Vol.59, No. 3  MARCH 2012

THE IEEE NORTH JERSEY SECTION NEWSLETTER

Vol.59, No. 3  MARCH 2012

Calendar of Events:

- **Mar 07, 6:00PM-8:45PM** IEEE North Jersey Section EXCOM meeting
  Location: New Jersey Institute of Technology - ECE 202, 161 Warren Street, Newark, NJ 07102, Getting to NJIT
  Contact: Naresh Chand (Cell: 908 723 7001); (nchand@ieee.org), Adriaan van Wijngaarden (avw@ieee.org). Read More…

- **Mar 07, 10:40AM-12:00PM** IEEE SMC Chapter Seminar: What’s Special about Mobile Recommender Systems?
  Location: New Jersey Institute of Technology - ECE 202, 161 Warren Street, Newark, NJ 07102, Getting to NJIT
  Contact: Mengchu Zhou (zhou@njit.edu). Read More…

- **Mar 07, 11:30PM-1:30PM** IEEE Education Society: Expeditions in Large-Scale Computational Science on Production Distributed Cyber Infrastructure - Dr. Shantanu Jha, Assistant Professor, Rutgers University
  Location: Auditorium M105, Muscarelle Center, FDU, 1000 River Road, Teaneck, NJ 07666, Getting to FDU
  Contact: Hong Zhao (201-692-2350), (zhao@fdu.edu); Howard Leach (h.leach@ieee.org) Read More…

- **Mar 09, 6:00PM-9:00PM**: MTT/AP & AES: Micromachined Microwave and Millimeter Wave Circuit Design – Prof. Shibam Koul, IIT Delhi, India
  Location: New Jersey Institute of Technology - ECE 202, 161 Warren Street, Newark, NJ 07102, Getting to NJIT
  Contact: Dr. Ajay Kumar Poddar (201-560-3806); (akpoddar@synergymwave.com) Dr. Chandra Gupta (973-405-3960) (cgupta@synergymwave.com); Prof. Edip Niver (973-596-3542); (niver@njit.edu) Read More…

- **Mar 12, 11:00AM-12:25PM** IEEE TMC Chapter Seminar: Drum-Buffer-Rope (DBR) Based Scheduling of Reentrant Manufacturing Systems
  Location: New Jersey Institute of Technology - ECE 202, 161 Warren Street, Newark, NJ 07102, Getting to NJIT
  Contact: Mengchu Zhou (zhou@njit.edu) Read More…

- **Mar 21, 6:30PM-9:00PM** (8 Wednesdays - March 21, 28, April 4, 11, 25, May 2, 9, 16, 2012)
  **IEEE North Jersey Section & NJIT: C# .NET Programming 8-Weeks Course – Donald Hsu, Corporate Manager**
  Location: ECE Building ECEC-202, 161 Warren Street, Newark, NJ 07102, Getting to NJIT
  Contact: Donald Hsu: (yanyou@hotmail.com) Read More…

- **Mar 22, 6:00PM-9:00PM** MTT/AP & AES: Filter Design for Modern Communication Systems – Richard Snyder (President - RS Microwave)
  Location: ECE Building ECEC-202, 161 Warren Street, Newark, NJ 07102, Getting to NJIT
  Contact: Dr. Ajay Kumar Poddar (201-560-3806); (akpoddar@synergymwave.com) Dr. Chandra Gupta (973-405-3960) (cgupta@synergymwave.com); Prof. Edip Niver (973-596-3542); (niver@njit.edu) Read More…

- **Mar 24, 9:30AM-12:00PM** (8 Saturdays, March 24, 31, April 14, 21, 28, May 5, 12, 19, 2012)
  **IEEE North Jersey Section: Project Management Saturday Class at FDU – Donald Hsu, Corporate Manager**
  Location: FDU, 1000 River Road, Teaneck, NJ 07666, Getting to FDU
  Contact: Donald Hsu: yanyou@hotmail.com Read More…

