

THE IEEE NORTH JERSEY SECTION NEWSLETTER

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intent is to expand the Symposium for 2014. Mark the first Thursday in October 2014 in your calendar now, and do not miss the 2014 North Jersey Section MTT/AP Symposium. It will be an event to remember.

2013 saw the birth of the First Annual IEEE North Jersey Advanced Communication Symposium. I want to thank Amit Patel, General Chair for the event, and his Co-Chairs and assistants for the exceptional talks, presentations and planning. The attendance surpassed our expectations. We are all looking forward to this yearly event.

Membership Development has been a particular star this year. I commend Mani Iyer on his coordination of Membership and Senior Membership Elevation drives. IF you are eligible for Senior Membership and need assistance, contact me. We can help you with the documentation and references.

Keep an eye out for the multitude of events scheduled for 2014 to celebrate the 60th Anniversary of the North Jersey Section. Every year, in May, we hold the North Jersey Section Awards Banquet, where we celebrate the accomplishments of our IEEE Fellows, Region 1 Award recipients and other Award recipients, residing in the North Jersey Section. We encourage our Membership to join us in 2014 for this significant celebration during our 60th Anniversary. I do want to spotlight Ken Oexle, who has been the Awards Banquet Coordinator for many years. His professionalism and flair for fun have made this a noteworthy event each year. In case you did not know, 2014 is also the 350th Anniversary of the State of New Jersey. We, in the IEEE North Jersey Section, plan to coordinate events with the State during our coincidental Anniversaries.

I do not want to forget about Howard Leach, North Jersey Historian, who has been working hard on the North Jersey Milestones. We are in the process of honoring Bell Labs for their significant contribution. Howard is also working closely with NJIT on the Weston Milestone. These events will be announced as the details unfurl.

Happy Holidays one and all. Enjoy the remainder of 2013 and Happy New Year-2014!!!

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

Sincerely,

Russell C. Pepe

Chair, IEEE North Jersey Section

A Note from the Chair

Well, 2013 is coming to a close. It was an eventful year for the IEEE North Jersey Section and a very interesting year for me personally, during my first term as Chair. Our team can be very proud of all their accomplishments. As the Chair, I want to personally thank all of the North Jersey Section Volunteers for their continued hard work and dedication. Although I will call out certain individuals in my note, I want to let everyone in the team know that their efforts were not overlooked. Believe me; we were only revving our engines in 2013. Wait for 2014, when we actually put our Section into gear. My second term as Chair in 2014 should be even more eventful than 2013.

The Newsletter has grown significantly. We now have a section presenting job opportunities in the region. In addition to our usual listing of technical talks, seminars and events in the Section, we now have featured articles. Our Editor, Anisha Apte and her contributors have done an outstanding job, bringing our North Jersey Section Newsletter to a level of excellence. We still encourage our Membership to contribute to the Newsletter. Please send articles to my attention, as we are always looking for interesting morsels to publish.

The MTT/AP Symposium continues to be an exceptional event. I want to thank Kirit Dixit and his amazing team for an outstanding job. This year, attendance and number of exhibitors broke all records, exceeding former years. Our

Fuel Cell Powered Cars, a Huge Disruptive Force

By Harry T. Roman, Senior Member, IEEE (North Jersey Section)

As a provocateur, I say the real future competitor to the electric utility grid is not solar, wind, or other alternate technology. It is cars...fuel cell powered cars.

In the U.S. there are two centralized energy systems; the electric utility grid, and the natural gas network. Both systems together touch just about every building, so why not combine these energy infrastructures, using fuel cells as the energy transformer.

What if we did develop a reliable fuel cell powered car? You might be able to fuel your car right there in your garage, in a convenient natural gas outlet, stripping off the hydrogen atoms from the methane gas to power the fuel cell. But merely storing hydrogen on-board the car is not central to my provocation. Let's shoot for something even "way more cool".

