

THE IEEE NORTH JERSEY SECTION NEWSLETTER

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AUGUST 2014

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I was hoping to start an EMC Society last year for the North Jersey Section. We have not been able to get the necessary support to initiate the EMC Society in the North Jersey Section. If you are interested in EMC topics, we would like to have you come onboard to help us start the EMC Society. Contact me if this is something of interest to you.

Our work with the Government is ongoing. I had a chance to meet with some of the staff of US Congressman, Rush Holt, during a recent trip to Washington DC. When I signed on as Chair of the North Jersey Section in 2013, I set the IEEE Government and Industry Liaison work as one of my top priorities. I wanted to make our politicians aware that good technical jobs for Engineers are leaving NJ. Furthermore, I wanted the IEEE North Jersey Section active in bringing these jobs back to NJ. I plan to continue this work, even after my term as North Jersey Section Chair expires later this year. Again, contact me if you would like to support this important effort.

I love hearing from all of our IEEE Members, so keep those calls and e-mails coming. My e-mail is always open.

Sincerely,

Russell C. Pepe

Chair, IEEE North Jersey Section

201-960-6796, rcpepe@ieee.org, atm_pepe@yahoo.com

LinkedIn: www.linkedin.com/pub/russell-c-pepe/0/a85/ba8

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

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

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.

For additional information or to join the LinkedIn group, please email the Employment Network Chair, Suzanne McIntosh (mcintosh@cs.nyu.edu).

A Note from the Chair

Did you miss us? The IEEE North Jersey Section took a break in July, so there was no EXCOM and no Newsletter last month. However, we were all still busy behind the scenes.

The IEEE North Jersey Advanced Communications Technology Symposium is scheduled for Saturday, September 20, 2014, at Stevens Institute of Technology in Hoboken, NJ. This Symposium was started last year, and was such a great success; we decided to make it an annual event. Information about the event will be circulated shortly.

Plans have already started for the upcoming MTT Mini Show on October 2, 2014, at the Hanover Manor in East Hanover, NJ. The Exhibition and Conference is steadily growing every year. We are expecting a spectacular Show this year, especially for our 60th Anniversary.

You probably noticed that we have been advertising various open positions in the EXCOM. I am very pleased to announce that we were contacted by a number of people who have now taken on positions as Chair and Co-Chair for several Societies and Committees. If you would like to be more active in your IEEE North Jersey Section, please feel free to contact me. Our Societies and Committees could always use more support. It is a great way to make friends, network with your colleagues and have some fun.

Engineers in the Classroom

Can you see yourself in a local school, teaching the young ones about how technology influences the world, how electrical engineers in particular have soared our living standards to new heights? Every one of us has a very interesting story to tell, about what we do and how it involves more than just math and science. In fact, engineering is at the core of a teaching paradigm called STEM, a powerful national movement in our schools.

What is STEM?

- Science, the study of the natural world
- Technology, the study of the human designed world; taking what we have and converting it into what we want and need
- Engineering, interdisciplinary, multidimensional, real world problem solving; designing within multiple constraints
- Math, the study of numerical relationships and patterns

What STEM is about

STEM is a standards based, educational paradigm, which integrates the curriculum; both process and content oriented. It exemplifies open-ended problem solving [just like in the workplace]; team-based, combining head and hands learning. It uses the scientific inquiry process [asking questions]; the invention process [creativity]; and the engineering design process [designing with constraints].

STEM's fundamental premise.....the world is interconnected; and solving problems is an inter-disciplinary and multi-dimensional endeavor.....involving active learning, teamwork, collaboration, and student empowerment. It challenges students to become comfortable with open-ended, context based problem-solving.....defining the problem first-then asking high quality questions; so robust and high quality solutions can be evaluated. [The quality of the questions asked, determine the quality of the solution(s)]

Problem-solution is necessarily an iterative process. There is no answer in the back-of-the book, or a discrete solution that is "right". It is about asking questions and exploring the problem; and then designing a solution that answers the questions. [Non-linear, insightful thinking, lateral thinking, and experiential insights can play a powerful role here.]

STEM shines best when students see how math can be used for practical applications; and gain an appreciation of the problem's magnitude and significance. Designing with constraints, often uses a matrix-style of solution identification, assessment and selection. High quality solutions blend together the technical and non-technical concerns in potential solutions.

STEM teachers conduct the classroom in a Socratic style, encouraging students to try new things, document their work, to learn from failure and be ready to try again. Teachers tie the students to the problem, leading them to pursue solutions through their students' own natural exuberance and creativity.

The arts, humanities, and language skills are very important. In its most concentrated state, STEM is a complete integration of the entire academic curricula. Good written and oral communications is an absolute must for STEM students. In the

workplace, great ideas poorly presented will not be implemented.

Picture Yourself in the Classroom

Isn't STEM pretty much what you do on the job every day? I think so. You must see the total problem and its pieces at the same time, what we call project management. There are no pre-conceived answers or problem hints like a carefully defined school problem. You and your project team must ask questions and discern information and then iterate around the problem until you have bound it and identified and evaluated the concerns that influence your solution or design.