- **Mar 28, 6:30PM-9:00PM**: IEEE CNNNJ - The ABC’s of DSPs - Seeing the world through a new filter
  Location: Morris County Library, 30 East Hanover Avenue, Whippany, NJ
  Contact: Peter Schutz, 908-638-3300, or visit www.TechnologyOnTap.org

- **Apr 04, 6:00PM-8:00PM**: IEEE IMS, WIE and IEEE Student Branch at FDU: System Level Design and Verification of Wireless Embedded Systems: Alan Wolke, Applications Engineer, Tektronix
  Location: NJIT, ECE Building ECEC-202, 161 Warren Street, Newark, NJ 07102, Getting to NJIT
  Contact: Russell C. Pepe (201-960-6796), rcppe@ieee.org; IEEE.FDU@gmail.com Read More…

- **Apr 04, 6:00PM-8:45PM** IEEE North Jersey Section EXCOM meeting
  Location: Activity Room of the Clifton Public Library, Allwood Branch, 44 Lyall Road, Clifton, NJ 07012, (973 471 0555), Getting to Clifton Public Library
  Contact: Naresh Chand (Cell: 908 723 7001); (nchand@ieee.org), Adriaan van Wijngaarden (avw@ieee.org). Read More…

- New Continuing Education Course Proposals Requested
- List of new members of IEEE North Jersey Section
- How to subscribe to our newsletter if you are not an IEEE member
- Annual EXCOM 2011 year end dinner meeting photographs

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:

March 07, 2012

IEEE North Jersey Section EXCOM meeting

**Agenda:** This executive committee (EXCOM) meeting of the IEEE North Jersey Section will be held at the New Jersey Institute of Technology (NJIT), in Newark, NJ. The meeting will take place in the ECE Building, Room ECE-202, 161 Warren Street, Newark, NJ.

The meeting agenda typically includes reports from the Secretary and Treasurer, reports from the Chapter and Affinity Group Chairs and Representatives, Committee Chairs, news related to the IEEE and the North Jersey Section, planning and new initiatives.

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.

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

**Time:** 6:00 PM – 8:45 PM

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

Adriaan van Wijngaarden (avw@ieee.org).

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

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March 07, 2012

IEEE SMC Chapter presents:

Seminar on: What’s Special about Mobile Recommender Systems?

**By:** Hui Xiong

**Abstract:** Recommender systems aim to identify content of interest from overloaded information by exploiting the opinions of a community of users. Developing personalized recommender systems in mobile and pervasive environments is more challenging than developing recommender systems from traditional domains due to the complexity of spatial data, the unclear roles of context-aware information, and the increasing availability of environment-sensing capabilities. In this talk, we introduce the unique features that distinguish pervasive personalized recommendation systems from classic recommendation systems. An examination of major research needs in pervasive personalized recommendation research reveals some new opportunities for personalized recommendation in mobile and pervasive applications.

**Biography:** Dr. Hui Xiong is currently an Associate Professor and the Vice Chair of the Management Science and Information Systems Department at Rutgers, the State University of New Jersey, where he received a two-year early promotion/tenure (2009), the Rutgers University Board of Trustees Research Fellowship for Scholarly Excellence (2009), the ICDM-2011 Best Research Paper Award (2011), an IBM ESA Innovation Award (2008), the Junior Faculty Teaching Excellence Award (2007) and the Junior Faculty Research Award (2008) at Rutgers Business School. Dr. Xiong received his Ph.D. in Computer Science from the University of Minnesota (UMN), USA, in 2005, the B.E. degree in Automation from the University of Science and Technology of China (USTC), Hefei, China, and the M.S. degree in Computer Science from the National University of Singapore (NUS), Singapore. His general area of research is data and knowledge engineering, with a focus on developing effective and efficient data analysis
techniques for emerging data intensive applications. He has published prolifically in refereed journals and conference proceedings (3 books, more than 40 journal papers, and over 60 conference papers). He is the co-Editor-in-Chief of Encyclopedia of GIS (Springer, 2007) and an Associate Editor of the Knowledge and Information Systems journal. He has served regularly on the organization and program committees of numerous conferences, including as a Program Co-Chair of the Industrial and Government Track for the 18th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD). He is a senior member of the ACM and the IEEE.