A fuel cell for a car would be about 45kW in size, much more than your house needs. So I ask a simple question....why can't your car power your house both during normal conditions and when the utility system is unavailable due to widespread storm-induced outages? Most homes have more than one car so we are talking about a lot of potential cleanly generated power put back on the utility lines.

Go one step further. Why not have everyone's cars generate power wherever they are parked? We only drive our cars about 4-6% of the daytime-mostly for commuting. The rest of the time it just sits there. Put it to work and make money for yourself. Here are some possible scenarios.

Scenario #1: Parking lots provide the ability to park your car and hook up a natural gas supply to it and they pay you for the power you generate. The parking lots bulk aggregate the power generated and sell it to nearby office buildings or to power companies.

Scenario #2: Teachers park their cars at the school and power the school from their cars. Workers do the same at their place of employment.

Scenario #3: You park your car in shopping areas and earn "mall dollars" for the energy generated; and can use the mall dollars to buy things at the stores.

Scenario #4: Any leisure time activity at a facility like a sports arena, involves parking your car and earning money-same with Sunday church services, PTA meetings, the movies.....etc.

You see, your car follows you everywhere; and everywhere you go you need energy. Your car is a portable power plant ready to be plugged in and provide you with energy; and enough to sell back to the utility grid. The really nice part of this is that fuel cell powered cars can do it 24/7/365. No vagaries of the wind, no clouds to block sunshine...lots of clean power generated all the time. It is the natural gas network and the electric grid working together. [When was the

last time your natural gas supply was out of service due to the weather?]

A few numbers if you will. Every year, auto manufacturers put lots of combustion engine electrical generation capacity on the road. That car electrical generation capacity is just dirty as hell and not suitable for commercial power generation, but if it was cleanly designed in fuel cell form, that would be something valuable to have.

There are about 220 million vehicles on the road. Say one-fourth of those were fuel cell powered cars each capable of generating 45kW [trucks and buses could generate 75-100 kW].....so 55 million fuel powered cars, generating 45 kW could generate 2,475,000 MW of power. Last year, the entire output of all of America's power plants was just over 1,000,000 MW. Actually only about 10% of all cars equipped with fuel cells would equal the output of all generating stations.

[Wowza! Somebody check the math! Can this be?] Think:

You electric utilities out there...what might this mean for your business?

You natural gas utilities out there...what new business opportunities does this portend for you?

You combine natural gas and electric utilities....is this a "no brainer" for R&D or what?

You car companies out there...what if you sold the cars real cheap and locked up the power generation output options for aggregation and re-sale?

You municipalities with motor pools and fleet vehicles...what does it mean if your vehicles can make money for your city?

Fuel cell powered cars make it possible to instantly decentralize the grid if under attack by Mother Nature or terrorists. For those of you committed to alternate energy sources, you can still have them if you want- in fact, fuel cell powered cars are the ideal back-up for them.

Summer peaking utilities are always fond of talking about how all those little window AC units add up to produce a big peak load. Well, all those cars can add up to produce a big generation potential.

Talk about disruptive technology!

Talk to you again soon.....