Think about the many projects you have worked on over the years. Wouldn't it be valuable if students and teachers could hear about the process(es) you used to arrive at a particular design-more importantly how you and your team were able to incorporate the environmental, sociological, safety and other "soft" aspects of the problem into the design? It would be invaluable for teachers to be able to show their students how engineers do this....for our profession is at the crest of the technological wave that is continuously roiling at the shoreline of progress. We are literally "hanging ten" on this amazing water ride, and we can share that excitement with the next generation of problem solvers and designers.

You can start by offering to visit your children's school or maybe a school near your company or home. A simple letter or email will probably let you get your foot in the door-addressed to a principal or vice principal. I suggest from many years of experience here that you aim for the 5th thru 8th grade level. Just plan on telling them what you do and how you do it. And bring along lots of "props", pieces of technology and products you helped design and engineer. Remember, STEM is all about our world, where head and hands work together. The kids will generate an amazing amount of questions about how you did what you did. The rest is up to you to show them how all the subject matter of school comes together in the real world, the relevance of school to the workplace.

Maybe our North Jersey section should get involved with some schools in our geographical area? Maybe we should invite teachers to special educational events we sponsor? What other ways might we interact with the educational community...for those interactions might result in future IEEE members.

Talk to me fellow members...I am all ears. If you want some advice about working with teachers ask me. I have been doing this for decades, and I still do it today in retirement.

Talk to you again soon.....

Harry T. Roman
Senior Member, IEEE
North Jersey Section

Calendar of Events

- Aug 5, 3:00 PM to 7:00 PM: IEEE IMS, Photonics, MTT/AP – Breaking Barriers in high speed Time & Frequency Domain Measurements** - Frank Selvaggio of Tektronix
Location: China meeting room, Huawei (Futurewei) Technologies R&D Center, 400 Crossing Blvd.2nd Floor, Bridgewater, NJ 08807 [Huawei \(Futurewei\) Technologies R&D Center Bridgewater, NJ](#)
Contact: Naresh Chand, (908) 723 7001, naresh.chand@huawei.com, Emad Farag, enfarag@ieee.org. Ajay Poddar, akpoddar@ieee.org (201-560-3806) Russell Pepe, russell.pepe@atml.com [Read More...](#)
- August 6, 6:00 PM to 8:45 PM: IEEE North Jersey Section EXCOM Meeting – Murray Hill NJ**
Location: Bell Laboratories, Alcatel-Lucent, Main Building, Room Number: 6A-106, 600 Mountain Avenue, Murray Hill, NJ 07974, [Getting to Bell Labs](#)
Contact: Adriaan J. van Wijngaarden, avw@ieee.org (avw@ieee.org), [Read More...](#)
- Aug 13, 6:30 PM to 9:00 PM: IEEE North Jersey Section PACE- Engineers Meet** (On the Second Wednesday of every month)
Location: Clifton Memorial Library, 292 Piaget Ave., Clifton, NJ 07011 [Getting to Clifton Memorial Library](#) (Tel. 973 772-5500)
Contact: Paul Ward, 973 790-1625, peward@ieee.org Richard F. Tax, (201- 664-6954) rtax@verizon.net
- Aug 21st, 10:00 AM to 2:30PM: IEEE Computer Chapter: Pre-College STEM Education for CyberPatriot Coaches and Mentors**
Location: Red Bank Regional High School, 101 Ridge Road, Little Silver, NJ 07739
Contact: Mandy Galante at Mandygal@gmail.com, Howard Leach at h.leach@ieee.org or 973-540-1283, Hanna (Hong) Zhao (zhao@fd.edu)
- Sept 3, 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 (avw@ieee.org), [Read More...](#)
- Sept 17, 6:00 PM to 8:30 PM: IEEE TMC- Techniques of Engineering Management and its application to Sales – Russell Pepe of ATM**
Location: Bell Laboratories, Alcatel-Lucent, Main Building, Room Number: 6A-106, 600 Mountain Avenue, Murray Hill, NJ 07974, [Getting to Bell Labs](#)
Contact: Apratim Rajendra, 2018503457, apratim.rajendra@nomura.com, Vaseem Ahmed, vas201@gmail.com [Read More...](#)
- Sept 18, 2:00 PM to 3:00 PM: IEEE IT/COMSOC/VTS- Secure Broadcasting of a Common Message with Independent Secret Keys – Rafael Schaefer, Post Doc. Fellow of Princeton University**
Location: Bell Laboratories, Alcatel-Lucent, Main Building, Room Number: 6A-106, 600 Mountain Avenue, Murray Hill, NJ 07974, [Getting to Bell Labs](#)
Contact: Adriaan J. van Wijngaarden, avw@ieee.org (avw@ieee.org), [Read More...](#)

IEEE NORTH JERSEY SECTION – Advanced Communications Symposium and Poster Registration

