

IEEE Ottawa Section Report to the Annual General Meeting

November 15, 2019



IEEE

**Ottawa
Section**



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1. IEEE Ottawa Section Chair's Report

Success Stories

- The dedication ceremony for the IEEE engineering milestone “First Search and Rescue Using Satellite Technology, 1982” was held at the Canadian Aviation and Space Museum on the 9th of September, 2019. The event was well attended with almost 60 registered attendees, including our special guests: the IEEE Canada President Dr. Maike Luiken, IEEE President Dr. José Moura, and Dr. Robert Thirsk, and representatives from National Search and Rescue Secretariat, Canadian Armed Forces, and Dept. of National Defense, National Research Council, and many IEEE members.
- IEEE Ottawa Lunch and Learn, a monthly technical seminar in Ottawa's high tech hub continues to be a success. This monthly event allows us to offer a networking and learning environment for our colleagues, members and fellow engineers and scientists. We continue to use this event to recruit volunteers, members and foster relationships with industry.
- Ottawa Robotics Competition (ORC) The ORC remains relentless in fulfilling their socially responsible vision of reducing gender disparities in STEM and inspiring more of the younger generation to explore STEM. ORC 2019 has reported our record participation rate this year – 64% higher than previous record. A 20% decrease in gender gap (from 60% down to 40%) was reported. ORC 2019 also at least doubled patronage funds compared to the past year.
- The IEEE University of Ottawa Student Chapter had a new fleet of executives as of April 2019. The student chapter has since been extremely active. IEEE uOttawa Student Branch won Honorable Mention Award in "Global Student Branch Website Competition".
- Anastassia Gharib won the Women in Engineering Prize by IEEE Canadian Foundation, in recognition of her valued service and contribution to IEEE Canada
- Ivor Benderavage won the Women in Engineering Prize by IEEE Canadian Foundation, in recognition of his valued service and contribution to the IEEE Student Branch at the University of Ottawa

Key Activities

- The dedication ceremony for the IEEE engineering milestone “First Search and Rescue Using Satellite Technology, 1982” was held at the Canadian Aviation and Space Museum on the 9th of September, 2019. The event was co-hosted by the museum (site) and the Institute for Electrical and Electronics Engineers (IEEE), and was attended by the IEEE Canada President

Dr. Maïke Luiken, IEEE President Dr. José Moura, and representatives from National Search and Rescue Secretariat, Canadian Armed Forces, and Dept. of National Defense, National Research Council, and many IEEE members.

- IEEE Ottawa Lunch & Learn in The Kanata Tech Hub (<http://ewh.ieee.org/r7/ottawa/lunchandlearn/>): Ottawa Lunch and Learn is an initiative by IEEE Section to bridge the gap and derive synergy between Ottawa industry, academia, and government. The initiative organized monthly talks on technology and personal development topics by inviting speaker from either industry, academia, or government to the heart of the Kanata Tech Hub. We have 3 events so far this year.
- 22nd International Conference on Information Fusion was successfully held on Jul 2-5, 2019! Over 400 participants.
- 19th International Conference on Numerical Simulation of Optoelectronic Devices (NUSOD 2019) was successfully held on Jul 8-12, 2019.
- 2019 IEEE International Symposium on Robotic and Sensors Environments (ROSE) was successfully held on Jun 17-18, 2019.
- 17th Annual IEEE Ottawa Robotics Competition (ORC) 2019 attracted over 340 students from 94 teams in the Ottawa area and beyond. 27% girls and 19 all-girls teams had participated this year. Eight patrons with \$14.5k in patronage was received.
- The Teacher In-Service Program (TISP) of IEEE Ottawa Section and Ciena Cares worked together, under the joint initiative, with Christie Lake kids. They provided STEM learning programs to their Summer Camp as well as to their STAR STEM program. They ran a 9 weeks STAR STEM program in the spring, 3 one day events in the summer and currently are conducting the Fall 9 weeks STAR STEM program. The joint initiative uses the TISP activities plus other science experiments to get youth interested and have fun with science and engineering.
- We have initiated a new annual bursary program (\$3000) that aims to support students entering the first year of post-secondary education in IEEE related fields.<https://www.ieeeottawa.ca/awards/ieee-ottawa-stem-bursary/>
- IEEE Section Congress (SC2020) planning is ongoing – the Ottawa Section has a team of 8 volunteers in the SC2020 Local Planning committee, and is currently working directly with the SC2020 global Planning committee. 2 local meetings and 4 SC2020 Steering Committee meetings have taken place.
- IEEE International Topical Meeting on Microwave Photonics (MWP2019) was successfully held, with over 140 participants”.
- 7th IEEE Global Conference on Signal and Information Processing (GlobalSIP 2019) will be held in Nov 11-14, 2019.

- Bid for 2021 IEEE Nuclear and Space Radiation Effects Conference (NSREC) was successful.
- Carleton University received Region 7 Exemplary Student Branch Award for 2017-2018 academic year.
- Ottawa ComSoc Chapter won the 2019 IEEE Chapter Achievement Award in North America (potential to be the IEEE Chapter of the Year 2019).
- Dharina Hanumunthada won the Women in Engineering Prize by IEEE Canadian Foundation, in recognition of her valued service and contribution to the IEEE Student Branch at Carleton University.

Issues Facing the Unit

- Recruiting from student level for long term commitments in roles. We are now actively involving the leaders in the 3 student chapters and requesting them for more recruitment activities.
- Declining number of volunteers for the Section. We have recently recruited a new Memberships Development Chair, Sana Abou-Shaaban, who have already started planning for recruitment events. In addition, we have updated the format of the monthly Section meeting to make the Meeting more appealing and accessible to volunteers. Excellent increase in the number of volunteers at the Meeting has been observed.

Ahead in 2020

- Goals of the Section will be to increase memberships and elevations (Senior/Fellow).
- IEEE Section Congress (SC2020) planning – the Ottawa Section has a Local Planning committee. The suggestions and feedback from the Local Planning committee are communicated directly to the global planning committee.
- 2021 IEEE Nuclear and Space Radiation Effects Conference (NSREC).
- IEEE Milestone proposed for the “First Fiber Bragg Grating Demonstration Achieved by Dr. Kenneth Hill and his colleagues at CRC in Ottawa in 1978”.
- IEEE Milestone proposed for the “First operational Geographic Information System (GIS) by Dr. Roger Tomlinson (1933-2014) at the federal Department of Forestry and Rural Development in Ottawa in 1967”.

Dr. Winnie Ye

Chair
IEEE Ottawa Section

2. Committee Reports

Annual General Meeting (AGM) Planning Committee

Chair: Ajit Paradasani, ajit.pardasani@ieee.org

Refer to vTools reporting.

Awards Committee

Chair: Wahab Almuhtadi, almuhtadi@ieee.org

Members: Executive Officers of the Ottawa Section (Chair, Vice Chair, Secretary, Treasurer, Past Chair), Raed Abdullah.

