



THE IEEE NORTH JERSEY SECTION NEWSLETTER

Vol. 63, No. 8

OCTOBER 2017

Calendar of Events

Sept 14	6:30 PM to 8:30 PM	IEEE C>NNNJ	Networking and Planning Meeting	Group Discussion
Location:	Morris County Library, 30, East Hanover Avenue, Whippany, NJ 07981			Getting to Morris County Library
Contact:	Robert Walker		973-728-0344	
Sept 18	5:00 PM to 6:30 PM	IEEE MTT/AP	Antimatter and Repulsive Gravity	Ajay Poddar
Location:	Synergy Microwave Corp. 201, McLean Blvd. Paterson, NJ 07504			Getting to Synergy Microwave Corporation
Contact:	Ajay Poddar		akpoddar@ieee.org	
Sept 18	2:00 PM to 3:00 PM	IEEE IT, COMSOC, VTS	Low-Density Code-Domain Nonorthogonal Multiple Access: Regular is	Dr. Ori Shental
Location:	Nokia-Bell Labs, 600, Mountain Ave. Murray Hill, NJ 07974			Getting to Nokia-Bell Labs
Contact:	Adriaan J. van Wijngaarden		avw@ieee.org	
Sept 22	11:00 AM to 11:30 AM	IEEE MTT/AP	Global Markets, Global Technology, Global Students, and New Job Opportunity	Prof. Dr.-Ing. habil. Dr. h.c. mult. Ulrich L. Rohde
Location:	FDU - Metropolitan Campus, Muscarelle Room 105, 1000 River Road, Teaneck, NJ 07666,			Getting to FDU T:(201) 692 2000)
Contact:	Dr. Ing. Habil. Ajay Kumar Poddar Prof. Hong Zhao		akpoddar@ieee.org	
Sept 22	11:30 AM to 12:30 PM	IEEE MTT/AP	Next Generation Radio Networks: Software Defined Radios, Emerging Trends	Prof. Dr.-Ing. habil. Dr. h.c. mult. Ulrich L. Rohde
Location:	FDU - Metropolitan Campus, Muscarelle Room 105, 1000 River Road, Teaneck, NJ 07666,			Getting to FDU T: (201) 692 2000)
Contact:	Dr. Ing. Habil. Ajay Kumar Poddar Prof. Hong Zhao		akpoddar@ieee.org	
Sept 27	11:00 AM to 12:00 PM	IEEE SMC	Seminar on Tackling Stochastic Constrained Problems via Simulation: Feasibility Determination and Optimization	Dr. Chen
Location:	NJIT - ECE 202, 161 Warren Street, Newark, NJ 07102			Getting_to_NJIT
Contact:	Prof. Mengchu Zhou		zhou@njit.edu	

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Sept 27	12:00 PM to 1:00 PM	IEEE SP01, FDU	A Moving Target Defense Framework for Distributed Systems	Dr. Wenliang Chen Dr. Noor O. Ahmed
Location:	FDU - Metropolitan Campus, Muscarelle Room 105, 1000 River Road, Teaneck, NJ 07666,			Getting to FDU T: (201) 692 2000)
Contact:	Alfredo Tan, Howard Leach Prof. Hong Zhao	tan@fdu.edu h.leach@ieee.org zhao@fdu.edu		
Sept 29	9:00 AM to 2:00 PM	IEEE PES / IAS / LM	Insulators and Vibration on Transmission Lines	Eric Smith Isaac Bohlken
Location:	PSE&G, Hadley Rd. Facility Auditorium, 4000 Hadley Road, South Plainfield, NJ 07080			Getting to PSE&G
Contact:	Ken Oexle		k.oexle@ieee.org	
Oct 4	6:00 PM to 8:45 PM	IEEE North Jersey Section	IEEE North Jersey Section EXCOM meeting - Newark, NJ	Kalyan Mondal
Location:	NJIT - ECE 202, 161 Warren Street, Newark, NJ 07102			Getting to NJIT
Contact:	Kalyan Mondal		k.mondal@ieee.org	
Oct 11	11:00 AM to 12:00 PM	IEEE North Jersey Section	Infinite Petri Nets	Dmitry A. Zaitsev
Location:	NJIT - ECE 202, 161 Warren Street, Newark, NJ 07102			Getting to NJIT
Contact:	Kalyan Mondal		k.mondal@ieee.org	
Oct 19	2:00 PM to 3:00 PM	CS, SP, COMSOC	Critical issues of IOT empowered by 5G – A case study on self-driving	Amruthur Narasimhan
Location:	FDU - Metropolitan Campus, Muscarelle Room 105, 1000 River Road, Teaneck, NJ 07666,			Getting to FDU T:(201) 692 2000)
Contact:	Mike Newell		msnewell2000@yahoo.com	
Oct 26	11:30 AM to 4:00 PM	IEEE North Jersey Section	Life Member and PES/IAS Luncheon	Mike Favetta
Location:	Hanover Manor, 16 Eagle Rock Avenue, East Hanover, NJ 07936			Getting to Hanover Manor
Contact:	Michael A. Miller		millerm@ieee.org	
Nov 18	2:00 PM to 6:00 PM	IEEE North Jersey Section	2017 IEEE STEM Career Day for Middle and High School Students	Dr. Jyoti Bali
Location:	Hilton, Short Hills, NJ 07078			Getting to Hilton, Short Hills
Contact:	Dr. Jyoti Bali		drjyotibali@gmail.com	

