



THE IEEE NORTH JERSEY SECTION NEWSLETTER

VOL. 67, NO. 03

MARCH 2021

Message from the IEEE North Jersey Section Chair Dr. Ajay Poddar



In each newsletter, I want to share new information from IEEE and our section activities for the benefit of members.

This weekend, on Feb 27, I have attended IEEE Region 1 BOG virtual Meeting 2021. In general, we received positive remarks about our section and chapter, recommendation was given to make a positive effort towards engagement of students, young professionals, women in engineering, and Life members. The major concern was losing members during the pandemic. IEEE announced 50% student membership discount code (FUTURE50), leading to a recovery rate of student members significantly. The pandemic has had an adverse effect on many of the in-person events since March 2020, and we still are susceptible to this virus worldwide. The testing and vaccinations have been ramped-up treatments are improving. We are optimistic that the mid of year 2021 will be returning to normalcy, and hopefully our section will soon start holding in-person meetings including conferences, student design contest, workshops, technical talks.

Covid-19 pandemic not only affected health, but also resulted in employment loss and created uncertainty and inequality, particularly in underserved populations. IEEE HAC/SIGHT is prioritizing immediate impact, poverty mitigation and inequality reduction through the following project areas: Food Security, Infection Control Devices, Information and Communications Technology (ICT), Medical Devices, Personal Protective Equipment (PPE), Sustainable Power Sources, Water, Sanitation, and Hygiene, Other pandemic-related topics. I encourage the IEEE members to visit HAC/SIGHT website ([Homepage - IEEE Humanitarian Activities Committee](#)). Do you and others from your Society have an idea of how to make an impact in your local community? Create an account on the HAC/SIGHT [online funding portal](#) and submit a proposal before the submission deadline of 01 March. More details including previously funded projects and the Call for Proposals can be found on the [COVID-19 Projects - IEEE Humanitarian Activities Committee](#).

This is to update you that IEEE [TryEngineering.org](#) newly launched a new [Pre-University Volunteer STEM Portal](#) in an effort to support IEEE volunteers in their STEM outreach initiatives, as well as a useful tool to build local Section STEM communities. The STEM Portal is an easy-to-use searchable database of volunteer and partner-developed programs and activities where inspiration can be found from

other STEM projects and resources from peers. Any IEEE members are able to share their own programs with other volunteers, grow their network of STEM professionals, give updates to a project they are working on, and build up their local STEM community. By showcasing the results of their program, they will demonstrate the collective impact IEEE is making to inspire the STEM professionals of tomorrow!

I have noticed that many Chapter officers and volunteers in our section are finding difficulties in accessing the useful information available at IEEE website. General information related IEEE Chapters do not require login credentials, mentioned below.

No Login Credential required accessing the following:

- (1) Member and Geographic Activities Board, general information available at: <https://mga.ieee.org/>
- (2) Technical Activities Board, general information available at: <https://www.ieee.org/about/volunteers/tab.html>
- (3) Chapter Coordinators for each Society/Council, general information available at: <https://mga.ieee.org/resourcesoperations/geographic-unit/chapters/ieee-society-chapter-coordinators>
Reach out to this person if you have questions related to the Society, such as how to access Distinguished Lecturers, financial support available, awards, etc.
- (4) Chapter Funding and other information, general information available at: <https://mga.ieee.org/resourcesoperations/geographic-unit/chapters/ieee-society-chapter-funding-guide>
Note that not all Societies have included their information here. Reach out to your Society Chapter Coordinator for any additional information.
- (5) Chapter Resources, general information available at: <https://mga.ieee.org/resources-operations/geographicunit/chapters>

Login Credential required accessing the following:

- (1) vTools Officer Reporting, information available at: <https://officers.vtools.ieee.org/>
Enter the name of your Section, and a drop down list will show all chapters – select the appropriate chapter.
- (2) Center for Leadership Excellence, information available at: <https://ieee-elearning.org/CLE/>
The content for chapters is being expanded; feel free to search for Section positions, which will be very similar to Chapter positions.

You do not have to be an IEEE member but prior registration is encouraged to attend any event. [IEEE North Jersey Section Website](#) [The Section Executive Committee Roster](#)



- (3) IEEE Organization Roster, information available at:
<https://corporate.ieee.org/contact/rosters>

This is only accessible if you are listed as an officer in vTools Officer Reporting.

- (4) Supplemental Resources, information available at:
<https://ta.ieee.org/volunteerdevelopment/supplemental-resources>

- (5) Leadership Orientation, information available at:
<https://ta.ieee.org/volunteer-development/leadershiporientation>

- (6) Distinguished Lecturer Programs, information available at:
<https://ta.ieee.org/operations/society-andcouncil-operations/ieee-distinguished-lecturer-program>

Search here, by Society.

