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

With the beginning of May, I am delighted to share with you that we had the opportunity to celebrate and recognize the accomplishments and contributions of our members and volunteers during the 2022 IEEE North Jersey Section Award Banquet held on May 1st, at the Birchwood Manor, in Whippany, NJ. It was great to see many of you in person at the event along with the IEEE invited guests and dignitaries.

IEEE North Jersey Section is one of the 343 IEEE Sections worldwide. It represents the members who live in the northern part of New Jersey. North Jersey Section consists of about 2,500 members and have 22 active Society Chapters, six Affinity groups, and several student branches.

During the last two years (2020 and 2021), this section hosted 163 events and about 176 events, educational seminars, workshops, technical symposiums and other events which drew more than 5000 participants. None of this would have been possible without the active participation of the Section volunteers who plan, organize and make these events possible.

At the awards ceremony, we recognized the newly elevated IEEE Fellows, and the recipients of the IEEE Region-1 Awards, IEEE MGA Awards, IEEE Society Awards, and IEEE Section Awards.

As we missed having this annual event during the years 2020 and 2021, due to the pandemic, this year we took the opportunity to honor all the award recipients and Fellows of the years 2020, 2021, and 2022. We also congratulated the IEEE North Jersey Section members who have accomplished extraordinary technical achievements in IEEE and enhanced the services to the engineering profession. I am extremely grateful for their commitment, dedication and services for the section and IEEE. I know you all will join me in congratulating our new Fellows and all the Award recipients. Please take a look at the short bio and the award citations of the award recipients felicitated at the Awards Banquet held on May 1st, 2022.

2020 IEEE FELLOW
Prof. Durga Misra,
Department of Electrical and Computer Engineering of NJIT, Newark, New Jersey
“for the contributions to the reliability of CMOS gate stacks with high-k dielectrics”

2021 IEEE Fellow
Prof. Jaideep S. Vaidya,
MSIS Department at Rutgers University, Piscataway, New Jersey
“for contributions to privacy protection in data analytics and access control management”

2022 IEEE Fellow
Dr. Guiling Wang
Department of Computer Science, NJIT, Newark, New Jersey
“for contributions to distributed algorithm design for sensor networks and vehicular networks”

2022 IEEE Fellow
Dr. Peter Vetter
President of Bell Labs
Core Research at Nokia Bell Labs, Murray Hill, New Jersey
“for leadership in broadband access technologies in advanced passive optical networks”

2022 IEEE Fellow
Dr. Tara Sainath
Principal Research Scientist at Google
New York, NY
“for contributions to deep learning for automatic speech recognition”

2022 IEEE Fellow
Dr. Lei Wu
Department of Electrical and Computer Engineering
Stevens Institute of Technology, NJ
“for contributions to stochastic modeling and optimization of power systems and large interdependent infrastructures”
PUBLICATION OF THE NORTH JERSEY SECTION OF THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS

2021 Cross of Merit of the Federal Rep. of Germany
Prof. Dr. Ing. habil Ulrich L. Rohde
Chairman Synergy Microwave Corp., NJ, Partner Rohde & Schwarz, Germany
“Highest tribute to Individuals for Service to Nation”

2021 Outstanding Career Award, European Microwave Association (EuMA)
Dr. Richard Snyder
President of RS Microwave (Butler, NJ, USA)
“for Outstanding Career Award for his exemplified outstanding contributions in the field of microwaves”

The William Terry Distinguished Service Award
Kirit G. Dixit
Founder of Micro-com Sales LLC
“for a lifetime of sustained, dedicated and wide-ranging service to the IEEE at the Section, Council and Chapter levels”

IEEE R1 Technological Innovation (Industry or Government) Award
Prof. Dr. Ing. habil Ulrich L. Rohde
Chairman Synergy Microwave Corp., NJ, Partner Rohde & Schwarz, Germany
"for pioneering research and leadership in signal processing"

