





October 27, 2017

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## 1 IEEE Ottawa Section Chair's Report

I am please to start a new term as Section Chair for the Ottawa Section. During this term I plan to address the current load on our volunteers by automating manual tasks; increase our activity level in conferences, and increase our service to the community. We have plans to create an automation committee, have launched a Lunch and Learn series in Kanata North and are actively bidding and working on collaborations for conference opportunities.

This year, we have maintained our high level of activities by holding in excess of 100 technical talks, events and distinguished lecturers. I am pleased to commend the efforts of the Ottawa Robotics Competition by increasing attendance and growing the event to over 800% since inception. This event promotes STEM to young future scientists and engineers in grades 5-12. The have also crossed the gender gap with 30% participation from girls. Our Lunch and Learn series kicked off with a grand success. It is serving the Kanata high tech hub with monthly events that attract upwards of 100 attendees, providing members and guests with an opportunity to learn new and exciting technologies over their lunch hour. I would like to thank all of our volunteers for their dedication and commitment to IEEE and servicing their community.

## **2 Committee Reports**

## **Annual General Meeting (AGM) Planning Committee**

Chair: Alfredo Herrera, alfredo.herrera@ieee.org

This year's AGM provided a challenge to the section executive, due to the status of 2018's budget due to the lack of conferences. We scaled down how much we spent this year, but maintained a level of investment required for two main reasons: to reaffirm IEEE Ottawa's role as an enabler within the Ottawa high-tech community, to nurture the relationships needed to bring event and conferences to Ottawa that will improve the section's finances in the near future. An effort was made to streamline the AGM and banquet program to have extra time after the banquet to network and socialize. We welcome your input to continue improving this event.

## **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/

The Award Committee works closely with IEEE Ottawa Section chapters, committees, affinity groups, and student branches and encourages members, engineering community, academia and Industry to submit their nominations for the IEEE Ottawa Section Awards available on <a href="http://www.ieeeottawa.ca/about/awards-2/">http://www.ieeeottawa.ca/about/awards-2/</a>. The Award winners are announced every year at the IEEE Ottawa Section Annual General Meeting-AGM.

The winners for the 2016 IEEE Ottawa Section Awards are as follows:

#### **CORPORATE AWARDS**

## **Outstanding Information and Communications Technology Award:**

• **CENX** for its software solutions in transforming network big data into real-time actionable intelligence and accelerating end-to-end operations across multi-vendor, SDN and NFV networks.

#### **Outstanding High Technology Award:**

• **Spartan BioScience** for developing the world's smallest on-demand DNA testing system, enabling unprecedented portability and convenience.

#### **Outstanding Clean Technology Award:**

• Clearford Water Systems Inc. for its innovation in developing a novel wastewater collection and treatment system, and providing pay for performance delivery model.

#### **Appreciation Award:**

• **IBM** for its valuable support of the activities of IEEE Ottawa Robotics Competition.

#### **AGM KEYNOTE SPEAKER APPRECIATION**

• **Dr. Roseann O'Reilly Runte** for in appreciation of her contribution to the IEEE Ottawa Section as the AGM 2016 Keynote Speaker.

#### **RECOGNITION INDIVIDUALS**

#### **Outstanding Educator Award**

• **Dr. Jim Wight** for his outstanding contributions to education, research, innovation and entrepreneurship.

## **Outstanding Engineer Award**

• **Dr. Maurice O'Sullivan** for his outstanding contributions as a pioneer and leader in providing the technical development and elevating the performance boundary and innovation of the optical transport communications systems.

## **Outstanding Service Award**

- Mr. Mohamed Abdelazez for his outstanding leadership as Co-Chairs of the 2016 IEEE Engineering in Medicine and Biology Society International Student Conference.
- Ms. Zahra Mohammad for her outstanding leadership as Co-Chairs of the 2016 IEEE Engineering in Medicine and Biology Society International Student Conference.

#### **Outstanding Volunteer Award**

• Ms. Janet Davis for her contributions through the service as the Chair of IEEE Ottawa Section.

#### **RECOGNITION OTTAWA SECTION GROUPS**

#### **Outstanding Chapter Award:**

• Ottawa Joint Chapter of Communications Society, Broadcast Technology Society and Consumer Electronics Society for organizing and hosting international conferences and technical events, and promoting Institute, Society, Region, and Section..

#### **Outstanding Student Branch Award:**

• Carleton University IEEE Students Branch for organizing events, providing services, and increasing the Branch membership.

#### **Outstanding Committee Award:**

• Ottawa Alliance of IEEE Consultant Network for organizing technical and professional events.

## **Bylaws Committee**

Chair: Branislav Djokic <a href="mailto:branislav@ieee.org">branislav@ieee.org</a>
Vice - Chair: Kexing Liu <a href="mailto:Kexing.Liu@ieee.org">Kexing.Liu@ieee.org</a>

The document was reviewed and no changes were necessary.

## **Communications/ Publications Committee (CPC)**

Chair: Maytham Sabbagh, maytham.sabbagh.ca@ieee.org

Webmaster: Rishi Sharma, rishi.sharma.ca@ieee.org

Social Media: Emma Wang, emmawang@ieee.org

Best Practices						
Newsletters are consistently going out						
Social media outreach is increasing						
Website is always up-to-date						

## **Educational Activities (EA) Committee**

Chair: Branislav Djokic, branislav@ieee.org

Website: <a href="http://www.ieeeottawa.ca/ea/">http://www.ieeeottawa.ca/ea/</a>

Activity Date	Time	Location	Activity Type	Title/Speaker/Name of Workshop	Total Attendance	IEEE Attendanc e	Joint Activity Sponsors
Oct. 19, 2017,	18:3 0	Algonqui n College	Technical DL	"Role of Smart Building Energy Management Systems in the Development of a Smart City" / Prof. Dr. Saifur Rahman, Virginia Tech, Advanced Research Institute, USA	53	21	PE31, IM09, R07/PEL3 5, BT02/CE0 8/ COM19, AC SB

Oct. 19, 2017,	11:0 0	Algonqui n College	Technical DL	"Measurement, Control and Protection in a Robust Smart Grid with a Reference to Energy Management Systems for Smart Buildings in a Smart City" / Prof. Dr. Saifur Rahman, Virginia Tech, Advanced Research Institute, USA	25	6	PE31, IM09, R07/PEL3 5, BT02/CE0 8/ COM19, AC SB
Sept. 28, 2017	18 :3 0	Algonqui n College	Technical Talk	"Si, SiC, and GaN Power Semiconductor Devices – What to Choose?" / Dr. Tanya Gachovska, Solantro, Ottawa	27	16	CI/SMC, IM09,
Aug. 9, 2017	11:0 0	Universit y of Ottawa	DL Technical Talk	"Unobtrusive Smart Sensing and Pervasive Computing for Healthcare: Cardio- respiratory and Physical Therapy Assessment"/ Prof. Dr. Octavian Postolache, IMS DL, Instituto Universitario de Lisboa/ ISCTE-IUL, Portugal	20	11	IM09, CompSoc, CI/SMC, EMBS
Jun. 14, 2017	18:3 0	ALgonqui n College	DL Technical Talk	"Topology Preserving Maps: A Localization- Free Approach for 2-D and 3-D IoT Subnets" / Prof. Dr. Anura Jayasumana, Electrical	35	15	BT02/CE0 8/ COM19, EMB18, R07/PEL3

				and Computer Engineering, Colorado State University, USA			5, PHO36, AC SB
Mar. 15, 2017	18:3	Universit y of Ottawa	DL Technical Talk	"Evolutionary Many-Objective Optimization: Algorithms, Test Problems and Performance Indicators" / Hisao Ishibuchi, Professor, Graduate School of Engineering, Osaka Prefecture University	25	10	CI/SMC, IM09,
Jan. 24, 2017	14:0 0	NRC	Technical Talk	"Smart Cities"/ Dr. Tom Murad, Siemens Canada, Oakville, Ontario, Canada	32	13	PE31, IM09, R07/PEL3 5, BT02/CE0 8/ COM19, AC SB

## **Engineers-in-Transition (EiT) Committee**

Chair: Vacant

There is no report. This committee has been inactive.

## **Humanitarian Initiatives Committee (HIC) - SIGHT**

Chair: Alfredo Herrera

The Ottawa Special Interest Group on Humanitarian Technology (SIGHT) is seeking to transition. The section executive would like to see the Ottawa SIGHT return to its past activity level as it believes that within the Ottawa Section members there is a strong base to warrant successful contributions.

## **Industry Relations Committee**

Chair: Eric Karmouch

Industry relations committee has been working on increasing industry contacts and building relationships with Ottawa's tech sector.

## **Life Member Committee**

Chair: Wolfram Lunscher, wlunscher@gmail.com

There is nothing to report this year, but will have new items to discuss next year.

## **Membership Development (MD) Committee**

Chair: Anissa Shaddy, anissa@ieee.org

Vice Chair: Maryam Kaka, maryam.kaka.ca@ieee.org

## **Overview of Basic Entity Activities**

Activity Date	Time	Location	Activity Type	Title/Speaker/Name of Workshop	Total Attendance	IEEE Attendance	Joint Activity Sponsors
02/02/2017	06:30 PM	Hellenic Meeting and Reception Centre	Non- Technical	MD booth at SPAC	150	n/a	n/a
10/14/2016	05:30 PM	Shaw Centre	Non- Technical	MD booth at OS AGM	180	n/a	n/a
07/04/2017	11:00 AM	Marshes Golf Club	Non- Technical	MD booth at Lunch and Learn	100	n/a	n/a

## Award and/or Recognition

2017 Outstanding Membership Retention Performance

## **Nominations and Appointments**

Chair: Rami Abielmona rabielmo@ieee.org

Member: Sreeraman Rajan Sreeraman@ieee.org

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 <u>lavrisa@ieee.org</u>

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.

