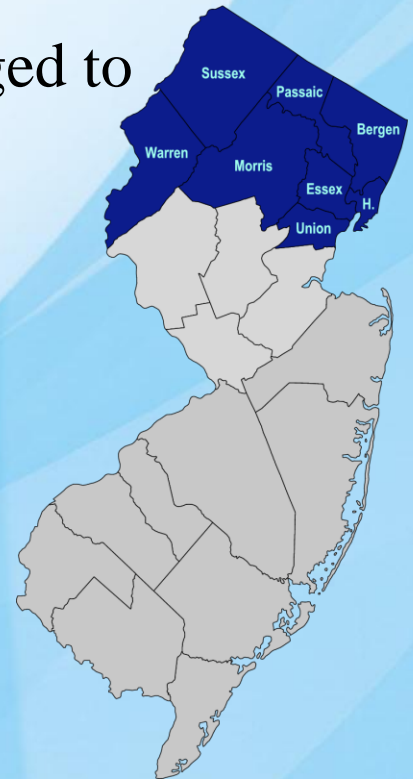


IEEE North Jersey Section

IEEE North Jersey Section Newsletter

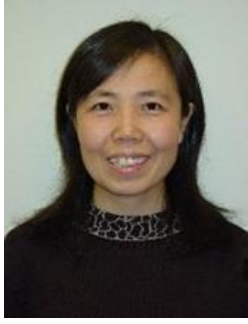
VOL. 70, NO. 07 Issue: AUGUST 2024

Prior registration is highly encouraged to attend any event.



IEEE North Jersey Section Website

IEEE North Jersey Section - Roster



Chair's Note - A Message from the IEEE North Jersey Section Chair, Prof. Hong Zhao

As we step into August, I am delighted to reflect on the remarkable advancements and vibrant activities within our community. Our collective commitment to innovation and collaboration continues to propel us forward, making the IEEE North Jersey Section a beacon of excellence in the fields of engineering and technology.

I encourage all North Jersey Section members to actively share their research work and insights.

Whether through workshops, lectures, or presenting at our various seminars and symposiums, your work enriches our collective understanding and inspires further innovation.

In particular, I would like to highlight the upcoming 38th Antenna Propagation and Microwave Technology Mini Show. This event presents a unique opportunity for industry professionals to showcase their cutting-edge products and technologies. It's an excellent platform for fostering collaboration between academia and industry, facilitating the translation of research into practical applications.

I kindly encourage each of you to participate in this mini-show, whether as presenters, attendees, or exhibitors. Engaging in these activities not only enhances your professional development but also strengthens our community by building networks and sharing diverse perspectives.

Let's make the most of this opportunity to learn from each other, showcase our achievements, and push the boundaries of what is possible in our fields. Your active participation is what makes our community thrive.

Thank you for your continued dedication and enthusiasm.

IEEE – IMPORTANT EVENTS, ARTICLES, ANNOUNCEMENTS, AND REMINDERS:

- [This Month's Communications Society News from Around the World](#)
- **Tell Stories - An article by Harry Roman**
- [38th AP/MTT Mini-Symposium](#)

Tell Stories!

That is how you do it. You tell a story or more than one if necessary. That will make your points memorable and poignant. I learned this early in my career and being able to do this while standing on my feet has proven to be my most powerful skill--a major "go-to" leadership implement in my professional toolkit.

A story should be educational, designed to deliver something worth remembering, or maybe something inspirational. It should also be entertaining, delivered in a way that an audience will remember as a pleasant learning experience. In short, the story should be "edutaining". This I enjoy with my large repertoire of Thomas Edison stories I dispense at the Thomas Edison National Historical Park in Nearby West Orange. As a ranger at the park, I normally speak to hundreds of park visitors on a typical afternoon; and they certainly enjoy the entertaining ways I make their afternoon memorable.

Now, this brings me to all you members of our North Jersey Section. When have you told some really good stories? Don't you think it might be time to tell some teachers and students about being an engineer, the excitement of solving tough problems, and the benefits that solving problems brings to society? I know you have great stories to tell. Our profession is both noble and very relevant to humanity's existence.

If you are not easy in front of people, then another way to make your story-telling engaging is to bring a sample of equipment or components you worked on or designed. Let the hardware prompt your story-telling. Believe me it will. My afternoons at the Edison Park always include my trusty invention bag right there on the table, filled with things I invented or maybe items other NJ inventors created. From this I can draw parallels to things Edison invented and how all engineers are very much like old Tom Edison. We are cut from the same cloth so to speak.....so tell your audiences how you did what you did and why you did it. Students and teachers benefit greatly from the validation you give all that math and science and STEM-stuff. They want and need to hear such talk, examples, and yes, personal stories. You will be talking to a future engineer, and you will inspire them. Tell your stories. Sing your own special song!

