



THE IEEE NORTH JERSEY SECTION NEWSLETTER

Vol.59, No. 5 **MAY 2012**

Calendar of Events:

- **May 06, 3:00PM-6:00PM: IEEE North Jersey Section: Excom Meeting and Awards Banquet 2012** [Read More...](#)
Location: Birchwood Manor, Whippany, NJ
Contact: Russell Pepe, (201-960-6796), rcpepe@ieee.org
- **May 09, 6:15PM-9:00PM: IEEE North Jersey Section PACE and American Engineering Association, Inc. presents: Engineers Meet: Subjects Affecting Engineering Jobs** [Read More...](#)
Location: Clifton Memorial Public Library, 292 Piaget Ave. Clifton, NJ 07011
Contact: Paul Ward, (973-790-1625), (PWard1130@aol.com), or Richard F. Tax, (201) 664-6954, rtax@AEA.org
- **May 23, 04:30PM to 06:30PM: Electron Devices Society presents: Terrestrial Radiation Induced Soft Errors in Integrated Circuits - Stewart Rauch of IBM Semiconductor Research and Development Center (NY)** [Read More...](#)
Location: NJIT, ECE 202, 161 Warren Street, Newark, NJ 07102, [Getting to NJIT & Parking Information](#)
Contact: Durga Misra, ECE Dept, NJIT; Phone: (973-596-5739), Edip Niver, (973-596-3542)
- **May 23, 6:30PM-6:00PM IEEE Consultants' Network of Northern New Jersey presents: Growing Your Small Business - Michael Grottola, MGG Consulting of Upper Saddle River, NJ**
Location: Morris County Library, 30 East Hanover Avenue, Whippany, NJ [Getting to Morris County Library:](#)
Contact: Robert Walker, 973-728-0344, Visit our website: www.TechnologyOnTap.org,
- **June 04, 6:30PM-8:30PM IEEE North Jersey AP/MTT Chapter presents: Millimeter Wave Integrated Circuit Techniques and Technology - Dr. Shiban Koul, Professor at the Indian Institute of Technology Delhi and the Chairman of Astra Microwave Products Limited, Hyderabad** [Read More...](#)
Location: NJIT, ECE 202, 161 Warren Street, Newark, NJ 07102, [Getting to NJIT & Parking Information](#)
Contact: Ajay K. Poddar, (akpoddar@synergymwave.com), (cell: 201-560-3806)
- **June 06, 5:30PM-6:30PM IEEE North Jersey Section: Membership Development Event** [Read More...](#)
Location: Bell Laboratories, Alcatel-Lucent Room: 6A-106, 600 Mountain Ave, Murray Hill, NJ 07974
[Getting to Bell Labs](#)
Contact: Mani Iyer (Cell: 908 304 2623); mani.iyer@ieee.org ; Dr. Ajay K. Poddar: (poddar_ajay@yahoo.com)
- **June 06, 6:00PM-8:45PM IEEE North Jersey Section EXCOM meeting** [Read More...](#)
Location: Bell Laboratories, Alcatel-Lucent, Room: 6A-106: 600 Mountain Ave Murray Hill, NJ 07974
[Getting to Bell Laboratories](#)
Contact: Naresh Chand (908 723 7001); (nchand@ieee.org), Adriaan van Wijngaarden (avw@ieee.org)
- **Job Advertisement for IEEE**
- **Welcome New Members!**
- **How to subscribe to this newsletter if you are not a North Jersey IEEE Member?**

Prior registration is encouraged and appreciated.
You don't have to be an IEEE member to attend any event.
For up to date information, visit our website: www.ieee.org/go/njsection



Meeting Announcements:

May 2012

IEEE North Jersey Section EXCOM meeting

We will **not** have our EXCOM meeting on May 2. Our ExCom meeting and award ceremony are combined to be held on May 6.

The only agenda item of the ExCom meeting is our award ceremony. No other business will be conducted.

Please register on vTools to attend.

Location: Birchwood Manor, Whippany, NJ

Time: 3:00 PM – 6:00 PM

Contact: Russell Pepe, (201-960-6796),
rcpepe@ieee.org

43 Rambling Drive, Scotch Plains, NJ 07076

If any additional information is required concerning the reception, contact Russell Pepe.