Website: <http://www.ieeeottawa.ca/about/awards-2/>

Refer to vTools reporting.

Bylaws Committee

Chair: Branislav Djokic branislav@ieee.org

Vice Chair: Kexing Liu Kexing.Liu@ieee.org

The document was reviewed and no changes were necessary.

Publications Committee

Chair: Irusha Vidanamadura (irusha.vidanamadura@ieee.org)

Webmaster: Rishi Sharma (rishi.sharma.ca@ieee.org)

Social Media: Erdem Yanikomeroglu (erdemy_ca@ieee.org)

Website: <https://www.ieeeottawa.ca/publications/>

Achievements

- Migrate website from using HTTP to HTTPS in order to increase site security.
- Add privacy policy agreement to comply with EU's GDPR rules.
- Add event type posts to the website in order to offer visitors ways to view past and upcoming events.
- Migrate to using event/news submission form on our website that automates the post creation process for every event/news submissions. This also removes dependency of relying on third-party services.
- Send e-notice newsletters by-weekly instead of monthly in order to inform members about events more often.

Educational Activities (EA) Committee

Chair: Branislav Djokic, branislav@ieee.org

Website: <http://www.ieeeottawa.ca/ea/>

Refer to vTools reporting.

Engineers-in-Transition (EiT) Committee

Chair: Vacant

No activities this year.

Humanitarian Initiatives Committee (HIC) – SIGHT

Chair: Alfredo Herrera

Refer to vTools reporting.

Industry Relations Committee

Chair: Eric Karmouch ekarmouch@ieee.org

Lunch and Learns Coordinator: Michael Lalonde michael.lalonde@ieee.org

Website: <http://ewh.ieee.org/r7/ottawa/lunchandlearn/>

List of Activities

Total Number of Technical Meetings this year: 3

Date, Time, Location	Type (<i>Tech Meeting, Workshop, DL, Social, Luncheon, etc.</i>)	Title and Brief Description	Attendance (<i>IEEE members and Total</i>)	Joint Activity Sponsors
May 2 - Mitel HQ Ottawa	Lunch and Learn	Talk about AI	109	Robotics Centre, FibreNoire, CU Faculty of Engineering, Purecolo, KNBIA, Smart & Biggar, Syntronic, Mitel, Vanillasoft
June 20 - CENGN HQ Ottawa	Lunch and Learn	Talk about IXP's	84	Robotics Centre, FibreNoire, CU Faculty of Engineering, Purecolo, KNBIA, Smart & Biggar, Syntronic, Mitel, Vanillasoft
Sept. 11 - You.i TV HQ Ottawa	Lunch and Learn	Talk about Digital Twins	85	Robotics Centre, FibreNoire, CU Faculty of Engineering, Purecolo, KNBIA, Smart & Biggar, Syntronic, Mitel, Vanillasoft

Life Member Committee

Chair: Wolfram Lunscher, wlunscher@gmail.com

List of Activities

Total Number of Technical Meetings:

This Year (2019): 1

Last Year (2018): 1

Date, Time, Location	Type (<i>Tech Meeting, Workshop, DL, Social, Luncheon, etc.</i>)	Title and Brief Description	Attendance (<i>IEEE members and Total</i>)	Joint Activity Sponsors
Oct 17, 2019 Ottawa	Tour	L5 CAV Test Track Tour	TBD IEEE TBD Total	Invest Ottawa

Membership Development (MD) Committee

Chair: Sana Abou-Shaaban sana.absh@gmail.com

The Chair for MD changed mid-year. The new Chair plans to collaborate with students at local universities to increase membership count. Possible activities will range from networking events to sports events.

Nominations and Appointments

The Nomination and Appointments (N&A) Committee is responsible for the nomination and election process for next year's four executive officers of the Section (Chair, Vice-Chair, Secretary and Treasurer). The N&A Committee is also responsible for recommending and appointing qualified candidates for positions in the Section chapters, affinity groups, and committees.

Chair: Anissa Shaddy anissa@ieee.org

Member: Sreeraman Rajan sreeraman@ieee.org

Member: Rami Abielmona

Member: Raed Abdullah raedabdullah@ieee.org

Member: Wahab Almuhtadi almuhtadi@ieee.org

Member: Branislav Djokic branislav@ieee.org

Member: John Grefford grefford@ieee.org

Member: Tom Lavrisa lavrisa@ieee.org

Ottawa Robotics Competition (ORC) Committee

Chair: Heidi Li and David Huynh

Vice Chair: Jiayun (Kelly) Xu, Imman Jami, and Loïc Darboux

Website: <http://orc.ieeeottawa.ca>

List of Activities

Total Number of Technical Meetings:

This Year (2019): 9

Last Year (2018): 4

Date, Time, Location	Type (Tech Meeting, Workshop, DL, Social, Luncheon, etc.)	Title and Brief Description	Attendance (IEEE members and Total)	Joint Activity Sponsors
Various dates and times, locations across the Ottawa region	Planning meetings	Variable names depending on discussion topic	Averaged 2/7	N/A
April 27, 2019, 10 am – 3 pm, University of Ottawa	Work period	Work Period #1	1/81	N/A
May 15-27, 2019, various times and locations	Training session	Training session	22/66	N/A
June 2, 2019, Earl of March Secondary School	Competition day	Competition day	10/610	N/A
July 24, 2019, University of Ottawa	Volunteer Appreciation	Volunteer Appreciation Party	5/35	N/A

List of notable events held, sponsored or organized such as symposia, conferences, educational programs, job fairs, competitions etc.

- Competition day featuring 600 attendees in a new venue (Earl of March Secondary School)

List of special or unique events that are to be held next year

- Change in executives
 - Heidi and David to become Advisors
 - Kelly and Imman to lead as Co-Chairs
- New all-girls initiative using micro:bits and other new challenges
- In-class workshops and seminars
- Video project showcasing technologies being developed by the local hi-tech sector

Senior Membership Committee

Chair: Dr. Sreeraman Rajan

Vice Chair: Dr. Bhashyam Balaji

Refer to vTools reporting.

Strategic Planning (SP) Committee

Chair: Raed Abdullah

Refer to vTools reporting.