- IEEE North Jersey [Advanced Communications Symposium-Poster Registration](#)** - September 20, 2014., 8:00 AM to 6:00 PM) Babbio Center, Stevens Institute of Technology, 525 River Street, Hoboken, NJ 07030
- IEEE North Jersey [Advanced Communications Symposium](#)** - September 20, 2014, 8:00 AM to 6:00 PM) Babbio Center, Stevens Institute of Technology, 525 River Street, Hoboken, NJ 07030
- IEEE North Jersey Section [AP/MTT - 29th Annual Symposium and Mini-Show](#)** - October 02, 2014, 9:00 AM to 4:30 PM) Hanover Manor, 16 Eagle Rock Ave., East Hanover, NJ 07936. (Ph# 973-992-7425)

- **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

5 August, 2014

IEEE IMS, Photonics, MTT/AP present - Breaking Barriers in high speed Time & Frequency Domain Measurements

Speaker: Frank Selvaggio of Tektronix

Abstract: This is a *two part Seminar*

Part 1: *Serial Data Testing Techniques*, by Frank Selvaggio

Abstract: During this part of the seminar we will review the different categories and types of jitter that can be found in everyday designs. We will dig into the origins and interrelationships of these, how they can be used to diagnosis, characterize and debug system hardware, and explain how these various jitter measurements are applicable to your specific applications. Also, we will discuss common pitfalls when making jitter measurements and how you can avoid them when making your measurements. Lastly, we will show how to use modeling tools to correlate simulations with high-speed physical layer measurements on Serial Bus Standards using cutting-edge oscilloscopes and software tools.

Part 2: Modern tools for Today's Complex RF Applications, by Alan Wolke

Abstract: In this part of the seminar we will delve into how to utilize the latest techniques for tackling the most modern day RF design challenges in signal generation and analysis. Some of the design challenges which will be covered include: frequency agility, frequency hopping, multi-channel, low duty cycle bursty transmissions and complex and wideband modulations. Utilizing today's high speed arbitrary waveform generators can make it easy to create these complex RF scenarios. Analysis of these complex signals requires wide RF capture bandwidth, live RF visibility, flexible triggering, deep memory, and multi-domain time correlated analysis. Tools such as real-time spectrum analyzers and mixed domain oscilloscopes offer these capabilities to give you a complete understanding of the performance of your RF systems.

Biography:

Frank Selvaggio is a Senior Field Applications Engineer at Tektronix Inc. with responsibility for supporting customers in Oscilloscope, Logic analyzer, Signal Source applications. Currently focusing on High Speed data links, Digital analysis (Bus and microprocessor debug & validation), TDNA Link analysis (Impedance, S-Parameters and Eye Simulation) and Optical data links. Specializing in standards compliance testing including DDR, SATA/SAS, USB, HDMI, Ethernet, PCI Express. Along with testing signal integrity methodologies for Jitter, BER, Link Analysis, Power supply and Protocol analysis. Has also specialized in designs for VXI and general GPIB ATE test systems. During the past 25 years at Tektronix Frank has helped 1000's of companies in solving their design problems in a wide variety of applications.

Alan Wolke is a Senior Field Applications Engineer serving customers in the northeastern corner of the U.S., focusing primarily on RF and high speed analog and mixed signal

applications. He earned his BSEE in 1985 from NJIT and spent the majority of his career involved in various analog circuit design, test and application engineering roles before joining Tektronix in 2006. In his spare time, he is an active ham radio enthusiast (W2AEW) and enjoys tinkering in his home lab designing and building circuits, as well as debugging, repairing and restoring electronic equipment. You can check out Alan's entry-level electronics and ham radio videos on his YouTube channel.

Location: China meeting room, Huawei (Futurewei) Technologies R&D Center, 400 Crossing Blvd.2nd Floor, Bridgewater, NJ 08807

Getting to: Huawei (Futurewei) Technologies R&D Center Bridgewater, NJ

Time: 03:00PM to 07:00PM

Contact: Naresh Chand, naresh.chand@huawei.com (908) 723 7001, Emad Farag, enfarag@ieee.org.
Ajay Poddar, akpoddar@ieee.org (201-560-3806)
Russell Pepe, Russell.pepe@atml.com

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

6 August, 2014

IEEE North Jersey Section EXCOM Meeting – Murray Hill, NJ

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

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

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

Everyone is welcome to attend this meeting.

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

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

Location: Bell Laboratories, Alcatel-Lucent, Main Building, Room Number: 6A-106, 600 Mountain Avenue, Murray Hill, NJ 07974, [Getting to Bell Labs](#)

Time: 06:00PM to 08:45PM

Contact: Russell Pepe (rcpepe@ieee.org), and/or Adriaan van Wijngaarden (avw@ieee.org).

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

13 August, 2014

IEEE North Jersey Section PACE – Engineers Meet

Meeting Agenda: Engineers Meet NNJ Section PACE (Professional Activities Committee for Engineers) meets on the Second Wednesday of every month.

Our North Jersey Section Professional Activities Committee (PACE) meets for informal discussions about the Engineering Profession. Join us with your thoughts and concerns and meet other Engineers.

Pizza & Refreshments: will be served during the mid-meeting break.