**Location:** New Jersey Institute of Technology, ECE 202, 161 Warren Street, Newark, NJ 07102, Getting to NJIT

**Time:** 10:40AM-12:00PM

**Contact:** Mengchu Zhou (zhou@njit.edu)

For Updates and Registration: Click here

**Back to Calendar of Events:**

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**March 07, 2012**

**IEEE Computer Chapter presents:**

**Expeditions in Large-Scale Computational Science on Production Distributed Cyber Infrastructure**

**By:** Dr. Shantenu Jha, Assistant Professor; Rutgers University

**Abstract:** Dr. Jha will discuss a series of cross-disciplinary research projects he has been involved in over the past several years. The ultimate aim of these projects has been to further an understanding of scientifically important processes. But the aim has not been confined to performing leading domain science; it has also been to develop the algorithms, formalisms and infrastructure to enable such science, at scales and with a sophistication and reduced time-to-solution that would not be possible otherwise. Dr. Jha posits that this requires working at the triple point of Computer Science, Computational Science and Cyber-infrastructure Research. Dr. Jha will present how these three strands come together to enable scientific advances in several grand challenge problems facing the Computational Biology community, for example data-analytics for next-generation gene sequencing, enhanced sampling algorithms at scale, and in-silico personalized and predictive health-care

**Biography:** Dr. Shantenu Jha is an Assistant Professor at Rutgers University, and a member of the Graduate Faculty in the School of Informatics at the University of Edinburgh (UK), as well as a visiting scientist at University College London. Until recently (08/2011) he was the Director, for Cyber-infrastructure Development at the CCT at Louisiana State University (LSU). His research interests lie at the triple point of Computer Science, Cyber-infrastructure Development and Computational Science. Prof. Jha leads the SAGA project (http://www.saga-project.org), which is an OGF standard and is part of the official middleware/software stack of most major Production Distributed Cyber-infrastructure -- such as US NSF's XSEDE and the EGI. Jha currently is the lead author of a book on "Abstractions for Distributed Applications and Systems: A Computational Science Perspective" to be published by Wiley in early 2012. He is the author of more than 60 publications. Jha is a co-PI for $2.6M NSF award that enables LSU/LONI participation as a TeraGrid Resource Provider. He is also the co-PI of a prestigious NSF award, “Large-Scale Replica-Exchange Studies Using Production Cyber-Infrastructure”; his work has been funded by US National Institute for Health (NIH) as well as the UK EPSRC (OMII-UK project and Research theme via e-Science Institute).

**Location:** Auditorium M105, Muscarelle Center, FDU, 1000 River Road, Teaneck, NJ 07666, Getting to FDU

**Time:** 11:30PM-1:30PM

**Contact:** Hong Zhao (201-692-2350), (zhao@fdu.edu); Howard Leach (h.leach@ieee.org)

For Updates and Registration: Click here

**Back to Calendar of Events:**
March 09, 2012

MTT/AP & AES Chapters present:
Micromachined Microwave and Millimeter Wave Circuit Design

By: Prof. Shiban Koul of Centre for Applied Research in Electronics, Indian Institute of Technology Delhi, Hauz Khas, New Delhi-110016, India

Abstract: This talk presents methodology for the design, development and fabrication of RF MEMS microwave components for RF & Microwave communication systems. Micromachining has been applied to microwave and millimeter wave field to create low loss and high performance passive/active components and antennas. In this talk, starting from modeling of transmission lines and discontinuities, design procedure to realize passive components in micro-machined media will be presented. Next, design, modeling and fabrication of different types of micro-machined antennas will be described. Methodology for the design, development and fabrication of RF MEMS switches on GaAs, quartz and silicon substrates will then be presented. The schemes for developing reconfigurable RF MEMS circuits using either variable capacitors or RF MEMS switches will be discussed. The reconfigurable circuits include: a band pass filter, band stop filter, high isolation switch and a patch antenna.