Reservations are required by April 27, 2012.

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

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May 6, 2012

IEEE North Jersey Section: Excom Meeting and Awards Banquet 2012

A time to relax, unwind and enjoy --

A time to pay tribute to our new Fellows --

A time to honor our Award Winners --

YES it's time for the Annual Section Reception

The Annual Section IEEE Awards Reception will be held at the Birchwood Manor, 111 North Jefferson Road, Whippany, again this year.

The affair is scheduled for Sunday, May 6, 2012 from 3 to 6 PM. Tickets are \$35.00 each. Spouses and guests are welcome. We are limited to 90 attendees, so please make your reservations early.

Reservations are required by April 27, 2012. Complete the reservation form and return it with your payment. If you would like tickets mailed back to you, please enclose a self-addressed stamped envelope. Otherwise, your tickets will be held at the door for you.

Use this form for Reception reservations.
ENCLOSE A SELF-ADDRESSED STAMPED ENVELOPE to receive tickets in advance.

Enclosed is _____ for ____ ticket(s) at \$35.00 each (make check payable to North Jersey Section IEEE) for:

NAME: _____

ADDRESS: _____

Yes, please send me directions to the Birchwood Manor

May 9, 2012

IEEE North Jersey Section PACE and American Engineering Association, Inc. presents: Engineers Meet: Subjects Affecting Engineering Jobs

Agenda: This meeting will be dedicated to the subject of Engineering Jobs in New Jersey, and the North Jersey Section.

This meeting will bring you face to face with the issues that influence the Job Market for our Engineering Section Members. For example:

- *Degree production ,*
- *Real estate,*
- *local state taxes,*
- *Supply-Demand –*
- *Legislation –*
- *Budgets (state & federal).*

The topics may include engineering specialties that are growing, shrinking, or remaining level.

One interesting subject:

http://www.aea.org/documents/research/critique_of_nsb.pdf can be reviewed.

Our goal: ideas shared over our open discussion will help members better understand their employment opportunities. You are encouraged to attend and bring your spouse and associates to this presentation

No Admission Charge.

Location: Clifton Memorial Public Library. 292 Piaget Ave. Clifton, NJ 07011

Time: 06:15PM to 09:00PM

Contact: Paul Ward, (973-790-1625),
(PWard1130@aol.com), or

Richard F. Tax, (201) 664-6954, rtax@AEA.org

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

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May 23, 2012

Electron Devices Society presents: Terrestrial Radiation Induced Soft Errors in Integrated Circuits

Speaker: Stewart Rauch of IBM Semiconductor Research and Development Center (NY)

Abstract: The impact of background radiation on microelectronics is generally unappreciated. Soft errors, or single event upsets, are random, transient, recoverable failures unrelated to any defects or device shifts. There are three main types of radiation that cause soft errors in integrated circuits. The discoveries of these various mechanisms are discussed from a historical perspective, and the current physical understanding of each is presented. Next, methods used to test and model the soft error rate of circuits are explained. Finally, process, technology, and circuit mitigation techniques are covered.

Biography: Dr. Stewart Rauch is a Senior Technical Staff Member at IBM Semiconductor Research and Development Center (NY), specializing in hot carrier, bias temperature instability, and soft error reliability of state of the art CMOS technologies. He is a Senior Member of IEEE, a Member and Distinguished Lecturer of the Electron Devices Society, and frequent reviewer for the IEEE Transactions on Device and Material Reliability (TDMR.)

Email: rauchs@us.ibm.com

Address: Senior Member of Technical Staff, , IBM Semiconductor Research and Development Center (NY), New York, United States

Location: NJIT, ECE 202, 161 Warren Street, Newark, NJ 07102,

[Getting to NJIT & Parking Information](#)

Time: 04:30PM to 06:30PM

Refreshments (Pizza & Soda) will be at 4:45 PM.

Contact: Durga Misra, ECE Dept, NJIT; Phone: (973-596-5739), Edip Niver, (973-596-3542)

No Admission Charge. You do not have to be a member of the IEEE to attend.

