IEEE Ottawa Section Report to the Annual General Meeting 2016

October 14th, 2016





IEEE Ottawa Section Report to the Annual General Meeting 2016

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IEEE Ottawa Section Chair's Report

The IEEE Ottawa Section had a guiding vision for a second year embodied in the acronym **IEEE** which could also stand for **Innovate**, **Educate**, **Engage** and **Excel**. This was a year of implementing our innovations from the programs launched in the previous year as well launching several new programs - the main one in conjunction with Christie Lake Kids including the launch of an EPICs initiative, the first one in R7; creation of an MOU with the CPEIA;

Educate: Education continues to be a big part of the section initiatives, getting students interested in Science and Engineering through TISP initiatives and executing lesson plans with students. This past year we implemented the gumball machine lesson plan as part of the inner city Christie Lake Kids (CLK) program. We also launched the CLK Lego robotics project and received a \$500 grant from ICF to enable purchase of a second kit. This has now become a new dedicated CLK program for kids interested in robotics, starting Fall 2016.

Engage: We engaged various members of the community by continuing to actively reach out to schools through our IEEE Day and Ottawa Robotics Competition (ORC) activities. IEEE Day was again promoted both at the student branches as well as by the Section at the Tech Tuesday Event. The Annual IEEE Ottawa Robotics Competition was held in May at Longfields Davidson Heights Secondary School, Barrhaven, Ottawa. We introduced a new Arduino based completion. It is a highly successful event. We have also signed an MOU with the Canadian Printable Electronic Industry Association (CPEIA) to engage with this new and growing industry.

Excel: the Ottawa Section continues to support many excellent initiatives by the executive members, committee and chapter chairs and the student branches of University of Ottawa, Carleton University and Algonquin College. We worked hard this year to improve communications and publications with the addition of publication forms to make it easier for section chapters to get information sent out. We also improved our online presence with Facebook and Twitter accounts. The many annual events such as Student Professional Activities Conference (SPAC) to network with local industries contribute to this excellence. Battle Royale continues to be a favourite amongst the gamers as well as IEEE Xtreme. WIE Wine and Cheese is another popular event for the Section, which also sponsors technically and in some cases financially many conferences. Please refer to the individual committees and chapter reports for details on more activities supported by the Ottawa Section.

The Senior Members Committee has been actively helping with membership grade elevation. From October 2014 to September 2015, the Section had 17 members elevated to the senior grade.

The Section is financially sound and very active with technical activities. In the past AGM-to-AGM year, the Section held 5 Distinguished Lectures, 54 technical activities without double counting, several conferences and workshops.

Christie Lake Kids Initiative

- Did TISP workshop with CLK kids; Wolfram Lunscher and Janet Davis. Kids enjoyed building gumball machines. They loved everybody was involved. Very positive and happy.
- Got kids involved with Lego robotics, they received two kits, one through and ICF grant. Fall 2016 will inaugurate a new program at CLK for Lego Robotics

Section Picnic - July 2016

- Held at Andrew Haydon Park
- Well attended, including guests from OSPE and PEO

IEEE Standards Association Workshops

Held at Ericsson – Ottawa

"Raven Knights" Carleton University CanSAT Team

- It is an annual student design, build and launch competition for space-related topics
- End-to-End complex engineering project
- Organized by AAS and AIAA

Ottawa Robotics Competition 2016

• Potentially something at their summer camp. Epics funding available to us.

2016 Electrical Power and Energy Conference (EPEC)IEEE Engineering in Medicine and Biology Society (EMBS) International Student Conference (ISC) 2016
2016 International IEEE EMC Symposium

2016 IEEE International Conference on Prognostics and Health Management (ICPHM)

Distinguished Lecturers

- The State of the Art of Neurodynamic Optimization Past, Present, and Prospect
- Granular Computing: Pursuing New Avenues of Computational Intelligence
- Nanotextured Microfluidic Substrates Biomimicking Structured Hierarchy of Living
- Every picture tells a story: visual cluster assessment and rectangular relational data
- Learning in nonstationary environments

As you can see from the above, our Section is quite healthy and vibrant. This is mainly due to our strong volunteering base which we continuously count upon and are blessed to have. Without them, none of the above projects, initiatives, events, activities and gatherings would be possible. I want to thank everyone for their support and work they have done to make our Ottawa section the best in R7.