Harry T. Roman, Life Senior Member

Author & Advisor, Edison Innovation Foundation

(Retired-PSE&G Co.)

htroman49@aol.com



SAVE THE DATE

**IEEE NORTH JERSEY SECTION
MTT-Society and AP-Society Joint Chapter**

PRESENTS

38th ANNUAL SYMPOSIUM AND MINI-SHOW

FOCUS:

**SELECTED TOPICS IN RF AND MICROWAVE TECHNOLOGIES FOR
COMMERCIAL AND MILITARY APPLICATIONS**

DATE: WEDNESDAY, OCTOBER 9, 2024

**PLACE: Hanover Manor, 16 Eagle Rock Ave., E. Hanover, NJ
07936. Ph#973-992-7425**

9:00 AM TO 4:30 PM

TECHNICAL SESSIONS

**10 –12 LECTURES FEATURING SPEAKERS FROM LEADING
COMPANIES, WITH EMPHASIS ON MILITARY ELECTRONICS,
WIRELESS TECHNOLOGIES AND MICROWAVE COMMUNICATIONS.**

MINI SHOW FEATURING LATEST PRODUCTS

(APPX. 30-49 EXHIBITORS)

Registration:

<https://events.vtools.ieee.org/m/419659> (Attendees)

<https://events.vtools.ieee.org/m/419646> (Exhibitors)

Contact kdixit@ieee.org for Exhibitor information.

SAVE THE DATE



GRADUATE SCHOOL VIRTUAL OPEN HOUSE!

Tuesday, September 17, 2024, 5 p.m.

Fairleigh Dickinson University

Gildart Haase School of Computer Sciences & Engineering (GHSCSE)

Cybersecurity Leadership: "National Center of Academic Excellence for Cyber Defense Education (CAE-CDE)" by NSA

18 cutting-edge labs, among the best in the North and Mid-Atlantic Regions

Offers 6 Masters of Science (MS) Programs

<p>*Cybersecurity & Information Assurance</p> <p>*Electrical Engineering</p> <p>*E-Commerce</p>	<p>*Management Information Systems</p> <p>*Computer Engineering</p> <p>*Computer Science (Data Science, Cloud Computing and more)</p>
--	--

Scan Zoom Registration



Scan Grad Program Info














GRADUATE SCHOOL VIRTUAL OPEN HOUSE!

Tuesday, October 15, 2024, 5 p.m.

Fairleigh Dickinson University

Gildart Haase School of Computer Sciences & Engineering (GHSCSE)

Cybersecurity Leadership: "National Center of Academic Excellence for Cyber Defense Education (CAE-CDE)" by NSA

18 cutting-edge labs, among the best in the North and Mid-Atlantic Regions

Offers 6 Masters of Science (MS) Programs

<p>*Cybersecurity & Information Assurance</p> <p>*Electrical Engineering</p> <p>*E-Commerce</p>	<p>*Management Information Systems</p> <p>*Computer Engineering</p> <p>*Computer Science (Data Science, Cloud Computing and more)</p>
--	--

Scan Zoom Registration



Scan Grad Program Info














Co-sponsored by North Jersey Section Jt Chapters, PHO36, CAS04/ED15, AP03/MTT17, North Jersey Section SIGHT, Affinity Group, WIE and the North Jersey Section, New Jersey Coast Section Jt. Chapter, IM09/C16

**IEEE PHOTONICS SOCIETY DISTINGUISHED
LECTURER: Dr. Daniel Renner**



Title: *Professional Development Talk Title: "Life at a Photonic Startup – A very personal account"*

Date: 24th SEPTEMBER 2024, 06:00 PM to 07:30 PM

Brief Agenda:

6:00-6:15 Networking

6:15-7:15 – Talk

7:15-7:30 Q/A, Discussion

Location: NJIT, ECE 202, 154 Summit Street, Newark, NJ 07102



Co-sponsored by North Jersey Section Jt Chapters, PHO36, CAS04/ED15, AP03/MTT17, North Jersey Section SIGHT, Affinity Group, WIE and the North Jersey Section, New Jersey Coast Section Jt. Chapter, IM09/C16