- *Harry*

Calendar of Events

- December 4, 5:30 PM to 7:00 PM** - From NJIT IEEE Student Branch Chair to IEEE President-elect: Maximizing Your Excellence throughout Your Career - Prof. Howard Michel of University of Massachusetts Dartmouth, Electrical and Computer Engineering Dept.
Location: NJIT - ECE 202, 161 Warren Street, Newark, NJ 07102 [Getting to NJIT](#)
Contact: Dr.-Ing. Ajay Kumar Poddar, (201)560-3806 (akpoddar@ieee.org) Prof. Edip Niver- (973)596-3542 (edip.niver@njit.edu) Prof. Durgamadhav Misra (dmisra@njit.edu) [Read More...](#)
- December 10, 12:00 PM to 1:00 PM - IEEE Computer Society** - Canonical Correlation Analysis for Knowledge Discovery in Distributed Array Systems - Dr. Hongya Ge, associate professor ECE, NJIT
Location: Muscarelle Center, Room M105, Fairleigh Dickinson University (FDU)-Metropolitan Campus-Teaneck, 1000 River Road, Teaneck, NJ 07666 [Getting to FDU](#)
Contact: Alfredo Tan, tan@fdu.edu; Hong Zhao, zhao@fdu.edu [Read More...](#)
- December 11, 6:30 PM to 8:45 PM: IEEE PACE presents: Party time: Engineers meet- For a holiday special**
Location: Clifton Memorial Library, 292 Piaget Ave., Clifton, NJ 07011(973-772-5500)
[Getting to Clifton Library](#)
Contact: Paul Ward, 973 790-1625. pward1130@aol.com, Richard F. Tax, 201- 664-6954, rtax@aea.org [Read More...](#)
- December 12, 7:00 PM to 9:30 PM** - IEEE CANNJ - Consultants' Annual Planning Workshop
Location: Olive Restaurant, Parsippany Hilton, One Hilton Court, Parsippany, NJ 07054
Contact: Peter Schutz (schutz@compuserve.com) [Read More...](#)
- December 16, 11:30 AM to 12:30PM** - COMSOC - Some Energy-Efficiency Perspectives on Pollution Monitoring Sensor Networks - Swades De, India Institute of Technology, Delhi
Location: NJIT - ECE 202, 161 Warren Street, Newark, NJ 07102 [Getting to NJIT](#)
Contact: Nirwan Ansari (973)596-3670 and Amit Patel (a.j.patel@ieee.org).
 Check <http://web.njit.edu/~ieeenj/comm.html> for latest updates. [Read More...](#)

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!

- 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

December 4, 2013

From NJIT IEEE Student Branch Chair to IEEE President-elect: Maximizing Your Excellence throughout Your Career

Speaker: Prof. Howard Michel of University of Massachusetts Dartmouth, Electrical and Computer Engineering Dept.

Abstract: This talk is focused on undergraduate and graduate students. Dr. Michel is a real example: his journey from NJIT IEEE Student Branch Chair to IEEE President-elect is hilarious and exciting, which led him to achieve the goal and role model of many new graduate students.

Even Isaac Newton knew that his best work was not due solely to his own abilities. Newton's success stemmed from making the most of his talents in science and mathematics and, as he so eloquently put it, "standing on the shoulders of giants." As your career unfolds, being an active participant in IEEE provides you with opportunities to network with fellow 'giants' each and every day, exchanging ideas, critiquing approaches, and enhancing your efforts through those interactions. Today's career requires lifelong learning; IEEE meets those requirements—and exceeds them—by bringing you a wealth of topical conferences on established and emerging technologies and publications that share the latest scholarship on diverse technological pursuits. The benefits IEEE provides throughout your career will impact you in countless different ways, but with one common goal: assisting you in bringing out the best of your best.

Today's career requires continuous learning and improving our knowledge. It goes without saying that IEEE not only meets those requirements but also supports the industrial growth which is necessary for existence of modern society.

Biography: Dr. Howard Michel is IEEE 2014 President-elect. As a volunteer, he has held various IEEE leadership positions starting with student branch chair at NJIT in 1975. Professionally, Dr. Michel retired from the U.S. Air Force in 1994, having been a pilot, satellite launch director, and engineer, including in the People's Republic of China where he served as a senior U.S. Government technical representative enforcing technology-transfer control plans and procedures during two satellite launches. Other achievements include successfully launching seven U.S. satellites by directing launch-base test and integration involving booster, satellite, and telemetry-range hardware; and developing U.S. Department of Defense engineering processes for mission-critical computer systems. Currently Dr. Michel is a consultant for the U.S. DoD and private industry in the area of embedded systems, avionics, instrumentation and systems engineering and is Associate Professor of Electrical and Computer Engineering at UMass-Dartmouth. He has secured research funding from the U.S. National Science Foundation and National Oceanic and Atmospheric Administration. He holds two patents and has published a textbook, 15 refereed journal

papers and 70 conference papers, posters or abstracts. He has graduated 3 PhD and 35 MS students. Dr. Michel has a BS Electrical Engineering from NJIT, a MS Systems Management from University of Southern California, a MS ECE from the University of Massachusetts Amherst, and a PhD from Wright State University.