- (7) OU Analytics, information available at:
<https://ieee.org/ouanalytics>

Select Access IEEE OU Analytics, then select Map, and go to the Chapter Summary tab at the top. You can then select your Society/Council and your Region, and it will list all Chapters.

On behalf of our section, I would like to congratulate our long-time volunteer, Harry Roman for receiving the 2020 Tommy Award for his local Humanitarian Service; more details in the congratulatory note below.

Congratulations are also in order for Herman R. Zablatzky on the IEEE PES Outstanding Engineer Award (OEA); citation can be found in the congratulatory note below.

We were recently informed about the health of our Audit Committee member, Fred Chichester and his wife, who are now recovering with the help of medical assistance, in their home, and Fred will not be available to volunteer his time for our section activities. On behalf of the section, we wish them good health.

On behalf of the section, I extend deepest condolences to the loved ones of Bradley David Farnsworth, 36, of Morristown, New Jersey who passed away in his home on the morning of Friday, January 29th, 2021 following complications with a heart condition. In the note below please find the link to view Bradley's memorial webpage and send condolences.

I wish all the members good health and a productive time ahead.

Best Wishes,

Ajay Poddar

IEEE North Jersey Section Chair

Congratulations Herman R. Zablatzky on the IEEE PES Outstanding Engineer Award (OEA)

Award Citation: For Leadership and Contributions in the Engineering Design, Construction, Operations, and Maintenance of Largescale Wastewater Treatment Systems

Congratulations to Harry Roman for receiving the 2020 Tommy Award for his local Humanitarian Service



Roman has been a fan of Thomas Edison since childhood when his 4th grade teacher, Mrs. Wilson, suggested he contact the Thomas Edison Company for a science project. The Edison Company's return letter to Harry included a book entitled "Edison-Inspiration to Youth." Fifty years later, an original of that book sells online at a book collector's price of \$180.

After reading the book, Roman was "hooked" on Edison and his work in innovation, invention and research & development. He studied engineering in college and soon started working at PSE&G, our local New Jersey power company.

After a 36-year career at PSE&G and as an inventor of twelve United States patents, Roman started to consult at the Edison Foundations. To be absolutely clear, he is way more than our blog writer. He is a true disciple of Edison.

Along with the 200+ articles on our blog, Roman has also authored voluminous material on current developments in science, technology, engineering and math (STEM). He also helped give birth to one of our biggest programs, the Thomas Edison Pitch Contest, which has grown to a national level 11 years later.

There is a humanitarian side of Roman as well that many of you don't know. He serves as a volunteer at the Thomas Edison National Historical Park in West Orange, where he gives fascinating tours of the facilities. When he isn't at the park or consulting for our foundation, Roman travels the New Jersey elementary and middle school education circuit, where he is invited by the teachers to tell Thomas Edison's inspiring story. For many years, he was also volunteer Board member of the New Jersey Inventors Hall of Fame.

It is Roman's dedication to contributing back to the New Jersey community which highlights his humanitarian side.

For that reason, please join our foundation in honoring Harry Roman with the Edison Innovation Foundation 2020 Tommy Award for Humanitarian Service.

One of Thomas Edison's most famous quotes says, "There's a better way to do. Find it." Harry has done just that!

The link to this congratulatory note can be found at: [\(https://www.edisonmuckers.org/harry-roman-receives-2020-tommy-award-for-his-local-humanitarian-service/\)](https://www.edisonmuckers.org/harry-roman-receives-2020-tommy-award-for-his-local-humanitarian-service/)

Passing of AOC Garden State Committee Member, Bradley D. Farnsworth

By Nicole K. Zaretski, President, AOC Garden State Chapter

Bradley David Farnsworth, 36, of Morristown, New Jersey passed away unexpectedly in his home on the morning of Friday, January 29th, 2021 following complications with a heart condition.

Born February 12, 1984, he was the son of Brian D. Farnsworth of East Liverpool, Ohio and of Lyneah Breskvar Huff of Apollo Beach, Florida.

Bradley was raised in East Liver-pool the first 18 years of his life, then he moved to Cleveland for college and after graduation he settled in New Jersey for the last 5 years. A graduate of Case University in Cleveland with a master's degree in electrical engineering, he was a member of the St. John Lutheran Church in East Liverpool. He was the valedictorian of his graduate class at East Liverpool High School, as well as being the valedictorian of his bachelor's degree class at Case where he was awarded the President's Award for being the outstanding graduating student. He was then the valedictorian of his master's degree class. He is the own-er of 11 patents. After graduation, he worked with several large corporations dealing with signal processing and telecommunications. Most recently, he was just appointed to the Board of Directors of ENSCO.