**IEEE PHOTONICS SOCIETY DISTINGUISHED
LECTURER: Dr. Daniel Renner**



Title: *Monolithic, Heterogeneous, and Hybrid Photonic Integration – There is a role for all*

Date: 25th SEPTEMBER 2024, 06:00 PM to 07:30 PM

Brief Agenda:

6:00-6:15 Networking

6:15-7:15 – Talk

7:15-7:30 Q/A, Discussion

Location: M105, Muscarelle Building, Fairleigh Dickinson University, 1000 River Rd. Teaneck, NJ 07666

The IEEE Women in Engineering (WIE) Forum USA East

The IEEE Women in Engineering (WIE) Forum USA East is dedicated to fostering leadership development for professionals at every career stage. Rotating between IEEE Region 1 and Region 2 in the Northeast USA, our forum offers attendees the chance to gain inspiration and empowerment from renowned leaders. Participants will explore emerging technologies and innovative STEM outreach initiatives through dynamic workshops and engaging panel discussions.

FORUM FOCUS AREAS

Inspire: Ignite positive career and personal growth

Empower: Unleash your full potential

Lead: Elevate your leadership skills and career trajectory

Workshops: Develop and enhance essential skills

Career Fairs: Connect with leading organizations



In Memorium: Prof. Allen Katz

Allen Katz, 81, of West Windsor, NJ, passed away peacefully surrounded by Sally, his beloved wife of 55 years, and daughters Alisha and Tova at 04:32 am on Thursday, June 20.

An amateur radio operator since age 13, Allen held multiple world records in experimental high-frequency radio communications and was instrumental in pioneering EME, or Earth Moon Earth, communications.

A distinguished professor of Electrical Engineering at The College of New Jersey, Allen has taught and mentored thousands of students in his 54 years there.

He is the founder and president of Linearizer Technology, Inc., which now includes Linear Photonics, LLC and Linear Space Technology, LLC. and has been a consultant to many aerospace projects and programs with Bell Labs, Martin Marietta, Lockheed Martin, and RCA Aerospace.

He received his doctorate and baccalaureate in electrical engineering from the New Jersey Institute of Technology and a master's in electrical engineering from Rutgers University. Dr. Katz holds 17 patents and has written more than 100 technical publications. He received the IEEE's Microwave Society's (MMT-S) Application Award in 2015 for his work in linearization, the IEEE Microwave Magazine Best Paper Award in 2010, and the William Randolph Lovelace II Award for outstanding contributions to space Science and Technology from the American Astronautical Society in 2002. He also received the IEEE Region 1 Technology Innovation Award in 2007. He has also served as the MTT-S Distinguished Microwave Lecturer. Dr. Katz is a Fellow of the IEEE and has served the MTT-S in several capacities, including chair of the AP /ED/MTT chapter in the IEEE Princeton/Central Jersey Section and the Technical Program Committee co-chair for the IMS2018-Philadelphia. In addition, he has contributed to the organization of the Sarnoff Symposia and BenMAS meetings and has organized the Trenton Computer Festival for several years in Princeton/Central Jersey.



Prof. Katz frequently took part in our North Jersey AP/MTT Mini-Show. In the photo on the left, he can be seen with George Kannell and Dr. Ajay Poddar, receiving a plaque, AP-S cap, and AP-S tie as tokens of appreciation for his invited talk at the AP/MTT Mini-Show held on October 4, 2023, from Dr. Poddar, Chair of the IEEE AP-S Chapter Activity Committee and Chair of the North Jersey Section AP/MTT Chapter.

Calendar of Events

Upcoming Events: August 2024 Onwards

Title	Date	Hosts	Location
AP-S COPE & EPICS in IEEE Projects: Antenna and Wireless Humanitarian Technology: North Jersey Section Jt Chapter, AP03/MTT17	05 Aug 2024 06:30 PM	CH01092	Paterson, New Jersey Virtual
IEEE AP-S COPE, RCA, SIGHT, AND EPICS in IEEE Projects: Antenna and Wireless Humanitarian Technology: North Jersey Section Jt Chapter, AP03/MTT17	08 Aug 2024 05:30 PM	CH01092, SIGHT177	Virtual
IEEE Region-1 Women in Engineering Meeting: North Jersey Section Affinity Group, WIE	09 Aug 2024 05:45 PM	WE10327	Virtual
Next-Generation Advanced Manufacturing for Aerospace Wireless Systems – From Conformal Metasurface Antennas to High-Temperature RF and Photonics Packaging: North Jersey Section Jt Chapter, AP03/MTT17	13 Aug 2024 12:00 PM	CH01092, CH01178	Virtual