## Ottawa Robotics Competition (ORC) Committee

Co - Chair: Heidi Li

Co – Chair: David Huynh

#### **Total Number of Technical Meetings**

This Year	Last Year		
7	18		

Activity Date	Time	Location	Activity Type	Title/Speaker/ Name of Workshop	Total Attendance	IEEE Attendance	Joint Activity Sponsor s
02/22/201	09:00 AM	University of Ottawa, SITE 2060/2061	Workshop	Workshop #1	133	3	

02/25/201 7	10:00 AM	University of Ottawa, SITE 2060/2061	Workshop	Workshop #2	58	3	
04/27/201 7	09:00 AM	University of Ottawa, SITE 2060/2061	Workshop	Workshop #3	30	1	
04/29/201 7	10:00 AM	University of Ottawa, SITE 2060/2061	Workshop	Workshop #4	52	2	
05/06/201 7	09:00 AM	University of Ottawa, SITE 2060/2061	Workshop	Workshop #5	42	2	
05/13/201 7	09:00 AM	University of Ottawa, SITE 2060/2061	Workshop	Workshop #6	32	2	
05/27/201 7	07:00 AM	Longfields- Davidson Heights Secondary School	Competiti on Day	Competition Day	700	20	
06/13/201 7	07:00 PM	Father and Sons	Volunteer Appreciati on Party	Volunteer Appreciation Party	30	5	

Best Practices					
Greater investment in participants (greater subsidies)					
Greater investment in volunteers (for retention)					

Greater level of delegation through creation of new volunteer positions

Dedication to closing the gender gap in the competition and STEM fields alongside with industry partners like IBM

Co-Chairs dedicated to staying for successful leadership transition even with new academic endeavours

## Award and/or Recognition

ORC Co-Chairs featured on front page of Metro Ottawa newspaper (<a href="http://bit.ly/ORC17MetroOtt">http://bit.ly/ORC17MetroOtt</a>)

Volunteer appreciation party, ORC T-shirt, and volunteer certificate for competition day volunteers

#### **Unique Events**

Interactive demonstrations at VEX, FLL, First Robotics, and Destination Imagination events.

#### **Proposed Unique Events for Next Year**

Proposed Event	Motivation	Date(s)	Location	Organizing Entities	budget
Work Periods	Renamed from workshop to better reflect the nature of the event.	April 2018	University of Ottawa, SITE 2060/2061	ORC Committee	\$50/work period
Workshop	To hold workshops where students and/or teachers can be taught Lego Mindstorms, Arduino, or about other STEM related topics.	TBD	Carleton University	ORC Committee	\$0- 50/workshop

Robotics con	urther diversify the competition and to fill the ap for eliminating the King f the Hill Challenge.	May 2018	Longfields- Davidson Heights Secondary School	ORC Committee	\$0
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## **Senior Membership Committee**

Chair: Dr. Sreeraman Rajan

Vice Chair: Dr. Bhashyam Balaji

The Section had 13 Senior Member elevations from October 2016 to August 2017.

Ottawa Section	Calitoiu	Dragos
Ottawa Section	Chu	Ta-Ya
Ottawa Section	Crawhall	Robert
Ottawa Section	Genest	Marc
Ottawa Section	Gertsman	Michael
Ottawa Section	Griffin	Ryan
Ottawa Section	Ibnkahla	Mohamed
Ottawa Section	Jackson	Brad
Ottawa Section	Law	Andrew
Ottawa Section	Roberts	Kim
Ottawa Section	Ukwatta	Eranga
Ottawa Section	Ulrich	Steve

## **Strategic Planning (SP) Committee**

Chair: Barbara Waruszynski , <a href="mailto:b.waruszynski@sympatico.ca">b.waruszynski@sympatico.ca</a>

There is no report this year, although, the committee is committed to strategizing for the benefit of the Ottawa section. There will be more to report next year.

## **Teacher in Service Program (TISP) Committee**

Chair: Wolfram Lunscher,

Activity Date	Time	Location	Activity Type	Title/Speaker/ Name of Workshop	Total Attendance	IEEE Attendance	Joint Activity
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							Sponsor s
04/03/2017	05:30 PM	Dempsey Community Centre	TISP Lesson Plan Workshop	Robotic Arm Youth Workshop 1	10	Na	Christie Lake Kids
04/10/2017	05:30 PM	Dempsey Community Centre	TISP Lesson Plan Workshop	Robotic Arm Youth Workshop 1	10	Na	Christie Lake Kids
07/11/2017	10:00 AM	Christie Lake, Perth	TISP Summer Science Camp	Water Filtration Workshop 1	25	Na	Christie Lake Kids Cisco Cares
07/25/2017	10:00 AM	Christie Lake, Perth	TISP Summer Science Camp	Water Filtration Workshop 2	25	Na	Christie Lake Kids Cisco Cares
08/10/2017	10:00 AM	Christie Lake, Perth	TISP Summer Science Camp	Water Filtration Workshop 3	25	Na	Christie Lake Kids Cisco Cares

## 3 Chapter reports

**AESS - Aerospace and Electronics Systems Society** 

Chair: Hugh Reekie, h.reekie@ieee.org

## **Overview of Basic Entity Activities**

Activity Date	Time	Location	Activity Type	Title/Speaker/ Name of Workshop	Total Attendance	IEEE Attendance	Joint Activity Sponsor s
March	n/a	n/a	n/a	Vehicular Control	12	n/a	VTS
September	n/a	n/a	n/a	Lightening	60	n/a	IET - UK

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

Chair: Qingsheng Zeng, qingshengzeng03@163.com

Vice-Chair: Leonard Petrie, <a href="mailto:petrie@rogers.com">petrie@rogers.com</a>

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

Website: <a href="http://www.ieeeottawa.ca/ap\_mtt/home/">http://www.ieeeottawa.ca/ap\_mtt/home/</a>

Activity Date	Time	Location	Activity Type	Title/Speaker/ Name of Workshop	Total Attendance	IEEE Attendance	Joint Activity Sponsor s
10/02/2017	10:00 am	University of Ottawa	Technical	A Compact Dual-Band Beam- Sweeping Antenna Based on Active Frequency Selective Surface by Prof.	23	15	AP/MTT, EMC, CPMT, ComSoc/ BTS/CES, AESS and VTS Chapters

				Qingsheng Zeng			
28/09/2017	5:00 pm	Board Room Fidus Systems	IEEE Electroma gnetic Compatibil ity Society (EMC-S) Distinguish ed Lecture	Over-the-Air Measurements of Wireless Devices in Reverberation Chambers by Kris HATASHITA	16	10	AP/MTT, EMC and CPMT Chapters
11/10/2017	5:00 pm	Board Room Fidus Systems	IEEE Electroma gnetic Compatibil ity Society (EMC-S) Distinguish ed Lecture	The myth about GROUND by Dr. Zhiping Yang	28	18	AP/MTT, EMC and CPMT Chapters

#### **Best Practices**

I have attended 2017 IEEE AP-S International Symposium on Antennas and Propagation (2017 IEEE AP-S), San Diego, CA, USA, 9 – 15 July 2017, exchanged and experience and collaborated with other IEEE Sections and AP/MTT Chapters through face-to-face and interaction

I have attended 2017 Asia Pacific Conference on Antennas and Propagation (2017 APCAP), Xian, Shaanxi, China, 16 – 19 October 2017, exchanged and experience and collaborated with other IEEE Sections and AP/MTT Chapters through face-to-face and interaction

I have constantly been organizing events with Montreal, Kinston and Toronto AP/MTT Chapters

I have assisted our section in recruiting new IEEE members and elevating members to senior members and will be continuing to do so

I have been assisting our members in finding their new positions and employers in their recruitments

I have always co-organizing activities with other local chapters, educational institutions, governmental departments and companies, to set up and enhance the collaborations with them, attract more audience and serve more members

I have constantly been inviting speakers at different levels from graduate students to distinguished lecturers, to foster new engineers and entrepreneurs, improve the research quality and enhance the academic levels of local researchers

## Award and/or Recognition

Dr. Qingsheng Zeng has been a Technical Program Committee (TPC) Member, Invited Speaker and Chair of a Session "Measurement", a Reviewer for 2017 Asia Pacific Conference on Antennas and Propagation (2017 APCAP), Xian, Shaanxi, China, 16 – 19 October 2017

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

Chair: Rafael Falcon, rfalcon@ieee.org

#### **Joint Chapter Participating Societies**

Participating Society
IEEE Computational Intelligence Society
IEEE Systems, Man and Cybernetics Society

#### **Total Number of Technical Meetings**

This Year	Last Year

2017
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10	14

Activity Date	Time	Location	Activity Type	Title/Speaker/Nam e of Workshop	Total Attendanc e	IEEE Attendanc e	Joint Activity Sponsors
10/20/201 6	06:3 0 PM	Grad Student House University of Ottawa 601 Cumberlan d St	Technica I Talk	"Privacy, security and convenience: biometric encryption for smartphone-based electronic travel documents" / David Bissessar	25	5	
10/24/201 6	09:0 0 AM	Shaw Centre	Invited Talk	"All-Domain Situational Awareness S&T Program" / Pierre Lavoie/CTFG Workshop 2016	35	25	Canadian Tracking and Fusion Group (CTFG)
10/24/201 6	09:4 5 AM	Shaw Centre	Invited Talk	Canadian All-Source Maritime Domain Awareness System / Maria Rey and Andre Dupuis / CTFG Workshop 2016	30	25	Canadian Tracking and Fusion Group (CTFG)
10/24/201 6	10:5 0 AM	Shaw Centre	Invited Talk	ADSA Underwater Surveillance / Jim Chan / CTFG Workshop 2016	38	25	Canadian Tracking and Fusion Group (CTFG)

10/24/201 6	11:1 5 AM	Shaw Centre	Invited Talk	Designing and Developing a Data Fusion Capability into an IoT Framework / Jim Llinas / CTFG Workshop 2016	35	25	Canadian Tracking and Fusion Group (CTFG)
10/24/201 6	01:0 0 PM	Shaw Centre	Invited Talk	All Domain Situational Awareness and Information Fusion Technology: Achieving Agility / Jim Llinas / CTFG Workshop 2016	35	25	Canadian Tracking and Fusion Group (CTFG)
02/02/201	11:3 0 AM	Room 5084, School of Electrical Engineering and Computer Science, University of Ottawa	Technica I Talk	Capability-based force mix analysis with a multi-objective optimization example / Fred Ma and Slawomir Wesolkowski	6	6	UO's Computer Science Graduate Student Associatio n (CSGSA)
03/15/201 7	06:3 0 PM	Room 5084, School of Electrical Engineering and Computer Science, University of Ottawa	DL Technica I Talk	Evolutionary Many- Objective Optimization: Algorithms, Test Problems and Performance Indicators / Hisao Ishibuchi	8	8	UO's Computer Science Graduate Student Associatio n (CSGSA)

05/10/201 7	06:3 0 PM	Room 5084, School of Electrical Engineering and Computer Science, University of Ottawa	Technica I Talk	Automatic, Soft- Data-Augmented Course of Action Generation for Concurrent Security Operations in the Maritime Domain / Alex Plachkov	6	6	UO's Computer Science Graduate Student Associatio n (CSGSA)
08/09/201 7	11:0 0 AM	Room 5084, School of Electrical Engineering and Computer Science, University of Ottawa	Technica I Talk	Unobtrusive Smart Sensing and Pervasive Computing for Healthcare: Cardio- respiratory and Physical Therapy Assessment	10	5	IMS, EMBS
10/02/201 7	06:3 0 PM	Room 5084, School of Electrical Engineering and Computer Science, University of Ottawa	DL Technica I Talk	Turing and Super- Turing Computation / Hava Siegelmann	21	14	UO's Computer Science Graduate Student Associatio n (CSGSA)

## **Best Practices**

Have students involved in the meeting and choose venues accessible to them.