6:00PM: Networking
6:30PM: Free Buffet Dinner
7:00PM: Talk.

All are welcome. You don't have to be IEEE member to attend the talk.

Biography: Dr. Shiban K. Koul is a Professor at the Centre for Applied Research in Electronics, Indian Institute of Technology Delhi. His current research interests include: RF MEMS, Device modeling, Millimeter wave IC design and Reconfigurable microwave circuits including antennas. He is the Chairman of M/S Astra Microwave Pvt. Ltd, a major private company involved in the Development of RF and Microwave systems in India.

Dr. Koul has been a member of the IEEE for the past 32 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 Co-coordinator India, Vice Chair MGA and MTT-S Speaker bureau and Distinguished Microwave 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). He has received several awards: Gold Medal by the Institution of Electrical and Electronics Engineers Calcutta (1977); S.K.Mitra Research Award (1986) from the IETE for the best research paper; Indian National Science Academy (INSA) Young Scientist Award (1986); International Union of Radio Science (URSI) Young Scientist Award (1987); the top Invention Award (1991) of the National Research Development Council for his contributions to the indigenous development of ferrite phase shifter technology; VASVIK Award (1994) for the development of Ka- band components and phase shifters; Ram Lal Wadhwa Gold Medal (1995) from the Institution of Electronics and Communication Engineers (IETE); Academic Excellence award (1998) from Indian Government for his pioneering contributions to phase control modules for Rajendra Radar; and Shri Om Prakash Bhasin Award (2009) in the field of Electronics and Information Technology.
IEEE TMC Chapter presents:

Drum-Buffer-Rope (DBR) Based Scheduling of Reentrant Manufacturing Systems

By: Fei Qiao

Abstract: Manufacturing systems with reentrant flow, which means that product items revisit several machines for multiple times during their production routes, are considered as highly complex systems. Its reentrance feature challenges the scheduling problem of such systems. A kind of drum-buffer-rope (DBR) technique proves to be a viable, robust method for complex manufacturing scheduling. A new kind of DBR based scheduling for reentrant manufacturing with a novel strategy is investigated. First, the multiple reentrant production flow is transferred into non-reentrant layered production lines. Then, the DBR scheduling algorithm is studied, and a layered scheduling algorithm (LSA) are proposed. The proposed DBR based scheduling strategy as well as the algorithms are demonstrated via a numerical simulation case study.

Biography: Dr. Fei Qiao is presently a Professor of the School of Electronics & Information Engineering, Tongji University, Shanghai, China. Since last November she is doing visit research in the Department of Electrical Engineering of New Jersey Institute of Technology. She received her Ph. D. degree from the School of Economics & Management, Tongji University in 1997. She received her M.S. and B.S. degrees from the Department of Electrical Engineering, Tongji University in 1993 and in 1990 respectively. She joined Tongji University since 1993 as a faculty member. From 2001 to 2002, she was a Humboldt scholar at the Institute of Production Systems, Ruhr University-Bochum, Germany. Her current research interests include planning and scheduling of complex manufacturing systems, intelligent algorithms, modeling and optimization, and system integration.

Location: New Jersey Institute of Technology - ECE 202, 161 Warren Street, Newark, NJ 07102, Getting to NJIT

Time: 11:00AM to 12:25PM

Contact: Prof. Mengchu Zhou (973 596 6282)

No Admission Charge.