Bradley worked for CACI LGS Labs in Florham Park, NJ, was a brilliant engineer and a great human being. Bradley was a very active member of the AOC, and continually demonstrated his unwavering dedication to and passion for our



EW community. Bradley was especially focused on the chapter's STEM outreach and scholarship programs. He always found time in an already full schedule to support the Jersey Shore Junior Science Symposium (JSJSS), believing it is key to not just AOC's mission but our nation's future. He

also was a member of our chapter's scholarship committee and was committed to ensuring we recognized and rewarded qualified and deserving candidates at the university level.

At CACI LGS Labs, he was the Director of the Technology Center in Wireless Solutions. Most recently, he was just appointed to the Board of Directors of ENSCO.

Bradley loved life and all the people he met along the way. He was a role model for all and lived his life with all his might in everything he did. A true scholar and a noble gentleman, Bradley will be sorely missed by all who were fortunate enough to meet him.

If you would like to join in making a lasting tribute to Bradley, the family has established the Bradley Farnsworth Fund for Undergraduate Research at Case School of Engineering.

You can read more about Bradley's achievements and involvement with his alma mater at <https://www.givecampus.com/bg8kya> where there is also a guide for supporting this fund in his memory.

Bradley's personal website can be accessed here: <http://www.bradleyfarnsworth.com/>

GRADUATE SCHOOL VIRTUAL OPEN HOUSE!

Wednesday, March 17, 2021, 7 p.m.

Fairleigh Dickinson University's Gildart Haase School of Computer Sciences & Engineering (GHSCSE)

- *A national leader in Cybersecurity, designated as a "Center of Academic Excellence for Cyber Defense Education" by NSA and DHS*
- *18 cutting-edge labs, among the best in the North and Mid-Atlantic Regions*
- *Offers 6 Masters of Science (MS) Programs:*
 - *Cybersecurity & Information Assurance*
 - *Computer Science*
 - *Electrical Engineering*
 - *Computer Engineering*
 - *Management Information Systems*
 - *E-Commerce*

Grow your career opportunities!

Register for the Open House: <http://bit.ly/OpenHouseCyber>

For Programs information, visit: <https://tinyurl.com/GHprogram>

Calendar of Events

IEEE North Jersey Section EXCOM meeting - March 2021 - Online (Zoom)

Date: 3 March 2021 **Time:** 06:30 PM to 08:45 PM

Location: Required - [vTools Registration link](#) [Link to Join Zoom Meeting](#) Meeting ID: 890 6781 1667

Contact: Dr. Ajay Poddar akpoddar@ieee.org, Prof. Hong Zhao zhao@fdu.edu, Dr. Adriaan van Wijngaarden avw@ieee.org

Arc Flash Safety – PES / IAS / LM Joint Meeting

Date: 5 March 2021 **Time:** 09:00 AM to 11:00 AM (Eastern Daylight time)

Location: Required - [vTools Registration link](#) [Link for joining the meeting - https://global.gotomeeting.com/join/879551581](https://global.gotomeeting.com/join/879551581)

Contact: Ronald Quade: rwquade@ieee.org

Speaker: Adams Baker of Eaton

Sensory Intelligence – CS/SP/AP/MTT

Location: Required [vTools registration - for attendance](#) [Link To join Zoom Meeting](#) Meeting ID: 921 0625 9053

Date: 10 March 2021 **Time:** 2:00 PM to 3:00 PM (Eastern Daylight time)

Contact: Prof. Hong Zhao: zhao@fdu.edu

Speaker: Dr. Yang Cai of Carnegie Mellon University

Exploring Online Presentation Skills for Engaging Your Audience – AP/MTT & ED/CAS, VT/EMB, TEM Chapters

Location: Required - [vTools Registration Link](#) [Link to Register and Join the Virtual Online Meeting](#)

Date: 11 March 2021 **Time:** 12:00 PM to 01:15 PM (Eastern Daylight time))

Contact: Dr. Ajay K. Poddar: akpoddar@ieee.org, Dr. Anisha Apte: anisha_apte@ieee.org, Har Dayal: dayalhar@gmail.com

Prof. Durga Misra: dmisra@njit.edu, Prof. Edip Niver: edip.niver@njit.edu, Ionel Bajescu: nelu108@yahoo.com

Speakers: Prof. John Bandler of McMaster University, Dr. Erin Kiley of Massachusetts College of Liberal Arts,