Location: Clifton Memorial Library, 292 Piaget Ave., Clifton, NJ 07011 [Getting to Clifton Memorial Library](#) (Tel. 973 772-5500)

Time: 6:30 to 9:00 PM, on the Second Wednesday of every month

Contact: Paul Ward, 973 790-1625, peward@ieee.org Richard F. Tax, (201- 664-6954) rtax@verizon.net

21 August, 2014

IEEE Pre-College activities and Computer Society present:

Pre-College STEM Education for CyberPatriot Coaches and Mentors:

The Air Force Association's CyberPatriot high and now middle school Cyber Defense Competition is now registering teams for its seventh competition, see: www.uscyberpatriot.org. While there were about 30 NJ Junior ROTC and other service related teams competing last year, there were only three NJ regular high school or Open Division teams that competed the competition last year. To help increase the number of regular high and now middle school teams register and compete successfully, the most successful NJ CyberPatriot teacher-coach has offered to provide "Hands-on training to coach and/or mentor a CyberPatriot team"

Each team consists of a teacher/coach and two to six students. Click the link to see a recent press release on a survey showing that: [CyberPatriot is attracting students to STEM and Cybersecurity Careers](#)

The Open Division team registration provides access to the software, participant materials, and all travel expenses for teams qualifying for the in-person competitions. The current CP-VII team enrollment deadline is Oct 10th with the first two competition rounds scheduled for Oct 24-26 and Nov 14-16. 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, on March 11-15, 2015. To see the competition timeline, see:

[US CyberPatriot Competition Time-Line](#)

Mandy Galante, Applied Technology Teacher, Red Bank Regional High School, has coached CyberPatriot teams since they were opened to all high school students. Her first CP-III team won the national competition and all of her teams have consistently been the top scoring Open Division teams in NJ. She has offered to give a presentation for teachers on how to coach a CyberPatriot team and get started for this fall. The presentation would include hands-on demonstrations with laptops to simulate what a competition looks like.

For those interested in attending a demonstration on August 21st, at the Red Bank Regional High School, Little Silver, NJ, they can contact Mandy Galante directly at mandygal@gmail.com. The Section's Computer Chapter will co-sponsor this training demonstration. Please register on vTools.

Location: Red Bank Regional High School, 101 Ridge Road, Little Silver, NJ 07739

Time: 10:00 AM to about 2:30 PM

Contact: Mandy Galante at Mandygal@gmail.com or Howard Leach at h.leach@ieee.org or 973-540-1283 or Hanna (Hong) Zhao at zhao@fdu.edu

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

3 Sept, 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), Chris Peckham, and/or Adriaan van Wijngaarden (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), Chris Peckham, and/or Adriaan van Wijngaarden (avw@ieee.org).

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

17 Sept, 2014

IEEE IMS, TMC presents - Techniques of Engineering Management and its application to Sales

Speaker: Russell Pepe of ATM

Abstract: This IEEE TMC Seminar will be held at Bell Laboratories, Alcatel-Lucent, in Murray Hill, NJ, 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 starting at 6 pm.

The seminar starts at 6:30 pm EST. 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.

This talk will cover issues, in the context of Engineering Management, which an Engineer finds useful in order to make a successful career move into Sales. The presentation will focus on Engineering Management techniques, both overt and subtle, that are seen with regard to successful Sales Engineers. The needs to develop a working strategy and a personal style will be covered. Discussions will draw information from Project Management, Human Resource, and Statistics etc, that are considered the back bone of Engineering Management, to discuss the mechanics of success, the measurements of activity, account identification, networking, investigation methods, required tools and resources, pricing issues and dealing with competition. The topics covered by the talk include: Basics, Activity, Strategy, Accounts, Account Identification, Contact, Network, Styles, Coach, Investigate, Resources, Tools, Database, Funnel, Remember You, Price, and Competition.

Biography:

Mr. Russell Pepe is the co-owner and sales engineer with Advanced Technical Marketing (ATM), a Manufacturer's Representative Company covering the northeast. Products include, Test Equipment, Components, Modules, Sub-Systems and Engineering Services, spanning technologies from RF, Microwave, Fiber Optics, EMC and Embedded Systems. Mr. Pepe has over 35 years of engineering experience, with about 20 years in sales. Russell received a BSEE and MSEE from NJIT. He has been a Member of the IEEE for 40 years and currently serves as the 2013-2014 IEEE North Jersey Section Chair.

Location: Bell Laboratories, Alcatel-Lucent, Main Building, Room Number: 6A-106, 600 Mountain Avenue, Murray Hill, NJ 07974, [Getting to Bell Labs](#)

Time: 06:00PM to 08:30PM

Contact: Apratim Rajendra, apratim.rajendra@nomura.com, 2018503457, Vaseem Ahmed, vas201@gmail.com

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

18 Sept, 2014

IEEE IT/COMSOC/VTS presents - Secure Broadcasting of a Common Message with Independent Secret Keys

Speaker: Rafael Schaefer of Princeton University

Abstract: Rafael Schaefer will be giving a presentation on secure broadcasting of a common message with independent secret keys. This presentation will be held at Bell Laboratories, Alcatel-Lucent, in Murray Hill, NJ, in Room 6A-106, which is located near the main entrance behind the Bell Labs Showcase exhibition area. It is not necessary to register as a visitor to access this area.

