

# THE IEEE NORTH JERSEY SECTION NEWSLETTER

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Several new Volunteers joined us last month, to help fill out open positions. We still can use your support. Feel free to come to our June EXCOM, or send me an e-mail (rcpepe@ieee.org). We have several Societies and Committee that could use your help.

Keep those calls and e-mails coming. As I always say, my e-mail is always open.

Sincerely,

Russell C. Pepe,

Chair, IEEE North Jersey Section,

201-960-6796, [rcpepe@ieee.org](mailto:rcpepe@ieee.org) or [atm\\_pepe@yahoo.com](mailto:atm_pepe@yahoo.com)

LinkedIn: [www.linkedin.com/pub/russell-c-pepe/0/a85/ba8](http://www.linkedin.com/pub/russell-c-pepe/0/a85/ba8)

## Important information – Buyer's Edge Shopping

IEEE - North Jersey Group # 1431

The IEEE North Jersey Section is now a Member of the Buyer's Edge Shopping Service. The Buyer's Edge is a buying service that guarantees the lowest prices on major purchases for its 4 million members in the tri-state area of NY, NJ, CT and greater Philadelphia. They offer a Buy-By-Phone, Buy-Online and, in certain benefit categories and areas, Buy-In-Person. Many member benefits are available nationally, like Cars, Furniture and Kitchens; whereas, some benefits, like Appliances, are for the tri-state area only.

It is easy to use the services of the Buyer's Club. Visit the Web Site at: <http://www.buyersedgeinc.com>

Then, enter the following login information:

Username: 1431, Password: member1

**Happy shopping!**

## A Note from the Chair

I hope everyone had a joyous Spring Holiday Season. Maybe some of you had a chance to relax during the Spring Break. I had a chance to spend time with all my children and grandchildren. I even colored Easter eggs with my two youngest daughters. Well, the flowers and trees are blooming, and the IEEE is flourishing. Join us for stimulating talks and seminars, and join us at our various social and networking events.

We kick off the 60th Anniversary Celebration on Sunday, May 4 with the IEEE North Jersey Section Awards Banquet. You still have time to register and attend. Details are provided within the Newsletter. This year, in addition to honoring our Award recipients, we also plan to recognize our Past Chairs. If you have not attended, you should make this year your first time.

We have other activities planned throughout the year. We are planning another outing at a Somerset Patriots Baseball Game. The event was a lot of fun last year, so we decided to do it again this year. Once we settle on a date, we will provide details in the Newsletter.

## The 2014 EXCOM meetings are now in vTools - the schedule is as follows -

Wed	Jun 4	Clifton Library
Wed	Aug 6	Bell Labs, Murray Hill
Wed	Sep 3	Clifton Library
Wed	Oct 1	NJIT, Newark
Wed	Nov 5	Clifton Library

## Employee Skills for a Global Economy

Here are the critical skills to survive in a globally competitive work environment. Employers will prize these skills. When you speak to young engineering students or new employees in your company, emphasize how these skills are critical to their career and how all these skills depend very much on a solid foundation of good communication skills.

### 1) Analyze Information

In an information-rich company, people with good planning, organization and analysis skills will be in key positions to manage, process and interpret the huge flow of internal and external data and information. With solid logical and analytical skills, employees should be able to understand the significance of the information and recommend action.

### 2) Convert Information Into Knowledge

All innovative companies strive to convert raw data and corporate-gathered information into saleable products and services. Executives use this knowledge to help them gain competitive and strategic advantage over other companies. Significant value is placed on individuals who can convert data and information into knowledge, and do it quickly, efficiently and consistently.

### 3) Sell New Ideas to Management

The ability to implement new ideas and concepts is the real measure of success. To bring ideas to fruition, one must be proficient in selling ideas to the executive who can grant access to the necessary corporate resources. Remember — no one will support poorly packaged and presented ideas, regardless of how promising they may appear. Employees must skillfully present their ideas, demonstrate an understanding of the market, and be able to project solid returns on precious corporate funds.