IEEE Region-1 Awards
Dr. Naresh Chand
US R&D Center of Huawei Technologies, New Jersey, (Retired) BAE Systems, NJ
“for leadership and sustained contribution to the IEEE North Jersey Section and its Chapters”

Prof. Edip Niver
Department of Electrical and Computer Engineering of NJIT, Newark, New Jersey
“for sustained contributions to the IEEE North Jersey Section and its Chapters”

Dr. Adriaan J. van Wijngaarden
Nokia Bell Labs, Murray Hill, New Jersey
“for sustained, dedicated and wide-ranging service to the IEEE at the MGA, Section, Council and Chapter levels”

Ronald W. Quade
Licensed Professional Engineer (P. E), NJ
“for outstanding contributions to the IEEE North Jersey Section and its Power and Energy Society Chapter”

Dr. Anisha M. Apte
Senior Design Engineer, Synergy Microwave Corp., NJ
“for outstanding leadership in publicizing and organizing IEEE North Jersey Section activities”

50 Years - IEEE Achievement Award
Kenneth J. Oexle
“for sustained leadership and accomplishments in advancing programs and activities at the section level”

IEEE SOCIETIES AWARDS
MTT-S (Microwave Theory and Techniques) Society
IEEE North Jersey Section Jt. Chapter AP03/MMT17
Chapter Officers:
Prof. Edip Niver - Chair
Dr. Anisha Apte - Co Chair
“MTT-S Best Chapter Award: 1st Place to North Jersey Section AP/MMT Chapter”

IEEE AP-S (Antenna Propagation) Society,
IEEE North Jersey Section Jt. Chapter AP03/MMT17
Chapter Officers:
Prof. Edip Niver - Chair
Dr. Anisha Apte - Co Chair
“IEEE AP-S “Outstanding Chapter Award” in entire IEEE Regions 1-10, 1st Place to North Jersey Section AP/MMT Chapter”

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

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IEEE SOCIETIES AWARDS:
IEEE ED-S (Electronic Devices) Society

2020 Best Chapter Award
Chapter Chair:
Professor Durga Misra

IEEE PES (Power & Energy) Society

PES Outstanding Engineer Award

David J. Ellis
Electric metering process management at Public Service Electric and Gas

IEEE PES (Power & Energy) Society - PES Outstanding Engineer Award
John Szabados
Vice President and Project Director for Sargent and Lundy
“for leadership and contributions in the Engineering Design and Project Management of Electric Power Systems”

IEEE SOCIETIES AWARDS
IEEE PES (Power & Energy) Society - PES Outstanding Engineer Award
Herman R. Zablatzky
Senior Project Engineer with the Middlesex County Utilities Authority
“for leadership and contributions in the Engineering Design, Construction, Operations, and Maintenance of Large-Scale Wastewater Treatment Systems”

IEEE Outstanding Volunteer Award
Gregory Olson
Independent consultant to the electric power industry and end user community
“for contributions and leadership in advancing the continuing education of engineers”

IEEE North Jersey Section Award:
Prof. Kalyan Mondal
Tenured Professor of Electrical Engineering in the Gildart Haase School of Computer Sciences and Engineering (GHSCSE), Fairleigh Dickinson University (FDU), Teaneck, NJ
“for a decade of continuous, dedicated and wide-ranging service to the IEEE at ExCom, YP, and Students Engagement/Activities”

IEEE North Jersey Section Award
Russell Pepe
Vice President and Sales Engineer at Advanced Technical Marketing (ATM) Adjunct Professor at NJIT ECE & ECET Dept.
“for a decade of continuous, dedicated and wide-ranging service to the IEEE at ExCom, YP, and Students Engagement/Activities”

IEEE Recognition Award
Stephen Wilkowski
(Retired) Distinguished Member of Technical Staff (DMTS) Nokia, Murray Hill, NJ
“for the successful launch of IEEE Discovery Point for Communications”

IEEE Foundation Award
Harry T. Roman
(Retired) PSE&G R&D - pioneering work in solar energy, robotics, energy storage, fuel cells, artificial intelligence, microsensors, and the smart utility of the future
“for 2020 Tommy Award for local Humanitarian”