Advertise early and often for the events via e-Notices and the Ottawa Section newsletter.

## **Unique Events**

CTFG Workshop 2016

#### **Proposed Events for Next Year**

Proposed Event	Motivation	Date(s)	Location	Organizing Entities	budget
2 DL talks	Making DLs accessible to the chapter members and other interested people	One in the winter/spring, one in the summer/fall	EECS, University of Ottawa	CI/SMC, CompSoc, IMS, UOttawa's CSGSA	~ 250 each
Creation of the CIS student chapter within the UOttawa Student Branch	Spread CIS presence at UO SB	TBD	EECS, University of Ottawa	CI/SMC, UOttawa's CSGSA	TBD

## **CS - Computer Society**

Chair: Eric Karmouch, ekarmouch@ieee.org

This Chapter is part of the IEEE Ottawa Section and constitutes the Ottawa, Ontario, Canada representation of the IEEE Computer Society. IEEE is the world's leading professional association for the advancement of technology. Through its global membership, IEEE is a leading authority on areas ranging from aerospace systems, computers and telecommunications to biomedical engineering, electric power and consumer electronics among others.

#### **Total Number of Technical Meetings**

This Year	Last Year

11	8

Activity Date	Time	Location	Activity Type	Title/Speaker/Name of Workshop	Total Attendance	IEEE Attendance	Joint Activity Sponsors
11/17/2016	11:30 AM	Ottawa	Technical	Smart Surveillance Systems: Trends and Recent Research - Dr. Robert Laganiere Professor, University of Ottawa	50	20	IEEE Ottawa ComSoc, CESoc, and BTS Joint Chapter, IEEE Ottawa Alliance of IEEE Consultant Network, IEEE Ottawa TMC, PCS, and SSIT Joint Chapter
12/19/2016	11:30 AM	Ottawa	Technical	RF Technology for 5G Cellular Basestations – Dr. Thomas Cameron, CTO, Communications	70	40	IEEE Ottawa ComSoc, CESoc, and BTS Joint Chapter, IEEE Ottawa Alliance of IEEE

				Business Unit, Analog Devices			Consultant Network, IEEE Ottawa TMC, PCS, and SSIT Joint Chapter
03/07/2017	11:30 AM	Ottawa	Technical	Catching Bad Guys with Math: Real World Data Science Use Cases for Cyberattack Detection and Prevention - Stephan Jou, CTO, Interset	89	41	IEEE Ottawa ComSoc, CESoc, and BTS Joint Chapter, IEEE Ottawa Alliance of IEEE Consultant Network, IEEE Ottawa TMC, PCS, and SSIT Joint Chapter
03/15/2017	06:30 PM	Ottawa	Technical	DL Technical Talk: "Evolutionary Many- Objective Optimization: Algorithms, Test Problems and Performance Indicators"	16	8	IM09; CIS11/SMC28; UOttawa Computer Science Grad Student Association
04/04/2017	11:00 AM	Ottawa	Technical	IEEE Ottawa L&L: Internet of Things - Things You Need to Know - Walter Knitl, Principal, Praxiem	89	42	IEEE Ottawa ComSoc, CESoc, and BTS Joint Chapter, IEEE Ottawa Alliance of IEEE

							Consultant Network, IEEE Ottawa TMC, PCS, and SSIT Joint Chapter
05/02/2017	11:00 AM	Ottawa	Technical	IEEE Ottawa L&L: Challenge Everything - Why Audacity Is the Key to Long-Term Growth in Technology Companies - Stuart Russell, CTO & Co- Founder, You.i TV	92	25	IEEE Ottawa ComSoc, CESoc, and BTS Joint Chapter, IEEE Ottawa Alliance of IEEE Consultant Network, IEEE Ottawa TMC, PCS, and SSIT Joint Chapter
06/05/2017	11:00 AM	Ottawa	Technical	IEEE Ottawa L&L: A 101 to Machine Learning using Python - Chris Allison, Senior Coordinator, GC2.0 Tools at Treasury Board of Canada Secretariat	99	27	IEEE Ottawa ComSoc, CESoc, and BTS Joint Chapter, IEEE Ottawa Alliance of IEEE Consultant Network, IEEE Ottawa TMC, PCS, and SSIT Joint Chapter

07/03/2017	11:00 AM	Ottawa	Technical	IEEE Ottawa L&L: The Rise of the Industrial Drone - Ian Glenn, CEO/CTO, ING Robotic Aviation Inc.	83	41	IEEE Ottawa ComSoc, CESoc, and BTS Joint Chapter, IEEE Ottawa Alliance of IEEE Consultant Network, IEEE Ottawa TMC, PCS, and SSIT Joint Chapter
08/01/2017	11:00 AM	Ottawa	Technical	IEEE Ottawa L&L: "Resiliency by Design" - Dynamic Categorization Working Session - Steven Woodward (CEO, Cloud Perspectives)	99	28	IEEE Ottawa ComSoc, CESoc, and BTS Joint Chapter, IEEE Ottawa Alliance of IEEE Consultant Network, IEEE Ottawa TMC, PCS, and SSIT Joint Chapter
09/04/2017	11:00 AM	Ottawa	Technical	IEEE Ottawa L&L: Data Centric Intelligence, Surveillance and Reconnaissance Applications - John Clarke (Product Manager, Data Management	110	37	IEEE Ottawa ComSoc, CESoc, and BTS Joint Chapter, IEEE Ottawa Alliance of IEEE Consultant

				Systems, General Dynamics Mission Systems Canada)			Network, IEEE Ottawa TMC, PCS, and SSIT Joint Chapter
10/03/2017	11:00 AM	Ottawa	Technical	IEEE Ottawa L&L: IEEE Ottawa Lunch and Learn Presents: "Personal Creativity - An Interactive Workshop" by Inez Dekker (University Lecturer, Researcher, and Public Speaker)	103	32	IEEE Ottawa ComSoc, CESoc, and BTS Joint Chapter, IEEE Ottawa Alliance of IEEE Consultant Network, IEEE Ottawa TMC, PCS, and SSIT Joint Chapter

## **Unique Events**

IEEE Ottawa Lunch and Learn

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

Chair: Wahab Almuhtadi

 $\label{thm:condition} \mbox{Vice-Chair: Claude Brule, } \underline{\mbox{brulec@algonquincollege.com}}$ 

Secretary: Raed Abdullah, RaedAbdullah@ieee.org

Membership Development: tkhoury@ieee.org

**Total Number of Technical Meetings** 

This Year	Last Year
16	10

## **Joint Chapter Participating Societies**

Participating Society
Communications Society (ComSoc)
Consumer Electronics Society (CESoc)
Broadcast Technology Society (BTS)

Activity Date	Time	Location	Activity Type	Title/Speaker/Nam e of Workshop	Total Attendance	IEEE Attendanc e	Joint Activity Sponsors
2016-11- 16	11:3 0	n/a	Technical Seminar	Smart Surveillance Systems: Trends and Recent Research	70	20	n/a
2016-12- 18	11:3	n/a	Technical Seminar	RF Technology for 5G Cellular Base stations. Dr. Thomas Cameron, CTO, Communications Business Unit, Analog Devices	110	40	n/a

2017-01- 24	14:0 0	n/a	Technical Seminar	Smart Cities,  By Dr. Tom Murad, Siemens Canada	32	13	n/a
2017-03- 06	11:3 0	n/a	Technical Seminar	Catching Bad Guys with Math: Real World Data Science Use Cases for Cyberattack Detection and Prevention - Stephan Jou, CTO, Interset	130	41	n/a
2017-04- 03	11:3	n/a	Technical Seminar	Internet of Things - Things You Need to Know - Walter Knitl, Principal, Praxiem	131	42	n/a
2017-04- 12	18:0	n/a	Technical Seminar	Telecommunication Engineering as Distinct Education Discipline Reflections on the TEE Movement and Project ISTEE	35	10	n/a
2017-05- 01	11:3 0	n/a	Technical Seminar	Challenge Everything - Why Audacity Is the Key to Long-Term Growth in Technology Companies - Stuart Russell, CTO & Co- Founder, You.i TV	117	25	n/a

2017-06- 05	11:0	n/a	Technical Seminar	A 101 to Machine Learning using Python - Chris Allison, Senior Coordinator, GC2.0 Tools at Treasury Board of Canada Secretariat	126	27	n/a
2017-06-	18:0 0	n/a	Technical Seminar	Topology Preserving Maps: A Localization-Free Approach for 2-D and 3-D IoT Subnets	35	15	n/a
2017-07-	11:0 0	n/a	Technical Seminar	The Rise of the Industrial Drone - Ian Glenn, CEO/CTO, ING Robotic Aviation Inc.	124	41	n/a
2017-08-	11:0	n/a	Technical Seminar	"Resiliency by Design" - Dynamic Categorization Working Session - Steven Woodward (CEO, Cloud Perspectives)	99	28	n/a
2017-09-	11:0	n/a	Technical Seminar	Data Centric Intelligence, Surveillance and Reconnaissance Applications - John Clarke (Product Manager, Data Management Systems, General	110	37	n/a

				Dynamics Mission Systems Canada)			
2017-10- 02	11:0 0	n/a	Technical Seminar	"Personal Creativity - An Interactive Workshop" by Inez Dekker (University Lecturer, Researcher, and Public Speaker)	103	32	n/a
2017-10- 18	10:0	n/a	Technical Seminar	A Compact Dual- Band Beam- Sweeping Antenna Based on Active Frequency Selective Surface	35	10	n/a
2017-10- 19	18:0 0	n/a	Technical Seminar	Role of Smart Building Energy Management Systems in the Development of a Smart City By Professor Saifur Rahman, Director, Virginia Tech Advanced Research Institute, USA	53	32	n/a
2017-10- 19	18:0	n/a	Technical Seminar	Measurement, Control and Protection in a Robust Smart Grid with a Reference to Energy Management Systems for Smart	53	32	n/a

Research Institute, USA
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## **CPMT - Components, Packaging and Manufacturing Technology Society**

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

## **Total Number of Technical Meetings**

This Year	Last Year		
5	5		

Activity Date	Time	Location	Activity Type	Title/Speaker/Na me of Workshop	Total Attendanc e	IEEE Attendance	Joint Activity Sponsors
10/31/201 6	01:3 0 PM	Universit y of Ottawa	technical meeting	RF GaN-on-LR Si Monolithic Integrated Circuits Technology, Dr. Khaled Elgaid, University of Glasgow	15	8	MTT/AP, EMC, CPMT, ComSoc/BTS /CES
02/10/201	10:0 0 AM	Universit y of Ottawa	technical meeting	A Compact Dual- Band Beam- Sweeping Antenna Based on Active Frequency	12	7	MTT/AP, EMC, CPMT