### 4) Communicate Concepts Clearly and Succinctly

This skill is a 'biggie.' Careers have been — and continue to be — severely jeopardized because of poor communication skills. In fact, without them, one's career could be permanently stunted. Employees must be articulate. Today's managers often judge employees by how well they express themselves, both orally and in writing. Managers and leaders need condensed kernels of information around which to base their decisions. They don't have time to wade through endless pages of reports or be intrigued with dazzling, yet long-winded analyses. Succinct analysis wins the day. Employees are ambassadors of their companies, whether meeting with clients, giving a paper at a conference, or talking and interacting with members of the public or regulatory agencies. Communication skills are the absolute foundation for all the others.

### 5) Plan for Timely Commercialization

Getting new products to market is the way companies sustain their cash flow and generate new sources of it. Timely implementation begins with people who know how to plan, organize and execute the commercialization process. Knowing how to plan well allows an employee to handle a variety of different projects. It is also a skill that senior managers value. It sends a clear signal that one knows how to use precious

corporate resources efficiently and effectively. This is where the project manager earns their stripes.

### 6) Be a Team Player

Team work and collaboration among corporate departments has become a mainstay of industry problem solving. Team members must possess excellent communication skills, present new ideas effectively, and resolve to act together to address corporate problems and needs. Articulate leaders connect their team members and their assigned tasks to the big corporate picture. Selecting the right mix of team members is as important as formulating the problems the team must address. Remember, 75% of all product failures can be traced back to poor communications / team work.

### 7) Do Multi-Dimensional, Integrated Problem Solving

Making sound business decisions require more than just the technical and economic aspects of a problem. The environmental, safety, social, political, and regulatory considerations of a new product are also important. Employees need a balanced approach to problem-solving, so they can make tough choices from a multi-dimensional selection of options. Employees who can think and reason problems on multiple levels simultaneously are essential in today's complex decision-making environments; and are often the ones who rise within an organization. Engineering is all about designing within constraints; and very often those constraints can be non-technical in form.

### 8) Seek Learning Opportunities

Learning must be constant. Continually improving or rejuvenating one's skills to meet new corporate challenges is absolutely essential. Employees must develop and maintain a life-long discipline of learning, honing skills, building new knowledge, and setting new goals. The global economy is a very unforgiving, and rapidly changing place.

Take the time to pass along your wisdom to younger IEEE members coming up behind you. Be patient and caring of their development. Start with the eight basic skills above!

Talk to you again soon....

Harry T. Roman

Senior Member, IEEE

North Jersey Section

## North Jersey Section Employment Network Announcement

Join the North Jersey Employment Network for assistance with your job search. By joining our network, you will have access to our LinkedIn group and to seminars in a variety of emerging technologies such as Hadoop, Big Data, Python, Cloud, Analytics, Java, etc.

Please email the chair, Suzanne McIntosh ([SKranjacMcIntosh@yahoo.com](mailto:SKranjacMcIntosh@yahoo.com)) for additional information or to join the LinkedIn group