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

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May 23, 2012

IEEE Consultants' Network of Northern New Jersey presents: Growing Your Small Business

Speaker: Michael Grottola, MGG Consulting of Upper Saddle River, NJ, is a senior IEEE member

Abstract: Growing Your Small Business

Our talk will guide you through an “end to end” sales process, especially suited to selling professional services. The presentation assumes little or no selling experience. You will learn how to:

- Acquire Leads
- Win Sales
- Close Sales: Win, Lose, Draw

The task harder than any engineering problem is to convince a new prospect to spend that “first dollar”. The presentation will give you keen insight into the strengths and challenges facing technology-savvy professionals and how to overcome them.

Biography: Michael Grottola is a senior IEEE member who has over 30 years of business and technology experience, specializing in consulting, mentoring decision makers and monetizing business ideas. In the latter part of his career, Mike has focused on assisting entrepreneurs with regard to small business startup and growth, by helping them secure capital.

Mike has both domestic and international business experience. With a BSEE from Manhattan College in Riverdale, New York, he worked in defense, commercial and financial industries.

His firm, MGG Consulting of Upper Saddle River, NJ, audits new ideas and growth plans, assesses their viability, and creates business and marketing plans to deliver practical “Go To Market” strategies. Mike can be reached at <http://mgg-consulting.com>.

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.

ALL ARE WELCOME!

No fees or registration required.

Location: Morris County Library, 30 East Hanover Avenue, Whippany, NJ

Getting to Morris County Library:

Time: 6:30 - 8:30 PM. Wednesday, May 23, 2012

Contact: Robert Walker, 973-728-0344,

Visit our website: www.TechnologyOnTap.org.

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June 4, 2012

**IEEE North Jersey AP/MTT Chapter presents:
Millimeter Wave Integrated Circuit Techniques
and Technology**

Speaker: Dr. Shiban Koul, Professor at the Indian Institute of Technology Delhi and the Chairman of Astra Microwave Products Limited, Hyderabad

Abstract: Millimeter Wave Integrated Circuit Techniques and Technology

Millimeter waves offer widespread applications in defense, space and commercial sectors. In this talk, different technologies for building Millimeter Wave Integrated Circuits and Subsystems will be presented. Starting from conventional microstrip technology, other key technologies including suspended stripline, dielectric integrated guide, Finline, LTCC, MEMS and MMIC will be described. Design methodology leading to development of several high performance components/ subsystems at 35 GHz, 60 GHz and 140 GHz along with experimental results will be presented. The talk will conclude by giving a comparison of various technologies.

Biography: Shiban K Koul is a Professor at the Indian Institute of Technology Delhi. He is also the Chairman of Astra Microwave Products Limited, Hyderabad, a major company involved in the Development of RF and Microwave systems in India. His current research interests include: RF MEMS, Device modeling, Microwave and

Millimeter wave IC design and Reconfigurable microwave circuits including antennas.

Dr. Koul has been a member of the IEEE for the past 30 years. He has served as the Chairman of IEEE ED/MTT Chapter, India Council in (1988, 89, 1992, 93, 94, 95). He has also been a member of the executive committee of the IEEE Delhi Section and IEEE ED/MTT Chapter, India Council. He was the past chairman of the Fellow and awards nomination committee of IEEE Delhi Section. Currently, he is the Chairman of Delhi section and also chairman of the Microwave Theory and Techniques Chapter under Delhi section. He is currently a serving ADCOM member and a Member of IEEE MTT society's Technical committees on Microwave and Millimeter Wave Integrated Circuits (MTT-6) and RF MEMs (MTT-21), Member of India Initiative team of IEEE MTT-S, Membership Services Regional Coordinator India, and Vice Chair MGA and MTT-S Speaker bureau lecturer. Dr. Koul is the author/co-author of 199 Research Papers and 7 state-of-the art books and holds 6 patents and 6 copyrights. He is a Fellow of the Institution of Electrical and Electronics Engineers, USA (IEEE), Fellow of the Indian National Academy of Engineering (INAE) and Fellow of the Institution of Electronics and Telecommunication Engineers (IETE).

Email: s.k.koul@ieee.org

Location: NJIT, ECE 202, 161 Warren Street, Newark, NJ 07102,

[Getting to NJIT & Parking Information](#)

Time: 6:30PM – 8:30PM

Contact MTT/AP Chapter Chair: Ajay K. Poddar, (akpoddar@synergymwave.com) , (cell: 201-560-3806)

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

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June 6, 2012

IEEE North Jersey Section: Membership Development Event

IEEE Senior Member Drive- Meeting Agenda:

Get your senior-membership application process, started now and have your references completed by mid-June. Review by the IEEE senior member selection review panel will be conducted at the end of June 2012.