				Selective Surface, Dr. Qingsheng Zeng, IEEE Ottawa Seminar			
03/23/201	11:3 0 AM	Carleton Universit y	technical meeting	Internet-of-things: Challenges and future trends, Professor Jianguo Ma, Guangdong University of Technology, IEEE Ottawa Seminar	18	10	CPMT, MTT/AP, EMC
09/28/201 7	05:0 0 PM	Fidus Systems	technical meeting	Over-the-Air Measurements of Wireless Devices in Reverberation Chambers, Dr. Kate Remley, NIST, IEEE DL Presentation	13	8	EMC, MTT/AP, CPMT
10/11/201 7	05:0 0 PM	Fidus Systems	technical meeting	The myth about GROUND,Dr. Zhiping Yang, Google Inc., Mountain View, California, IEEE DL Presentation	22	15	EMC, MTT/AP, CPMT

## **Best Practices**

meeting time and locations most convenient for attendees

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

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

## **Total Number of Technical Meetings**

This Year	Last Year
2	6

## **Overview of Basic Entity Activities**

Activity Date	Time	Location	Activity Type	Title/Speaker/Name of Workshop	Total Attendance	IEEE Attendance	Joint Activity Sponsors
03/03/2017	01:00 PM	Ottawa	Technical Seminar	SPACE CHARGE MEASUREMENTS IN POLYMER INSULATORS	7	3	
08/03/2017	02:00 PM	Ottawa	Technical Seminar	New trends in condition monitoring and diagnostics of outdoor insulators	20	4	

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

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

Vice Chair: Dr. Ihsan Erdin, erdinih@gmail.com

## **Joint Chapter Participating Societies**

Participating Society
Circuits and Systems Society
Solid State Circuits Society
Eelctronic Devices Society

## **Total Number of Technical Meetings**

This Year	Last Year
7	10

Activity Date	Time	Location	Activity Type	Title/Speaker/Nam e of Workshop	Total Attendanc e	IEEE Attendanc e	Joint Activity Sponsors
03/10/201	10:3 0 AM	Carleton Universit Y	Seminar - Technical Talk	Spatio-Temporal Electromagnetic Wave Engineering for Tomorrow's Radio using Phasers, Metasurfaces and Metamaterials -Dr. Pritham Das -National University of Singapore	18	12	Carleton Universit Y
05/02/201 7	01:3 0 PM	Carleton Universit y	Seminar - Technical Talk	Photonics for Point of Care Diagnostics -Professor Stewart Aitchison -Department of Physics, University of Toronto	16	6	IEEE Photonics Society

09/23/201 7	09:0 0 AM	Carleton Universit Y	EDS Distinguishe d Lecture - HPCPS 2017 Workshop	Challenges for Nanoelectronics: More Moore and More than Moore - Prof. Durga Misra, NJIT, USA - HPCPS 2017 Workshop	42	19	Carleton Universit Y
09/23/201 7	10:0 0 AM	Carleton Universit Y	Technical Talk - HPCPS 2017 Workshop	Fundamentals and Opportunities in Printed/Flexible Electronic Systems - Dr. Neil Graddage Research Officer, National Research Council, Ottawa, Canada - HPCPS 2017 Workshop	42	19	Carleton Universit Y
09/23/201 7	12:0 0 AM	Carleton Universit Y	SSCS Distinguishe d Lecture - HPCPS 2017 Workshop	Fine-Grain Power Management in Many-Core System- On-Chip (SoC) - Dr. Vivek De IEEE Fellow, Intel Fellow Director, Circuit Technology Research Group, Intel, USA - HPCPS 2017 Workshop	42	19	Carleton Universit y
09/23/201 7	02:0 0 AM	Carleton Universit y	EDS Distinguishe d Lecture -	Predictive Failure Analytics in VLSI -IEEE Fellow, IBM T. J Watson	42	19	Carleton Universit Y

			HPCPS 2017 Workshop	Research Center, Yorktown Heights, NY, USA -HPCPS 2017 Workshop			
09/23/201	03:0 0 AM	Carleton Universit y	Technical Talk- HPCPS 2017 Workshop	Emerging Opportunities for Semiconductor Industry in Power Conversion Electronics of Renewable Energy -Dr. Christian Cojocaru Director of IC Engineering Solantro Semiconductor, Ottawa, Canada -HPCPS 2017 Workshop	42	19	Carleton Universit y

#### **Best Practices**

The chapter recognizes the importance of - engaging its members, - attracting new members, - providing high-quality forums for technical/professional interactions, - the need for attracting students into the IEEE activities as well as appropriately mentoring them; and accordingly bases its activates.

#### Award and/or Recognition

Major accomplishments of the chapter includes recognition for its leadership/activities: • A EDS society Subsidy Grant of \$3000 grant in recognition of the leadership provided by the Ottawa chapter and to further develop IEEE and EDS activities in Ottawa.

#### **Unique Events**

IEEE International HPCPS Workshop

#### **Proposed Events for Next Year**

Proposed Event	Motivation	Date(s)	Location	Organizing Entities	budget
HPCPS 2018	Emerging Trends in High-speed Design and Analysis	Oct 2018	Carleton University	CASS/EDS/SSCS Joint Chapter	\$5000

# **EMC - Electromagnetic Compatibility Society**

Chair: Syed Bokhari, bokhari@ieee.org

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

#### **Total Number of Technical Meetings**

This Year	Last Year			
3	4			

Activity Date	Time	Location	Activity Type	Title/Speaker/Nam e of Workshop	Total Attendanc e	IEEE Attendanc e	Joint Activity Sponsor s
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09/28/201 7	05:0 0 PM	Fidus Systems Inc. 375, Terry Fox Drive Ottawa, ON, L2K 0J7	DL Presentatio n	Over-the-Air Measurements of Wireless Devices in Reverberation Chambers Dr. Kate Remley	13	8	MTT/AP and CPMT chapters
10/11/201 7	05:0 0 PM	Fidus Systems Inc. 375, Terry Fox Drive Ottawa, ON, L2K 0J7	DL Presentatio n	The myth about GROUND  Dr. Zhiping Yang	22	15	MTT/AP and CPMT chapters
02/10/201	10:0 0 AM	University of Ottawa, School of Electrical Engineerin g and Computer Science (EECS), SITE Building, Room SITE 5084, 800 King Edward Ave., Ottawa, Ontario, Canada K1N 6N5	Technical Seminar	A Compact Dual- Band Beam- Sweeping Antenna Based on Active Frequency Selective Surface Dr. Qingsheng Zeng	25	15	MTT/AP and CPMT chapters

Best Practices
Wireless Measurements
Grounding
Dual band antenna

# **EMBS - Engineering in Medicine and Biology Society**

Chair: Sreeraman Rajan, sreeraman@ieee.org

Vice Chair: Prof. James Green, <a href="mailto:jrgreen@sce.carleton.ca">jrgreen@sce.carleton.ca</a>

**Secretary:** Prof. Yuu Ono, <u>yuuono@sce.carleton.ca</u>

Treasurer: Andrew Law, <a href="mailto:andrew.law@nrc-cnrc.gc.ca">andrew.law@nrc-cnrc.gc.ca</a>

Webmaster: Adrian D.C.Chan, adcchan@sce.carleton.ca

#### **Total Technical Number of Meetings**

This Year	Last Year		
19	16		

Activity Date	Time	Location	Activity Type	Title/Speaker/Na me of Workshop	Total Attendance	IEEE Attendance	Joint Activity Sponsors
10/19/2 017	09:00 AM	Carleton University	Technical Talk	The University Laboratory as a Medical Device Incubator - Successes, Caveats and Pitfalls	20	5	None

				Speaker: Prof. Robert Hitchcock			
10/12/2 017	09:00 AM	Carleton University	Technical Talk	Searching for 'hidden' patterns in medical images  Speaker: Dr. Rebecca Thornhill	28	2	None
09/28/2 017	09:00 PM	Carleton University	Technical Talk	Cybersecurity Challenges and Considerations for Medical Devices  Speaker: Prof. Jason Jaskolka	27	2	None
09/26/2 017	03:00 PM	Carleton University	Technical Talk	ARAS Robotics Research: Parallel and Cable Robotics Surgical Robotics Speaker: Prof. Hamid D. Taghirad	5	1	None
08/09/2 017	10:00 AM	University of Ottawa	I and M Distingui shed Lecture Talk	Unobtrusive Smart Sensing and Pervasive Computing for Healthcare: Cardio- respiratory and Physical Therapy Assessment	20	5	Organizer: Instrumentati on and Measurement chapter

08/04/2 017	01:00 PM	Carleton University	Technical Talk	Speaker: Prof. Octavian Postalache  EMG Control of Powered Prostheses: State- of-the-Art and Clinical Challenges  Speaker: Prof. Kevin Engleheart	22	12	None
06/14/2	06:00 PM	Algonquin	Comm Soc Distingui shed lecture talk	Topology Preserving Maps: A localization-free approach for 2-D and 3-D IoT subnets Speaker: Anura Jayasumana	20	5	IEEE Ottawa, IEEE Ottawa Joint Chapter of Communicatio ns Society, Consumer Electronics Society, and Broadcast Technology Society (ComSoc/CESo c/BTS), IEEE Ottawa Engineering in Medicine and Biology Society (EMBS), IEEE Ottawa Photonics Chapter (PHOS), IEEE Ottawa Joint

							Chapter of Reliability Society and Power Electronics Society (RS/PELS), IEEE Ottawa Educational Activities (EA), and Algonquin College Student Branch (ACSB) in conjunction with School of Advanced Technology, Algonquin College
05/19/2 017	03:00 PM	Carleton University	Technical Talk	Fractal Analysis of Breast Masses in Mammograms Speaker: Prof. Raj Rangayyan	35	17	None
05/02/2 017	01:30 PM	Carleton University	Photonic s Society Distingui shed Lecturer	Photonics for Point of Care Diagnostics  Speaker: Prof.Stewart Aitchison	20	5	organized by the Department of Electronics, Carleton University, IEEE Ottawa Section and its Photonics, EDS/SSCS/CAS

							College Student Branch (ACSB) in conjunction with School of Advanced Technology, Algonquin College
04/03/2 017	02:30 PM	Carleton University	Technical Talk	The Role of a Clinical Engineer in a Hospital  Speaker: Dr. Dr. Marie-Ange Janvier	12	5	None
03/20/2 017	02:30 PM	Carleton University	Technical Talk	Using Multiple Neuroimaging Modalities to Understand the Effects and Mechanisms of Reserve within the Context of Cognitive Aging  Speaker: Dr. Jason Steffener	17	4	None
03/06/2 017	02:30 PM	Carleton University	Technical Talk	Contactless monitoring of vital sign Speaker: Prof. Miodrag Bolic	19	7	None