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## Calendar of Events

- **May 06, 6:00 PM to 9:00 PM: IEEE BT, IT, COMSOC, VTS: Audio Considerations for Mobile DTV –**  
 Tim Carroll - The Tellos Alliance/Linear Acoustics  
**Location:** Bell Laboratories, Alcatel-Lucent, Main Building, Room Number: 6A-106, 600 Mountain Avenue, Murray Hill, NJ 07974, [Getting to Bell Labs](#)  
**Contact:** Joe Stack, BT Chair (609) 647-9677, Adriaan J. van Wijngaarden ([avw@ieee.org](mailto:avw@ieee.org)) [Read More...](#)
- **May 08, 5:45 PM to 7:15 PM: AP/MTT – Non-resonating Mode Waveguide Filters -** Dr. Bastioli of RS Microwave  
**Location:** NJIT - ECE 202, 161 Warren Street, Newark, NJ 07102 [Getting to NJIT](#)  
**Contact:** Dr. Ajay Kumar Poddar (201) 560-3806, ([akpoddar@ieee.org](mailto:akpoddar@ieee.org)) [Read More...](#)
- **May 19, 5:30 PM to 7:00 PM: AP/MTT, ED/CAS: Technology and Standard for Virtual-View 3D systems -** Hsueh-Ming HANG of College of Electrical & Computer Engineering, National Chiao-Tung University  
**Location:** NJIT - ECE 202, 161 Warren Street, Newark, NJ 07102 [Getting to NJIT](#)  
**Contact:** Dr. Ajay Kumar Poddar, Phone: (201) 560-3806, ([akpoddar@ieee.org](mailto:akpoddar@ieee.org))  
 Durga Misra (973-596-5739), Prof. Edip Niver (973)596-3542, ([edip.niver@njit.edu](mailto:edip.niver@njit.edu)) [Read More...](#)
- **June 4, 5:30 PM to 6:30 PM: IEEE Senior Member Drive**  
**Location:** Clifton Public Library - Allwood Branch, Activity Room, 44 Lyall Road, Clifton, NJ 07012, [Getting to Clifton Public Library](#)  
**Contact:** Mani Iyer, [mani.iyer@ieee.org](mailto:mani.iyer@ieee.org) Kai T. Chen, [k.t.chen@ieee.org](mailto:k.t.chen@ieee.org) Ajay K. Poddar, [poddar\\_ajay@yahoo.com](mailto:poddar_ajay@yahoo.com) Adriaan J. van Wijngaarden, [avw@ieee.org](mailto:avw@ieee.org) ([avw@ieee.org](mailto:avw@ieee.org)), [Read More...](#)
- **June 4, 6:00 PM to 8:45 PM: IEEE North Jersey Section EXCOM Meeting – Clifton NJ**  
**Location:** Clifton Public Library - Allwood Branch, Activity Room, 44 Lyall Road, Clifton, NJ 07012, [Getting to Clifton Public Library](#)  
**Contact:** Adriaan J. van Wijngaarden, [avw@ieee.org](mailto:avw@ieee.org) ([avw@ieee.org](mailto:avw@ieee.org)), [Read More...](#)

## IEEE NORTH JERSEY SECTION – Short Courses

- **IEEE North Jersey Section Course: Marketing Research** - Seven weekly classes (June 14, 21, 28, July 12, 19, 26, August 2 2014., 9:00 AM to 12:00 noon) New Jersey Institute of Technology, Newark, New Jersey
- **IEEE North Jersey Section Course: Project Management** - Seven weekly classes (June 14, 21, 28, July 12, 19, 26, August 2 2014., 9:00 AM to 12:00 noon) New Jersey Institute of Technology, Newark, New Jersey

- **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](#)**
- **Visit: [vTools Registration](#) to register for a meeting or event**

## Meeting Announcements

6 May, 2014

IEEE BT, IT, COMSOC, VTS present:

### Audio Considerations for Mobile DTV

**Speaker:** Tim Carroll of the Tellos Alliance/Linear Acoustics

**Abstract:** Mobile television is quickly emerging as a new medium for experiencing video programming. Devices are generally quite small and include handheld televisions, mobile phones, tablets, laptops and related devices. The dynamic range “comfort zone” used for mixing television audio for viewing on stereo or surround in-the-home televisions is far too wide for comfortable listening on typical “earbuds” or worse, the tiny speakers in the mobile device.

Dialogue intelligibility is a serious issue for these less-than-ideal transducers. Physical and electrical limitations impact audio quality and can reduce intelligibility. Further, the environments where mobile television would typically be used have a relatively high background noise loudness floor – if the volume is simply increased for acceptable intelligibility on soft passages, loud passages run the risk of outstripping device capabilities or worse, potentially causing uncomfortably loud audio.

The goal is to deliver to the viewer the most satisfying experience appropriate for widely varying individual listening environments. Research has shown that attempts to improve mobile audio by simply employing traditional broadcast audio processing systems actually make things worse.

This presentation includes a brief review of the audio portion of the ATSC specification for digital television, a discussion of the physical and electrical constraints inherent in typical mobile devices and an overview of the psychoacoustic aspects of listening in less-than-ideal environments. It then analyzes various approaches to handling audio for mobile TV including single-ended processing both pre- and post-transmission, metadata, and hybrid combinations of these techniques. Results of some real-world installations will also be described and recommendations for broadcasters and device manufacturers will be offered.