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.

The problem of secure broadcasting with independent secret keys is studied. The particular scenario is analyzed where a common message has to be broadcasted to two legitimate receivers, while keeping an external eavesdropper ignorant of it. The transmitter shares independent secret keys of arbitrary rates with both legitimate receivers, which can be used in different ways: They can be used as one-time pads to encrypt the common message or they can be used as randomization resources for wiretap coding. Both approaches are discussed in this talk. If both legitimate channels are degraded versions of the eavesdropper channel, it is shown that the one-time pad approach is optimal for several cases yielding corresponding capacity expressions. Reversely, the wiretap coding approach is shown to be optimal if the eavesdropper channel is degraded with respect to both legitimate channels establishing capacity in this case as well.

Biography:

Rafael Schaefer is a Postdoctoral Research Fellow in the Department of Electrical Engineering at Princeton University. Before joining Princeton University, he was a research and teaching assistant at Technische Universität Berlin and Technische Universität München. In 2012, he received the Dr.-Ing. degree in electrical engineering from the Technische Universität München under the supervision of Prof. Holger Boche. In 2013, he received the VDE Johann-Philipp-Reis Prize for my work on physical layer security. He is one of the Exemplary Reviewers 2013 for the IEEE Communication Letters. His research interests are in the area of information theory and communication theory; in particular topics related to physical layer security, cyber-physical systems, and wireless communications.

Location: Bell Laboratories, Alcatel-Lucent, Main Building, Room Number: 6A-106, 600 Mountain Avenue, Murray Hill, NJ 07974, [Getting to Bell Labs](#)

Time: 02:00PM to 03:00PM

Contact: Adriaan J. van Wijngaarden, avw@ieee.org (avw@ieee.org),

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

20 Sept, 2014

**IEEE North Jersey Section and its
Communications, Computer, IT, VTS
Chapters host:**

**2014 IEEE North Jersey Advanced
Communications Symposium**

Overview

The 2014 IEEE North Jersey Advanced Communications Symposium is a full-day symposium on advanced communication systems. The symposium consists of six invited presentations and a parallel poster session. Please check the 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.

Registration Information

The registration fees for this symposium are as follows:

IEEE Member	until Sep. 14, 2014	\$ 25.00
	after Sep. 14, 2014	\$ 35.00
Student Member	until Sep. 14, 2014	\$ 15.00
	after Sep. 15, 2014	\$ 20.00
Graduate Student Member	until Sep. 15, 2014	\$ 15.00
	after Sep. 15, 2014	\$ 20.00
Life Member	until Sep. 15, 2014	\$ 15.00
	after Sep. 15, 2014	\$ 20.00
Non-Member	until Sep. 15, 2014	\$ 40.00
	after Sep. 15, 2014	\$ 50.00
Non-Member (student)	until Sep. 15, 2014	\$ 25.00
	after Sep. 15, 2014	\$ 30.00

Please use the following link to register:

[Updates and Registration: North Jersey Advanced Communications Symposium 2014](#)

For IEEE members, please enter your membership number and select the registration fee for the correct grade (the system makes a distinction between student member and graduate student member, and life member grade). If you have any problems with the registration, please contact Adriaan J. van Wijngaarden (avw@ieee.org).

Non-members are encouraged to become an IEEE member. Half-year dues are in effect:

New members joining between March 1 and August 15 are billed at half off the full-year membership dues, i.e., \$94 for regular members and \$16 for student members. For more information on becoming an IEEE member, please check Join IEEE.

For more detailed information, please check the website

<http://sites.ieee.org/northjersey/events/2014-njacs>

This symposium is being organized by the IEEE North Jersey Section and its Communications, Computer, Information Theory and Vehicular Technology Chapters. The event is co-sponsored by the IEEE New Jersey Coast Communications, Computer, and AP/VT/EMC Chapters as well as the IEEE Princeton/Central Jersey Computer and Consumer Electronics/Communications Chapter.

Location: Babbio Center, Stevens Institute of Technology
525 River Street, Hoboken, NJ 07030

[Getting to Stevens Institute of Technology](#)

Time: 08:00AM to 06:00PM (10.00 hours)

All times are: America/New York

For more information, please contact:

Amit Patel, Symposium Chair, a.j.patel@ieee.org

Mani Iyer, Program Chair, mani.iyer@ieee.org

Adriaan J. van Wijngaarden, Publicity, avw@ieee.org

[Click Here to Register \(admission fee applies\)](#)

Meeting Agenda: The symposium program is as follows:

08:15-09:00	Registration, Meet and Greet, Poster Set-Up
09:00-09:15	Opening Remarks: Amit Patel, Symposium Chair and IEEE Communication Chapter Chair
09:15-10:00	Ultra Low Power, Short Range Wireless Communications: From Using RF Pulses to Ultrasound Clicks Dr. Peter Kinget, Professor, Columbia University
10:00-10:30	Coffee Break
10:30-11:15	Small Cells - Big Impacts: Performance Improvements and Deployment Challenges Dr. Amit Mukhopadhyay, Director, Wireless Network Modeling, Bell Laboratories, Alcatel-Lucent
11:15-12:00	The Exponential Growth of the Internet-of-Things Joe Jesson, Adj. Prof., TCNJ, and CTO, Assurenent
12:00-13:30	Lunch and Poster Presentations
13:30-14:15	Backhauling in TV White Spaces - Dr. Narayan Mandayam, Professor, WINLAB, Rutgers University
14:15-15:00	Role of Software Defined Networking in Mobile Networks Colin Kahn, member, Corporate CTO, Bell Laboratories, Alcatel-Lucent
15:00-15:30	Coffee Break
15:30-16:15	Self-Organizing Networks - Dr. Rudra Kumar Shivalingaiah, Senior Staff Engineer, Qualcomm
16:15-16:30	Poster Awards - Dr. Hong Man, Professor, Stevens Institute of Technology
16:30-16:45	Closing Remarks
16:45-17:15	Networking

20 Sept, 2014

**IEEE North Jersey Section and its
Communications, Computer, IT, VTS
Chapters host: 2014 IEEE North Jersey
Advanced Communications Symposium**

Poster Registration

Overview

The 2014 IEEE North Jersey Advanced Communications Symposium is a full-day symposium on advanced communication systems. The symposium consists of six invited presentations and a parallel poster session.

The IEEE North Jersey Advanced Communications Symposium is a one-day technical symposium covering wireless communication and related topics. The symposium will be held at the Babbio Center, Stevens Institute of Technology, Hoboken, NJ, on Saturday, September 20, 2014. The symposium consists of six invited presentations and a parallel poster session. The posters will be on display all day and a special dedicated exhibition hour is scheduled for the presentation of the posters to all attendees. Poster presenters will have ample opportunities to interact with all attendees.

The organizing committee is currently inviting graduate students and post-doctorals to prepare a poster on their research results in communications and related fields. Master students, PhD candidates, and post docs are encouraged to participate by submitting a title and a short abstract of about 250 words to the poster session coordinator Prof. Hong Man (hong.man@stevens.edu) by Aug. 31, 2014. If the title and abstract are of sufficient quality and in the scope of the symposium, the prospective poster presenter will receive an invitation to present a poster at the symposium. An electronic version of the poster is due on September 14, 2014. The poster presenters should bring a printed version to the symposium. The posters will be further evaluated prior to and during the symposium, based on the research results, the poster, and the presentation of the results.

Poster presentations will be on display all day and special dedicated exhibition times are scheduled for all attendees. Presenters will have opportunities to interact with all attendees. There will be two categories of poster awards: the 2014 IEEE North Jersey Section Wireless Communications Poster Awards and the 2014 IEEE North Jersey Section Data Networking Poster Awards. All submissions will be subject to review by the organizing committee. The first, second, and third place winners will receive prizes of \$200, \$150, and \$100, respectively. All poster presentations will receive participation certificates.

Poster Registration

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).

[Register a Poster Presentation](#)

For more detailed information, please check the website <http://sites.ieee.org/northjersey/events/2014-njacs>

Location: Babbio Center, Stevens Institute of Technology
525 River Street, Hoboken, NJ 07030

[Getting to Stevens Institute of Technology](#)

Time: 08:00AM to 06:00PM (10.00 hours)

All times are: America/New York

For more information, please contact:

Amit Patel, Symposium Chair, a.j.patel@ieee.org

Hong Man, Poster Coordinator, hman@stevens.edu

Adriaan J. van Wijngaarden, Publicity, avw@ieee.org

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

Full Name	Current IEEE Grade
Xiao Wang	Graduate Student Member
Francis Gomes	Member
Dann Aguilar	Student Member
Dmitry Rastopchin	Member
Shruti Routray	Graduate Student Member
Sharon Wallace	Graduate Student Member
Carlos R. Reyes	Member
Christopher J. Toohey	Member
Qingfeng Liu	Graduate Student Member
Samir Abdo	Student Member
Brett S. Cardena	Graduate Student Member
Christopher Sohn	Member
Gregg T. Vesonder	Member
Yi Xu	Graduate Student Member
Krzysztof Jordan	Student Member
Danny Burrows	Student Member
John P. Hilton	Member
Ray Hogan	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, 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](#)

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 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.

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!

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. 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)

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

Contact: Zhiwei Mao (zmao@fdu.edu)

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

Contact: raquelpc@njit.edu

Computer Society Chapter Committee Volunteers –

Contact zhao@fdu.edu

Technical Management Council Committee Volunteers –

Contact: almeida@synergymwave.com

North Jersey Section Awards Committee Volunteers –

Contact k.oexle@ieee.org

Membership Development Committee Volunteers –

Contact miyer108@gmail.com

Additionally, 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 Advanced Communications Symposium