IEEE NORTH JERSEY SECTION – Short Courses

Sept 30 - Nov 18	9:00 AM to 12:00 NOON	Education/ NJIT	C#.Net Programming in Seven Saturdays - Seven weekly classes (September 30, October 7, 14, 28, November 4, 11, 18, 2017)	Donald Hsu
Location:	NJIT - ECE 202, 161 Warren Street, Newark, NJ 07102			Getting to NJIT
Contact:	Donald Hsu	yanyou@hotmail.com		
Sept 30 - Nov 18	12:00 PM to 3:00 PM	Education/ NJIT	Project Risk Management in Seven Saturdays Seven weekly classes (September 30, October 7, 14, 28, November 4, 11, 18, 2017)	Donald Hsu
Location:	NJIT - ECE 202, 161 Warren Street, Newark, NJ 07102			Getting to NJIT
Contact:	Donald Hsu	yanyou@hotmail.com		
Nov 11 & 18	1:30 PM to 5:00 PM	IEEE North Jersey Section, COMSOC	Introduction to the Raspberry Pi 3 Model B	Eyshika Agarwal
Location:	FDU - Metropolitan Campus, Muscarelle Room 105, 1000 River Road, Teaneck, NJ 07666,			Getting to FDU T:(201) 692 2000)
Contact:	Eyshika Agarwal	eyshikaengineer@gmail.com		

IEEE NORTH JERSEY SECTION – Conferences

October 5	9:00 AM to 4:30 PM	IEEE MTT/AP	32nd Annual Symposium and Mini-Show	Multi-Speakers
Location:	Hanover Manor, 16 Eagle Rock Ave., E. Hanover, NJ 07936			Getting to Hanover Manor
Contact:	Kirit Dixit George Kannell	kdixit@ieee.org , gkk@lgsinnovations.com		

IEEE – IMPORTANT EVENTS, ARTICLES AND REMINDERS:

- [Find Out How You Can Participate in IEEE DAY on October 3, 2017](#)
- [Annual Membership Renewal is Open, Renew Now](#)
- [Annual IEEE election deadline is on October 2nd, Vote Now](#)

For up to date information, visit our website: [IEEE North Jersey Section](#)

Prior registration is encouraged and appreciated.

You do not have to be an IEEE member to attend any event.

THE INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS, INC.**NORTH JERSEY SECTION****MTT-Society & AP-Society Joint Chapter
PRESENTS****32nd ANNUAL SYMPOSIUM AND MINI-SHOW****THURSDAY OCTOBER 5, 2017****Hanover Manor, 16 Eagle Rock Ave., East Hanover, NJ 07936, Ph. 973-992-7425****MINI SHOW FEATURING LATEST PRODUCTS - (9:30 AM TO 4:00 PM)****TECHNICAL SESSIONS (8:50AM to 4:00 PM)**

Time	Topic	Speakers	Title	Affiliation
8:50	Opening Remarks	George Kannell	Technical Chair IEEE MTT/AP NJ	LGS Innovations
9:00-9:30	A Practical Guide to Navigate Open VPX Radio/System Specifications	Bob Muro	Application Specialist	Pentek
9:30-10:00	Potential FSS Interference Levels to Nearby 5G Systems Operating in the 28 GHz Frequency Band	Steve Majkowski	FCC Filing Lead	Nokia Bell Labs
10:00	BREAK - MINI SHOW EXHIBITION			
10:30-11:00	Challenges in the design of circuits and systems for 5G	Andy Hughes	Solutions Architect	National Instruments
11:00-11:30	Technological Advances for dynamic phase noise reduction in quartz crystal oscillators	David Chandler	Product Manager	Vectron
11:30-12:00	Advance in Linearization for Wideband GaN Power Amplifiers	Allen Katz, Ph.D.	Professor of ECE, President	TCNJ, Linearizer Technology
12:00	LUNCH - MINI SHOW EXHIBITION			
1:00-1:30	Demystifying Vias in High Speed PCB Design	Dan Schwarz	Field Applications Engineer	Keysight Technologies
1:30-2:00	3 D Printing Applications in RF and Antenna Design	Reena Dahle, Ph.D.	Assistant Professor, Electrical Engineering	SUNY, New Paltz
2:00	BREAK - MINI SHOW EXHIBITION			
2:30-3:00	A Review of EW Systems Fundamentals and Applications	George Kannell	RF Systems Manager	LGS Innovations
3:00-3:30	Optical Communication Topologies and Deployment Techniques for Secure Data Transmission	Dino Giordano	Principle RF Design Engineer	Microwave Photonic Systems, Inc.
3:30-4:00	RF Technology Used to Save Lives on the Road	Scott Schober	President and CEO	Berkeley Varitronics Systems, Inc.
4:00	Closing remarks	Kirit Dixit	Chair IEEE MTT/AP NJ Symposium	Microcom Sales

Registration is on-site. Section Home page: <http://sites.ieee.org/northjersey/>**ALL ARE WELCOME (IEEE Membership not required). REGISTRATION IS ON-SITE****THERE IS NO CHARGE TO ATTEND THE SYMPOSIUM OR SHOW.****COMPLEMENTARY BREAKFAST / LUNCH INCLUDED FOR ALL.**

FOR FURTHER INFORMATION

General Event Chair	Kirit Dixit	201-669-7599	kdixit@microcomsales.com
Technical Program Chair	George Kannell	973-437-9990	gkk@lgsinnovations.com
Event Coordinator:	Ken Oexle		k.oexle@ieee.org
Event Coordinator	Har Dayal	973-633-4618	dayalhar@gmail.com
Event Coordinator:	Russell Pepe	201-960-6796	rpepe@att.net
Event Coordinator:	Howard Leach		h.leach@ieee.org
MTT/AP Chapter Chair	Dr. Ajay Poddar	201-560-3806	akpoddar@synergymwave.com
MTT/AP Chapter Vice Chair	Professor Edip Niver	973-596-3542	edip.niver@njit.edu
Section Chair	Dr. Adriaan J. van Wijngaarden	908-582 3080	alw@research.bell-labs.com