Teacher in Service Program (TISP) Committee

Chair: Wolfram Lunscher

Total Number of Technical Meetings:

This Year (2019): 12

Last Year (2018): 12

Date, Time, Location	Type (Tech Meeting, Workshop, DL, Social, Luncheon, etc.)	Title and Brief Description	Attendance (IEEE members and Total)	Joint Activity Sponsors

Nov 20, 2018 Ottawa	Workshop	TISP STEM Workshop	3 IEEE 9 Total	Christie Lake Kids
Jan 15, 2019 Ottawa	Workshop	TISP STEM Workshop	3 IEEE 9 Total	Christie Lake Kids
Jan 22, 2019 Ottawa	Workshop	TISP STEM Workshop	3 IEEE 9 Total	Christie Lake Kids
Jan 29, 2019 Ottawa	Workshop	TISP STEM Workshop	3 IEEE 9 Total	Christie Lake Kids
April 10, 2019 Ottawa	Workshop	TISP STEM Workshop	3 IEEE 9 Total	Christie Lake Kids
April 17, 2019 Ottawa	Workshop	TISP STEM Workshop	3 IEEE 9 Total	Christie Lake Kids
April 24, 2019 Ottawa	Workshop	TISP STEM Workshop	3 IEEE 9 Total	Christie Lake Kids
July 4, 2019 Perth	Workshop	TISP Summer STEM Workshop	5 IEEE 14 Total	Christie Lake Kids
July 23, 2019 Perth	Workshop	TISP Summer STEM Workshop	5 IEEE 18 Total	Christie Lake Kids
Aug 6, 2019 Perth	Workshop	TISP Summer STEM Workshop	5 IEEE 18 Total	Christie Lake Kids
Sept 24, 2019 Ottawa	Workshop	TISP STEM Workshop	2 IEEE TBD Total	Christie Lake Kids
Oct 1, 2019 Ottawa	Workshop	TISP STEM Workshop	2 IEEE TBD Total	Christie Lake Kids
Oct 8, 2019 Ottawa	Workshop	TISP STEM Workshop	2 IEEE TBD Total	Christie Lake Kids

3. Chapter reports

AESS – Aerospace and Electronics Systems Society

Chair: Sreeraman Rajan

Refer to vTools reporting.

AP/MTT - Joint Chapter of Antennas and Propagation Society Microwave Theory & Techniques Society

Chair: Qingsheng Zeng, qingshengzeng03@163.com

Vice Chair: Leonard Petrie, petrie@rogers.com

Secretary: Yuming Tao, Yuming_Tao@pmc-sierra.com

Refer to vTools reporting.

CI /SMC - Joint Chapter of Computational Intelligence and Systems, Man and Cybernetics Societies

Chair: Dr. Rafael Falcon

Vice Chair: Dr. Julio Valdes

Website: <http://ieeeottawa.ca/ci/>

Total Number of Technical Meetings:

This Year (2019): 6

Last Year (2018): 9

Activity Date, Time, Location	Activity Type (Tech Meeting, Workshop, DL, Social, Luncheon, etc.) and Brief Description	Title/Speaker or Workshop Name	Attendance IEEE/Total	Joint Activity Sponsors

Oct 15, 2018 (9:00 – 9:45 am), Les Suites Hotel, Ottawa	Canadian Tracking and Fusion Group's 2018 Workshop (CTFG 2018)	Post-SSE Fusion and Sensing Challenges (Air) / Dale Reding, Director, <i>General Science and Technology Air Force and Navy (DGSTAN)</i> , DND Canada	17/42	Canadian Tracking and Fusion Group
Oct 15, 2018 (14:00 – 14:45 am), Les Suites Hotel, Ottawa	Canadian Tracking and Fusion Group's 2018 Workshop (CTFG 2018)	Forty years of distributed filtering / Chee-Yee Chong, <i>Independent Consultant, U.S.A.</i>	18/45	Canadian Tracking and Fusion Group
Oct 16, 2018 (9:00 – 9:45 am), Les Suites Hotel, Ottawa	Canadian Tracking and Fusion Group's 2018 Workshop (CTFG 2018)	Higher level fusion and situation management: challenges and computational approaches/ Galina Rogova, <i>Research Professor, The State University of New York at Buffalo, U.S.A.</i>	19/46	Canadian Tracking and Fusion Group

Apr 24, 2019 (6:30 – 8:30 pm), Room CBY-A707 School of Electrical Engineering and Computer Science University of Ottawa	Technical Talk	Understanding the Transition of Data Scientist from Academia to Industry / Chris Bildfell, Ali Wytsma and Rafael Falcon, Shopify Inc.	20/75	University of Ottawa's Computer Science Graduate Student Association and University of Ottawa's Electronic Business Technologies Student Association (EBTSA)
May 30, 2019 (6:30 – 8:30 pm), Room CBY-A707 School of Electrical Engineering and Computer Science University of Ottawa	Distinguished Lecturer Technical Talk	Recent Results and Open Problems in Evolutionary Multi-Objective Optimization / Professor Carlos Coello CINVESTAV, Mexico IEEE CIS Distinguished Lecturer	8/19	University of Ottawa's Computer Science Graduate Student Association

List of unique events held, sponsored or organized such as symposia, conferences, educational programs, job fairs, competitions etc.

- The Chapter was a proud sponsor of the Sixth Canadian Tracking and Fusion Group Workshop (CTFG Workshop 2018) which was held in Ottawa on October 15-16, 2018 (<http://www.ctfg.ca/workshop2018>).
- The Chapter held 1 CIS Distinguished Lecturer technical talk.

List of proposed unique events that are to be held next year

CS – Computer Society

Chair: Eric Karmouch, ekarmouch@ieee.org

Vice Chair: Michael Lalonde michael.lalonde@ieee.org

Website: <https://site.ieee.org/ottawa-cs/>

List of Activities

Total Number of Technical Meetings:

This Year (2019): 4

Last Year (2018): 7

Date, Time, Location	Type (<i>Tech Meeting, Workshop, DL, Social, Luncheon, etc.</i>)	Title and Brief Description	Attendance (<i>IEEE members and Total</i>)	Joint Activity Sponsors
Date: 02 May 2019 Time: 11:30 AM to 01:00 PM Location: Mitel 350 Legget Dr. Kanata, Ontario Canada K2K 2W7	IEEE Ottawa L&L	PERSPECTIVES ON AI, THE FUTURE IMPACT ON ENGINEERING, SCIENCE AND TECHNOLOGY Robin Grosset Chief Technology Officer, MindBridge AI	IEEE Attended: 24 Total Attended: 109	Co-sponsored by IEEE Ottawa ComSoc, CESoc, and BTS Joint Chapter, IEEE Ottawa Alliance of IEEE Consultant Network, IEEE Ottawa TMC, PCS, and SSIT Joint Chapter

Date: 20 Jun 2019 Time: 11:30 AM to 01:00 PM Location: CENG Centre for Next Generation Network 555 Legget Drive building A, Suite 600 Kanata, Ontario Canada K2K 2W7	IEEE Ottawa L&L	STATUS OF THE INTERNET IN CANADA AND THE IMPORTANCE OF CANADIAN IXP'S JACQUES LATOUR Chief Technology Officer, CIRA/.CA	IEEE Attended: 24 Total Attended: 84	Co-sponsored by IEEE Ottawa ComSoc, CESoc, and BTS Joint Chapter, IEEE Ottawa Alliance of IEEE Consultant Network, IEEE Ottawa TMC, PCS, and SSIT Joint Chapter
Date: 11 Sep 2019 Time: 11:00 AM to 01:00 PM Location: You.i TV HQ 307 Legget Dr, Kanata Kanata, Ontario Canada K2K 3C8	IEEE Ottawa L&L	"DIGITAL TWINS - THE NEXT GENERATION CLONING OF PHYSICAL SYSTEMS" RAJESH THUKRAL, DIRECTOR, DIGITAL BUSINESS TRANSFORMATIONS, AVALERIS	IEEE Attended: 25 Guests Attended: 85	Co-sponsored by IEEE Ottawa ComSoc, CESoc, and BTS Joint Chapter, IEEE Ottawa Alliance of IEEE Consultant Network, IEEE Ottawa TMC, PCS, and SSIT Joint Chapter

Date: Nov. 6, 2019 Time: TBD Location: Carleton University	DVP	"What Self-Organizing Neural Nets Assume About Real Cell-Cell Communication" Dr. Bernard P. Zeigler		
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List of notable events held, sponsored or organized such as symposia, conferences, educational programs, job fairs, competitions etc.