01/30/2 017	02:30 PM	Carleton University	Technical Talk	Clinical PET/MRI: instrumentation, current status and potential applications  Speaker: Dr. Robert Miner	11	6	None
01/27/2 017	11:30 AM	Carleton University	Technical Talk	Is the Internet of Things the right technology to further our understanding of human mobility?  Speaker: Dr. Monica Wachowicz	55	7	None
01/16/2 017	03:00 PM	Carleton University	Technical Talk	Translational Research: innovations in medical education, training, and computer- assisted interventions  Speaker: Dr. Pascal Fallavollita	22	8	None
11/08/2 016	02:30 PM	Carleton University	Technical Talk	You, Your Slides, and Your Posters: Allies or Foes? Speaker: Prof. John Bandler	20	5	organized by Department of Electronics, Carleton University; IEEE Ottawa

							Section, IEEE Ottawa Educational Activities and Life Member Affinities, IEEE Ottawa Chapters on CPMT, SSCS/CASS/ED S, EMBS, MTT/AP, and EMC
11/07/2 016	03:00 PM	Carleton University	Technical Talk	Technology for Cardiac Ablation: a user's experience Speaker: Dr. Pablo Nery	29	3	None
10/17/2 016	03:00 PM	Carleton University	Technical Talk	Health Technology Start- ups: A Report from the Trenches Speaker: Mr. Jay Lawrence	37	6	None

#### **Best Practices**

All talks are part of Mandatory Seminar Series of Ottawa Carleton Institute of Biomedical Engineering, participated by students, faculty of the Institute, doctors, clinicians and industry practioners

#### Award and/or Recognition

CU@EMBS student club received the Best Student Club in the Society

#### **Unique Events**

Mini Enrichment course for School children in May 2017

# **IMS - Instrumentation and Measurement Society**

Chair: Voicu Groza, vgroza@uottawa.ca

Vice-Chair: Branislav Djokic, branislav@ieee.org

#### **Total Number of Technical Meetings**

This Year	Last Year
4	4

Activity Date	Time	Location	Activity Type	Title/Speaker/Na me of Workshop	Total Attendanc e	IEEE Attendanc e	Joint Activity Sponsors
10/19/201 7	06:3 0 PM	Algonqui n College, Ottawa	DL Technic al Talk	Role of Smart Building Energy Management Systems in the Development of a Smart City / Professor Dr. Saifur Rahman, Director, Virginia Tech Advanced Research Institute,	15		PES, IMS, RS/PELS, ComSoc/CESoc/BT S, Algonquin College IEEE Student Branch

				USA, IEEE Power & Energy Society President-Elect			
08/09/201 7	11:0 0 AM	Universit y of Ottawa	DL Technic al Talk	"Unobtrusive Smart Sensing and Pervasive Computing for Healthcare: Cardio-respiratory and Physical Therapy Assessment"/ Prof. Dr. Octavian Postolache, IMS DL, Instituto Universitario de Lisboa/ ISCTE-IUL, Portugal	20	11	IMS, CompSoc, CI/SMC, EMBS
03/15/201 7	06:3 0 PM	Universit y of Ottawa	DL Technic al Talk	"Evolutionary Many-Objective Optimization: Algorithms, Test Problems and Performance Indicators" / Hisao Ishibuchi, Professor, Graduate School of Engineering, Osaka Prefecture University	25	10	IMS, CompSoc, CI/SMC
10/11/201 6	11:0 0 PM	NRC, Ottawa, Building M-36	Technic al Talk	Summary of US Department of Energy programs at the National Renewable Energy	25	2	PES, IMS, EA, RS

Laboratory (NREL)
/
David Narang, a
Principal Engineer,
Section Manager,
Applied Power
Systems –
Distributed Energy
Systems
Integration Group
(DESI) in the Power
Systems
Engineering Center
at the National
Renewable Energy
Laboratory (NREL)
in Golden, USA.
Talk 2:
Fundamental
changes to the
electric power
system-post 2018 /
Mark Siira,
Director of
Technology
Strategy, ComRent
International,
Upper Marlboro,
MD, USA

#### **Unique Events**

IEEE International Conference EPEC2016

P-1721 standard project in the frame of the Instrumentation and Measurement Society's Technical Committee on Medical and Biological Measurements IMS TC-25

# **PHO - Photonics Society**

Chair: Jianping Yao, jpyao@uottawa.ca

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

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

Past Chair: Kexing Liu, <a href="mailto:kexing.liu@ieee.org">kexing.liu@ieee.org</a>

#### **Total Number of Technical Meetings**

This Year	Last Year
2	4

Activity Date	Time	Location	Activity Type	Title/Speaker/Na me of Workshop	Total Attendanc e	IEEE Attendanc e	Joint Activity Sponsors
05/02/201 7	01:3 0 PM	Carleton University	Distinguishe d Lecturer, IEEE Photonics Society	Photonics for Point of Care Diagnostics	30	20	Carleton Universit y, IEEE Ottawa Photonics Chapter
10/25/201 7	03:0 0 PM	University of Ottawa	Seminar	Nano Electronics in "Beyond Moore's Law" era	35	25	IEEE Ottawa Photonics Chapter
06/07/201 7	12:0 0 PM	Photonics North 2017 Ottaw a Shaw Center	Women in Photonics Panel	WOMEN IN PHOTONIICS	75	40	IEEE Ottawa Photonics Chapter, IEEE Ottawa

# IEEE Ottawa Section Report to the Annual General Meeting

							WiE Chapter		
	Unique Events								
Women in Photonics Panel									

# **PES - Power and Energy Society**

Chair: Wahab Almuhtadi, almuhtadi@ieee.org

Vice Chair: Branislav Djokic, <a href="mailto:branislav@ieee.org">branislav@ieee.org</a>

Treasurer: Raed Abdullah, raedabdullah@ieee.org

Secretary: Carl Kropp, <a href="mailto:KROPPCARL@aol.com">KROPPCARL@aol.com</a>

Website: http://www.ewh.ieee.org/soc/pes/ottawa/

#### **Total Number of Technical Meetings**

This Year	Last Year
8	7

Activity Date	Tim e	Locatio n	Activity Type	Title/Speaker/Na me of Workshop	Total Attendanc e	IEEE Attendanc e	Joint Activity Sponsors
11 October, 2016,	n/a	Ottawa, Ontario , Canada	Technical	Tour of NRC Heavy Vehicle Testing Facility	7	5	RS/PEL Joint Chapter, PES Chapter
12-14 October, 2016	n/a	Ottawa, Ontario , Canada	Conferenc e Technical	Electrical Power & Energy Conference 2016 (EPC2016)	200	n/a	Host and organizer by PES Ottawa Chapter

				"SMARTER RESILIENT POWER SYSTEMS"			Technical Co- sponsorship from PES Ottawa Chapter
24 January 2017	n/a	Ottawa, Ontario , Canada	Technical Seminar	Smart Cities  By Dr. Tom Murad, Siemens Canada	19	13	PES Ottawa Chapter, IMS, RS/PLES, ComSoc/CESco/BT S, EA, ACSB
04 May 2017	n/a	Ottawa, Ontario , Canada	Technical Seminar	Achieving Very High Solar Penetration, by Dr. Richard Perez, University of Albany	16	11	PES Ottawa Chapter, IMS, RS/PLES, ComSoc/CESco/BT S, ACSB
28 Septembe r 2017	n/a	Ottawa, Ontario , Canada	Technical Seminar	Si, SiC, and GaN Power Semiconductor Devices - What to Choose?  By Dr. Tanya K. Gachovska, Solantro Semiconductor Corp., Ottawa	16	11	PES Ottawa Chapter, IMS, RS/PLES, ComSoc/CESco/BT S, ACSB
19 October 2017	n/a	Ottawa, Ontario , Canada	Technical Seminar	Role of Smart Building Energy Management Systems in the Development of a Smart City, by Professor Saifur Rahman, Director, Virginia Tech	32	21	PES Ottawa Chapter, IMS, RS/PLES, ComSoc/CESco/BT S, AE, ACSB

				Advanced Research Institute, USA			
19 October 2017	n/a	Ottawa, Ontario , Canada	Technical Seminar	Measurement, Control and Protection in a Robust Smart Grid with a Reference to Energy Management Systems for Smart Buildings in a Smart City, by Professor Saifur Rahman, Director, Virginia Tech Advanced Research Institute, USA	25	19	PES Ottawa Chapter, IMS, RS/PLES, ComSoc/CESco/BT S, AE, ACSB
22-24 October, 2017	n/a	Ottawa, Ontario , Canada	Conferenc e Technical	Electrical Power & Energy Conference 2017 (EPC2017)  "Advanced Technologies for Renewable Energy Systems and Smart Grids"	200	n/a	Technical Co- sponsorship from PES Ottawa Chapter

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

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

Vice Chair: Marek Zaremba

**Joint Chapter Participating Societies** 

Participating Society
RAS
CSS

#### **Total Number of Technical Meetings**

This Year	Last Year
5	5

Activity Date	Time	Location	Activity Type	Title/Speaker/Name of Workshop	Total Attendance	IEEE Attendance	Joint Activity Sponsors
03/15/2017	03:00 PM	Carleton University	Technical - Seminar	Analytical Mechatronic Design Using the Multidisciplinary Correspondent Methodology Dr Haiyan H. Zhang	43	18	
10/11/2017	01:30 PM	Carleton University	Technical - Seminar	Overcoming Control Complexity of Constrained Three- link Manipulator Using - Prof. Georgi Dimirovski	40	20	

09/26/2017	04:00 PM	Carleton University	Technical - Seminar	Parallel and Cable Robotics - Prof. Hamid D. Taghirad	30	9	
05/09/2017	12:00 PM	Carleton University	Technical - Seminar	Space Debris Removal	35	7	

#### **Best Practices**

**Robotics Competition** 

#### **Unique Events**

**IEEE IRIS Conference** 

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

Chair: Tanya Gacjhovska, tgachovska@yahoo.com

Activity Date	Time	Location	Activity Type	Title/Speaker/N ame of Workshop	Total Attendance	IEEE Attendanc e	Joint Activity Sponsors
03/27/2 017	07:00 AM	The Convention Center Tampa, FL, USA	IAS board meeting	Receive IAS CMD WIE Initiative Travel Grant	25	n/a	
03/29/2 017	09:26 AM	The Convention Center	Presenting paper on APEC 2017	Dr. Tanya Gachovska	50	n/a	