Daniel Tajik, GSRA, McMaster University Aline Eid, GSRA, Georgia Institute of Technology

An Introduction to Track-to-Track Fusion and The Distributed Kalman Filter – AES/TEM/CS

Location: Required [vTools registration - for attendance](#)

[Link To join Zoom Meeting](#) Meeting ID: 819 6502 8427 Passcode: 492903

Date: 13 March 2021 **Time:** 1:00 PM to 2:15 PM (Eastern Daylight time)

Contact: Cherif Chibane: cherif.chibane@gmail.com, Kirit Dixit: kdixit@ieee.org, David Haessig: davidhaessig@ieee.org

Speaker: Felix Govaers, of Fraunhofer FKIE

Epigenetic distance-based methods – CS/SP

Location: Required [vTools registration - for attendance](#) [Link To join Zoom Meeting](#) Meeting ID: 950 1364 2344

Date: 17 March 2021 **Time:** 2:00 PM to 3:00 PM (Eastern Daylight time)

Contact: Prof. Hong Zhao: zhao@fdu.edu

Speaker: Dr. Shuang Wang of Columbia University

Substation Electrical Connections – PES / IAS / LM Joint Meeting

Date: 19 March 2021 **Time:** 09:00 AM to 11:00 AM (Eastern Daylight time)

Location: Required - [vTools Registration link](#) [Link for joining the "global.gotomeeting"](#)

Contact: Ronald Quade: rwquade@ieee.org

Speaker: Dick Pelletier of Travis

Behavior Recognition & Autonomous Threat Discovery in Urban Environments – AES/CS/TEM

Location: Required [vTools registration - for attendance](#) [Link To join WebEx Meeting](#)

Date: 22 March 2021 **Time:** 7:00 PM to 8:15 PM (Eastern Daylight time)

Contact: Cherif Chibane: cherif.chibane@gmail.com, Kirit Dixit: kdixit@ieee.org, David Haessig: davidhaessig@ieee.org

Speaker: Dr. Sam Nazari

Fast Solvers for Electromagnetics-Based Analysis and Design of Integrated Circuits and Systems – MTT-S DML Talk – AP/MTT & ED/CAS, VT Chapters

Location: Required - [vTools Registration Link](#) [Link to Join Zoom Meeting](#)

Date: 23 March 2021 **Time:** 06:00 PM to 07:30 PM (CST) (01:00 PM to 02:00 PM (Eastern Daylight time))

Contact: Dr. Ajay K. Poddar: akpoddar@ieee.org, Dr. Anisha Apte: anisha_apte@ieee.org,

Prof. Durga Misra: dmisra@njit.edu, Prof. Edip Niver: edip.niver@njit.edu, Ionel Bajescu: nelu108@yahoo.com

Speakers: Dr. Dan Jiao, Professor of Electrical and Computer Engineering of Purdue University, Electrical & Computer Engineering

You do not have to be an IEEE member but prior registration is encouraged to attend any event. IEEE North Jersey Section Website The Section Executive Committee Roster

IEEE North Jersey Section EXCOM meeting - April 2021 - Online (Zoom)**Date:** 7 April 2021 **Time:** 06:30 PM to 08:45 PM**Location:** Required - vTools Registration link [Link to Join Zoom Meeting](#) Meeting ID: 890 6781 1667**Contact:** Dr. Ajay Poddar akpoddar@ieee.org, Prof. Hong Zhao zhao@fdu.edu, Dr. Adriaan van Wijngaarden avw@ieee.org**Spectrum Situational Awareness (SSA) Through Distributed RF Sensing – AES/TEM/CS****Location:** Required vTools registration - for attendance[Link To join Zoom Meeting](#) Meeting ID: 843 8742 4038 Passcode: 249685**Date:** 8 April 2021 **Time:** 7:00 PM to 8:15 PM (Eastern Daylight time)**Contact:** Cherif Chibane: cherif.chibane@gmail.com, Kirit Dixit: kdixit@ieee.org, Amit Patel: davidhaessig@ieee.org**Speaker:** Andrew Portune, Ph.D. Senior Research Scientist, Perspecta Labs**SHORT COURSES AND SYMPOSIUM:****C# .NET Programming** (Instructor: Donald Hsu) - **Education Committee/AP/MTT/ED/CAS,****Date:** 06 March - 21 April 2021 **Time:** 09:00 AM to 12:00 PM (7 Saturdays March 6, 13, 27, April 3, 10, 17, 24, 2021)**Location:** [Please register on vTools using this link](#) Online via Zoom (**Please contact Prof. Hsu for details**)**COST:** IEEE (& affiliate) members \$500; Non-IEEE members \$550.**Contact:** Prof. Donald Hsu - yanyou@hotmail.com**Project Risk Management** (Instructor: Donald Hsu) - **Education Committee/AP/MTT/ED/CAS,****Date:** 06 March - 21 April 2021 **Time:** 12:00 PM to 03:00 PM (7 Saturdays March 6, 13, 27, April 3, 10, 17, 24, 2021)**Location:** [Please register on vTools using this link](#) Online via Zoom (**Please contact Prof. Hsu for details**)**COST:** IEEE (& affiliate) members \$500; Non-IEEE members \$550.**Contact:** Prof. Donald Hsu - yanyou@hotmail.com**IEEE – IMPORTANT EVENTS, ARTICLES, ANNOUNCEMENTS AND REMINDERS:**