- IEEE Ottawa Lunch and Learn is an initiative to bridge the gap and derive synergy between Ottawa industry, academia, and government. The initiative, on a monthly basis, brings a speaker from either industry, academia, or government to the heart of the Kanata Tech Hub.

List of special or unique events that are to be held next year

- Continuation of IEEE Ottawa Lunch and Learn

ComSoc, /BTS /CES - Joint Chapter of Communications Society, Broadcast Technology Society and Consumer Electronics Society

Chair: Wahab Almuhtadi

Vice Chair: Claude Brule, brulec@algonquincollege.com

Secretary: Raed Abdullah, RaedAbdullah@ieee.org

Membership Development: Tony Khoury, tkhoury@ieee.org

Refer to vTools reporting.

CPMT - Components, Packaging and Manufacturing Technology Society

Chair: Qijun Zhang, qijun.zhang@carleton.ca

Refer to vTools reporting.

DEIS - Joint Ottawa-Montreal Chapter of Dielectrics and Electrical Insulation Society

Chair: Refat Ghunem, Refat.Ghunem@nrc-cnrc.gc.ca

Refer to vTools reporting.

EDS/CAS/SSCS - Joint Chapter of Electron Devices Society, Circuits and Systems Society, and Solid-State Circuits Society

Chair: Ram Achar, achar@doe.carleton.ca

Refer to vTools reporting.

EMC - Electromagnetic Compatibility Society

Chair: Syed Bokhari, bokhari@ieee.org

Vice Chair: Qiubo Ye, qiubo.ye.1997@ieee.org

Website: <http://www.ieeeottawa.ca/emcs/>

List of Activities

Total Number of Technical Meetings:

This Year (2019): 2

Last Year (2018): 2

Date, Time, Location	Type (Tech Meeting, Workshop, DL, Social, Luncheon, etc.)	Title and Brief Description	Attendance (IEEE members and Total)	Joint Activity Sponsors
Wednesday July 17, 2019 5PM to 6PM	Tech Meeting	Speaker: Hisham Abed, Ericsson Topic : Power Integrity - Best design practices	8 IEEE 22 Total	IEEE CPMT Chapter, IEEE ED/CAS/SSCS chapters

Wednesday July 17, 2019 6:30 PM to 7:30PM	DL Presentation	Dr. Ihsan Erdin, Celestica, Ottawa Topic: Power Integrity Optimization amidst MLCC shortage	8 IEEE 22 Total	IEEE CPMT Chapter, IEEE ED/CAS/SSCS chapters
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EMBS - Engineering in Medicine and Biology Society

Chair: Dr. Sreeraman Rajan, sreeraman@ieee.org

Vice Chair: Vacant

Secretary: Dr. Yuu Ono, yuuno@sce.carleton.ca

Website: www.ieeeottawa.ca/embs

Refer to vTools reporting.

IMS - Instrumentation and Measurement Society

Chair: Voicu Groza, vgroza@uottawa.ca

Vice Chair: Branislav Djokic, branislav@ieee.org

Website: <http://www.ieeeottawa.ca/ims/>

Refer to vTools reporting.

PHO – Photonics Society

Chair: Karin Hinzer, khinzer@uottawa.ca

Vice Chair: Winnie Ye, winnie.ye@carleton.ca

Treasurer: John Bernard john.Bernard@nrc-cnrc.gc.ca

Past Chair: Kexing Liu kexing.liu@ieee.org

Senior Past Chair: John Alcock john.Alcock@nrc-cnrc.gc.ca

Website: <http://www.ieeeottawa.ca/leos/>

Refer to vTools reporting.

PES - Power and Energy Society

Chair: Branislav Djokic, branislav@ieee.org

Vice Chair: Ajit Pardasani ajit.pardasani@ieee.org

Secretary: Shamsodin Taheri shamsodin.taheri@gmail.com

Treasurer: Raed Abdullah

Past Chair: Wahab Almuhtadi almuhtadi@ieee.org

Webmaster: Wahab Almuhtadi almuhtadi@ieee.org

Refer to vTools reporting.

RAS/CSS - Joint Chapter of Robotics & Automation, and Control Systems Societies

Chair: Jurek Sasiadek, jurek.sasiadek@carleton.ca

Vice Chair: Marek Zaremba marek.Zaremba@uqo.ca

Refer to vTools reporting.

R/PEL - Reliability Society & Power Electronics Society Joint Ottawa Chapter (R-PEL)

Chair: Raed Abdullah (raedabdullah@ieee.org)

Vice Chair: Tanya Gacjhovska (tgachovska@yahoo.com)

Secretary: Rachel Belcher

Total Number of Technical Meetings:

This Year (2019): 2

Last Year (2018): 3

Date, Time, Location	Type (Tech Meeting, Workshop, DL, Social, Luncheon, etc.)	Title and Brief Description	Attendance (IEEE members and Total)	Joint Activity Sponsors

March 14th 2019 18:00- 20:00. Algonquin College, T- Building, Room T129, 1385 Woodroffe Ave., Ottawa	Seminar	Opportunities and Design Considerations for GaN HEMTs in Industrial and Automotive Applications by Juncheng (Lucas) Lu	5/10	, PELS, PELS Student Chapter, RS-PEL, PES, Education Activities, Algonquin College IEEE Student Branch, ComSoc, CESoc, and BTS Ottawa Joint Chapter
6/20/2019 Solantro Semiconductors	seminar + tour	The Future of Power Electronics: wide bandgap devices and advanced digital power processors: Tanya Gachovska and Chris Winkler	10/37	IEEE Reliability Society & Power Electronics Society Joint Ottawa Chapter, PELS Student Chapter

SP/OE/GRS - Joint Chapter of Signal Processing, Oceanic Engineering, and Geoscience and Remote Sensing

Chair: Yifeng Zhou, yifeng.zhou@outlook.com

Website: <http://www.ieeeottawa.ca/grsoesp/>

Refer to vTools reporting.