For Registration and Updates: Click here

Back to Calendar of Events:
2. Define Visual Studio .NET Version 2008 to 2010
3. Identify C# syntax, data type, control structures and common language runtime
4. Distinguish methods, arrays, object-oriented programming
5. Build graphical user interface, multithreading, files and streams
6. Explain the benefit of using extensible markup language (XML)
7. Select database, SQL server, and ADO .NET
8. Choose ASP .NET, web forms, web services, advanced topics
9. Present student Projects

**Biography:** Donald Hsu, PhD, has been a corporate manager for 11 years and is an experienced trainer. Since 2006, he has trained 700+ people in Java, Oracle, WebLogic, and XML, C++, and C #.NET in 8 different organizations.

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

**Time:** 06:30PM to 09:00PM - Eight weekly classes (March 21, 28, April 4, 11, 25, May 2, 9, 16, 2012)

**Contact:** Donald Hsu, yanyou@hotmail.com

**Admission Fee applies:** COST: IEEE (& affiliate) members $500; Non-IEEE members $550

**REGISTRATION:** C# .NET Programming

Please mail the completed registration with a check (payable to “North Jersey Section IEEE”) to: Donald Hsu, PhD, Chair Education Committee, IEEE North Jersey Section, P.O. Box 2093, Fort Lee, New Jersey 07024.

For Updates and Registration: Please Click [Back to Calendar of Events](#)

**March 22, 2012**

**MTT/AP & AES Chapters present:**

**Filter Design for Modern Communication Systems**

**By:** Dr. Richard V. Snyder is President of RS Microwave (Butler, NJ, USA)

**Abstract:** What’s rare, critically important, and very expensive? No, it’s not gold, platinum nor diamonds…it is SPECTRUM! No matter how you code, point, amplify or share it, transmission of information still must utilize some spectrum, and there is only so much to go around. Every Hz is precious, so the political and economic wars between parties competing for the right to put their bits of data into tiny bits of spectrum are fierce indeed. Communication between people will always be important, but communication between computers and systems are critical to maintaining our modern life. It is necessary to construct boundaries of some sort between these vast and competing flows of data, and it is safe to say that without modern filter technology providing these barriers, our society could easily drown in these tsunami waves of critical information.

“FCC scrambles to cope with data avalanche”. The delimiters of modern filter technology are performance, reliability, size and cost. Keeping in mind that spectrum is more expensive than the systems themselves, performance becomes of critical importance at the system level, with size also significant because many systems are densely packed. At the component, or “board” level, cost becomes more significant because many filters are used and thus overall cost depends on the economics of filter production. Reliability (i.e. MTBF) is a major contributor to the “cost”, because post-deployment repair of systems and internal board-level components is labor-intensive and thus a long-term (unintended) and thus potentially expensive, part of the budget. With performance and size typically a coupled pair of operators, modern filter design works towards putting more performance into the same size, or equivalent performance into a smaller size. Over the last three decades, technological and topological improvements have made possible both results. With the development of simulation tools enabling prediction of interactions not only between isolated circuit elements, but between physical structures, it has been found possible to use the interactions to provide selectivity improvements. This can reduce the number of physical resonating elements required to produce a proscribed ratio of stopband to passband, and thus reduce the physical size for a
given performance level. Alternatively, more coupled resonances can be packaged into a given volume than if the interactions must be prevented (rather than utilized), and so more performance is possible in a given package due to the use of modern simulation combined with modern, high-precision manufacturing techniques. Contributing to the technological improvements are new materials, used in composite assemblies, to reduce the sensitivity of filters to temperature and humidity, thus reducing what is known as “guardband”, the necessary overdesign to allow for drift while maintaining passband and stopband characteristics, and enhancing RF power handling capability. The new composites also avoid the use of temperature stable steel alloys, and thus reduce weight and cost.

When considering topological improvements, one finds that the concept of feed forward (when applied to filters, called “cross-coupling”) allows a reduction in the internal component count and thus in size, for a given performance. As might be expected, the alternate, i.e. more performance in the same size, is also possible. The phrases “non-resonating nodes” and “non-resonating modes” are relatively recent, but both have added to the arsenal of topologies and design strategies available to today’s filter designers. In this talk, we will cover both technology and topology. In the technological area, we will discuss materials, environmental compensation, manufacturing, reliability and design simulation methods, while in the area of network topology, the talk will include discussion of nodes, modes, frequency dependent coupling elements, non-commensurate coupled sections, multiplexers, active elements, switched combinations and tunable structures, with graphic examples of filters and performance.