IEEE Student Awards
2021 IEEE Electron Devices Society Undergraduate Student Scholarship Award
Andressa Marangon
Undergraduate Student, NJIT, Newark, NJ
“to promote, recognize, and support Undergraduate level study and hands on experience within the Electron Devices Society’s field of interest”
2022 NJRSF IEEE North Jersey Section Young Engineer Award

Nathanael Gunawan: “for Novel Magnetic levitation train using a triple-dipole-line track system”


Yuxuan (Daniel) Tian: “for Design of oxygen-carrying autonomous following vehicle for pulmonary rehabilitation”

2022 Hudson STEM Showcase Award

Arnav Ambre: “for Measuring Blood Alcohol Concentration with Near-Infrared Spectroscopy”

Thanhloan Tran: “for Using the Seebeck Effect and body heat to harvest electricity in coats”

Congratulations and best wishes to all the award recipients. I am sure they will be an inspiration to many.

IEEE AP-S Ulrich L. Rohde Humanitarian Project Award Call for Proposal

IEEE AP-S SIGHT are currently offering a special Call for Proposals to support AP-S Chapter projects that utilize AP-S-relevant technology to address local community challenges. The Call is open through 15 June 2022. Ulrich L. Rohde Humanitarian Project Awards of up to US$10,000 will be made to selected projects on pressing issues challenging an underserved community. For detail information, contact Dr. Anisha Apte (anisha_apte@ieee.org), member AP-S SIGHT and elected IEEE AP-S AdCom member, 2022-2024.

Our section will continue to support STEM activities and promote DEI and address humanitarian cause within the boundaries of the IEEE.

I would like to encourage everyone to find more opportunities to volunteer and contribute towards a worthy cause and benefit of the members and our community.

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

IEEE North Jersey Section Chair

Ajay Poddar

Fig. 1. Picture shows the award recipients attending the May 1st ceremony

Fig. 2. Picture shows the presentation during the awards banquet and distribution ceremony
IEEE – IMPORTANT EVENTS, ARTICLES, ANNOUNCEMENTS AND REMINDERS:

- This Month's Communications Society News from Around the World
- “Invention Contests” - An article by Harry Roman for the May Newsletter

**Invention Contests -- Popular Among Students**

Since 2009 the Edison Pitch Contest has sponsored a national invention and pitch contest to teach the principles of invention and entrepreneurship. This year the program has really popped its buttons with a 50% increase in registrations! 84 schools across 27 states are involved. Student team registrations have zoomed from 205 last year to 301 this year, with a jump in total students involved from 540 to 817.

Student teams are free to choose the categories in which they submit their inventions. They have typically invented in categories like community development, animals, education, environment and medical. This year the students are heavy into the environment category, with medical running second. Leading the pack this year are middle school entries, followed by high school and then elementary. If statistics hold as they have been, young ladies will be more than worthy competitors, especially in the middle school division.

All these contestant teams will keep the judges busy as top honors are determined. The Edison Innovation Foundation will hold the presentations and awards ceremony in mid-May at the Thomas Edison National Historical Park in West Orange, NJ. Always an "electric evening" as top candidates enthusiastically present their inventions, it's a night when Tom Edison smiles down on everyone there!

Tell your teacher friends about this national opportunity. Tell them to put it on their calendar for next year. For more information, see https://www.thomasedisonpitch.org.

Talk to you again soon...

