



THE IEEE NORTH JERSEY SECTION NEWSLETTER

Vol. 64, No. 8

SEPTEMBER 2018

Calendar of Events

Aug 2	2:00 PM to 3:00 PM	IT	Cloud Radio Access Networks, Distributed Information Bottleneck,	Shlomo Shamai (Shitz)
Location:	Nokia-Bell Labs, Room 6A-201, 600, Mountain Avenue, Murray Hill, NJ 07974			
Contact:	Adriaan J. van Wijngaarden		avw@ieee.org	
Aug 3	11:00 AM to 12:00 PM	IT	Detecting One of a Kind	Prof. Noam Shental
Location:	Nokia-Bell Labs, Room 6A-201, 600, Mountain Avenue, Murray Hill, NJ 07974			
Contact:	Adriaan J. van Wijngaarden		avw@ieee.org	
Aug 9	5:00 PM to 7:30 PM	MTT/AP-S	Portable Radio for Emergency Communications	Dr. Madhukar Pitke
Location:	201, McLean Boulevard, Paterson, NJ 07504			
Contact:	Ajay Poddar	akpoddar@ieee.org	Anisha Apte	anisha_apte@ieee.org
Aug 10	12:00 PM to 2:00 PM	MTT/AP-S	Switching Networks	Dr. Madhukar Pitke
Location:	201, McLean Boulevard, Paterson, NJ 07504			
Contact:	Ajay Poddar	akpoddar@ieee.org	Anisha Apte	anisha_apte@ieee.org
Aug 23	2:00 PM to 3:30 PM	Princeton-Central Jersey Sec Jt. Chapter, North Jersey MTT/AP ED/CAS	MIMO, Multiuser MIMO, and Massive MIMO	Prof. Dr. Abbas Omar
Location:	Rutgers University Busch Campus ECE bldg, 94 Brett Rd., Piscataway, NJ 08854, Room#:240			
Contact:	Ajay Poddar Allen Katz	akpoddar@ieee.org alkatz@tnj.edu	Li Zhu (Victor Zhu) Chung-Tse Michael Wu	zhulivictor@gmail.com ctm.wu@rutgers.edu
Aug 23	6:30 PM to 8:00 PM	MTT/AP ED/CAS, WIE	Antenna Techniques for Advanced Magnetic Resonance Imaging	Prof. Dr. Abbas Omar
Location:	NJIT - ECE 202, 161 Warren Street, Newark, NJ 07102			
Contact:	Ajay Poddar Anisha Apte	akpoddar@ieee.org anisha_apte@ieee.org	Edip Niver Durga Misra	edip.niver@njit.edu dmisra@ieee.org
Aug 28	5:00 PM to 7:00 PM	MTT/AP-S	Optoelectronic Oscillator	Dr. Ajay Poddar
Location:	201, McLean Boulevard, Paterson, NJ 07504			
Contact:	Ajay Poddar	akpoddar@ieee.org	Anisha Apte	anisha_apte@ieee.org

PUBLICATION OF THE NORTH JERSEY SECTION OF THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS

Sept 5	5:00 PM to 7:00 PM	IEEE North Jersey Section	North Jersey Section Sr. Member Drive - Newark, NJ	Michael Newell
Location:	NJIT - ECE 202, 161 Warren Street, Newark, NJ 07102			
Contact:	Kalyan Mondal		k.mondal@ieee.org	
Sept 5	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			
Contact:	Kalyan Mondal		k.mondal@ieee.org	
Sept 12	5:30 PM to 8:00 PM	MTT/AP ED/CAS, WIE	Low Phase Noise Signal Generation utilising Oscillators, Resonators & Filters and Atomic Clocks	Prof. Jeremy Everard
Location:	NJIT - ECE 202, 161 Warren Street, Newark, NJ 07102			
Contact:	Ajay Poddar Anisha Apte	akpoddar@ieee.org anisha_apte@ieee.org	Edip Niver Durga Misra	edip.niver@njit.edu dmisra@ieee.org
Sept 13	4:00 PM to 7:00 PM	IT	A celebration of Women In Wireless	
Location:	Nokia-Bell Labs, 600, Mountain Avenue, Murray Hill, NJ 07974			
Contact:	Jyoti Sharma	Jyoti.Sharma1@Verizon.com	Chitra Venkatraman Freddie Brooks	chitrav55@gmail.com freddie.brooks@nokia.com
Sept 15	9:30 AM to 3:30 PM	ComSoc	6th Annual IEEE North Jersey Advanced Communications (NJACS 2018)	Kalyan Mondal
Location:	Stevens Institute of Technology, Babbio Center, 525 River Street, Hoboken, NJ 07030			
Contact:	Yu-Dong Yao, Symposium Chair Adriaan van Wijngaarden, Program Chair		yyao@stevens.edu avw@ieee.org	
Sept 21	6:00 PM to 7:30 PM	MTT/AP ED/CAS, WIE	New Frontiers for Wireless Technology Using Metamaterials	Prof. Andrea Alu
Location:	NJIT - ECE 202, 161 Warren Street, Newark, NJ 07102			
Contact:	Ajay Poddar Anisha Apte	akpoddar@ieee.org anisha_apte@ieee.org	Edip Niver Durga Misra	edip.niver@njit.edu dmisra@ieee.org
Sept 26	4:45 PM to 7:00 PM	ED/CAS, MTT/AP	Nanostructured metal oxide gas sensors for Air Quality Monitoring	Prof. Andrea Alu
Location:	NJIT - ECE 202, 161 Warren Street, Newark, NJ 07102			
Contact:	Durga Misra Edip Niver	dmisra@ieee.org edip.niver@njit.edu	Ajay Poddar Anisha Apte	akpoddar@ieee.org anisha_apte@ieee.org
Sept 28	9:00 AM to 2:00 PM	PES/IES/LM	Induction and Synchronous Motor Protection	Rogério C. Scharlach
Location:	Auditorium, 4000 Hadley Road, South Plainfield, NJ 07080			
Contact:	Ken Oexle		koexle@ieee.org	