Email: h.michel@ieee.org

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

Time:

Contact: Dr.-Ing. Ajay Kumar Poddar, (201) 560-3806 (akpoddar@ieee.org)

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

Prof. Durgamadhav Misra (dmisra@njit.edu)

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

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December 10, 2013

IEEE Computer Society presents: Canonical Correlation Analysis for Knowledge Discovery in Distributed Array Systems

Speaker: Dr. Hongya Ge, associate professor in the department of Electrical & Computer Engineering, New Jersey Institute of Technology (NJIT)

Abstract: This talk presents our analysis as well as simulation study on the adaptive beamforming and combining techniques applied to a system consisting of distributed antenna arrays. Our analysis reveals the connection between the natural and the practical schemes for data combination in array processing. The important roles played by the canonical correlations, which may or may not exist among multiple data sets in a distributed antenna system, are studied to justify the use of different combining techniques. Maximization and majorization arguments associated with CCA are exploited in our proposed solutions to adaptive beamforming in discovering coherent components existing in data sets collected by distributed arrays.

Biography: Dr. Hongya Ge is an associate professor in the department of Electrical & Computer Engineering, New Jersey Institute of Technology (NJIT). Her research interests are in the general areas of statistical signal processing and communication theory with applications to parameter estimation and signal detection, rapid synchronization, interference suppression, and fast converging transceivers for multiuser systems; sensor array signal processing, spectral analysis and passive sensing and ranging in underwater acoustics; and radio frequency interference identification and excision in radio astronomy. She has published 100+ papers in IEEE/IEE Journals and Conference Proceedings. She has

served as Vice-Chair and Chair of Communication Society of North Jersey Section of IEEE, Editorial Board Member for EURASIP Journal on Wireless Communications and Networking, IEEE Transactions on Signal Processing, and Technical Committee Member of IEEE Sensor Array and Multichannel (SAM) Signal Processing Committee. Over the years, her research has been sponsored by the NSF, ONR, NAVSEA/NUWC, US Army/CECOM, Texas Instruments, the State of New Jersey and High-Tech Companies in CA and NJ.

Location: Muscarelle Center, Room M105, Fairleigh Dickinson University (FDU)-Metropolitan Campus-Teaneck, 1000 River Road, Teaneck, NJ 07666 [Getting to FDU](#)

Time: 12:00PM to 01:00PM

Contact: Alfredo Tan, tan@fdu.edu; Hong Zhao, zhao@fdu.edu

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

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December 11, 2013

IEEE PACE and GOLD presents: Party

Time: Engineers Meet for a Holiday Special

Agenda: This meeting is about getting all members of the Section and North Jersey professionals together for a light evening of discussion and hospitality. We can entertain all thoughts, both professional and political. Brainstorming for the future is also encouraged. We shall also invite North Jersey Section officers. Section members will have an opportunity to meet them face to face.

Bring your associates, friends and spouses. All are invited.

Welcome: This is an invitation and open meeting. Guests, members and students from other professional societies and engineering disciplines are always welcome.

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

CARE is the Congressional Advocacy Recruitment Effort. **CARE** is a voluntary network of IEEE members who are interested in public policy.