Janet Davis, SMIEEE Chair, IEEE Ottawa Section

Committee Reports

Annual General Meeting (AGM) Planning Committee

Chair: Anissa Shaddy

The IEEE Ottawa Section celebrated its 71st AGM on November 6, 2015 at the Shaw Center. It was a well-attended function. The first part of the function was the official part where elections for the Executives for 2016 were conducted. The second part of the function was the banquet where awards for the Section groups, individuals and the industries were awarded. The key note speaker was Dr. Paul Corkum. The student volunteers from Carleton University, the University of Ottawa and Algonquin College helped to ensure the success of the AGM under Mrs. Anissa Shaddy, the Section's AGM Committee Chair, leadership. The location of the event was the Ottawa Convention Centre (Trillium Ballroom – AGM & Banquet) Address: 55 Colonel By Drive, Ottawa ON. At the AGM, elections for 2016 were held and the following members were acclaimed to the following roles: Chair: Mrs. Janet Davis, SMIEEE, Vice Chair: Ms. Anissa Shaddy, Treasurer: Mike Bourassa, Ph.D, SMIEEE and Secretary Abdulhak Nagy.

Several corporate and Section awards as well as the appreciation award were presented at the AGM. For more details, please see the report of the Awards Committee.

Awards and Recognitions Committee

Chair: Wahab Almuhtadi almuhtadi@ieee.org

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

Raed Abdullah, Sreeraman Rajan.

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 http://www.ieeeottawa.ca/about/awards-2/. The Award winners are announced every year at the IEEE Ottawa Section Annual General Meeting-AGM.

The winners for the 2015 IEEE Ottawa Section Awards are as follows:

Corporate Awards

Outstanding Information and Communications Technology Award

• Corsa Technologies for its innovation in delivering programmable switches, routers and Layer4-7 capabilities for Software Defined Networks (SDN) and Network Function

Virtualization (NFV).

Outstanding High Technology Award

• Shopify for its leading reliable and scalable cloud-based multichannel commerce platform designed for businesses of all sizes.

Outstanding Clean Technology Award

• WCI Environmental Solutions for its innovation in treatment of organic waste and biosolids, wastewater and leachate and polluted bodies of water.

Appreciation Awards

• Juniper Networks for its valuable support to the activities of the IEEE Ottawa Section and to the success of the IEEE IM 2015 conference.

AGM Keynote Speaker Appreciation

Appreciation Plaque

• Dr. Paul Corkum for in appreciation of his contribution to the IEEE Ottawa Section as the AGM 2015 Keynote Speaker.

Recognition Individuals

Outstanding Educator Award

• Dr. Hussein Mouftah for his outstanding vision, caliber, and contributions as a university educator who supervised more than 500 graduate student researchers over the course of his career, many of whom are now researchers in private sector companies, university professors or entrepreneurs.

Outstanding Engineer Award

• Martin Plesnik for his continuous innovation and sustained technical contributions to the development of power supply technologies for wireless applications.

Outstanding Service Award

• James R. Green for long-term, dependable, and quality service to the IEEE EMBS Chapter and the field of biomedical engineering

Outstanding Volunteer Award

• Kexing Liu for his long term contribution through the service as the Chair of IEEE Photonics Society Ottawa Chapter.

Recognition Ottawa Section Groups

Outstanding Chapter Award

• The Ottawa Joint Chapter of Communications Society, Broadcast Technology Society and Consumer Electronics Society for organizing technical events and workshop, and promoting IEEE Ottawa Section.

Outstanding Student Branch Award

• The Carleton University Student Branch for organizing events and increasing active services to its members.

Outstanding Committee Award

• The Ottawa Teacher-In-Service Program for it promoting TISP, working with pre-university students and increasing the visibility of the Ottawa IEEE Section.

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.

Communications / Publications (CPC) Committee

Chair: Maytham Sabbagh <u>maytham.sabbagh@ieee.carleton.ca</u> Section Webmaster: Ismail Syed <u>ismail.syed@ieee.carleton.ca</u>

Website: http://www.ieeeottawa.ca/publications/

Best Practices

- Submission Form:
 - The online submission form is the best thing that happened to the CPC, as now the news is compiled in one place when sent by the form and the committee only needs to add the news to the respective media platform.
- Website:
 - The section website has been up to date and the webmaster is actively working on improving the information on the website.
- Newsletter:
 - The newsletter is being sent out at the beginning of each month and is including all the information being sent to the CPC.
- Social Media:
 - Social media accounts are set up and being used as needed.

