



THE INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS, INC.
NORTH JERSEY SECTION
MTT-Society & AP-Society Joint Chapters PRESENTS

37th ANNUAL SYMPOSIUM AND MINI-SHOW

WEDNESDAY OCTOBER 4, 2023

Hanover Manor, 16 Eagle Rock Ave., East Hanover, NJ 07936. 973-992-7425

TECHNICAL SYMPOSIUM from 8:50 AM – 4:30 PM

MINI SHOW featuring the latest products 9:00 AM - 4:30 PM

Time	Topic	Speaker	Title	Affiliation
8:50	Opening Remarks	George Kannell	Technical Chair IEEE MTT/AP	L3Harris
9:00-9:30	Research Areas in Artificial Intelligence/Machine Learning for RF Electronic Warfare	Zachary Schaber	System Engineer	L3Harris
9:30-10:00	Design a Satellite link with Digital Twin	Dr. Murthy Upmaka	Solution Engineering Fellow	Keysight Technologies
10:00	BREAKFAST BREAK - MINI SHOW EXHIBITION			
10:30-11:15	Multi-Channel Polyphase Analysis & Synthesis Filter Banks for Wide Band Military Modulator & Demodulator Applications	Dr. Fred Harris	Professor	UCSD
11:15 - 12:00	Quantum RF Sensing & Practical Applications	Dr. William Clark	Vice President	Infleqtion
12:00	LUNCH			
1:00-1:30	Medical Applications of MHz to Sub-THz Waves	Dr. Shibani Koul	Professor Emeritus	Indian Institute of Technology
1:30-2:00	Microwave to Sub-THz Micromachined Circuits	Dr. Shibani Koul	Professor Emeritus	Indian Institute of Technology
2:00-2:30	Impact of 5G Networks on GPS Navigation –How to Make GPS Receivers Resilient in Congested Environments	Dr. Reena Dahle	Principal RF Engineer, Product Development Manager	Metamagnetics Inc.
2:30	BREAK - MINI SHOW EXHIBITION			
3:00-3:30	Fundamentals of Electronic Warfare	Mary Claire Cockrum	Sr. Associate, Systems Engineering	L3Harris
3:30-4:00	The World's First Wireless Fiber	Dr. John Howard	President	ET Industries
4:00-4:30	Analog, RF and EMC Considerations in Printed Circuit Board (PCB) Design	James Colotti	Analog/RF/EMC Engineer	Telephonics/TTM
4:30	Closing remarks	Kirit Dixit	Chair MTT/AP 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.
COMPLIMENTARY BREAKFAST / LUNCH INCLUDED FOR ALL.
Attendees are highly recommended to be vaccinated or wear PPE masks.**

FURTHER INFORMATION

General Event Chair	Kirit Dixit	201-669-7599	kdixit@microcomsales.com
Technical Program Chair	George Kannell	862-341-8462	george.kannell@L3Harris.com
Co-Chair AP/MTT Chapter	Dr. Anisha Apte		anisha_apte@ieee.org
Chair – AP/MTT Chapter	Dr. Ajay Poddar	201-560-3806	akpoddar@ieee.org
Event Coordinator	Har Dayal	973-628-7394	dayalhar@gmail.com
Event Coordinator	Ken Oexle		k.oexle@ieee.org
Event Coordinator	Russell Pepe	201-960-6796	rpepe@att.net
Event Coordinator	Howard Leach		h.leach@ieee.org
Vice Chair AP/MTT Chapter	Professor Edip Niver	973-596-3542	edip.niver@njit.edu
Chair - Section	Dr. Hong Zhao		zhao@fdu.edu