For information go to: www.ieeeusa.org/policy/care/

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

Time: 06:15PM to 08:45PM (No Admission Charge)

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

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

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December 12, 2013

IEEE Consultants' Network of Northern NJ hosts Dinner and Annual Planning Meeting

Abstract: The IEEE Consultants' Network is holding the traditional end-of-year meeting, designed as a planning event for Network members and for consultants who are considering membership in the Network.

The main purpose of the meeting is to discuss ideas and expectations for the various Network functions in the upcoming year and to conduct elections of Network officers. This Working Session is traditionally an open, informal forum to determine whether the IEEE-CNNNJ is providing the service and support that our members need.

This December meeting is open to all. In particular, non-members, who are interested in our activities or who are considering joining the group, are strongly encouraged to participate.

We will review the purpose of our organization and the scope of its activities. The floor will be open to suggestions for improvements, recommendations of Network directions and proposals of new feature topics for the general meetings.

We are inviting all network members, current and prospective, to voice their opinions and, most of all, to volunteer to guide our group as one of the officers of the Executive Committee.

The meeting will commence with a dinner, which is open to all. Please see details of the venue, schedule and dinner cost, below.

ABOUT THE NETWORK

Founded in 1992, the IEEE Consultants Network of Northern NJ encourages and promotes the use of independent technical consultants by business and industry.

CNNNJ INVITES YOU TO JOIN THE NETWORK

The IEEE Consultants' Network of Northern NJ invites all engineers engaged in independent practice to join its ranks. For more details on member benefits and on sign-on requirements, please visit our website at (www.TechnologyOnTap.org)

This December we will meet for dinner, followed by our planning meeting, in the Olive Restaurant at the Parsippany Hilton, located off Route 10 West in Parsippany, NJ. The restaurant is situated on the south side of the main atrium.

Although not required, all attendees are strongly encouraged to participate in the pre-meeting networking dinner, for the opportunity to socialize and acquaint with members of our organization.

At the restaurant we will avail ourselves of standard menu selections – with the participants responsible for their own charges, tax and gratuities.

Since seating is limited, we ask that you contact us as soon as possible to reserve a seat, even if not participating in the dinner.

REGISTRATION and MORE INFORMATION:
www.parsippany.hilton.com

If possible, RSVP for dinner by Wednesday, Thursday, December 5.

Late registrants will be accommodated only if space permits.

MEETING/WORKSHOP PARTICIPATION: Free

Location: Olive Restaurant, Parsippany Hilton, One Hilton Court, Parsippany, New Jersey, United States 07054, (973-267-7373)

Time: 7:00PM – 9:30 PM

ALL ARE WELCOME!

Dinner: 7:00PM – 8:15PM. (at cost)

Contact: Robert Walker (r.d.walker@ieee.org) or (973-728-0344).

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

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December 16, 2013

IEEE COMSOC presents: Some Energy-Efficiency Perspectives on Pollution Monitoring Sensor Networks

Speaker: Swades De, India Institute of Technology, Delhi

Abstract: In this talk some of our recent results and ongoing works on energy efficiency perspectives of pollution monitoring sensor networks will be presented. We will first discuss the energy consumption characteristics of the pollution sensors. We will see that the underlining feature of many current-day pollution sensors is the energy consumption during sensing as well as their sleeping stages, which could be quite higher than the energy required in nodal multi-access communication activities. In view of significant consumption for pollution sensing, we will highlight the relative costs of energy harvesting options at the field nodes, namely “Solar only” versus “RF assisted solar energy harvesting.” To this end, we will argue that, having a mobile node for assisting in field sensor data collection and energy transfer would help – in not only alleviating the funneling problem in data collection but also reducing cost of recharging the field sensors. Some nodal operation level optimizations will be discussed next, followed by the discussion on RF energy harvesting optimizations, namely, multi-hop RF energy transfer and ambient in-network energy transfer. Specifically, we will present some of our experimental studies, where the gains via multi-hop energy transfer are demonstrated. We will also discuss our perceived current-day technology constraints on applying the energy routing concept. Before we conclude, an example case of RF energy harvesting aware sensor network will be outlined on which we have been working.