VTs - Vehicular Technology Society

Chair: Richard Yu, Richard.yu@carleton.ca

Refer to vTools reporting.

4. Affinity Reports

AICN - Alliance of IEEE Consultant Network

Chair: Bhagvat Joshi, bjoshi@ieee.org

Vice Chair: Mike Bourassa, michael.bourassa@ieee.org

Website: <http://www.ieeeottawa.ca/aicn/about/>

Total Number of Technical Meetings:

This Year (2019): 1

Last Year (2018): 1

Date, Time, Location	Type (Tech Meeting, Workshop, DL, Social, Luncheon, etc.)	Title and Brief Description	Attendance (IEEE members and Total)	Joint Activity Sponsors
1 Nov 2018 7:30 PM RA Center	Tech Meeting	Artificial Intelligence Artificial Intelligence (AI) between facts and fiction": Speaker: Alexey Godon	15/26	IET,PEO
2 May 2019 7:30 PM RA Center	Tech Meeting	Overview of LoRAWAN and IoT:Speaker: André Gagnon	8/13	IET,PEO

List of special or unique events that are to be held next year

- Planning events on starting own consulting business and tax implications for consultants.

YP – Young Professionals

Chair: Zied Boudia boudiazied@ieee.org

Vice Chair: AnastassiaGharib@ieee.org

Secretary: Satyake Bakshi

Website: <http://site.ieee.org/ottawa-yp/>

Total Number of Technical Meetings:

This Year (2019): 5

Last Year (2018): 10

Date, Time (Start Time in 24H format used), Location	Type (Tech Meeting, Workshop, DL, Social, Luncheon, etc.)	Title and Brief Description	Attendance (IEEE members and Total)	Joint Activity Sponsors
10/25/2018 18:00 Carleton University, Mackenzie building,	Technical Meeting	IEEE YP Ottawa Team expansion.	17 Total Attendees including 15 IEEE Members	
11/28/2018 16:00 1125 Colonel By, Carleton University,	DL Seminar	YP Seminar: Simultaneous Wireless Information and Power Transfer (SWIPT) with Nonlinear Energy Harvesting	40 Total Attendees including 25 IEEE Members	Co-Sponsored by the Systems and Computer Engineering Department at Carleton University
2/7/2019 10:00 The Maker Lab, 4463 ME (Mackenzie Building), SCE Department,	DL Seminar, Workshop	CARLETON WORKSHOP ON CONNECTED AND AUTONOMOUS AERIAL NETWORKS	64 Total Attendees including 26 IEEE Members	Received Funding from Young Professionals Global (360\$ Transferred to Ottawa Section)

University,				
3/1/2019 18:00 Carleton University, Mackenzie building, Ottawa, Ontario, Canada	Conference Volunteering	IEEE YP Ottawa Team Meeting to Confirm Volunteers for WiSEE 2019 Conference and Other upcoming events	16 Total Attendees including 14 IEEE Members	
3/5/2019 18:00 Carleton University, Mackenzie building, Ottawa, Ontario, Canada	Technical Meeting	IEEE YP Ottawa Executive Meeting to prepare and apply for funding for the upcoming events	6 Total Attendees including 6 IEEE Members	
3/6/2019 13:00 The University of Ottawa, STEM Complex, Ottawa, Ontario, Canada	Poster Competition Volunteering	IEEE YP Ottawa Providing Judges at Ottawa University Graduate Research Poster Competition	2 IEEE Members (Poster Judges)	The University of Ottawa, IEEE Ottawa Section
3/13/2019 9:30 The Maker Lab, 4463 ME (Mackenzie Building), SCE Department,	DL Seminar	CARLETON WORKSHOP ON AI, MACHINE LEARNING AND DATA ANALYTICS FOR	68 Total Attendees including 48 IEEE Members	Received Funding from Young Professionals Global (600\$ Transferred to Ottawa Section)

University,		ON NETWORKS		
3/26/2019 8:00 1125 COLONEL BY DRIVE, OTTAWA, Ontario, Canada	Conference Volunteering	IEEE Table and IEEE YP Volunteering at Carleton University's Data Day	20 Total Attendees including 15 IEEE Members	
4/2/2019 18:00 Carleton University, 1125 Colonel By Drive,	DL Seminar	Machine Learning Seminar: "ML for Time Series Prediction in Smart Grids: Summerside Electric Use Case"	15 Total Attendees including 10 IEEE Members	
4/3/2019 T- Building, School of Advanced Technolog y, Algonquin College	DL Seminar	Security in SDN/NFV and 5G Networks- Opportunities and Challenges by Dr. Ashutosh Dutta,	25 Total Attendees including 20 IEEE Members	IEEE ComSoc/ CESoc/ BTS
4/30/2019 18:00	DL Seminar	Blockchain Seminar:	9 Total Attendees including 5 IEEE	

University, 1125 Colonel By Drive,		Digital assets: Introduction and Regulations"		
5/28/2019 8:30 Summerhays Restaurent, 1971 Baseline Rd, Ottawa, Ontario, Canada	Conference Planning	IEEE YPs Take part of the IEEE Section Congress 2020 Team: First meeting: Ottawa Section Affinity Group, YP	6 Total Attendees including 6 IEEE Members	IEEE Ottawa Section
5/30/2019 11:00 The University of Ottawa, STE Building, Ottawa, Ontario, Canada	Providing Registration Team and Volunteers for IEEE WiSEE Conference	IEEE YPs Volunteers for WiSEE 2019 Conference Meeting with conference Chairs	20 Total Attendees including 20 IEEE Members	
6/3/2019 18:00 Carleton University, Mackenzie building,	Technical Meeting	IEEE YP Ottawa Executive Meeting for Summer planning and Team	8 Total Attendees including 6 IEEE Members	

Ottawa, Ontario, Canada		Expansion		
6/20/2019 13:00 Carleton University,	DL Seminar	Smart Villages: When Connectivity	25 including 12 IEEE Members	Sponsored by Carleton University IoT Lab
1125 Colonel by Drive,		Meets Affordabili ty		
6/22/2019	YP volunteering with Other Societies	YPs participated at the annual Amateur Radio Field Day on June 22 with Ottawa Valley Mobile Radio Club Incorporated	2 YPs attending, volunteering, and make hamradio field Day communication s.	
7/7/2019 19:00 Starbucks 2222 Carling, Ottawa, ON K2A 1H3	Social and Technical Workshop	Transmission of Video using IoT and SDR devices	4 including 4 IEEE Members	Sponsored by the presenter (working at DND and organizing a workshop October 29th