Biography: Dr. Richard V. Snyder is President of RS Microwave (Butler, NJ, USA), author of 79 papers, three book chapters and holds 19 patents. His interests include E-M simulation, network synthesis, dielectric and suspended resonators, high power notch and bandpass filters and active filters. He received his BS, MS and Ph.D degrees from Loyola-Marymount, USC and PINY. Dr. Snyder served the IEEE North Jersey Section as Chairman and 14 year Chair of the MTT-AP chapter. He chaired the IEEE North Jersey EDS and CAS chapters for 10 years. He twice received the Region 1 award. In January 1997 he was named a Fellow of the IEEE and is now a Life Fellow. In January 2000, he received the IEEE Millennium Medal.

Dr. Snyder served as General Chairman for IMS2003, in Philadelphia. He was elected to ADCOM in 2004, and was the 2010 President-Elect for the MTT-S. Within the ADCOM, he served as Chair of the Standards committee, Chair of the TCC and Liaison to the EuMA. He served as an MTT-S Distinguished Lecturer, from 2007-2010, as well as a member of the Speakers Bureau. He was an Associate Editor for the IEEE Transactions on Microwave Theory and Techniques, responsible for most of the filter papers submitted during the period 2007-2010. He is a member of the American Physical Society, the AAAS and the New York Academy of Science. He was the MTT-S President for 2011. Also a reviewer for IEEE-MTT publications and the MWJ, Dr. Snyder teaches and advises at the New Jersey Institute of Technology. He is a Visiting Professor at the University of Leeds, in the U.K. He served 7 years as Chair of MTT-8 and continues in MTT-8/TPC work. He previously was Chief Engineer for Premier Microwave.

Location: NJIT, ECE Building ECEC-202, 161 Warren Street, Newark, NJ 07102, Getting to NJIT
Time: 6:00PM - 9:00PM
Contact: Dr. Ajay Poddar (201-560-3806); (akpoddar@synergywave.com)
Dr. Chandra Gupta (973-405-3960) (cgupta@synergywave.com);
Prof. Edip Niver (973-596-3542); (niver@njit.edu)
For Updates and Registration: Click here
Back to Calendar of Events:

March 24, 2012
IEEE North Jersey Section presents:
Project Management Saturday Class at FDU
By: Donald Hsu, PhD, Corporate manager
Abstract: The North Jersey Section IEEE is offering a course entitled "Project Management".
Dice.com lists 5000+ Project related jobs in the New York area daily! This course will help you to break down a master project into manageable tasks, pinpoint possible solutions, and provide information to keep the project under control. Using Microsoft Project 2010 software, you will learn to accomplish various project plans. In addition, it will greatly enhance your business, communications and interpersonal skills.

You will receive the IEEE Certificate of Completion when you finish the course. You may wish to take two Certification exams, one in Project Management administered by Project Management Institute from the knowledge that you learned in this course. This is not an exclusive PMP-PMI examination prep course. No PDUs are issued for PMP eligibility. CEU credits would be given by IEEE. However, several attendees did pass the exam and became PMP Certified.

TOPICS
1. Explain the need for a project manager
2. Define SOW, PERT, GANTT, CPM, and Scope of the project
3. Identify the team members, resources and plan for the strategy
4. Calculate schedule, budget variances, and monitor project progress
5. Manage changes, estimates, and communications
6. Set a baseline, import tasks from MS Excel, export MS Project files to MS Word
7. Create and modify custom reports, templates and combination views
8. Share resources and create a master plan loaded to Project Server
9. Approve updates and conclude a project plan
10. Analyze global E-Commerce projects
11. Present student Projects

Admission Fee applies: COST: IEEE (& affiliate) members $500; Non-IEEE members $550.