Oct 3	6:00 PM to 8:45 PM	IEEE North Jersey Section	IEEE North Jersey Section EXCOM meeting - Clifton, NJ	Kalyan Mondal
Location:	Clifton Public Library, Allwood branch, Activity Room, 44 Lyall Road, Clifton, NJ 07012			
Contact:	Kalyan Mondal		k.mondal@ieee.org	
Oct 16	4:30 PM to 6:00 PM	CS/AES	Resonance-based Signal Analysis for Speech, Biomedical, and Geophysical Applications	Prof. Ivan Selesnick
Location:	NJIT - ECE 202, 161 Warren Street, Newark, NJ 07102			
Contact:	David Haessig		david.haessig@baesystems.com	
Oct 25	2:00 PM to 2:30 PM	LM	[Legacy Report] Life Member Election Meeting	Michael A Miller
Location:	Hanover Manor, 16 Eagle Rock Avenue, East Hanover, NJ 07936			
Contact:	Michael A Miller		millerm@ieee.org	
Oct 25	11:30 AM to 4:00 PM	LM	Life Member and PES/IAS Luncheon	Michael A Favetta
Location:	Hanover Manor, 16 Eagle Rock Avenue, East Hanover, NJ 07936			
Contact:	Ken Oexle	koexle@ieee.org	Michael A Miller	millerm@ieee.org
Nov 16	1:00 PM to 2:00 PM	PES/IES/LM	PES and IAS Election Meeting	
Location:	PSE&G, Auditorium, 4000 Hadley Road, South Plainfield, NJ 07080			
Contact:	Ken Oexle		koexle@ieee.org	
• IEEE NORTH JERSEY SECTION – Short Courses				
Sept 29 – Nov 10	9:00 AM to 12:00 PM	Education Committee/ComSoc	Introduction to Python Programming	Amit Patel
Location:	FDU Metropolitan Campus, Becton Building, 960, River Rd, Teaneck, NJ 07666			
Contact:	Amit Patel	a.j.patel@ieee.org	Kalyan Mondal	k.mondal@ieee.org
Oct 6 – Dec 8	9:00 AM to 12:00 NOON	Education Committee / NJIT	C#.Net Programming in Seven Saturdays Seven weekly classes (Oct 6, 13, 20, 27, Nov 3, 10, 17, 2018)	Donald Hsu
Location:	NJIT - ECE 202, 161 Warren Street, Newark, NJ 07102			
Contact:	Donald Hsu		yanyou@hotmail.com	
Oct 6 – Nov 17	12:00 PM to 3:00 PM	Education Committee / NJIT	Big Data Market Research in Seven Saturdays Seven weekly classes (Oct 6, 13, 20, 27, Nov 3, 10, 17, 2018)	Donald Hsu
Location:	NJIT - ECE 202, 161 Warren Street, Newark, NJ 07102			
Contact:	Donald Hsu		yanyou@hotmail.com	
Nov 3 - Dec 8	10:00 AM to 12:30 PM	CS	FPGAs for Embedded Systems I in 5 Saturdays Five weekly classes (Nov 3, 10, 17, Dec 1, 8, 2018)	Cherif Chibane
Location:	FDU Metropolitan Campus, Becton Building, 960, River Rd, Teaneck, NJ 07666			
Contact:	David Haessig		david.a.haessig@njit.edu	

IEEE – IMPORTANT EVENTS, ARTICLES, ANNOUNCEMENTS AND REMINDERS:

- **This Month's Communications Society News from Around the World**
- **"U.S. Energy Situation" - An article by Harry Roman**
- **1-5 October 2018 08:30 AM to 06:30 PM HFES 2018 International Annual Meeting** Philadelphia Marriott, Philadelphia, PA



HFES 2018
International Annual Meeting
October 1-5
Philadelphia Marriott, Philadelphia, PA



Forward-thinking research and application for YOU

@ #HFES2018!