9/7/2019 W. Erskine Johnston Arena on the North end of the Carp Fairgroun ds, on Carp Road.	YP volunteering with Other Societies	YP participation and volunteering at the Ottawa Amateur Radio Club (OARC) 23 rd Annual Hamfest	4 YPs Volunteering	
10/15/2019 to 10/18/2019 The University of Ottawa	Taking part of Conference Organizing Committee	Eight IEEE Ottawa YPs taking part of the IEEE WiSEE registration Team at WiSEE 2019 Conference	6 YPs actively involved with the WiSEE registration committee including the registration Chair	
10/16/2019 18:00 Sidedoor Restaurant , 18b York St,	Social Networking Event	IEEE Young Professionals Reception at the 2019 WiSEE Conference	Planned for 40 IEEE Members	Sponsored by IEEE Canada YP and WiSEE Organizing Committee
10/29/2019 Carleton Universi ty	Workshop	SDR Workshop presented by Mike Kennedy (DND)	Planned for 20 to 30 Attendees	

Awards and Recognitions

- IEEE Ottawa YPAG has been nominated to the 2019 IEEE YP Hall of fame Award.
- IEEE Ottawa YPAG's Chair has started serving as IEEE Canada YP Chair. This new position has been granted in part due to the high activity and involvement of IEEE Ottawa YP during the previous years.
- IEEE Ottawa YPAG's Vice-Chair has been selected for an MGA Award. This has been awarded in part thanks to the high activity and involvement of IEEE Ottawa YP during the last year.
- IEEE Ottawa YPAG Chair has been nominated to the 2019 IEEE MGA Young Professionals Achievement Award.
- IEEE Ottawa YPAG was recognized in 2018 by IEEE Canada YP's previous Chair as follows: "The Ottawa Young Professionals affinity group has had a significant increase in activity. Last year this group hosted

2 events whereas this year to date they have hosted 10 events attracting nearly 200 attendees. This group has also received the outstanding affinity group award from the Ottawa section.”

- Based on the YP Global report, IEEE Ottawa YP affinity group is the most active YPAG in Canada with a significant difference compared to the other YPAGs.

List of notable events held, sponsored or organized such as symposia, conferences, educational programs, job fairs, competitions, etc

IEEE Young Professionals represent an international community of enthusiastic, dynamic, and innovative members and volunteers. YPs are committed to helping early-career technical professionals grow into the leaders of tomorrow.

The programs we develop and offer to the next generation of IEEE helps them to build the skills necessary to be successful in their careers while expanding their ability to give back to other IEEE members. This development is achieved in IEEE Ottawa YPAG through the organized and sponsored events. The itemized list of these notable events organized by Ottawa YPs are:

- Active involvement with the IEEE Ottawa Section by providing volunteers and support.
- Network with other affinity groups and chapters locally and nationally to provide volunteers and organize joint events.
- Attract distinguished speakers from Academia and the Industry to give seminar on exciting and novel topics that help YPs in their research and careers. These topics include Machine Learning, Data Analytics, Future Networks, 5G and Beyond, Smart Grids, Cybersecurity, aerial communications, and power transfer.
- Support and provide sponsorship to attend international professional development conferences. Three Ottawa YPs have participated at the IEEE Rising Stars 2019 and EVO2019 conferences. The funding has been coordinated by Ottawa YPs and covered by IEEE Canada.
- Actively provide volunteers for local significant university events and IEEE conferences taking place in Ottawa. Ottawa YPs have been the first source of volunteers for Carleton University's Data Day, Carleton University's life science Day, the University of Ottawa poster competition, IoT613 Conference, IEEE WiSEE2019 conference, and IEEE GlobalSIP conference.
- Ottawa YPs organize IEEE technical events, professional development activities, workshops, and seminars. The diversity of these events brings benefits to YPs with diverse backgrounds and interests.
- IEEE Ottawa YPs do not limit their collaborations and activities with IEEE but also support IEEE Other societies initiative by organizing events and volunteering with non-IEEE societies. The collaborations include the Ottawa Amateur Radio Club (OARC), Ottawa Valley Mobile Radio Club (OVMRC), IoT613 organizing Committee, the Institution of Engineering and Technology (IET), and Universities in Ottawa.

List of special or unique events that are to be held next year

While the focus of Ottawa YPs for the previous years was on organizing IEEE technical events, professional development activities, workshops, and seminars, the focus for next year is as follows:

- Create more connections and events with the industry.
- Implement the micro-volunteering platform which increases the number of events and the learning outcomes.
- Organize more educational programs, job fairs, and competitions.
- Initiate more social and networking events to attract more people to IEEE.
- Continue on improving the Website, Social media interactions, and the Newsletter.
- Contribute to the Success on the Section Congress by providing volunteers and organizing a social event for YPs attending the Congress.

WiE – Women in Engineering**Chair:** Winnie Ye, winnie.ye@carleton.ca**Vice Chair:** Anastassia Gharib AnastassiaGharib@cmail.carleton.ca**Secretary:** Sana Abou Shaaban sana.absh@gmail.com**Website:** <http://www.ieeeottawa.ca/wie/>

Total Number of Technical Meetings:

This Year (2019): 23

Last Year (2018): 5

Date, Time, Location	Type (Tech Meeting, Workshop, DL, Social, Luncheon, etc.)	Title and Brief Description	Attendanc e (IEEE members and Total)	Joint Activity Sponsors
Date: 14 Mar 2019 Time: 04:00 PM to 07:00 PM Carleton University	Competition: Papers Night	Participation in Judging for the Internal Competition of the PEO Papers Night at Carleton University	1/20	Carleton University
Date: 19 Mar 2019 Time: 06:00 PM to 07:30 PM Carleton University	Seminars: Project management	Series of Risk and Project Managements Seminars - #1 Risk Management (RM)	5/19	
Date: 26 Mar 2019 Time: 06:00 PM to 07:30 PM Carleton University	Seminars: Project management	Series of Risk and Project Managements Seminars - #2 Business Continuity Management (BCM)	2/11	
Date: 08 Apr 2019 Time: 05:30 PM to 06:00 PM Carleton University	Meeting	Technical meeting	9/10	

Date: 08 Apr 2019 Time: 06:00 PM to 07:30 PM Carleton University	Seminars: Cybersecurity	Cybersecurity Evaluation and Assurance for IoT-Enabled Systems	20/28	
Date: 01 May 2019 Time: 09:00 AM to 05:00 PM Carleton University	Full Day Event for science and engineering research. Held by Carleton University	Life Sciences Day 3.0	50/500	Carleton University
Date: 02 May 2019 Time: 02:00 PM to 03:30 PM Carleton University	Seminar: Photonics	Photonic Circuit Design Using Artificial Neural Networks	4/7	
Date: 10 May 2019 Time: 04:00 PM to 06:00 PM Carleton University	Meeting	Technical Meeting	2/2	
Date: 15 May 2019 Time: 06:00 PM to 07:30 PM Carleton University	Seminar: AI and Machines	Managing the development of AI and Machines that learn	7/11	
Date: 21 May 2019 Time: 04:30 PM to 05:30 PM Carleton University	Meeting	IEEE WIE Technical Meeting	6/6	
Date: 21 May 2019 Time: 06:00 PM to 07:30 PM Carleton University	Seminar: IBM Cognos	Introduction to IBM Cognos Analytics 11.1	13/17	
Date: 25 May 2019 Time: 07:00 PM to 09:45 PM Carleton University	IEEE WIE Dinner	Fast-a-Thon. Speaker: Professor Halim Yanikomeroglu	10/250	
Date: 01 June 2019 Time: 05:00 PM to 06:00 PM Carleton University	Meeting	IEEE WIE Technical Meeting	6/7	