Biography: Instructor: Donald Hsu, PhD., has been a corporate manager for 11 years and an experienced trainer. Since 2004, he has trained 1100+ in IT Project+, MS Project, Project Management, Contract Procurement Management, and International Management. Please email Donald Hsu, yanyou@hotmail.com, if you have any question.

Location: FDU, 1000 River Road, Teaneck, NJ 07666, Getting to FDU
Time: 9:30 am - 12:00 noon (8 Saturdays, March 24, 31, April 14, 21, 28, May 5, 12, 19, 2012);
Contact: Donald Hsu: yanyou@hotmail.com
For Updates and Registration: Click Here
Back to Calendar of Events:

March 28, 2012
IEEE Consultants' Network of Northern New Jersey presents:
The ABCs of DSPs – Seeing the world through a new filter -
By: Sean Gallagher from Bottom Line Technologies.

Abstract: Most techies relate DSP to "Digital Signal Processing" but what does that really mean? From applications through algorithms come spend an evening learning just how pervasive DSP is in the world around us. Join Sean Gallagher from Bottom Line Technologies to see how DSP is empowering so many of the little black boxes in our lives. From basic DSP concepts through in-depth algorithms, get a glimpse of the secret workings of cell phones, radar and more.

Biography: Sean Gallagher serves as Hardware DSP Program Manager and DSP Specialist at Bottom Line Technologies. In addition to his engineering role, he hosts a variety of DSP and FPGA design courses. Sean has extensive knowledge of Radar and RF beam forming. Sean is also a professor at Villanova University where he teaches Hardware DSP. Prior to coming to Bottom Line, Sean was a Senior Staff DSP Specialist for Xilinx for 10 years. Sean holds an MSCE from Villanova University where he focused on Systolic Array Processing in FPGAs.

Sean may be reached via: Sean.Gallagher@bltinc.com

Location: Morris County Library, 30 East Hanover Avenue, Whippany, NJ
Directions to Morris County Library:
**Time:** 6:30PM - 9:00PM
**Contact:** Peter Schutz, 908-638-3300, or visit our website, [www.TechnologyOnTap.org](http://www.TechnologyOnTap.org)

Please note the date; it is not our customary last Thursday of the month.

**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.

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April 04, 2012

IEEE Instrument and Measurement Society, IEEE Women in Engineering Society, and IEEE Student Branch at Fairleigh Dickinson University present:

**System Level Design and Verification of Wireless Embedded Systems**

**By:** Mr. Alan Wolke, Applications Engineer, Tektronix

**Abstract:** This talk will have demonstrations and hands on examples of capturing & seeing (and hearing, in some cases) wireless signals using RF (radio frequency) test equipment.

**Biography:** Mr. Wolke is an Applications Engineer for Tektronix, providing engineering support and technical training for advanced electronic test equipment used by engineers around the world. Alan’s interest in electronics began while he was in high school, where he worked part time in a television repair shop and also earned his first ham-radio license. He earned a BSEE degree from New Jersey Institute of Technology in 1985, and began working as a design engineer developing circuits used in fiber optic networks. He was awarded a US Patent which led to a new position designing circuits for very high speed telecommunications circuits. As a Technical Manager he was responsible for testing integrated circuits that are used inside computer hard disk drives.

**Location:** Fairleigh Dickinson University, Muscarelle Building Room 205

**Time:** 1:00PM - 2:00PM

There is a pizza lunch provided.

**Contact:** Russell C. Pepe (201-960-6796), (rcpepe@ieee.org), IEEE.FDU@gmail.com

For Updates and Registration: Please Click

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April 04, 2012

IEEE North Jersey Section EXCOM meeting

**Agenda:** This executive committee (EXCOM) meeting of the IEEE North Jersey Section will be held at Activity Room of the Clifton Public Library (Allwood Branch, 44 Lyall Road, Clifton, NJ 07012),

The meeting agenda typically includes reports from the Secretary and Treasurer, reports from the Chapter and Affinity Group Chairs and Representatives, Committee Chairs, news related to the IEEE and the North Jersey Section, planning and new initiatives.