Harry

Harry T. Roman, Life Senior Member
Author & Advisor, Edison Innovation Foundation
(Retired-PSE&G Co.) htroman49@aol.com

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
## Calendar of Events

### Current Events – May 2022

<table>
<thead>
<tr>
<th>Date and Time</th>
<th>Event - Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>01 May 2022 02:30 PM To</td>
<td><strong>2022 IEEE North Jersey Section Awards Banquet</strong>&lt;br&gt;Sponsor/Co-Sponsors: R10327 - North Jersey Section&lt;br&gt;Location: Birchwood Manor, 111 North Jefferson Road, Whippany, NJ 07981&lt;br&gt;Required - vTools Registration Link&lt;br&gt;Contact: Ajay Poddar (<a href="mailto:akpoddar@ieee.org">akpoddar@ieee.org</a>)&lt;br&gt;Speakers: Eduardo (Ed) Palacio, 2022 IEEE USA President, Ajay Poddar, IEEE North Jersey Section Chair</td>
</tr>
<tr>
<td>06:00 PM</td>
<td><strong>Mastering EVM: Optimizing to Industry Standards: and Testing HDMI 1.4b / 2.1 interfaces with oscilloscopes</strong>&lt;br&gt;Sponsor/Co-Sponsors: North Jersey Section Chapter/Jt Chapter - AP03/MTT17, CAS04/ED15, EMB18&lt;br&gt;Location: Required vTools Registration&lt;br&gt;Contact: Ajay Poddar (<a href="mailto:akpoddar@ieee.org">akpoddar@ieee.org</a>), Edip Niver (<a href="mailto:edip.niver@njit.edu">edip.niver@njit.edu</a>), Anisha Apte (<a href="mailto:anisha_apte@ieee.org">anisha_apte@ieee.org</a>), Durga Misra (<a href="mailto:dmisra@njit.edu">dmisra@njit.edu</a>), Har Dayal (<a href="mailto:dayalhar@gmail.com">dayalhar@gmail.com</a>)&lt;br&gt;Speakers: Martin Lim of Rohde &amp; Schwarz; Johannes Ganzert of Rohde &amp; Schwarz</td>
</tr>
<tr>
<td>05 May 2022 02:00 PM To</td>
<td><strong>IEEE North Jersey Section awards Banquet</strong>&lt;br&gt;Sponsor/Co-Sponsors: North Jersey Section Chapter/Jt Chapter - AP03/MTT17, CAS04/ED15, EMB18&lt;br&gt;Location: Required vTools Registration&lt;br&gt;For Joining: Virtual Event Link&lt;br&gt;Contact: Ajay Poddar (<a href="mailto:akpoddar@ieee.org">akpoddar@ieee.org</a>), Edip Niver (<a href="mailto:edip.niver@njit.edu">edip.niver@njit.edu</a>), Anisha Apte (<a href="mailto:anisha_apte@ieee.org">anisha_apte@ieee.org</a>), Durga Misra (<a href="mailto:dmisra@njit.edu">dmisra@njit.edu</a>), Har Dayal (<a href="mailto:dayalhar@gmail.com">dayalhar@gmail.com</a>)&lt;br&gt;Speakers: Eduard Palacio, 2022 IEEE USA President, Ajay Poddar, IEEE North Jersey Section Chair</td>
</tr>
<tr>
<td>05 May 2022 03:00 PM</td>