		Tampa, FL, USA	300 W 4Q PV inverter using new high density control integrated circuits				
09/28/2 017	06:00 PM	: Algonquin College, T- Building, Room T129, 1385 Woodroffe Ave., Ottawa.	seminar	Dr. Tanya Gachovska Si, SiC, and GaN Power Semiconductor Devices – What to Choose?	22	n/a	RS-PEL, PES, Education Activities, and Algonquin College IEEE Student Branch
10/03/2 017	05:00 PM	Duke Energy Convention Center 525 Elm St Cincinnati, OH 45202	IAS Power Electronics Devices and Components Committee (PEDCC) Meeting	PEDCC	52	n/a	
10/04/2 017	08:30 AM	Duke Energy Convention Center 525 Elm St Cincinnati, OH 45202	Wide Band Gap Device Reliability	Chairs: Tanya Gachovska	60	n/a	
10/19/2 017	06:00 PM	: Ciena- Optophoto nics Lab (Room	IEEE seminar	Dr. Saifur Rahman Role of Smart Building Energy	42	n/a	IEEE Power and Energy Society Ottawa

T129), T-	Management	Chapter
Building,	Systems in the	(PES),
School of	Development of	Instrument
Advanced	a Smart City	ation &
Technolog		Measurem
		ent Society
		Chapter
		(IMS),
		Reliability
		Society and
		Power
		Electronics
		Society
		Joint
		Chapter
		(RS/PELS),
		Communic
		ations
		Society,
		Consumer
		Electronics
		Society,
		and
		Broadcast
		Technology
		Society
		Joint
		Chapter
		(ComSoc/C
		ESoc/BTS),
		and IEEE
		Ottawa
		Educational
		Activities
		(EA) and
		Algonquin
		College
		IEEE
		IEEE

# IEEE Ottawa Section Report to the Annual General Meeting

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					Student Branch
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Award and/or Recognition
APEC 2017 -IAS CMD WIE Initiative Travel Grant
ECCE 2017 -Women in Engineering Travel Grant

#### **Proposed Events for Next Year**

Proposed Event	Motivation	Date(s)	Location	Organizing Entities	budget
IEEE seminar	Technology, Applications, and Customer uses of GaN Systems Gallium Nitride Power Transistors	09. 11.2017	Algonquin College, 1385 Woodroffe Ave., Ottawa, ON Canada K2G 1V8		

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

Chair: Yifeng Zhou, <a href="mailto:yifeng.zhou@outlook.com">yifeng.zhou@outlook.com</a>

#### **Joint Participating Societies**

Participating Society
SP

OE	
GRS	

#### **Total Number of Technical Meetings**

This Year	Last Year
1	6

#### **Overview of Basic Entity Activities**

Activity Date	Time	Location	Activity Type	Title/Speaker/Name of Workshop	Total Attendance	IEEE Attendance	Joint Activity Sponsors
11/06/2017	09:00 AM	Ottawa, Ontario, Canada	Workshop	the Seventh Canadian Tracking and Fusion Group Workshop	40	20	Ottawa Section

TM/PCS/SSIT - Joint Chapter of the Technical Management Council, Professional Communications Society, and Society on Social Implications of Technology

Chair: Barbara Waruszynski, b.waruszynski@sympatico.ca

#### **Joint Participating Societies**

Participating Society
PCS
SSIT

#### **Total Number of Technical Meetings**

This Year	Last Year
2	0

## **Overview of Basic Entity Activities**

Activity Date	Time	Location	Activity Type	Title/Speaker/Nam e of Workshop	Total Attendanc e	IEEE Attendanc e	Joint Activity Sponsors
05/18/201 7	06:0 0 PM	Algonqui n College, Ottawa	Technical	Exploring the Science of Personal Creativity	10	4	
07/21/201 7	10:0 0 AM	Ryerson Universit Y	Technical (SSIT sits on CUDRG committee )	Virtual and Travelling Exhibitions on the History of Technology and Disability: Interdisciplinary Lessons of the Past for the Future (Plenary Talk)	125		CUDRG received \$30US IEEE Grant through SSIT. SSIT Chair sits on CUDRG committee .

# **VTS - Vehicular Technology Society**

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

Vice Chair: Hugh Reekie, <a href="mailto:h.reekie@ieee.org">h.reekie@ieee.org</a>

#### **Total Number of Technical Meetings**

This Year	Last Year

# IEEE Ottawa Section Report to the Annual General **2017** Meeting

_	_
3	2
_	_

Activity Date	Time	Location	Activity Type	Title/Speaker/Nam e of Workshop	Total Attendanc e	IEEE Attendanc e	Joint Activity Sponsor s
10/27/201 6	06:0 0 PM	ME 4359 Carleton University	Technical Seminar	Big Data Analytics in Wireless Networks Ying He	13	n/a	n/a
04/11/201	07:0 0 PM	Crowsnest, Naval Officer's Mess, 78 Lisgar St, Ottawa	Technical Seminar	Advanced Information and Communications Technologies for Connected Vehicles and Autonomous Vehicles Richard Yu	15	n/a	n/a
04/25/201 7	11:0 0 AM	Carleton University, 4359 ME (Mackenzi e Building)	Distinguishe d Lecturer	ENERGY MANAGEMENT OF ELECTRIC AND HYBRID VEHICLES  Professor Alain BOUSCAYROL	20	n/a	n/a
09/06/201 7	01:0 0 PM	Carleton University, 4359 ME (Mackenzi e Building)	Distinguishe d Lecturer	On System-Level Analysis & Design of Cellular Networks: The Magic of Stochastic Geometry	23	n/a	n/a

# IEEE Ottawa Section Report to the Annual General Meeting

Marco Di Renzo, Paris-Saclay University/ CNRS, France
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# **4 Affinity Reports**

# **AICN - Alliance of IEEE Consultant Network**

Chair: Bhagvat Joshi, bjoshi@ieee.org

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

#### **Total Number of Technical Meetings**

This Year	Last Year
1	1

#### Overview of Basic Entity Activities

Activity Date	Time	Location	Activity Type	Title/Speaker/Name of Workshop	Total Attendance	IEEE Attendance	Joint Activity Sponsors
09/07/2017	06:30 PM	RA Centre Ottawa	Technical Event	Thunderbolts and Lightning - Are they really frightening?	45	10	IET

#### **Proposed Events for Next Year**

Proposed Event	Motivation	Date(s)	Location	Organizing Entities	budget	etc
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# IEEE Ottawa Section Report to the Annual General Meeting

2	0	1	7

What is 5G	New Technology insight	March 2018	TBD	AICN, ComSoc	200	May be joint with VTS

# **YP - Young Professionals**

Chair:Allawi Assaggaf, assaggaf@ieee.org

Vice Chair: Mohamed Abdelazez

#### **Total Number of Technical Meetings**

This Year	Last Year
6	3

Activity Date	Time	Location	Activity Type	Title/Speaker/Name of Workshop	Total Attendance	IEEE Attendance	Joint Activity Sponsors
08/11/2017	07:00 PM	Bluebird Cafe	Tech Meeting	Tech Meeting	5	2	
08/25/2017	07:00 PM	Bluebird Cafe	Tech Meeting	Tech Meeting	4	3	
09/21/2017	07:00 PM	Ikea	Tech Meeting	Tech Meeting	3	1	
10/05/2017	07:00 PM	Ikea	Tech Meeting	Tech Meeting	3	1	
10/12/2017	07:00 PM	Ikea	Tech Meeting	Tech Meeting	4	2	

05/24/2017	07:00 PM	Bluebird Cafe	Meet up	Meet up	5	3	
05/08/2017	07:00 PM	Bluebird Cafe	Meet up	Meet up	5	2	

## **Proposed Unique Events for Next Year**

Proposed Event	Motivation	Date(s)	Location	Organizing Entities	budget
Workshop Series	Hands on workshops and continues learning	on going	Universities and colleges	YP	1500

# WiE - Women in Engineering

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

Vice - Chair: Zahra Mohammad

## **Total Number of Technical Meetings**

This Year	Last Year
3	4

Activity Date	Time	Location	Activity Type	Title/Speaker/Nam e of Workshop	Total Attendanc e	IEEE Attendanc e	Joint Activity Sponsors
09/2017	n/a	Mississaug a	Meeting	WiE Congress Meeting	50	n/a	n/a

10/27/201 6	6:00 pm	Carleton University	Technical Worksho p	3D CAD for Beginners – A Hands on Workshop in SolidWorks by Zahra Mohammad (WiE Vice Chair)	35	n/a	CU@EMBS , CU@WISE
06/07/201 7	12:0 0 pm	Shaw Centre	Panel, boxed lunches served	'Women in Photonics Panel' Photonics North Conference, Winnie Ye, Donna Strickland, Sophie LaRochelle, Dan-Xia Xu, Yanina Shevchenko	100	n/a	РНО

Award and/or Recognition
Certificate of Volunteer Appreciation from IEEE WiE Canada
WiE Canada Special Grant
WiE International Special Grant
IEEE Photonics Society WiE Grant

## **Proposed Unique Events for Next Year**

Proposed Event	Motivation	Date(s)	Location	Organizing Entities	budget
workshop	technical workshop	Winter 2018	Ottawa	WIE Ottawa	n/a

# **5 Student Branches**

# **Algonquin College**

Chair: Idoko Ameh, amehidoko@msn.com

Vice Chair: John Lutz

**Secretary:** Adam Barnfather

**Treasurer:** Gianpiero Beraldin

Membership Development: Michael W Yuen

Past Chair: Abdul Majid Abdul Rahim

Webmaster: Ronald Ekambiekambi

Faculty Advisor: Abdul Al-Azzawi

Advisor and Mentor: Wahab Almuhtadi

Activity Date	Location	Activity Type	Title/Speaker/Nam e of Workshop	Total Attendance	IEEE Attendance	Joint Activity Sponsors
Sept. 20, 2016	Algonquin College	Student Branch Meeting	To elect the new IEEE Algonquin Student Branch	n/a	n/a	
Sept. 14, 2016	Algonquin College	Student Branch Meeting	To recruit new members	n/a	n/a	
March 3, 2017	Algonquin College	Student Branch Meeting		n/a	n/a	
March 22, 2017	Algonquin College	Meeting	Battle Royale Meeting	n/a	n/a	

March 21, 2017	Algonquin College	Student Branch Meeting		n/a	n/a	
March 28, 2017	Algonquin College	Technical	IEEE Student Paper Oral Presentation	n/a	n/a	
October 6, 2017	Algonquin College	Social	Appreciation Party	n/a	n/a	

## **Carleton University**

Chair: Irusha Vidanamadura, <a href="mailto:chair@ieeecarleton.ca">chair@ieeecarleton.ca</a>