IEEE North Jersey Section September 2024 EXCOM - Meeting 6:30 PM: North Jersey Section	04 Sep 2024 06:30 PM	R10327	Teaneck, New Jersey Hybrid
IEEE SSIT Lecture: Automating Empathy in Human-AI Partnerships: Issues, Ethics and Governance: UK and Ireland Section Chapter, SIT30	10 Sep 2024 06:00 PM	CH01070, CH01092, CH01177, CH01239, CH01258, CH01268, CH01285, CH02100, CH04055, CH06042, CH07171, CH08031, CH08667, CH08917, LM10345, LM30385, R30385, SIGHT060, SIGHT119, SIGHT177, WE10327	Virtual
Integrated Sensing and Communications: A Communication Theory Perspective: North Jersey Section Chapter, AES10	10 Sep 2024 07:00 PM	CH01215, CH01253, CH02067	Virtual
Life at a Photonic Startup – A Personal Account: North Jersey Section Chapter, PHO36 DL Talk	24 Sep 2024 06:00 PM	CH01081, CH01091, CH01092, CH01177, CH01178, CH01184, SIGHT177, WE10327	Newark, New Jersey In-Person
Monolithic, Heterogeneous, and Hybrid Photonic Integration – There is a role for all: North Jersey Section Chapter, PHO36 DL Talk	25 Sep 2024 06:00 PM	CH01081, CH01091, CH01092, CH01095, CH01178, CH01184, SIGHT177, WE10327	Teaneck, New Jersey In-Person

Next generation of wireless power transfer network of Unmanned Aircraft Systems (UAS: North Jersey Section Chapter, AES10)	01 Oct 2024 07:00 PM	CH01215, CH01253, CH02067	Virtual
AI Past, Present, and Future: North Jersey Section Chapter, AES10	08 Oct 2024 07:00 PM	CH01215, CH01253, CH02067	Virtual
38th Annual Symposium and Mini-Show - Exhibitor Registration Site: North Jersey Section Jt Chapter, AP03/MTT17	09 Oct 2024 08:00 AM	CH01092	East Hanover, New Jersey In-Person
EDS Distinguished Lecture: Compacting Models: The Art of Compact Modeling (Unification of Compact Models with the Unified Regional Modeling Approach): North Jersey Section Jt Chapter, CAS04/ED15	16 Oct 2024 04:45 PM	CH01092, CH01184	Newark, New Jersey In-Person
Worldwide standardization activities of AI: North Jersey Section Chapter, AES10	22 Oct 2024 07:00 PM	CH01215, CH01253, CH02067	Virtual

[For Past Month's Events – JUNE-JULY 2024 - Click Here](#)