<td><strong>Visual Inspection AI, Transform manufacturing quality; AND Computer Vision for Workplace Safety.</strong>&lt;br&gt;Sponsor/Co-Sponsors: No Jersey/Prin-Ctr Jersey Jt Sections Chapter, IA34, LM10327 - North Jersey Section&lt;br&gt;Location: External Joining Link Required - vTools Registration link&lt;br&gt;Contact: Ronald Quade (<a href="mailto:rquade@ieee.org">rquade@ieee.org</a>)&lt;br&gt;Speakers: Nehal Mehta; Sercan Esen</td>
</tr>
<tr>
<td>12 May 2022 01:00 PM To</td>
<td><strong>Versatile 5G FR2 over-the-air antenna characterization at your benchtop: and Testing HDMI 1.4b / 2.1 interfaces with oscilloscopes</strong>&lt;br&gt;Sponsor/Co-Sponsors: North Jersey Section Chapter/Jt Chapter - AP03/MTT17, CAS04/ED15, EMB18, VT06, RA24, SIGHT177&lt;br&gt;Location: Link to External Registration Register to join&lt;br&gt;Contact: Ajay Poddar (<a href="mailto:akpoddar@ieee.org">akpoddar@ieee.org</a>), Edip Niver (<a href="mailto:edip.niver@njit.edu">edip.niver@njit.edu</a>), Anisha Apte (<a href="mailto:anisha_apte@ieee.org">anisha_apte@ieee.org</a>), Durga Misra (<a href="mailto:dmisra@njit.edu">dmisra@njit.edu</a>), Har Dayal (<a href="mailto:dayalhar@gmail.com">dayalhar@gmail.com</a>)&lt;br&gt;Speakers: Günter Pfeifer of Rohde &amp; Schwarz; Prof. Fabien Ferrero of Université Côte d’Azur</td>
</tr>
<tr>
<td>12 May 2022 02:00 PM</td>
<td><strong>An Introduction to the IEEE 802 LAN/MAN Standards Committee:</strong>&lt;br&gt;Sponsor/Co-Sponsors: North Jersey Section Chapters, COM19, C16, New York Section Chapter, COM19&lt;br&gt;Location: Zoom Meeting Link Meeting ID: 986 7976 4598, Required: vTools Registration Link&lt;br&gt;Contact: Amit Patel (<a href="mailto:a.j.patel@ieee.org">a.j.patel@ieee.org</a>), Hong Zhao (<a href="mailto:zhao@fdu.edu">zhao@fdu.edu</a>), Z. Peng (<a href="mailto:zpeng@ccny.cuny.edu">zpeng@ccny.cuny.edu</a>)&lt;br&gt;Speaker: Paul Nikolich, partner in YAS Broadband Ventures LLC.</td>
</tr>
<tr>
<td>Date</td>
<td>Event Description</td>
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<tr>
<td>17 May 2022</td>
<td>Future of Antenna Design Procedures and Characteristic Mode Analysis</td>
</tr>
<tr>
<td>21 May 2022</td>
<td>Human-Robot Collaborative Learning of Human Welder Intelligence for Enhancing Human Welder Skills and Robotizing Complex Welding Processes</td>
</tr>
<tr>
<td>01 Jun 2022</td>
<td>IEEE North Jersey Section - EXCOM - Zoom: North Jersey Section, R10327 - North Jersey Section</td>
</tr>
<tr>
<td>22 Jul 2022</td>
<td>One-Day Summer Camp for Female High School Students: SHE in ECE</td>
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## Past Month’s Events – April 2022 Events