**Biography:** Tim Carroll is founder and president of Linear Acoustic Inc., the company behind the award winning AEROMAX® range of real-time and file-based audio loudness control solutions, and industry standard UPMAX® stereo/5.1 channel upmixing and downmixing technologies. The company provided its products technical services for NBC’s coverage of the 2008 Beijing Summer Games, the 2010 Vancouver Winter Games, and the 2012 London Summer Games. Linear Acoustic is a recipient of a Technology and Engineering Emmy Award for work on metadata and loudness. Tim is a member of IEEE, AES, SBE, SMPTE, and BKSTS and is a participant in the work of the ATSC and the EBU.

**Location:** Bell Labs, Room 6A-106, 600 Mountain Avenue, Murray Hill, NJ

**Time:** 06:00PM to 09:00PM

6:00PM -7:00PM Refreshments/Dinner,

7:00PM - 9:00PM Seminar

You don't have to be an IEEE member to attend.

**Contact:** Joe Stack, BT Chair (609) 647-9677. Adriaan J. van Wijngaarden, IT Chair, [avw@ieee.org](mailto:avw@ieee.org)

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

08 May, 2014

### IEEE AP/MTT presents- Non-resonating Mode Waveguide Filters

**Speaker:** Dr. Bastioli of RS Microwave

**Abstract:** The multimode approach is a well-established technique for the design of microwave filters. The idea underlying a multimode cavity filter is that a single physical cavity can be designed so as to handle more than one resonant mode. In terms of filtering function this means that each cavity is able to generate multiple poles, thus decreasing the number of physical cavities which are necessary to implement a certain filter order. As a result, one of the most successful applications of this technique is the realization of reduced-size waveguide cavity filters for satellites.

Recently, the classic multimode concept has been extended to also involve a different type of modes, namely the nonresonating modes. What is meant by nonresonating mode? The term nonresonating indicates a mode that resonates far away from the filter passband. Such a mode can be propagating or evanescent at the operative frequencies, but not resonating. In this new multimode approach the nonresonating modes can be used in combination with either a single or a pair of resonant modes. The essential characteristic of the nonresonating modes is that they can be exploited to create additional paths for the electromagnetic energy flow that bypasses the resonant modes. By properly exploiting the interference between the different paths, pseudo-elliptic filtering functions with finite frequency transmission zeroes can be obtained. In contrast with the classic multimode approach in which only resonant modes are employed, the selectivity provided by a single cavity is dramatically enhanced by generating transmission zeroes rather than by increasing the number of poles. Aside from the compactness, a major advantage of nonresonating mode filters is the possibility of generating a maximum number of transmission zeroes that equals the number of poles.

This talk will present an overview of the main contributions that recently introduced the use of nonresonating modes for the realization of pseudo-elliptic waveguide filters. The attention will be especially focused on how the multimode operation in those structures can be easily related to well-known filter topologies, thus enabling the application of standard synthesis techniques as well as the understanding of otherwise rather complicated electromagnetic phenomena.

**Biography:** Simone Bastioli received the Master's and Ph.D. degrees in Electronic Engineering from the University of Perugia, Italy, in 2006 and 2010, respectively.

In 2005, he was an intern at Ericsson AB, Mölndal, Sweden, working on waveguide filters and transitions for radiofrequency applications. In 2006, he was admitted as PhD student at University of Perugia with a scholarship funded by the Italian Space Agency (ASI). In 2009, he was with RF Microtech Srl, Perugia, Italy, where he was responsible for the design of advanced microwave filters for private and European Space Agency (ESA) funded projects. In 2010, he joined RS Microwave Company Inc., New Jersey, US, where he is currently employed as senior microwave research engineer working on reduced size multimode cavity filters, advanced high power evanescent-mode filters as well as dielectric resonator and lumped element filters for military applications.