Date: 28 June 2019 Time: 03:00 PM to 04:10 PM Ottawa Ontario	Meeting	Planning meeting with IEEE WIE Ottawa Section Chair	2/2	
Date: 03 July - 05 July 2019 Time: 09:00 AM to 08:00 PM 55 Colonel By Dr, Ottawa, ON	Conference	Fusion 2019. International conference of information Fusion.	20/100	
Date: 17 July 2019 Time: 06:00 PM to 07:15 PM Carleton University	Seminar	GNSS Antennas for Autonomous Vehicles Seminar	12/21	
Date: 19 Aug 2019 Time: 06:00 PM to 07:30 PM Carleton University	Seminar	A talk by the president and CEO of OcuXcel Corporation, Dr Kexing Liu, entitled "Recent Advances in Retinal Imaging!"	14/25	
Date: 27 Aug 2019 Time: 05:00 PM to 07:00 PM Britannia Beach	Outdoor Activity	IEEE WIE Volleyball	3/6	
Date: 19 Sep 2019 Time: 06:00 PM to 08:00 PM Carleton University	STEM Panel	Engineering Diversity Workshop: Women in STEM Panel	20/40	Joint event with: IEEE Women in Engineering Carleton and CSES Carleton
Date: 24 Sep 2019 Time: 06:00 PM to 07:00 PM Carleton University	Meeting	IEEE WIE Executive Meeting	5/5	

Date: 7 Oct 2019 Time: 09:30 PM to 11:00 PM Carleton University	Seminar	Invited Speaker: Photonics-based measurement for broadband cognitive radio	4/7	Joint event with: IEEE Photonics Society Ottawa Chapter, Carleton University SPIE Student Chapter Ottawa-Carleton University OSA Student Chapter
Date: 2 Nov 2019 Time: 12:00 PM to 2:00 PM Carleton University	Seminar with Lunch	IEEE WIE Lunch and Learn with Dr Jason Jaskolka	TBD (estimated 20/25)	
TBD (Estimated October at Carleton University)	Technical meeting	IEEE WIE Volunteering Orientation Day	TBD (estimated 10/20)	
TBD (Estimated November at Carleton University)	Technical Meeting	IEEE WIE Wine & Cheese meeting with WIE student chapters	TBD (estimated 10/10)	

List of notable events held, sponsored or organized such as symposia, conferences, educational programs, job fairs, competitions etc.

- Cybersecurity Evaluation and Assurance for IoT-Enabled Systems by Professor Jaskolka
- Engineering Diversity Workshop: Women in STEM Panel
- IEEE WIE Lunch and Learn with Dr Jason Jaskolka

List of special or unique events that are to be held next year

- IEEE WIE Panel on Congress 2020
- IEEE WIE Workshop for High School: "Introduce a Girl to Engineering"
- Annual IEEE WIE Wine & Cheese

5. IEEE Ottawa Section Executive 2019

The current IEEE Ottawa Section executive officers are as follows:

Chair: Winnie Ye

Vice Chair: Ajit Paradasani

Treasurer: Abdulhak Nagy

Secretary: Travis Jardine

Past Chair: Anissa Shaddy

6. IEEE Ottawa Section Elections for 2020 Executives

The IEEE Ottawa Section Nominations and Appointments Committee proposes the following nominees, who have agreed to serve, if elected, as the 2020 IEEE Ottawa Section Executive.

IEEE Ottawa Section Executive Slate:

Chair: Dr. Winnie Ye

Vice-Chair: Mr. Ajit Pardasani

Treasurer: Ms. Sana Abou-Shaaban

Secretary: Mr. Abdulhak Nagy

The elections will be held during the AGM 2019 Business Part at 6:00PM.

7. List of 2020 Section Executives and Officers

Name	Position	Email
EXECUTIVES		
Dr. Winnie Ye	Chair	winnie.ye@ieee.org
Ajit Pardasani	Vice Chair	ajit.pardasani@ieee.org
Mr. Abdulhak Nagy	Secretary	abdulhak.nagy@carleton.ca
Sana Abou-Shaaban	Treasurer	sana.absh@gmail.com
Anissa Shaddy	Past Chair	anissa@ieee.org
COMMITTEES		
Annual General Meeting (AGM) Planning		
Ajit Pardasani	Chair	ajit.pardasani@ieee.org
Awards & Recognitions		
Wahab Almuhtadi	Chair	almuhtadi@ieee.org
[Ottawa Section Execs]	Members	Chair, Vice Chair, Secretary, Treasurer, Past Chair
Raed Abdullah	Member	raedabdullah@ieee.org
Bylaws		
Branislav Djokic	Chair	branislav@ieee.org
Kexing Liu	Vice Chair	kexing.liu@ieee.org
Publications		
Irusha Vidanamadura	Chair	irusha.vidanamadura.ca@ieee.org
Erdem Yanikomeroglu	Social Media	ErdemY_CA@ieee.org
Rishi Sharma	Webmaster	ismail.syed@ieee.carleton.ca
Educational Activities (EA)		
Branislav Djokic	Chair	branislav@ieee.org
Membership Development (MD)		
Sana Abou-Shaaban	Chair	sana.absh@gmail.com
Nominations and Appointments		

Wahab Almuhtadi		almuhtadi@ieee.org
Branislav Djokic		branislav@ieee.org
John Grefford		grefford@ieee.org
Tom Lavrisa		lavrisa@ieee.org
Ottawa Robotics Competition		
Kelly Xu	Co – Chair	orcinfo@ieeeottawa.ca
Imman Jami	Co – Chair	orcinfo@ieeeottawa.ca
Strategic Planning		
Raed Abdullah	Chair	raedabdullah@ieee.org
Sreeraman Rajan		sreeraman@ieee.org
Wahab Almuhtadi		almuhtadi@ieee.org
Branislav Djokic		branislav@ieee.org
Teacher in Service Program (TISP)		
Wolfram Lunscher	Chair	wlunscher@gmail.com
Senior Membership		
Sreeraman Rajan	Chair	sreeraman@ieee.org
Bhashyam Balaji	Vice – Chair	
Conference		
Wolfram Lunscher	Chair	wlunscher@gmail.com
Wahab Almuhtadi		almuhtadi@ieee.org
Sreeraman Rajan		sreeraman@ieee.org
Raed Abdullah		raedabdullah@ieee.org
Life Member		
Wolfram Lunscher	Chair	wlunscher@gmail.com
Ottawa – Special Interest Group on Humanitarian Technology (SIGHT)		
Alfredo Herrera	Chair	alfredo.herrera@ieee.org
Sean Campeau	Vice Chair	sean.campeau.ca@ieee.org
Kin Y. Sze	OS-ARIS Project Lead	kinsze@ieee.org
TECHNICAL CHAPTERS		
AESS – Aerospace and Electronic Systems Society		