Stevens Institute of Technology, Hoboken, NJ

Saturday, September 20, 2014

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

Mike Newell

Co-Sponsored by

IEEE North Jersey Section

IEEE North Jersey
Communications Society
Chapter

IEEE North Jersey
Computer Society Chapter

IEEE North Jersey/New
York Information Theory
Society Chapter

IEEE North Jersey
Vehicular Technology
Society Chapter

IEEE New Jersey Coast
Communications Society
Chapter

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

IEEE New Jersey Coast
Computer Society Chapter

IEEE Princeton/Central
Jersey Computer,
Communication Society
Chapter

The 2014 IEEE North Jersey Advanced Communications Symposium will be held at the **Babbio Center**, Stevens Institute of Technology, in Hoboken, NJ, on Saturday, September 20, 2014. The symposium consists of six invited presentations and a parallel poster session. The symposium program will cover advanced topics in communications, including small cells, internet-of-things, self-organizing networks and software defined networks. The posters will be presented by graduate students and postdocs. Poster presentations will be on display all day and special dedicated exhibition times are scheduled for all attendees. There will be two categories of poster awards: the 2014 IEEE North Jersey Section Wireless Communications Poster Awards and the 2014 IEEE North Jersey Section Data Networking Poster Awards. There will be plenty of opportunities to interact with presenters and network with peers.

Symposium Program

08:15–09:00 **Registration, Meet and Greet, Poster Set-Up**

09:00–09:15 **Opening Remarks**

Amit Patel, *Symposium Chair and IEEE Communications Society Chapter Chair*

09:15–10:00 **Ultra Low Power, Short Range Wireless Communications: From Using RF Pulses to Ultrasound Clicks**

Dr. Peter Kinget, *Professor, Columbia University*

10:00–10:30 **Coffee Break**

10:30–11:15 **Small Cells – Big Impacts: Performance Improvements and Deployment Challenges**

Dr. Amit Mukhopadhyay, *Director, Wireless Network Modeling, Bell Labs, Alcatel-Lucent*

11:15–12:00 **The Exponential Growth of the Internet-of-Things**

Joe Jesson, *Adjunct Professor, TCNJ, and CTO, Assurenet*

12:00–13:30 **Lunch and Poster Presentations**

13:30–14:15 **Backhauling in TV White Spaces**

Dr. Narayan Mandayam, *Professor, WINLAB, Rutgers University*

14:15–15:00 **Role of Software Defined Networking in Mobile Networks**

Colin Kahn, *member, Corporate CTO, Bell Labs, Alcatel-Lucent*

15:00–15:30 **Coffee Break**

15:30–16:15 **Self-Organizing Networks**

Dr. Rudra Kumar Shivalingaiah, *Senior Staff Engineer, Qualcomm Technologies, Inc.*

16:00–16:30 **Poster Awards**

Dr. Hong Man, *Professor, Stevens Institute of Technology*

16:30–16:45 **Closing Remarks**

16:45–17:15 **Networking**

Registration	before Sep. 14, 2014	after Sep. 14, 2014
IEEE member	\$ 25.00	\$ 35.00
IEEE student member/graduate student member/life member	\$ 15.00	\$ 20.00
Non-member	\$ 40.00	\$ 50.00
Non-member (student/graduate student)	\$ 25.00	\$ 30.00

For more information and registration, please check: <http://sites.ieee.org/northjersey/events/2014-njacs>



CALL FOR POSTERS

IEEE North Jersey Advanced Communications Symposium

Stevens Institute of Technology, Hoboken, NJ • Saturday, September 20, 2014

General Chair

Amit Patel

Program Chair

Mani Iyer

Poster Session Chair

Hong Man

Local Arrangements

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Michael Newell

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[IEEE New Jersey Coast
Communications Society
Chapter](#)

[IEEE New Jersey Coast
AP/VT/EMC Societies Joint
Chapter](#)

[IEEE New Jersey Coast
Computer Society Chapter](#)

[IEEE Princeton/Central
Jersey Computer,
Communication Society
Chapter](#)

The 2nd IEEE North Jersey Advanced Communications Symposium will be held at the Babbio Center, Stevens Institute of Technology, in Hoboken, NJ, on Saturday, September 20, 2014. The symposium is being organized by the IEEE North Jersey Section and its Communications, Computer, Information Theory and Vehicular Technology Chapters. The symposium consists of six invited presentations as well as poster sessions by graduate students and postdocs, covering advanced topics in communications, including small cells, internet-of-things, self-organizing networks and software defined networks. There will be plenty of opportunity to interact with presenters and network with peers at the coffee breaks, during the lunch break and at the closing reception.

The organizing committee is **currently inviting graduate students and postdocs** to prepare a poster presentation on recent research works, and cutting edge developing technologies in communications and related fields. Master students, PhD students and postdocs are all encouraged to participate. The poster session will be particularly helpful for student researchers to have direct interactions with faculty, industry researchers and regional IEEE officers and volunteers. This will serve as an excellent platform and opportunity to network for future collaborative research and career advancement.

Poster presentations will be on display all day and special dedicated exhibition times are scheduled for all attendees. Presenters will have opportunities to interact with all attendees. There will be two categories of poster awards: the **2014 IEEE North Jersey Section Wireless Communications Poster Awards** and the **2014 IEEE North Jersey Section Data Networking Poster Awards**. All submissions will be subject to review by the organizing committee. The first, second, and third place winners will receive prizes of **\$200/\$150/\$100** respectively (one prize per winning poster). All poster presentations will receive participation certificates.