- [This Month's Communications Society News from Around the World](#)
- [“Let’s Talk Energy” - An article by Harry Roman](#)

2021 IEEE North Jersey Section Volunteers

Executive Committee

Chair – Ajay K. Poddar
akpoddar@synergymwave.com

First Vice-Chair – Hong Zhao
zhao@fdu.edu

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

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

Treasurer – Avimanyou Vatsa
avatsa@fdu.edu

Member-at-Large

Har Dayal – dayalhar@gmail.com

Kirit Dixit – kdixit@ieee.org

Anisha Apte – anisha_apte@ieee.org

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

Senior Past Chair – Kalyan Mondal
mondal@fdu.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-Chair – Ajay Poddar
akpoddar@synergymwave.com

Co-Chair – Edip Niver
niver@adm.njit.edu

Co-Chair – Anisha Apte
anisha_apte@ieee.org

Circuits and Systems/Electron Devices

Chair – Durga Misra
dmisra@njit.edu

Communications

Chair – Amit Patel
a.j.patel@ieee.org

Computer

Chair – Hanna (Hong) Zhao
zhao@fdu.edu

Control Systems

Chair – David Haessig
davidhaessig@ieee.org

Electromagnetic Compatibility/Product Safety Engineering

Chair – Russell C. Pepe
rcpepe@ieee.org

Engineering in Medicine and Biology

Chair – Har Dayal dayalhar@gmail.com

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-Chair – Ronald W. Quade
rwquade@ieee.org

Co-Chair – Michael Miller
michaelamiller8@gmail.com

Signal Processing

Chair – Alfredo Tan
tan@fdu.edu

Systems, Man, and Cybernetics

Chair – Mengchu Zhou
zhou@njit.edu

Vehicular Technology

Chair – Ionel Bajescu
nelu108@yahoo.com

Technical Councils

Technology & Engineering Management

Chair – Kirit Dixit
kdixit@ieee.org

Affinity Groups

Consultants Network

Co-Chair – Jim Julian
consultant@jimjulian.com

Co-Chair – Jay Morreale
p-brane@p-brane.com

Young Professionals

Chair – Larry Yang
larry.yang@alcatel-lucent.com

Women in Engineering

Co-Chair – Chitra Venkatraman
chitrav55@gmail.com

Co-Chair – Reena Dahle
reena.dahleh@gmail.com

LIFE Members

Co-Chair – Ken Oexle
k.oexle@ieee.org

Co-Chair – Michael Miller
michaelamiller8@gmail.com

Committees

Audit Committee

Co-Chair – Kalyan Mondal
mondal@fdu.edu

Co-Chair – Mani Iyer
mani.iyer@ieee.org

Awards & Recognitions

Co-Chair – Ken Oexle
k.oexle@ieee.org

Co-Chair – 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-Chair – Chitra Venkatraman
chitrav55@gmail.com

Co-Chair – Naresh Chand
chandnaresh@gmail.com

Government and Industrial Liaisons

Co-Chair – Art Greenberg
a.h.greenberg@ieee.org

Co-Chair – 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@synergymwave.com

Newsletter

Chair – Anisha Apte
anisha_apte@ieee.org

Nominations and Appointments

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

Yu-Dong Yao – Yu-Dong.Yao@stevens.edu

Hong Zhao – zhao@fdu.edu

Emad Farag – enfarag@ieee.org

Student Activities

Chair – Hong Zhao
zhao@fdu.edu

Student Representative Committee

Chair – Kalyan Mondal
mondal@fdu.edu

Webmaster

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

Co-Chair – Avimanyou Vatsa
avatsa@fdu.edu

You do not have to be an IEEE member but prior registration is encouraged to attend any event. IEEE North Jersey Section Website The Section Executive Committee Roster