Dr. Bastioli is a member of MTT-8 Filters and Passive Components Technical Committee, and he is an Associate Editor of the IEEE Microwave Magazine. He is also a member of the technical program committee for the IEEE MTT-S International Microwave Symposium (IMS). In 2012, he was the recipient of the IEEE Microwave Prize, which is the oldest award granted by the Microwave Theory and Techniques Society, dating back to 1955. In 2008, he was awarded with the Best Student Paper Award at the IEEE MTT-S IMS held in Atlanta, GA, USA, and with the Young Engineers Prize at the European Microwave Conference held in Amsterdam, The Netherlands. In 2009, he was the recipient of the Hal Sobol Award presented at the IEEE MTT-S IMS held in Boston, MA, USA. His research activities resulted in more than thirty publications in international journals and conferences as well as five patent applications.

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

**Time:** 05:45PM to 07:15PM

**Contact** Dr. Ajay Kumar Poddar (201) 560-3806, ([akpoddar@ieee.org](mailto:akpoddar@ieee.org))

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

## 19 May, 2014

### AP/MTT, ED/CAS present: Technology and Standard for Virtual-View 3D Systems

**Speaker:** Hsueh-Ming HANG of College of Electrical & Computer Engineering, National Chiao-Tung University

**Abstract:** 3D video products are aggressively growing recently. One step further, the virtual-viewpoint (or free-viewpoint) video becomes the research focus. It is also an ongoing standardization item in the international ITU/MPEG Standards. In addition to the movie special effects, one application of virtual-view system is the multi-view auto-stereoscopic (glasses free 3D) display. Typically, a densely arranged camera array is used to acquire input images and a

virtual view picture is synthesized using the depth-image based rendering (DIBR) technique. Three essential components are needed for building a virtual-view system: depth estimation, data compression, and view synthesis. The ITU/MPEG standard committee is now in the process of defining the data compression (delivery format) of the virtual-view system. The committee also provides non-normative depth estimation and view synthesis tools. The entire set of standard specifications is to be done in two years. We will summarize the recent progress and technology trend on this subject.

**Biography:**

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

**Time:** 05:30PM to 07:00PM

**Contact** Dr. Ajay Kumar Poddar, Phone: (201) 560-3806, ([akpoddar@ieee.org](mailto:akpoddar@ieee.org)) Durga Misra (973-596-5739), Prof. Edip Niver (973)596-3542, ([edip.niver@njit.edu](mailto:edip.niver@njit.edu))

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

## 4 June, 2014

### IEEE North Jersey Section - Senior Member Drive

**Meeting Agenda:** If you have not started your senior membership application yet, start now and have your references completed by early June 2014 or sooner to be ready for review by the IEEE senior member selection review panel scheduled for June 2014.

See:

[http://www.ieee.org/membership\\_services/membership/senior/senior\\_requirements.html](http://www.ieee.org/membership_services/membership/senior/senior_requirements.html)

For senior member requirements and see

[http://www.ieee.org/membership\\_services/membership/senior/senior\\_application.html](http://www.ieee.org/membership_services/membership/senior/senior_application.html)

for the application.

If you are having trouble finding that last senior member reference, bring printed out hard copies of your full resume and senior member application portfolio with you to the meeting for review by other senior members and to find that last reference. The registration link is below.

All section members are invited to attend, especially those who are current senior members and are willing to volunteer as references, and any of those interested in becoming more active in general IEEE activities, volunteering, or those seeking senior membership. If you are interested in serving as a reference contact our membership development chair at this address: [northjerseymembership@yahoo.com](mailto:northjerseymembership@yahoo.com) or [mani.iyer@ieee.org](mailto:mani.iyer@ieee.org) and register below in VTOOLS.

The event will be held on Wednesday, June 4, 2014, 5:30-6:30 PM. There will be a free buffet dinner and an opportunity to network with section members. Seating is limited and registration is required for all.

The meeting will take place in the Activity Room of the Clifton Public Library (Allwood Branch, 44 Lyall Road, Clifton, NJ 07012, T: (973) 471 0555).