2024 IEEE North Jersey Section Volunteers

Executive Committee

Chair – Hong Zhao zhao@fdu.edu

First Vice-Chair – Emad Farag
enfarag@ieee.org

Second Vice-Chair – Anisha Apte
anisha_apte@ieee.org

Secretary - Adriaan J. van
Wijngaarden avw@ieee.org

Treasurer – Avimanyou Vatsa
avatsa@fdu.edu

Member-at-Large

Naresh Chand -
chandnaresh@gmail.com

Har Dayal – dayalhar@gmail.com

Alfredo Tan – tan@fdu.edu

Junior Past Chair – Ajay K.
Poddar akpoddar@ieee.org

Senior Past Chair – Yu-Dong Yao
Yu-Dong.Yao@stevens.edu

Society Chapters

Aerospace Electronic Systems

Chair – Cherif Chibane
cherif.chibane@gmail.com

Vice-Chair – Kirit Dixit -
kdixit@ieee.org

Antennas and Propagation / Microwave Theory and Techniques

Co-Chairs

Ajay Poddar
akpoddar@synergymwave.com

Edip Niver niver@adm.njit.edu

Vice-Chair – Anisha Apte
anisha_apte@ieee.org

Circuits and Systems/Electron Devices

Chair – Durga Misra
dmisra@njit.edu

Vice Chair - Shaahin Angizi
shaahin.angizi@njit.edu

Communications

Chair – Amit Patel -
a.j.patel@ieee.org

Computer

Chair – Hong Zhao -
zhao@fdu.edu

Vice Chair -Tao Han -
tao.han@njit.edu

Computational Intelligence Society

Chair: Prasenjit Bhadra -
prasenjit@ieee.org

Vice-Chair: Ratna Raj -
ratna.raj@njit.edu

Control Systems

Chair – Marcos Netto
marcos.netto@njit.edu

Electromagnetic Compatibility/Product Safety Engineering

Chair – Russell C. Pepe -
rcpepe@ieee.org

Engineering in Medicine and Biology

Chair – Yu-Dong Yao -
Yu-Dong.Yao@stevens.edu

Industrial Applications

Chair – Ken Oexle -
k.oexle@ieee.org

Information Theory

Chair – Adriaan J. van
Wijngaarden avw@ieee.org

Instrumentation & Measurement

Chair – Russell C. Pepe -
rcpepe@ieee.org

Photonics

Chair – Naresh Chand
chandnaresh@gmail.com

Power & Energy

Co-Chairs

Ronald W. Quade
rwquade@ieee.org

Michael Miller
michaelamiller8@gmail.com

Robotics & Automation

Chair - Mengchu Zhou

zhou@njit.edu

Vice Chair - Shilpi Chakraborty

shilpi@ieee.org

Signal Processing

Chair – Alfredo Tan - tan@fdu.edu

Social Implications of Technology

Chair – Kirit Dixit -
kdixit@ieee.org

Systems, Man, and Cybernetics

Chair – Weitian Wang
wangw@montclair.edu

Technology & Engineering Management

Co-Chairs – Kirit Dixit
kdixit@ieee.org

Rakesh Singh
rakeshsingh49@gmail.com

Vehicular Technology

Chair – Ionel Bajescu
nelu108@yahoo.com

Affinity Groups and Councils

Consultants Network

Co-Chairs

Jim Julian
consultant@jimjulian.com

Jay Morreale p-brane@p-brane.com

Young Professionals

Chair – Larry Yang –

larry.yang@alcatel-lucent.com

Vice Chair -Patrick Beesley
Patrick.Beesley@se.com

Women in Engineering

Co-Chairs

Chitra Venkatraman
chitrav55@gmail.com

Ratna Raj (ratna.raj@njit.edu)

Reena Dahle
reena.dahleh@gmail.com

LIFE Members

Co-Chairs

Ken Oexle - k.oexle@ieee.org

Michael Miller -
michaelamiller8@gmail.com

Nanotechnology Council

Chair - Eui-Hyeok Yang -
ehyang@ieee.org

North Jersey SIGHT Group

Co-Chairs

Anisha Apte -
anisha_apte@ieee.org

Dushyant Deshmukh
pranavdush@gmail.com

Committees

Audit Committee

Co-Chairs

Ajay Poddar - akpoddar@ieee.org

Kalyan Mondal - mondal@fdu.edu

Mani Iyer - mani.iyer@ieee.org

Awards & Recognitions

Co-Chairs

Ken Oexle - k.oexle@ieee.org

Adriaan J. van Wijngaarden
avw@ieee.org

Educational Activities

Co-Chairs

Donald Hsu –
yanyou@hotmail.com

Kalyan Mondal – mondal@fdu.edu

Amit Patel – a.j.patel@ieee.org

Employment Network

Co-Chairs

Chitra Venkatraman
chitrav55@gmail.com

Naresh Chand
chandnaresh@gmail.com

Government and Industrial Liaisons

Co-Chairs

Art Greenberg
a.h.greenberg@ieee.org

Russell C. Pepe rcpepe@ieee.org

Group Coordinator / History

Chair – Howard Leach -
h.leach@ieee.org

Legal Activities

Chair – Vacant

Membership Development

Chair – Michael Newell -
msnewell@ieee.org

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@ieee.org

Newsletter

Chair – Anisha Apte
anisha_apte@ieee.org

Nominations and Appointments

Ajay Poddar - akpoddar@ieee.org

Kalyan Mondal - mondal@fdu.edu

Durga Misra - dmisra@njit.edu

PACE

Chair – Russell C. Pepe -
rcpepe@ieee.org

Co-Chair – Paul E. Ward -
peward@ieee.org

Pre-University Activities

Co-Chair – Chitra Venkatraman
chitrav55@gmail.com

Program Review Committee

Kirit Dixit - kdixit@ieee.org

Ajay Poddar - akpoddar@ieee.org

Emad Farag - enfarag@ieee.org

Student Activities

Chair - Melvin Lewis
(mlewis@fdu.edu)

Student Representative Committee

Chair - Kalyan Mondal
mondal@fdu.edu

Webmaster

Co-Chairs

Adriaan J. van Wijngaarden -
avw@ieee.org

Avimanyou Vatsa - avatsa@fdu.edu