Biography: Swades De received his PhD in Electrical Eng. from the State Univ. of New York at Buffalo in 2004. He is currently an Associate Professor of Electrical Eng. at IIT Delhi. Prior to this, he was an Assistant Professor of Electrical

and Computer Eng. at New Jersey Institute of Technology (2004-2007). He worked as a post-doctoral researcher at ISTI-CNR, Pisa, Italy (2004), and has nearly 5 years industry experience in India on telecom hardware and software development (1993-1997, 1999). His research interests include performance study, resource efficiency in wireless networks, broadband wireless access, and communication and systems issues in optical networks. Dr. De currently serves as an Associate Editor of IEEE Communications Letters and Springer Photonic Network Communications journal. He is a member of IEEE, IEEE Communications and Computer Societies, and IEICE.

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

Time: 11:30AM to 12:30PM (1.00 hours)

All times are: US/Eastern

Contact: Nirwan Ansari (973)596-3670 and Amit Patel (a.j.patel@ieee.org).

Check: <http://web.njit.edu/~ieeenj/comm.html> for latest updates.

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

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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.

GOLD (Graduates of the Last Decade) Affinity Group Volunteers and Committee members needed

Contact: Sean Kennedy (sean.kennedy@alcatel-lucent.com)

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

Contact: Zhiwei Mao (zmao@fdu.edu)

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

Contact: raquelpc@njit.edu

Computer Society Chapter Committee Volunteers –

Contact zhao@fd.edu

Technical Management Council Committee Volunteers –

Contact: almeida@synergymwave.com

North Jersey Section Awards Committee Volunteers –

Contact k.oexle@ieee.org

Membership Development Committee Volunteers –

Contact miyer108@gmail.com

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

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](#)

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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 where we exchange job leads and discuss emerging technologies. You will also have access to low-cost educational opportunities in a variety of topics areas, e.g. Hadoop, Big Data, Python, Cloud, Analytics, and Java. Educational opportunities are flexible and can be expanded to address additional topics of interest.

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

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Job Posting

Leading Manufacturer's Rep firm in the Electronics Test Instrumentation, Telecom, Fiber Optic, Datacom and Component Industries seeks experienced sales professionals. Ideal candidates will have account knowledge and penetration ability in the Maryland, Virginia and District of Columbia territories for Military, Wireless, Telecom and Datacom markets. Must be a self-starter and demonstrate ability to

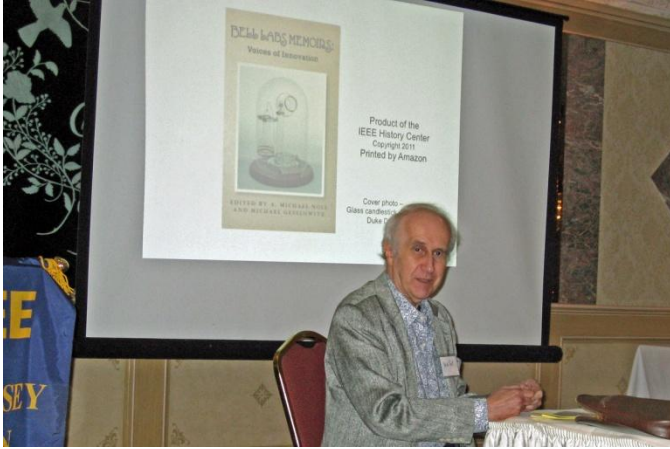
work on his or her own. Engineering degree preferred, minimal travel. Will also consider an train recent graduates. Send resume with salary requirements to email: sales@atml.com or fax: 973-683-1311.

