zhao
zhao@fdu.edu

Controls Society
Chair - David Haessig
davidhaessig@ieee.org

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k.oexle@ieee.org

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peterp@lecroy.com

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chandnaresh@gmail.com

Power & Energy Society
Chair - Ronald W. Quade
rwquade@ieee.org

Signal Processing Society
Chair - Alfredo Tan
tan@fdu.edu

Systems, Man, and Cybernetics Society
Co-Chair – Mike Liechenstein
itsmikesju@aol.com
Co-Chair – Mengchu Zhou
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Vehicular Technology Society
Chair - Mani Iyer
mani.iyer@ieee.org

Technical Councils

Technology Management Council
Chair - Tony Almeida
almeida@synergymwave.com

Affinity Groups
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schutzp@compuserve.com

GOLD
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sean.kennedy@alcatel-lucent.com

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Vice-Chair - Ajay Poddar
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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
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TPC Co-Chair – Ajay Poddar
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Co-Chair – Paul E. Ward
peward@ieee.org

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Vice-Chair – Jesse Colby
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john.taylor1204@gmail.com
Vice-Chair - Daniel Cerone
dcer@dcerone.com

Webmaster
Chair – Adriaan van Wijngaarden
avw@ieee.org

Industrial Liaison
Chair-Kirit Dixit
kdixit@ieee.org

Intersection activities
Chair- Amit Patel
a.j.patel@ieee.org

Legal Activities
 Joel Miller
jm@joelmillerlaw.com