For Senior Member requirements please visit: http://www.ieee.org/membership_services/membership/senior/senior_requirements.html

For application, please visit:

http://www.ieee.org/membership_services/membership/senior/senior_application.html

If you are having trouble finding that last senior member reference, bring printed out hardcopies 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. 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 the address: northjerseymembership@yahoo.com or mani.iyer@ieee.org

The event will be held on Wednesday, June 6, 2012, 5:30-6:30PM, 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 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.

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

Location: Bell Laboratories, Alcatel-Lucent Room: 6A-106, 600 Mountain Ave, Murray Hill, NJ 07974

[Click here for Map](#)

Time: 5:30 PM – 6:30 PM

Contact: Mani Iyer (Cell: 908 304 2623); mani.iyer@ieee.org

Dr. Ajay K. Poddar: (poddar_ajay@yahoo.com)

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

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June 6, 2012

IEEE North Jersey Section EXCOM 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 6pm. 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.

Location: Bell Laboratories, Alcatel-Lucent, Room: 6A-106: 600 Mountain Ave Murray Hill, New Jersey 07974 [Getting to Bell Laboratories](#)

Time: 6:00 PM - 08:45 PM

Contact: Naresh Chand (908 723 7001); (nchand@ieee.org),

Adriaan van Wijngaarden (avw@ieee.org)

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

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Job Advertisement for IEEE

The Information Technology Program in the College of Computing Sciences at the New Jersey Institute of Technology invites applications for the position of University Lecturer. This full-time position requires teaching four undergraduate/graduate courses (per semester) in topics such as:

- System administration
- Database administration
- Web technologies
- Cloud administration

An MS degree in a computing-related field is required. A demonstrated record of successful teaching experience in a college setting is strongly desired. Applications from candidates with prior professional and industrial experience in one or more of these areas are highly encouraged.

To apply, visit <https://njit.jobs/>. (At that page, choose "Search Positions" on the left. Then select "Information Technology – 00650" in the Department field to find the job listing.)

Welcome New Members!

Adegboye	Joshua	Student Member	Dumay	Reginald	Student Member
Afolabi	Temilade	Student Member	Escalante	Jorge	Student Member
Agoro	Bolaji	Student Member	Garay	Fernando	Student Member
Alvarez	Luis	Student Member	Greenspan	Steven	Member
Asante	Bernard	Student Member	Guthrie	Thomas	Graduate Student Member
Augustin	Junior	Student Member	Gutierrez	Eric	Student Member
Bammel	Michael	Associate Member	Hafeez	Muhammad	Student Member
Bejerano	Yigal	Member	Hollowell	Brian	Student Member
Bernard	Azriel	Student Member	Hyde	Michael	Student Member
Boyce	Kyron	Student Member	Irfan	Moneeb	Student Member
Casado	Bradley	Student Member	Jia	Laila	Member
Castillo	Jose	Student Member	Kamarudin	Nazhatul Hafizah	Student Member
Chaudhry	Aziz	Student Member	Kariappa	Darshan	Graduate Student Member
Cobos	Jan	Student Member	Kashnikow	Nick	Student Member
Corson	Robert	Member	Kunjachan	Steven	Member
Dalessandro	Rat	Member	Loza	Ariel	Student Member
			Mazama	Gachekim	Student Member
			Martinez	Edward	Student Member
			Martini	Rainer	Member
			Nieves	Gabriel	Student Member
			Nochenson	Alan	Student Member
			Odai	Edmund	Student Member
			Ortiz	Steven	Student Member
			Poveda-Zambrano	Marco	Student Member
			Patel	Shyam	Student Member
			Patel	Chintan	Student Member
			Paul	Moise	Student Member
			Paulov	Michael	Student Member
			Perez-Polanco	Leo	Student Member
			Quirk	Patrick	Student Member
			Reyes	Mark	Associate Member
			Ross	Matthew	Student Member
			Rossi	Matthew	Student Member
			Waghole	Swapnil	Graduate Student Member
			Walega	Krzysztof	Student Member