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

**Time:** 05:30PM to 06:30PM

**Contact:** Mani Iyer, [mani.iyer@ieee.org](mailto:mani.iyer@ieee.org) Kai T. Chen, [k.t.chen@ieee.org](mailto:k.t.chen@ieee.org) Ajay K. Poddar, [poddar\\_ajay@yahoo.com](mailto:poddar_ajay@yahoo.com) Adriaan J. van Wijngaarden, [avw@ieee.org](mailto:avw@ieee.org) ([avw@ieee.org](mailto:avw@ieee.org)), [For Updates and Registration: Click Here](#)

## 4 June, 2014

### IEEE North Jersey Section EXCOM Meeting – Clifton NJ

**Meeting Agenda:** 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)), Chris Peckham, and/or Adriaan van Wijngaarden ([avw@ieee.org](mailto:avw@ieee.org)).

**Location:** Clifton Public Library - Allwood Branch, Activity Room, 44 Lyall Road, Clifton, NJ 07012,

[Getting to Clifton Public Library](#)

**Time:** 06:00PM to 08:45PM

**Contact:** Russell Pepe ([rcpepe@ieee.org](mailto:rcpepe@ieee.org)), Chris Peckham, and/or Adriaan van Wijngaarden ([avw@ieee.org](mailto:avw@ieee.org)).

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

### North Jersey Section Hosts Fall 2014 Advanced Communications Symposium

The IEEE North Jersey Section, ComSoc, Computer, IT, and VTS Chapters will host a one-day technical symposium covering communication topics on Saturday, September 20, 2014 at the Babbio Center, Stevens Institute of Technology, in Hoboken, NJ. The program will consist of six presentations by distinguished speakers and a parallel poster session of graduate students. There will also be plenty of opportunity to interact with presenters and network with peers at any of the breaks, lunch and closing. The section's and chapter's primary goal is to provide a local event that is focused on bringing value to local engineers working in the field and local graduate students doing research. With increasing pressure on

time and travel budgets for conference attendance, this event is at a local venue within easy reach for everyone in New Jersey and the New York metropolitan area. It will also give students from nearby universities and institutes a chance to showcase their work and all participants an opportunity to learn what is happening now.

The organizing committee is currently inviting distinguished speakers who would like to give a 50-minute presentation on recent work, recent research results, and cutting edge developing technologies in wireless, networking, or communications. The six selected speakers will be notified based on specific themes chosen for the symposium. If interested, please reach out to the speaker coordinator Mani Iyer at email: [mani.iyer@ieee.org](mailto:mani.iyer@ieee.org).

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 wireless, networking, or communications. Additionally, posters are not limited to wireless topics but can cover other broader communication topics as well. Masters students working on a thesis, PhD candidates, and postdocs are encouraged to participate. There will be blocks of time reserved for poster review by all attendees. If interested, please reach out to the poster session coordinator Hong Man at email: [hong.man@stevens.edu](mailto:hong.man@stevens.edu).

Registration will be opened shortly on vTools. General audience members are invited to participate and register online to save their seats. If you have any questions, need additional information, or would like to volunteer or participate in the symposium, contact the General Chair or appropriate members of the organizing committee.

General Chair, Amit Patel, [a.j.patel@ieee.org](mailto:a.j.patel@ieee.org)

Speaker Coordinator, Mani Iyer, [mani.iyer@ieee.org](mailto:mani.iyer@ieee.org)

Poster Session Coordinator, Hong Man,

[Hong.Man@stevens.edu](mailto:Hong.Man@stevens.edu)

Local Arrangements Coordinator, Yu-Dong Yao, [Yu-Dong.Yao@stevens.edu](mailto:Yu-Dong.Yao@stevens.edu)

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

### About Senior Membership

Do you know an outstanding IEEE member who is not yet an IEEE Senior Member? Do you feel that you are qualified for such recognition? If you are interested in becoming a Senior Member or nominating a fellow IEEE member please see [http://www.ieee.org/membership\\_services/membership/senior](http://www.ieee.org/membership_services/membership/senior) for an application and for qualification requirements.

Assistance with references is found on the Senior Member Web page and within the application form. You can also contact any of the North Jersey Section Executive Committee members including Membership Development Chair or Society Chapter Chairs at the local level or attend an IEEE North Jersey Section meeting or upcoming Senior Member Drives, where qualified attendees will be happy to actively support you in the nomination process.