Qingsheng Zeng	Chair	qingsheng.zeng03@hotmail.com
Leonard Petrie	Vice Chair	petrie@rogers.com
Yuming Tao	Secretary	yuming.tao@pmcs.com
CI/SMC – Computational Intelligence Society / Systems, Man and Cybernetics Society Joint Chapter		
Rafael Falcon	Chair	rfalcon@ieee.org
CS– Computer Society		
Eric Karmouch	Chair	ekarmouch@ieee.org
Matham Sabbagh	Vice Chair	Matham.sabbagh.ca@ieee.org
ComSoc, BTS & CES		
Wahab Almuhtadi	Chair	almuhtadi@ieee.org
Claude Brulé	Vice Chair	brulec@algonquincollege.com
Raed Abdullah	Secretary	RaedAbdullah@ieee.org
Tony Khoury	Membership Development	tkhoury@ieee.org
CPMT - Components, Packaging and Manufacturing Technology Society		
Qi-Jun Zhang	Chair	qjz@doe.carleton.ca
DEIS - Dielectrics and Electrical Insulation Society – Joint Ottawa-Montreal Chapter		
Refat Ghunem	Chair	Refat.Ghunem@nrc-cnrc.gc.ca
EDS, CAS & SSCS		
Ramachandra Achar	Chair	achar@doe.carleton.ca
Ihsan Erdin	Vice Chair	ierdin@ieee.org
EMC – Electromagnetic Compatibility Society		
Syed Bokhari	Chair	bokhari@ieee.org
Qiubo Ye	Vice Chair	quibo.ye@crc.ca
EMBS – Engineering in Medicine and Biology Society		
Sreeraman Rajan	Chair	sreeraman@ieee.org
Vacant	Vice Chair	
Andrew Law	Treasurer	andrew.law@nrc-cnrc.gc.ca

Branislav Djokic	Vice Chair	branislav@ieee.org
PHO- Photonics Society		
Karin Hinzer	Chair	khinzer@uottawa.ca
Winnie Ye	Vice Chair	winnie_ye@carleton.ca
John Bernard	Treasurer	john.bernard@nrc-cnrc.gc.ca
Kexing Liu	Past Chair	kexing.liu@ieee.org
John Alcock	Senior Past Chair	john.alcock@nrc-cnrc.gc.ca
PES - Power & Energy Society		
Wahab Almuhtadi	Past Chair	almuhtadi@ieee.org
Branislav Djokic	Chair	branislav@ieee.org
Shamsodin Taheri	Secretary	shamsodin.taheri@gmail.com
Raed Abdullah	Treasurer	raedabdullah@ieee.org
Ajit Pardasani	Vice Chair	ajit.pardasani@ieee.org
RAS / CSS - Robotics & Automation Society / Control System Society - Joint Chapter		
Jurek Sasiadek	Chair	jurek_sasiadek@carleton.ca
Marek Zaremba	Vice Chair	marek.zaremba@uqo.ca
R/PEL - Reliability Society / Power Electronics Society - Joint Chapter		
Raed Abdullah	Chair	raedabdullah@ieee.org
Tanya Gacjhovska	Vice Chair	tgachovska@yahoo.com
SP, OE & GRS		
Yifeng Zhou	Chair	yifeng.zhou@ieee.org
TEMS, PCS & SSIT		
Ray Barton	Chair (Temp)	ray.Barton@IEEE.org
VTS - Vehicular Technology Society		
Richard Yu	Chair	richard.yu@carleton.ca
AFFINITY GROUPS		
AICN - Alliance of IEEE Consultant Network		
Bhagvat Joshi	Chair	bjoshi@ieee.org

WIE – Women in Engineering		
Winnie Ye	Chair	winnie_ye@carleton.ca
Anastassia Gharib	Vice Chair	AnastassiaGharib@ieee.org
SIGHT (Special Interest Group on Humanitarian Technology)		
Alferdo Herrera		Alferdo.Herrera@ieee.org
STUDENT BRANCHES		
Student Branches Rep		
Alise Wang	Chair	alise.h.wang@ieee.org
Algonquin College		
Adama Bertrand	Chair	adamabertrand@cmail.carleton.ca
Ahmed Syed	Vice Chair	syed0059@algonquinlive.com
Alexandre Kocher	Secretary	koch0046@algonquinlive.com
Alex Lavoie	Treasurer	koch0046@algonquinlive.com
Stephanie Wyshnicki	Student Ambassador	wysh0001@algonquinlive.com
Carleton University		
Ahmed Sakr	Chair	chair@ieeecarleton.ca
Maninder Sapran	Co-Vice Chair	vicechair@ieeecarleton.ca
Dharina Hanmunthadu	Co-Vice Chair	covicechair@ieeecarleton.ca
Vacant	Secretary	
Valarie Figuracion	Treasurer	treasurer@ieeecarleton.ca
Federico Naranjo	Publications Director	publication.director@ieeecarleton.ca
Erdem Yanikomeroglu	Competitions Director	competitions@ieeecarleton.ca
Volunteers Director	Volunteers Director	volunteerdirector@ieecarleton.ca

Ariq Maclean	Social Director	social@ieeecarleton.ca
Hamas Waqar	Academic Director	academicdirector@ieeecarleton.ca
Vacant	SLAM Lead	
Aashna Narang	WIE Chair	wiechair@ieeecarleton.ca
Marisol Leunissen	WiE Vice Chair	wievicechair@ieeecarleton.ca
Calvin Plett	Faculty Advisor	cp@doe.carleton.ca
University of Ottawa		
Robert Conrad	Chair	chair@ieeeuottawa.ca
Amar Jasarbasic	Vice Chair	vice-chair@ieeeuottawa.ca
Kimberley Paradis	Secretary	secretary@ieee.carleton.ca
Sanat Nayar	Treasurer	treasurer@ieeeuottawa.ca
Nevin Ganesan	Webmaster	webmaster@ieee.carleton.ca
Scott Fulton	McNaughton Centre Director	mcnaughton@ieeeuottawa.ca
Michal Ridner	WIE-Chair	wie-chair@ieeeuottawa.ca
Shriya Gundala	WiE Vice Chair	Wie-vicechair@ieeeuottawa.ca
Tony Kim	VP Communications	communications@ieeeuottawa.ca
Marla Jazzar	VP Academics	academic@ieeeuottawa.ca
Madison Smrtka	VP Social	social@ieeeuottawa.ca
Tae Kim	VP Internal	internal@ieeeuottawa.ca
Mahyar Gorji	VP External	external@ieeeuottawa.ca
Heemel Saha	Student Advisor	advisor@ieeeuottawa.ca