Wessel	James	Member
Wilson	La-Vaun	Student Member
Huang	Kai	Graduate Student Member
Sircar	Shiba	Member
Zhenqing	Zheng	Graduate Student Member
Thomas	Terrence	Member
Ugurlu	Haluk	Student Member
Tatoglu	Akin	Graduate Student Member
Tagalog	Brian	Student Member
Teshome	Lyke	Student Member
Srivastava	Abhinav	Member
Steele	Craig	Student Member
Sobon	Krzysztof	Student Member
Serpas	Luis	Student Member
Semanchik	Michael	Student Member

How to subscribe to this newsletter if you are not a North Jersey IEEE Member?

To subscribe, send an email to:

listserv@listserv.ieee.org, with the body containing "subscribe northjerseypublic"

To unsubscribe, send an email to:

listserv@listserv.ieee.org, with the body containing "signoff northjerseypublic"

Additionally, you can join the IEEE North Jersey Section Facebook Fan Page at:

www.facebook.com/pages/IEEE-North-Jersey-Section

Follow us on Twitter at: twitter.com/ieeenorthjersey

Or join the LinkedIn IEEE North Jersey Section Group at:

www.linkedin.com/groupInvitation?groupID=2068051

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2012 IEEE North Jersey Section Volunteers

Executive Committee

Chair - Naresh Chand

chandnaresh@gmail.com

Vice Chairman 1 - Russell Pepe

rcpepe@ieee.org

Vice Chairman 2 - Har Dayal

dayalhar@gmail.com

Secretary - Adriaan van Wijngaarden

avw@ieee.org

Treasurer - Kalyan Mondal

mondal@fdu.edu

Members at Large

1. Chris Peckham

cdp@ieee.org

2. Vacant

3. Goran Djuknic

gd@ieee.org

Junior Past Chair - Amit Patel

a.j.patel@ieee.org

Senior Past Chair - Kirit Dixit

kdixit@ieee.org

Society Chapters

Aerospace Electronic Systems Society

Chair - Chandra Gupta

c.gupta@ieee.org

Co-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 - Nirwan Ansari

nirwan.ansari@njit.edu

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

Instrumentation Measurement Society

Chair - Russel Pepe

rcpepe@ieee.org

Vice-Chair – Peter J. Pupalaikis

peterp@lecroy.com

Photonics Society

Chair – Naresh Chand

chandnaresh@gmail.com

Power & Energy Society

Chair - Ron Quade

rwquade@ieee.org

Signal Processing Society

Chair - Yun Q. Shi

shi@njit.edu

Systems, Man, and Cybernetics Society

Chair - Mike Liechenstein

itsmikesju@aol.com

Vehicular Technology Society

Chair - Yu-Dong Yao

yyao@stevens.edu

Technical Councils

Technology Management Council

Chair - Tony Almeida

almeida@synergymwave.com

Affinity Groups

Consultants Network

Chair - Peter Schuttz

schuttz@compuserve.com

GOLD

Chair - Dandan Wang

wangdan79@hotmail.com

Women in Engineering

Chair - Zhiwei Mao

zmao@fdu.edu

LIFE Members

Chair - Art Greenberg

a.h.greenberg@ieee.org

Committees

Awards/Recognition

Chair - Ken Oexle

k.oexle@ieee.org

Audit Committee

Chair - Fred Chichester

fdchichester@gmail.com

Education

Co-Chair 1 - Donald Hsu

yanyou@hotmail.com

Co-Chair 2- Kalyan Mondal

mondal@fdu.edu

Co-Chair 3 - Mengchu Zhou

zhou@njit.edu

Group coordinator / History

Chair - Howard Leach

h.leach@ieee.org

Membership Development

Chair - Mani Iyer

miyer108@gmail.com

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 - Kirit Dixit

kdixit@ieee.org

PACE

Chair - Richard Tax

rtax@verizon.net

Vice-Chair – Paul E Ward

peward@ieee.org

Pre-College Activities

Chair - Har Dayal

dayalhar@gmail.com

Vice-Chair – Hitaish Sharma

hitaish@gmail.com

Student Activities

Chair - John C Taylor

john.taylor86@live.com

Webmaster

Chair – Suzanne McIntosh

SKranjac@us.ibm.com

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