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

Full Name	Current IEEE Grade
Nil Garcia	Graduate Student Member
Robert Pinto	Student Member
Joshua S. Mark	Graduate Student Member
Tony Tempio	Associate Member
David Lorenzi	Graduate Student Member
Meta M. Rohde	Member
Matthew Lagarenne	Student Member
William Blakey	Associate Member
Ibrahim Dawha	Graduate Student Member
roger S. cameron	Member
Anthony Castilho	Student Member
Andrea Shyti	Student Member
Stephen DeCorte	Member
William Heberling	Student Member
Harold Cerna	Student Member
Antonio R Dawkins	Student Member
Madonnina Suresh	Student Member
Nayef Alqahtani	Graduate Student Member
Amir Mirbeik-Sabzevari	Student Member
Vinay Rao	Member
Gabrielle Redgate	Graduate Student Member
Yaset Evo	Student Member
Yang Gao	Graduate Student Member
Bianca A. Armand	Student Member
Kashifuddin M. Qazi	Graduate Student Member
Zijiang Yang	Member
Leoncio W. Estevez-Reyes	Member
Jesus Escobedo	Student Member
Vladimir Kolesnikov	Associate Member
Garrett Gutierrez	Student Member
Kyle Lowe	Student Member
Neil Patel	Student Member
Jason Jackson	Graduate Student Member

## How to subscribe to this newsletter if you are not an IEEE North Jersey 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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## IEEE 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 IEEE 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's executive committee 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.

**Young Professionals** (formerly 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.

[Back to Calendar of Events](#)

## IEEE North Jersey Section Course

### Marketing Research

*Saturdays, June 14 through August 2, 2014*

*Seven weekly classes (June 14, 21, 28, July 12, 19, 26, August 2 2014)*

*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 North Jersey Section IEEE is offering "Marketing Research" course. Careerbuilder.com lists 6100+ Marketing jobs in the New York tri-state area daily! As an engineer, you never did marketing. Getting the MBA takes two years. This is a better alternative to learn marketing and how you work as a marketing researcher.

This course deals with the collection, evaluation and analysis of the market-related information. Topics are: market research industry, problem definition, research process, focus group, secondary database, quantitative research, questionnaire design, sampling techniques, statistical testing, bivariate and multivariate correlation, communicating results and management reports. Using IBM SPSS software, you will perform detailed data analysis in healthcare, finance, social sciences, and marketing research firms.

You will receive the IEEE completion certificate. You may work as a market researcher in any organization that needs your quantitative skills.

**Instructor: Donald Hsu, PhD.**, has been a corporate manager for 11 years and is an experienced trainer. Since 2007, he has trained 950 people in Management, Marketing, Global Marketing, and Marketing Research courses in seven organizations. In addition, he does international business in 73 countries.

#### **TOPICS**

- *Describe the market research industry, problems and research process*
- *Understand the importance of primary data collection, secondary database, and survey*
- *Define quantitative research, measurement technique and sampling methods*
- *Explain the questionnaire design, data processing and statistical testing*
- *Build the knowledge of bivariate regression and multivariate data analysis*
- *Communicate results, manage ethical issues, and prepare reports*
- *Employ IBM SPSS software for frequency analysis, ANOVA, T-test and others*
- *Review real-world marketing research using Harvard Business School cases*
- *Present Final Project in Marketing Research*

**WHERE:** New Jersey Institute Technology, Newark, New Jersey [Getting to NJIT](#)

**WHEN:** 7 Saturdays, June 14, 21, 28, July 12, 19, 26, August 2 2014., 9:00 AM to 12:00 noon

**COST:** IEEE members \$500; Non-IEEE members \$550.

**Contact:** Donald Hsu, [yanyou@hotmail.com](mailto:yanyou@hotmail.com)

#### **REGISTRATION: [Marketing Research](#)**

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, June 14 through August 2, 2014*

*Seven weekly classes (June 14, 21, 28, July 12, 19, 26, August 2 2014)*

*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 [Getting to NJIT](#)