Vice-Chair: Emma Wang

Co-Vice-Chair: Monty Dhanani

**Secretary:** Nibas Paskaran

Treasurer: Ahmed Sakr

Webmaster: Seyed-Ali Nouri

**Technical Director:** Joyce Ibrahim

Office Director: Viraj Dave

**Internal Director:** Bolor Altangerel

External Director: Joshua Alexander

Finance Director: Samuel Catherasoo

Workshop Director: Jacky Chiu

Computer Society Chair: Federico Naranjo

Computer Society Vice-Chair: Ryan Abraham

WIE Chair: Laura Machado

WIE Vice-Chair: Idongesit Ikon

**SLAM Lead:** Brian Zhang

Social Director: Aarthi Ganesh

**Acquisitions Director:** Justin Fleming

## **Total Number of Technical Meetings**

This Year	Last Year
27	22

Activity Date	Location	Activity Type	Title/Speaker/Nam e of Workshop	Total Attendance	IEEE Attendance	Joint Activity Sponsors
Biweekly - Wednesdays (9/16/2016 - 3/29/2017) 6:00 PM	Carleton University MC2014	General Executive meeting.	Executive Meeting	15	15	None
Bi-Weekly – Tuesday (9/22/2016 – 1/26/2017), 6:30 PM	Carleton University , ME 4359	Organization Meeting for SPAC.	SPAC planning Meeting	13	8	None
Bi-Weekly (6/30/2016 - 3/14/2017), 6:30 PM	Carleton University , ME 4359	Organization Meeting for CUHacking.	CUHacking planning Meeting	12	8	None
Monthly (9/2016 – 4/2017),	Carleton University , Various rooms	Technical Software Related Workshops	Beginner Linux, Oscilloscope, Git, LaTeX, Advance Linux, So You Think You Can CODE, How to Network, Rails,	15	15	N/A

			Open source contribution			
Recurring bi- weekly (9/5/2016 – 10/3/2016), 10:00 AM – 2:00 PM	Carleton University , ME 4359	Recruitment event to gather volunteers to manage our McNaughton Centre, and to our branch and Ottawa section events.	Expo Carleton Booth, Engfrosh Booth, Volunteer Orientation Event, IEEE Day	3	3	Carleton Student Engineering Society, Carleton Clubs and Societies
One Time (11/12/2016 : 10:00 AM – 11/13/2016: 10:00 AM)	Algonquin College T102	24-hour Non- profit Gaming Tournament in the Ottawa Area.	BattleRoyale 10	108	n/a	Algonquin Student Association , Teamspeak , IEEE Ottawa Section, Connection s: The Campus Store, Whitebox,
Weekly – Thursday (10/1/2016 – Present) 6:30 PM – 9:30 PM	Carleton University , AP448, ME 4463	Technology Meeting, Workshops, Competitions . Maker Space, Special Project Support, Special Project Starting Entity	IEEE Carleton's Stay Late and Make (IEEE Carleton SLAM)	20	10	Carleton University Systems and Computer Engineering , Departmen t, IEEE Canadian Foundation , Carleton Undergrad uate Engineering Students'

						Equipment Fund
One time (10/2/2016) 8:00 PM – 11:00 PM	Vertical Reality	IEEE Carleton social event	Rock Climbing	15	10	None
One time (12/3/2016) 9:00 AM – 9:00 PM	Carleton Univeristy CB 2102	Hackathon	Local Hack Day	100	25	None
One time (1/20/2017) 7:00 PM – 10:00 PM	Tailgators , 1642 Merivale Rd.	Volunteer Appreciation	IEEE Carleton Fall Volunteer Appreciation Event	12	8	None
One time (1/30/2017) 6:00 PM – 8:00 PM	Carleton University , ME 3165	SPAC Conference networking workshop	SPAC Networking Workshop	12	5	Carleton Co-op and Career Services
One time (2/2/2017) 5:30 PM – 10:30 PM	Hellenic Centre	Networking Co-student branch Event between Carleton, uOttawa, and Algonquin College with student, industry professionals , professors and academic researchers.	Student Professional Awareness Conference (SPAC2017)	160	50	IEEE Ottawa Section, CUSA, CSES, Carleton FED, Carleton DOE, Igonquin SA, Carleton Co-op and Career Services, IEEE uOttawa, IEEE Algonquin, Real Decoy, March Networks, Ingenius,

						Accenture, IBM, Blackberry, Lumenera
One time (2/8/2017) 6:00 PM – 7:30 PM	Carleton University , ME 4359	Winter Volunteer Orientation	IEEE Carleton Volunteer Orientation	12	5	None
Weekend (3/3/2017: 12:00 PM – 3/4/2017 2:00 PM)	Carleton University	Hackathon. University's first large- scale hackathon, and the largest hackathon in Ottawa lasting 24 hours.	CUHacking	200	30	IEEE Ottawa Section, March Networks, Real Decoy, Carleton Computer Science, Carleton SCE, Carleton DOE, Indico, RL Software, .tech domain, Github, Bloomberg, MLH, Carleton Hatch, CCSS
One time (3/10/2017) 8:00 PM – 10:00 PM	Craft Beer Market	Volunteer Appreciation, Social Gathering	SPAC 2017 Volunteer Appreciation	14	10	IEEE uOttawa
(3/21/2017) 6:30 PM – 10:30 PM	uOttawa, Huguette Labelle Hall	Conference, Women in Engineering Celebration, Networking, Social	8 <sup>th</sup> Annual WIE Wine and Cheese	217	29	IEEE uOttawa, IEEE Ottawa Section, Carleton FED, uOTtawa

						EEF, Ciena, Kinaxis, CRA, Kanata North BIA, Brookfield Renewable, Lumenera, Klipfolio, Accenture, Fidus Systems
One time (3/31/2017) 6:00 PM – 9:00 PM	Yuk Yuks	Volunteer Appreciation	CUHacking Volunteer Appreciation	10	8	None
One time (1/1/2017) 12:30 PM – 2:30 PM	Skyzone	IEEE Carleton social event	SkyZone Social event	6	3	None
Daily (2/15/2017 - 3/15/2017)	Carleton University	Election. Driven individuals are given an opportunity to run as a branch executive by going through the election process.	IEEE Carleton Elections period	20	20	
One time (3/28/2016) 6:00 PM – 8:30 PM	Carleton University , ME 4359	Technical Competition	IEEE Carleton Papers Competition	12	6	None
One time (3/29/2017) 6:00 PM – 8:00 PM	Carleton University ME 4359	Annual General Meeting	IEEE Carleton AGM	25	18	None
One time	Carleton	Executive	New Executive	19	19	None

(5/1/2016)	University , ME 3359	Transition	Team Assumption			
Weekend (5/12/2017 - 5/14/2017)	Mont Tremblan t	Executives get together, Executive Retreat	IEEE Carleton University Executives' Retreat	24	18	None
Tri Weekly (6/5/2017 – 8/31/2017) 6:00 PM – 8:00 PM	Carleton University ME4359	General Meeting	IEEE Carleton Summer Executive Meeting	19	19	None
One time (6/24/2017) 5:00 PM – 8:00 PM	Carleton University , CB 2102	Competition, Hackathon	Terrible Hack Day	35	10	None
One time (9/2/2017) 5:00 PM – 8:00 PM	Mooney's Bay	Social Event	IEEE Carleton Summer BBQ Event	18	12	None
Biweekly – Wednesday (9/14/2017 – 4/2018) 6:00 PM – 8:00 PM	Carleton University ME4359	Meeting	IEEE Carleton Executive Meeting	15	15	None
One time (9/20/2017) 5:30 PM – 7:00 PM	Carleton University , HP 3431	Technical Workshop	Git Beginners Workshop	55	15	Carleton SSSC

#### **Best Practices**

Family like environment: Our student branch treats all members as a family. Our student branch encourages social activities between the members and the executive committee.

Volunteers: Our student branch has many volunteers that help keep the McNaughton Resource Centre open as much as possible. These volunteers become the first to know about the different events our branch is organizing. Our most active volunteers are considered as candidates for the following year's executive committee. In organizing our events, we try to have the volunteers take an active role. Our

branch usually has volunteers help in organizing the events in addition to volunteering the day of. We encourage our volunteers to take on tasks for events such as SPAC, BR, Wine and Cheese, Workshops, SLAM etc.

Committee: Our executive committee includes 19 executives as listed above. The work is divided between all the executives as much as possible. When organizing events, all executives help as much as they can. This large amount of executives means our branch has a lot to offer, since the executives will have different ideas for organizing and running events.

Collaborations: Our Student Branch collaborates with multiple organizations, whether at Carleton University or outside to make sure the services we provide to our members and students are as good as possible. Our branch collaborates with the uOttawa and Algonquin College student branches in organizing 3 annual events. These collaborations open the door to more learning and more networking with students in the other schools. Our branch also collaborates with inner Carleton groups such as the Carleton Student Engineering Society (CSES), Carleton University Student Association (CUSA), and Carleton Science Student Success Center (SSSC). These collaborations allow us to have workshops and competitions that do not interfere with the other organizations' work. For example, some of our workshop audience are also interested in what CURC does; therefore, we try to not have conflicting workshops or conflicting times to allow students to be able to go to both.

#### Award and/or Recognition

IEEE Region 7 2017 Exemplary Student Branch: Based on all the workshops, competitions, events, and activities we organized last year, our branch received the exemplary student branch award. We are looking to repeat this award for next year.