If interested, please submit a title and an extended abstract (up to 250 words) to the poster session coordinator Prof. Hong Man at hong.man@stevens.edu by **August 31, 2014**. If accepted, presenters will be notified one week later. For posters that are selected for presentation at the event, the following guidelines shall be used to prepare the poster. All posters will be mounted using push pins onto presentation boards and posters may be no larger than 32 inches wide and 48 inches long. The electronic version of the selected poster is due on **September 14, 2014**. For any additional questions, please contact Prof. Hong Man.

Registration - Symposium	until Sep. 14, 2014	after Sep. 14, 2014
IEEE member	\$ 25.00	\$ 35.00
IEEE student/graduate student/life member	\$ 15.00	\$ 20.00
Non-member	\$ 40.00	\$ 50.00
Non-member (student/graduate student)	\$ 25.00	\$ 30.00



For more information and registration, please check: <http://sites.ieee.org/northjersey/events/2014-njacs>



THE INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS, INC.

IEEE NORTH JERSEY SECTION

MTT-Society and AP-Society Joint Chapter

PRESENTS

29th ANNUAL SYMPOSIUM AND MINI-SHOW

FOCUS:

**SELECTED TOPICS IN RF AND MICROWAVE TECHNOLOGIES FOR
COMMERCIAL AND MILITARY APPLICATIONS**

DATE: THURSDAY OCTOBER 2, 2014

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

SCHEDULE OF EVENTS

9:00 AM TO 4:30 PM

TECHNICAL SESSIONS

**10 –12 LECTURES FEATURING SPEAKERS FROM LEADING
COMPANIES, WITH EMPHASIS ON MILITARY ELECTRONICS,
WIRELESS TECHNOLOGIES AND MICROWAVE COMMUNICATIONS**

MINI SHOW FEATURING LATEST PRODUCTS

(APPX. 30-40 EXHIBITORS)

(COMPLIMENTARY LUNCH SERVED)

**Details of the schedule and speakers and the topics will be posted on the IEEE North Jersey Section Home page
<http://www.ieee.org/go/njsection> by September 2014.**

For further information contact:

CHAIR-EXHIBITION: KIRIT DIXIT (201-669-7599), kdixit@ieee.org

PUBLICITY: ARTHUR GREENBERG, gardner1@optonline.net

EVENT/ LOCATION CO-ORDINATOR: KEN OEXLE (973-386-1156) k.oexle@verizon.net

CO-CHAIR– TECHNICAL PROGRAMS: HAR DAYAL, dayalhar@gmail.com

CO-CHAIR - TECHNICAL PROGRAM: GEORGE KANNELL, (973-437-9990), gkk@lgsinnovations.com

CHAPTER CHAIR: Dr. AJAY PODDAR, akpoddar@synergymwave.com

CHAPTER VICE-CHAIR: Dr. EDIP NIVER, edip.niver@njit.edu

SECTION CHAIR: RUSSELL PEPE, rpepe@att.net

THERE IS NO CHARGE TO ATTEND THE SYMPOSIUM OR SHOW

2014 IEEE North Jersey Section Volunteer

Executive Committee

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2nd Vice-Chair – Ajay Poddar
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Secretary - Chris Peckham
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Treasurer - Kalyan Mondal
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Junior Past Chair – Naresh Chand
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Antennas and Propagation / Microwave Theory and Techniques Society

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Vice-Chair – Edip Niver
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Circuits and Systems Society / Electron Devices Society

Chair - Durga Misra
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Communications Society

Chair - Amit Patel
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Computer Society

Chair - Hanna (Hong) Zhao
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Chair - David Haessig
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Chair - Raquel Perez-Castillejos
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Industrial Applications Society

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Information Theory Society

Chair – Adriaan van Wijngaarden
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Instrumentation Measurement Society

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Photonics Society

Chair – Naresh Chand
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Power & Energy Society

Chair - Ronald W. Quade
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Signal Processing Society

Chair - Alfredo Tan
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Systems, Man, and Cybernetics Society

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Co-Chair – Mengchu Zhou
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Vehicular Technology Society

Chair - Mani Iyer
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Young Professionals

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Co-Chair - John C Taylor
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Women in Engineering

Chair - Zhiwei Mao
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LIFE Members

Chair - Art Greenberg
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Committees

60th Anniversary Committee

Chair – Har Dayal
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Awards/Recognition

Chair - Ken Oexle
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Audit Committee

Chair - Fred Chichester
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Group coordinator / History

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Membership Development

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Vice-Chair - Ajay Poddar
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MTT/AP Trade Show and Symposium

Chair - Kirit Dixit
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Vice-Chair – Har Dayal
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TPC Co-Chair – George Kennall
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TPC Co-Chair – Ajay Poddar
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Nominations

Chair – Amit Patel
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Chair - Richard Tax
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Co-Chair – Paul E. Ward
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Vice-Chair - Daniel Cerone
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Webmaster

Chair – Adriaan van Wijngaarden
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Industrial Liaison

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Intersection activities

Chair- Amit Patel
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Legal Activities

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