**WHEN:** 7 Saturdays, June 14, 21, 28, July 12, 19, 26, August 2 2014, 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: \_\_\_\_\_

## 2014 IEEE North Jersey Section Volunteer

### *Executive Committee*

**Chair** - Russell Pepe  
rcpepe@ieee.org

**1<sup>st</sup> Vice-Chair** – Adriaan van Wijngaarden  
avw@ieee.org

**2<sup>nd</sup> Vice-Chair** – Ajay Poddar  
akpoddar@synergymwave.com

**Secretary** - Chris Peckham  
cdp@ieee.org

**Treasurer** - Kalyan Mondal  
mondal@fdu.edu

### **Member-at-Large**

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**

**Chair** - Amit Patel  
a.j.patel@ieee.org

#### **Computer Society**

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

#### **Controls Society**

**Chair** - David Haessig  
davidhaessig@ieee.org

#### **Engineering in Medicine and Biology Society**

**Chair** - Raquel Perez-Castillejos  
raquelpc@njit.edu

#### **Industrial Applications Society**

**Chair** - Ken Oexle  
k.oexle@ieee.org

#### **Information Theory Society**

**Chair** – Adriaan van Wijngaarden  
avw@ieee.org

#### **Instrumentation Measurement Society**

**Chair** – Emad Farag  
emad.farag@alcatel-lucent.com

#### **Photonics Society**

**Chair** – Naresh Chand  
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  
zhou@njit.edu

#### **Vehicular Technology Society**

**Chair** - Mani Iyer  
mani.iyer@ieee.org

### *Technical Councils*

#### **Technology Management Council**

**Chair** - Tony Almeida  
almeida@synergymwave.com

### *Affinity Groups*

#### **Consultants Network**

**Chair** - Peter Schutz  
schutz@compuserve.com

#### **Young Professionals**

**Chair** - Sean Kennedy  
sean.kennedy@alcatel-lucent.com

#### **Women in Engineering**

**Chair** - Zhiwei Mao  
zmao@fdu.edu

#### **LIFE Members**

**Chair** - Art Greenberg  
a.h.greenberg@ieee.org

### *Committees*

#### **60th Anniversary Committee**

**Chair** – Har Dayal  
dayalhar@gmail.com

#### **Awards/Recognition**

**Chair** - Ken Oexle  
k.oexle@ieee.org

#### **Audit Committee**

**Chair** - Fred Chichester  
fdchichester@gmail.com

### **Education**

#### **Co-Chairs**

Donald Hsu – yanyou@hotmail.com

Kalyan Mondal – mondal@fdu.edu

Mengchu Zhou – zhou@njit.edu

#### **Employment Network**

**Chair** - Suzanne McIntosh  
skranjacmcintosh@yahoo.com

#### **Government and Industry Relations Committee**

**Chair** – Art Greenberg  
a.h.greenberg@ieee.org

#### **Group coordinator / History**

**Chair** - Howard Leach  
h.leach@ieee.org

#### **Membership Development**

**Chair** - Mani Iyer  
mani.iyer@ieee.org

**Vice-Chair** - Ajay Poddar  
akpoddar@synergymwave.com

#### **MTT/AP Trade Show and Symposium**

**Chair** - Kirit Dixit  
kdixit@ieee.org

**Vice-Chair** – Har Dayal  
dayalhar@gmail.com

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

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

#### **Newsletter**

**Chair** - Anisha Apte  
anisha\_apte@ieee.org

#### **Nominations**

**Chair** – Amit Patel  
a.j.patel@ieee.org

#### **PAGE**

**Chair** - Richard Tax  
rtax@verizon.net

**Co-Chair** – Paul E. Ward  
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#### **Pre-University Activities**

**Chair** – Steve Majkowski  
steve.majkowski@alcatel-lucent.com

**Vice-Chair** – Jesse Colby  
jcc37@njit.edu

#### **Student Activities**

**Chair** -John C Taylor  
john.taylor1204@gmail.com

**Vice-Chair** - Daniel Cerone  
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#### **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