Welcome! New Members of the IEEE North Jersey Section

Full Name	IEEE Current Grade
Ghaith Andrewis	Student Member
Samuel Asakiewicz	Graduate Student Member
Bryan Bonnet	Student Member
Robert Czech	Member
John DeSalvo	Student Member
Boxiang Dong	Graduate Student Member
Rolih Ferdinand	Student Member
Luke Getto	Member
Mario Ibrahim	Member
Xiang Ji	Graduate Student Member
Omar Khalaf	Graduate Student Member
Michael Kurek	Member
Daniel Lesso	Member
Xilong Liu	Graduate Student Member
Xiaoyu Lu	Graduate Student Member
Michelle OHara	Student Member
Okhwan Park	Student Member
Michael Pennock	Member
Aditya Rawal	Student Member
Allen Reed	Student Member
Kelvin Resto	Student Member
Abbu Sandeep	Member
Pranay Sivaraman	Graduate Student Member
Marc Stephanick	Member
Quashon Stokes	Student Member
Michael Stone	Member
Christian Tejada	Student Member
William Woo	Graduate Student Member
Jose Mejia	Graduate Student Member

12th Annual Life Grades Luncheon

The Luncheon, jointly sponsored by the Power Engineering Society Chapter and the Section Life Grade Affinity Group was held on October 31st, at the Hanover Manor, East Hanover, NJ. The speaker was A. Michael Noll, who gave an overview of the book 'Bell Labs Memoirs: Voice of Innovation' which was co-edited by him and Michael N. Geselowitz, Senior Director, IEEE History Center, New Brunswick, NJ.



Dr. A. Michael Noll, is professor emeritus at the Annenberg School for Communication and Journalism, University of Southern California. He was dean of the Annenberg School, 1992-94, spent about 15 years in basic research at Bell Labs, and is one of the earliest pioneers in the use of digital computers in the visual arts and stereoscopic animation.

According to him, the book consists of biographical and autobiographical portraits of 12 people who worked at Bell Telephone Laboratories, Murray Hill, NJ during the 1960s. The people presented include a glass blower, a limousine driver, a patent attorney, research vice president, and scientists. The countries represented range from the United States to England, India, and Germany. Also, according to him, one objective of the book is to tell the story of Bell Telephone Laboratories through the lives of a representative group of people who actually worked there. Another objective of the book is to honor the memory of William O. Baker who headed the research organization at Bell Telephone Laboratories from 1955 to 1973 – a period some consider the “golden years” of Bell Labs.

Michael N. Geselowitz, Ph.D., Senior Director IEEE History Center (Rutgers University), gave an overview of the IEEE History Center's activities. Subsequently, he notified us that our Bell Labs Milestones are now ready for History

Committee approval with their next meeting on March 9th, 2014.

He also encouraged our use of the IEEE History Center facilities for recording our Section's history for our 60th anniversary in 2014. Finally, he pointed out that our 60th anniversary year coincides with the 350th anniversary of the State of New Jersey and that The New Jersey Historical Commission has chosen "Innovation" as one of the three celebratory themes: <http://officialnj350.com/>.



L-R: Art Greenberg, Life Member Chair, Kirit Dixit, Russell Pepe



L-R: Russell Pepe, Chairman, Virginia Sulzberger, IEEE Fellow, Ken Oexle, PES-IAS Chair, Carl Sulzberger, Past IEEE History Committee, and Kirit Dixit, MTT/AP Mini Show Chair, at the PES Life Grade Luncheon, Oct 31st, 2013.

2013 IEEE North Jersey Section Volunteers

Executive Committee

Chair - Russell Pepe
rpepe@ieee.org

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

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

Secretary - Chris Peckham
cdp@ieee.org

Treasurer - Kalyan Mondal
mondal@fdu.edu

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**

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Communications Society

Chair - Amit Patel
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Computer Society

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**Engineering in Medicine and Biology
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Industrial Applications Society

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Photonics Society

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Power & Energy Society

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Signal Processing Society

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Systems, Man, and Cybernetics Society

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Technical Councils

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