#### **Unique Events**

Student Professional Awareness Conference (SPAC2017)

BattleRoyale 10 (BR10)

Workshops: Each workshop will be done twice, once each semester (bi-weekly)

o Beginner Linux

o Oscilloscope
o Git
o LaTeX
o Advanced Linux
o So You Think You Can CODE
o How to Network
o Ruby on Rails
o Open source contribution
8th Annual WIE Wine and Cheese
Competitions:
o IEEE Xtreme 9.0
o Carleton's Papers Competition
Stay Late and Make (weekly)
Volunteers Appreciation Events
SPAC and BR Volunteers Appreciation
Social Events:
o Rock Climbing
o Skyzone

# **Proposed Unique Events for Next Year**

Proposed Event	Motivation	Date(s)	Location	Organizing Entities	budget	
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Student Professional Awareness Conference (SPAC 2018)	an opportunity for students, academics, and professionals from industry to bridge the gap between the classroom and the boardroom and build professional connections	Late January 18, 2018	Hellenic Centre (Ottawa, Prince of Wales Drive)	IEEE Carleton, IEEE OttawaU, IEEE Algonquin	\$10,000 in expenses & \$10,000 in revenue
BattleRoyale 11 (BR11)	Bring games into a friendly environment where they can play competitively, and cooperatively, while increasing their network and raising funds for a good cause	March, 2018	Algonquin T Building	IEEE Carleton, IEEE uOttawa, and IEEE Algonquin	\$5000 in expenses & \$8000 in revenue
Workshops: Done in both semesters (bi- weekly)	Knowledge sharing and knowledge gaining	Bi-Weekly (Wednesdays and Saturday if needed)	Carleton University	IEEE Carleton	Approximately \$50 per workshop for food and refreshments
9th Annual WIE Wine and Cheese	helping to strengthen the relationships between students, professors, and industry professionals	Orange Art Gallery / uOttawa Tabaret Hall	March 2018	IEEE Carleton WIE and IEEE uOttawa WIE	Approximately \$50 per workshop for food and refreshments
IEEE Carleton FPGA Competition (IEEE	To encourage students to improve their technical skills	Carleton University	December 2017	Carleton University	\$135 budgeted for

Carleton's ELEC3500 Competition)	and go beyond the course material contents				this competition
IEEE Carleton Analog Design Competition (IEEE Carleton's ELEC3509 Competition)	To encourage students to improve their technical skills and go beyond the course material contents	Carleton University	December 2017	Carleton University	\$135 budgeted for this competition
IEEE Xtreme 11.0	Expose students to learn more advanced programming skills and teach students more about IEEE and about IEEE Computer Society.	Carleton University	October 13 2017 - October 14, 2017	Carleton University	\$150 budgeted for this competition
Carleton's Papers Competition	Allow students to present their technical projects and improve their communication and leadership skills	Carleton University	April 2018	Carleton University	\$200 budgeted for this competition
Stay Late And Make (weekly)	A space for students working on cool and awesome projects to meet other students and get to work together and help each other	Carleton University	Weekly, Thursday 6:30PM	Carleton University	\$100 budgeted by the branch. Additional funding is requested from other organizations

Volunteers Appreciation	Rewarding volunteers for their valuable contributions	Tailgators	January 2018	Carleton University	\$250 budgeted by the branch
SPAC and BR Volunteers Appreciation	Rewarding volunteers for their valuable contributions	Craft Beer Market	March 2018	Carleton University	\$250 budgeted by the branch
Local Hack Day	Encourage students to work on projects outside of school and improve their technical skills and encourage students to work at SLAM and learn more about IEEE	Carleton University	December 2018	Carleton University	\$100 budgeted by the branch
SLAM Hacks	Encourage students to work on projects outside of school and improve their technical skills	Carleton University	March 2018	Carleton University	\$150 budgeted by the branch

# **University of Ottawa**

Chair: Alise Wang, <a href="mailto:chair@ieeeuottawa.ca">chair@ieeeuottawa.ca</a>

Vice Chair : Matt Langlois, Vice-chair@ieeeuottawa.ca

Secretary: Linda Tang, <a href="mailto:secretary@ieeeuottawa.ca">secretary@ieeeuottawa.ca</a>

Treasurer: Shannon Berry, treasurer@ieeeuottawa.ca

McNaughton Centre Director: Mohammed Hussain, mcnaughton@ieeeuottawa.ca

Webmaster: Tamer Sherif, webmaster@ieeeuottawa.ca

Women in Engineering Chair: Manisha Wanniarachchige, wie-chair@ieeeuottawa.ca

# IEEE Ottawa Section Report to the Annual General Meeting

Women in Engineering Vice Chair: Raine Cobon, wie-vicechair@ieeeuottawa.ca

**VP Communications:** Ivor Benderavage , <a href="mailto:communications@ieeeuottawa.ca">communications@ieeeuottawa.ca</a>

VP Academics: Amar Jasarbasic , <a href="mailto:academic@ieeeuottawa.ca">academic@ieeeuottawa.ca</a>

**VP Social:** Heemel Saha, <u>social@ieeeuottawa.ca</u>

**VP Internal:** Mostafa Yasser, <u>internal@ieeeuottawa.ca</u>

**VP External:** Minh Thao Dang, <u>external@ieeeuottawa.ca</u>

#### **Total Number of Technical Meetings**

This Year	Last Year
15	12

#### **Overview of Basic Entity Activities**

Activity Date	Time	Location	Activity Type	Title/Speaker/Name of Workshop	Total Attendance	IEEE Attendance	Joint Activity Sponsors
11/01/2016	05:30 PM	uOttawa	Tech Talk	Kinaxis Tech Talk	60	10	
12/08/2016	01:00 PM	uOttawa	Workshop	Cookies and Cram Week (5 total sessions)	100	15	

01/20/2017	04:45 PM	Hydro Ottawa	Industry Tour	Hydro Ottawa Tour	15	5	
04/05/2017	04:45 PM	uOttawa	Workshop	Cookies and Cram (5 total sessions)	120	18	
04/30/2017	04:45 PM	uOttawa	Meeting	Annual General Meeting	24	17	
09/11/2017	01:46 PM	uOttawa	Week- Long Event	IEEE Welcome Week	200	20	
10/03/2017	04:58 PM	uOttawa	IEEE Day	IEEE Info Session + Workshop	50	10	

Unique Events
Battle Royale
Women in Engineering Wine and Cheese
EiE Workshop
Trivia Night
3rd Year Electrical Engineering Specialization Panel
Cyber Hacking Workshop
LinkedIn Workshop
Resume Workshop
Lumenera Tour

#### **Proposed Events for Next Year**

Proposed Event	Motivation	Date(s)	Location	Organizing Entities	budget
New Workshops		January 2018	uOttawa		< \$100
Career Fair		February	uOttawa		~ \$100

### 6 IEEE Ottawa Section Executive 2017

The current IEEE Ottawa Section executive officers are as follows:

Chair: Ms. Anissa Shaddy, anissa@ieee.org

Vice - Chair: Mr. Alfredo Herrera, alfredo.herrera@ieee.org

Treasurer: Mr. Mohamed Abdelazez, mohamed.abdelazez@carleton.ca

Secretary: Ms. Zahra Mohammad, zahra.mohammad@carleton.ca

Past Chair: Ms. Janet Davis, janet.davis@carleton.ca

A complete list of the Ottawa Section officers follows at the end of this report.

## 7 IEEE Ottawa Section Elections for 2018 Executives

The Section officers proposed by the Nomination and Appointments Committee for the Ottawa Section Executive in 2018:

Chair: Ms. Anissa Shaddy, anissa@ieee.org

Vice – Chair: Mr. Alfredo Herrera, alfredo.herrera@ieee.org

Treasurer: Mr. Abdulhak Nagy, a.n.ca@ieee.org

Secretary: Ms. Zahra Mohammad, <a href="mailto:zahra.mohammad@carleton.ca">zahra.mohammad@carleton.ca</a>

Past Chair: Ms. Janet Davis, janet.davis@carleton.ca

Other nominations supported by a petition of at least 10 IEEE Ottawa full members are welcome too, and should be sent to the Nominations and Appointments Committee Chair Dr. Branislav Djokic, no later than Oct. 10, 2017.

Voting will take place after presentation of the candidates at the Annual General Meeting. The results will be announced at the Annual General Meeting.

# 8 List of 2017 Section Executives and Officers

Name	Position	Email		
EXECUTIVES	EVECUTIVES			
LACCOTIVES				
Anissa Shaddy	Chair	anissa@ieee.org		
Alfredo Herrera	Vice Chair	alfredo.herrera@ieee.org		
Zahra Mohammad	Secretary	zahra.mohammad@carleton.ca		
Mohamed Abdelazez	Treasurer	mohamed.abdelazez@carleton.ca		
Janet Davis	Past Chair	janet.davis@ieee.org		
COMMITTEES				
Annual General Meeting (AGM) Planning				
Alfredo Herrera	Chair	alfredo.herrera@ieee.org		
Awards & Recognitio	ns			
Wahab Almuhtadi	Chair	almuhtadi@ieee.org		
[Ottawa Section	Members	Chair, Vice Chair, Secretary,		
Execs]		Treasurer, Past Chair		
Raed Abdullah	Member	raedabdullah@ieee.org		
Bylaws				
Branislav Djokic	Chair	branislav@ieee.org		

Kexing Liu		kexing.liu@ieee.org
Communications / Pu	ublications	
Maytham Sabbagh	Chair	maytham.sabbagh.ca@ieee.org
-		
Emma Wang	Social Media	emmawang@ieee.org
Rishi Sharma	Webmaster	ismail.syed@ieee.carleton.ca
<b>Educational Activities</b>	s (EA)	
Branislav Djokic	Chair	branislav@ieee.org
Engineers in Transition	on Activities (EiT)	
Vacant	Chair	
Membership Develop	oment (MD)	
Anissa Shaddy	Chair	anissa@ieee.org
Maryam Kaka	Vice Chair	maryam.kaka@ieee.carleton.ca
Nominations and App	pointments	
Rami Abielmona	Chair	rabielmo@ieee.org
Sreeraman Rajan		sreeraman@ieee.org
Raed Abdullah		raedabdullah@ieee.org
Wahab Almuhtadi		almuhtadi@ieee.org
Branislav Djokic		branislav@ieee.org
John Grefford		grefford@ieee.org
Tom Lavrisa		lavrisa@ieee.org
Ottawa Robotics Competition		

Heidi Li	Co – Chair	heidi.li.ca@ieee.org
David Huynh	Co – Chair	David.huynh.ca@ieee.org
Strategic Planning		
Barbara	Chair	b.waruszynski@sympatico.ca
Waruszynski	Criun	<u>b.waruszynskie symputico.cu</u>
vvar uszynski		
Raed Abdullah		raedabdullah@ieee.org
Janet Davis		janet.davis@ieee.org
Sreeraman Rajan		sreeraman@ieee.org
Wahab Almuhtadi		almuhtadi@ieee.org
Branislav Djokic		branislav@ieee.org
Teacher in Service Pr	ogram (TISP)	
Wolfram Lunscher	Chair	wlunscher@gmail.com
Janet Davis		janet.davis@ieee.org
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
LM – Life Member		

Wolfram Lunscher	Chair	wlunscher@gmail.com		
Ottown Consideration				
Ottawa – Special Inte	rest Group on Humanita	rian 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	S			
AESS – Aerospace and	d Electronic Systems Soci	ety		
Hugh Reekie	Chair	h.reekie@ieee.org		
AP/MTT – Microwave	AP/MTT – Microwaves/Antennas/Propagation 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	CS- Computer Society			
Eric Karmouch	Chair	ekarmouch@ieee.org		
ComSoc, BTS & CES				
Wahab Almuhtadi	Chair	almuhtadi@ieee.org		
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IAS – Industry Applications Society			
Vacant	Chair		
PHO- Photonics Society			
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# IEEE Ottawa Section Report to the Annual General Meeting

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