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.

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

Time: 6:00 PM – 8:45 PM

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

Library: (973) 471 0555),

For Updates and Registration: Click here

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New Continuing Education Course Proposals Requested

IEEE North NJ Section Education Committee solicits new continuing education course proposals from prospective instructors to help our fellow engineers in this region. By means of such courses, the students learn some specific topics that help them enhance their skills leading to professional growth. They earn CEU credits recognized by industries. IEEE continuing education courses are delivered by professionals and educators in their areas of expertise. The instructor’s time and efforts get compensated through a portion of student tuition fees. The courses can be of durations of 8 to 20 hours. Our section courses are currently being held at NJIT and FDU Metropolitan campuses. New courses can be held at these or other convenient locations proposed by the instructors.

New course proposals should include the following information:

- Title of the Course,
- Name and Affiliation of the Instructor
- Link to the instructor’s LinkedIn profile
- Course Description
- Course Pre-requisites
- Course Learning Outcomes
- Outcomes Assessment methods
- Course Materials (text, handouts, software etc.)
- Duration of the Course
- Tentative Course Dates, Times, Venue, and
- Tuition to be charged

The Education committee will review the proposals and will contact instructors for finalizing the details.

Prospective instructors should send their proposals via e-mail to the Education Committee Chairs:

Don Hsu (yanyou@hotmail.com),
Kalyan Mondal (mondal@fdu.edu)
Mengchu Zhou (zhou@njit.edu)

Welcome IEEE North Jersey Section New Members

Nathan Mazurek - Associate Member
Jorge Luis Mora - Graduate Student Member
Mehul Patel - Student Member
Rachael V Renna - Student Member
Santanu Roy - Member
Jonathan E Salib - Student Member
Cody Schafer - Student Member
Mohamed A Shaaban - Student Member
Yang Song - Graduate Student Member
Mark Troller - Member
Frank Tutelo - Member
Ronald David Vanderbeck - Student Member
Daniel Vargas - Student Member
Jay Vargas - Student Member
Yan Wang - Graduate Student Member
Ryan A Wilson - Member
Qun Xu Associate - Member
Hao Zhai - Graduate Student Member

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Annual EXCOM Year End Dinner Meeting - 2011

The North Jersey Section Executive Committee held their annual year end meeting at the Chand Palace, Parsippany, NJ, on December 6, 2011. Peter Eckstein, Region 1 Director and Robert Pellegrino, Southern area Chair were guest attendees.

Kirit Dixit and Har Dayal receiving award from Peter Eckstein, Region 1 Director and Robert Pellegrino, Southern area Chair, respectively for their long services to IEEE AP/MTT Chapter.

L-Front: Anisha Apte, Prof Durga Misra, Dave Perry, Peter Eckstein, Mani Iyer, and Amit Patel
L-R standing: Dave Haessig, Har Dayal, Kalyan Mondal, Prof Yun Q. Shi, Dr.Chandra Gupta, Dr.Ajay Poddar, Dr Naresh Chand, Section Chair, Ken Oexle, Goran Djuknic, Chris Peckham, Prof Hanna (Hong) Zhao, Adriaan Van Wijngaarden, Suzanne McIntosh, Kirit Dixit, Paul Ward, Robert Pelligrino, Howard Leach, and Richard Tax.
2012 IEEE North Jersey Section Volunteers

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Vice Chairman 2 - Har Dayal
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Treasurer - Paul E Ward
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Senior Past Chair - Kirit Dixit
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Antennas and Propagation Society/Microwave Theory and Techniques Society
Chair - Ajay Poddar
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Circuits and Systems Society/Electron Devices Society
Chair - Durga Misra
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Chair - Nirwan Ansari
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Chair - Hanna (Hong) Zhao
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