- **Guest Speakers** with valuable knowledge
- **Receptions** for students, early-career professionals, and poster attendees
- **On-Site Career Center** to explore new opportunities
- **Workshops** featuring hands-on learning
- **Interactive Posters** and Demos from young professionals to accomplished Fellows
- **Networking** with colleagues, friends, and mentors from around the world
- **Special plenaries** on hot topics
- **Practitioner Track and UX Day** for skill-building insights
- **In-depth studies** in 120 concurrent sessions
- **Refreshments** to keep you going throughout the day
- **Experiences** and connections to last a lifetime


POSITION STATEMENTS**IEEE-USA'S STANCE ON THE H-1B VISA PROGRAM
AUGUST 27, 2018 | GGDOWSKI**

The R1 Leadership has provided two documents in response to the questions and discussions at our recent Region 1 Board of Governors meeting (August 2018), concerning the IEEE USA official position on the H-1B Visa Program. We encourage all R1 Sections to publish these locally in their newsletter.

- This first document is the complete transcript of the IEEE USA testimony to the Senate Judiciary Committee by then IEEE USA President Peter Eckstein on February 25, 2016. That can be obtained by following this link: [The Impact of High-Skilled Immigration on U.S. Workers, testimony of Peter Eckstein, Senate Judiciary Committee.](#)
- The second document, is an article that appeared in the IEEE the Institute on April 21, 2017: [Green cards are a better way to bring in skilled workers](#)

THE INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS, INC.



NORTH JERSEY SECTION
MTT-Society & AP-Society Joint Chapters
PRESENTS

**33rd ANNUAL SYMPOSIUM AND MINI-SHOW****THURSDAY OCTOBER 4, 2018****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 (8:30AM to 5:00 PM)**

Time	Topic	Speakers	Title	Affiliation
8:35	Opening Remarks	George Kannell	Technical Chair IEEE MTT/AP NJ	GDMS
8:45-9:30	Filter Design, Nonresonating Modes Do It Better	Dr. Simone Bastioli	Acting Chief Engineer	RS Microwave Company
9:30-10:00	RAN Fronthaul Standardization	Mike Garyantes	Technical Manager	Nokia
10:00	BREAK - MINI SHOW EXHIBITION			
10:30-11:00	Direction Finding using Software Defined Radio	Beth Flippo	VP Embedded Software Development	Telegriid Technologies
11:00-11:30	Metamaterial Antenna Arrays for Sensing and Detection	Dr. Chung-Tse Michael Wu	Assistant Professor	Department of EE & CE, Rutgers University
11:30-12:00	CBRS Spectrum Sharing , A New Approach to Wireless LTE deployment	Luke Getto	Director of Product Management	Wireless Telecom Group
12:00	COMPLEMENTARY LUNCH - MINI SHOW EXHIBITION			
1:00-1:30	Rapid, Low-Energy Interferer Detection Using the Direct Space-to-Information Converter RF-ASIC	Matthew Bajor	Senior Engineer	Columbia University, Aspen Consulting
1:30-2:00	New Frontiers for Wireless Technology Using Metamaterials	Dr. Andrea Alù	Founding Director and Einstein Professor	CUNY Advanced Research Ctr
2:00	BREAK - MINI SHOW EXHIBITION			
2:30-3:00	Ambient RF Energy Harvesting	Dr. Reena Dahle	Assistant Professor, Electrical Engineering	SUNY, New Paltz
3:00-3:30	VHDL Auto-Generation for Software Defined Radios	Dr. David Haessig	Senior Principle Systems Engineer	BAE
3:30-5:00	Wideband Channelizer Implementation	Dr. Fred Harris	Professor of Electrical Engineering	University of California San Diego
5:00	Closing remarks	Kirit Dixit	Chair IEEE MTT/AP NJ Symposium	Microcom Sales

Registration is on-site. [IEEE North Jersey Section Home page](http://sites.ieee.org/northjersey/) or visit <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	george.kannell@gd-ms.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. Kalyan Mondal		mondal@fdu.edu

For up to date information, visit our website: [IEEE North Jersey Section](http://sites.ieee.org/northjersey/) . You do not have to be an IEEE member to attend any event. The Section Executive Committee roster is at: <http://sites.ieee.org/northjersey/org/> Prior registration is encouraged and appreciated.