<table>
<thead>
<tr>
<th>Date &amp; Time</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>01 Apr 2022, 09:00 AM</td>
<td>Cybersecurity For Industrial Control Systems - SEL, (PES/ IAS/ LM Joint Meeting) North Jersey Section Chapter PE31/IA34 North Jersey/Prin-Ctr Jersey Jt Sections, Chapter, North Jersey Section Affinity Group, LM</td>
</tr>
<tr>
<td>06 Apr 2022, 06:00 PM</td>
<td>IEEE North Jersey Section - EXCOM - Zoom Meeting 6:00 PM: North Jersey Section - North Jersey Section</td>
</tr>
<tr>
<td>11 Apr 2022, 07:30 PM</td>
<td>Do Good Things Health and Medical Device Literacy SIGHT Group Project: IEEE New Jersey Coast and North Jersey Section SIGHT 119, SIGHT177</td>
</tr>
<tr>
<td>11 Apr 2022, 07:30 PM</td>
<td>Medical Electronics: Health &amp; Medical Devices Literacy: North Jersey Section Jt Chapter, AP03/MMT17, SIGHT</td>
</tr>
<tr>
<td>13 Apr 2022, 12:00 PM</td>
<td>Input Intelligence on Mobile Devices: North Jersey Section Chapter, C16, SP01</td>
</tr>
<tr>
<td>14 Apr 2022, 02:00 PM</td>
<td>Mastering EVM: Optimizing Your Signal Generator: North Jersey Section Jt Chapter, AP03/MMT17, ED15/CAS04, EMBS18</td>
</tr>
<tr>
<td>20 Apr 2022, 01:00 PM</td>
<td>Prepare a Robust 5G NR Spectrum for Deployment: North Jersey Section Jt Chapter, AP03/MMT17 CAS04/ED15, EMB18, TEM14, VT06, PH036, SIGHT177</td>
</tr>
<tr>
<td>21 Apr 2022, 01:00 PM</td>
<td>How Network Testing Ensures 5G Network Performance: North Jersey Section Jt Chapter, AP03/MMT17 CAS04/ED15, EMB18, TEM14, VT06, PH036, SIGHT177</td>
</tr>
<tr>
<td>21 Apr 2022, 06:00 PM</td>
<td>Machine Learning Techniques for Network Analysis: New Jersey Coast Section Chapter, CM19 New Jersey Coast Section Jt. Chapter, IM09/C16, COM19 (New York Section Chapter, Chicago Section Chapter, Long Island Section Chapter, Washington Section Chapter, North Jersey Section Chapter, Buffalo Section Chapter) Princeton/Central Jersey Sec Jt Chap, CT08/CM19, New Jersey Coast Section Affinity Group, CN</td>
</tr>
<tr>
<td>22 Apr 2022, 01:00 PM</td>
<td>Four phases of the holistic 5G network optimization: North Jersey Section Jt Chapter, AP03/MMT17, CAS04/ED15, EMB18, TEM14, VT06, PH036, SIGHT177</td>
</tr>
<tr>
<td>23 Apr 2022, 01:00 PM</td>
<td>Recent Advances in Motion Control of Underwater Vehicles for Inspection Applications: North Jersey Section Chapter, AES10, COM19</td>
</tr>
<tr>
<td>26 Apr 2022, 12:00 PM</td>
<td>Apples to apples 5G network benchmarking: North Jersey Section Jt Chapter, AP03/MMT17 CAS04/ED15, EMB18, TEM14, VT06, PH036, SIGHT177, RA24</td>
</tr>
<tr>
<td>26 Apr 2022, 06:30 PM</td>
<td>Future of Antenna Design Procedures and Characteristic Mode Analysis, NJ Coast/Princ/Central Jersey Sec Jt Ch, AP/VT/EMC, North Jersey Section Jt. Chapter AP03/MMT17, Princeton/Central Jersey Section Affinity Group, YP, STB01681 - Rutgers University Student Branch Chapter</td>
</tr>
<tr>
<td>26 Apr 2022, 06:30 PM</td>
<td>IEEE SIGHT Day: Future of Antenna Design Procedures and Characteristic Mode Analysis: NJ Coast/Princ/Central Jersey Sec Jt Ch, AP/VT/EMC, North Jersey Section Jt Chapter, AP03/MMT17, YP10329 - Princeton/Central Jersey Section Affinity Group, YP, STB01681 - Rutgers University, SIGHT119 - IEEE New Jersey Coast Section SIGHT, R10345 - New Jersey Coast Section</td>
</tr>
</tbody>
</table>
PUBLICATION OF THE NORTH JERSEY SECTION OF THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS

2022 IEEE North Jersey Section Volunteers

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akpoddar@synergymwave.com
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zhao@fdu.edu
Second Vice-Chair – Edip Niver niver@adm.njit.edu
Co-Chair – 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
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Chair – Cherif Chibane
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Vice-Chair – Kirit Dixit
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Co-Chair – Ajay Poddar
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Co-Chair – Edip Niver
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Chair – Anisha Apte
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Vice Chair - Shilpi Chakraborty
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Social Implications of Technology
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Systems, Man, and Cybernetics
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Technology & Engineering Management
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Vehicular Technology
Chair – Ionel Bajescu
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Co-Chair – Jay Morreale
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Co-Chair – Michael Miller
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Fiber Optics Council
Chair - Emad Farag
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North Jersey SIGHT Group
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Co-Chair – Dushyant Deshmukh
pranavdesh@gmail.com

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Audit Committee
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Co-Chair – Mani Iyer
mani.ijer@ieee.org

Awards & Recognitions
Chair – Ken Oexle

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VOL.68, NO. 05
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