The plan for CPC in the coming year is to find volunteers to take on the roles of Newsletter Editor and Social Media Director and actively work on improving these two forms of publications. The team will also

add better options in the online submission form to allow section executives to fully customize their news. The only method of submitting news to the CPC will be the submission form and any other method will be disregarded. The CPC will actively work with section executives in order to figure out when different events are and have a way to remind executives to submit their news. The CPC will also work with the section executives on submitting post event news with pictures and videos if possible.

Educational Activities (EA) Committee

Chair: Branislav Djokic, branislav@ieee.org

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

 On Sep. 20, 2016, the IEEE Ottawa Section Educational Activities participated in the organization of a seminar "Next Generation Photovoltaics" presented at Algonquin College, by Dr. Karin Hinzer, Professor, Canada Research Chair Canada, SUNLAB, School of Electrical Engineering and Computer Science, University of Ottawa.

Photovoltaics have reached grid parity in the sunniest areas of the world and are set to do so next year in Eastern Ontario. This talk will cover photovoltaics basics as well as newer technologies for higher efficiencies. Current panel efficiencies can reach 23% efficiency, while newer technologies can reach up to 40%. How is this obtained and what do you gain in terms of payback including greenhouse gas emission reductions? How are these panels integrated in the grid? How can these photovoltaics be converted to power other devices in locations where power cannot be transported by conducting wires? Answers to these questions and others using examples of research projects being done at the uOttawa SUNLAB were presented.

The seminar was organized in conjunction with the IEEE Ottawa Chapter of Power and Energy Society (PES), IEEE Ottawa Joint Chapter of Reliability Society and Power Electronics Society (RS/PELS), IEEE Ottawa Chapter of Photonics Society, IEEE Ottawa Chapter of Industry Applications Society (IAS), and Algonquin College Student Branch (ACSB). The presentation was interactive and very well received as it addressed issues related to the renewable energy and the Canadian energy situation, It was followed with an extended discussion among the speaker and the audience.

 On Oct. 11, 2016, the IEEE Ottawa Section Educational Activities organized a seminar "Fundamental changes to the electric power system-post 2018" presented at the National Research Council in Ottawa, by Mark Siira, Director of Technology Strategy, ComRent International, and David Narang (via video link), Principal Engineer at the National Renewable Energy Laboratory (NREL) in Golden, Colorado.

Part I. Standards have always been an important consideration in the work of engineers and testing companies. But their role is increasing with the deployment of smart grids and the changes of how buildings interact with electricity. Some changes coming in the next two years will impact the testing done on systems that are interconnected to the electric power system (EPS). The electric power infrastructure is transforming from a system of power interconnections to a diverse, interconnected, interdependent, and adaptive system. As the smart grid develops, the interconnection standards will

evolve to help enable interoperability, interconnection and integration of disparate systems, information technology (IT) and communications. This presentation will discuss the specific areas of impact for testing and commissioning of utility protection systems and interconnection.

Part II. In his part of the presentation, David Narang provided a summary of programs that the US Department of Energy is currently working on. This seminar was organized in conjunction with the IEEE Ottawa Instrumentation & Measurement Society, Power and Energy Society, and Reliability & PE Society.

Engineers-in-Transition (EiT) Committee

Chair: Vacant

No activities reported

Membership Development (MD) Committee

Chair: Anissa Shaddy E-mail: <u>anissa@ieee.org</u> Co-chair: Maryam Kaka

F	
Activity Date,	Activity Type (Tech Meeting, Workshop, DL, etc) and Brief Description
Time,	
Location	
Nov. 6,	MD Booth at IEEE Ottawa Section 71 st AGM – information to members
2015, Shaw	
Centre	
January 26,	MD Booth at IEEE SPAC – recruiting and information
2016,	•
Hellenic	
Centre	
March	MD Booth at uOttawa Research Day – recruiting and information
30 th ,2016,	
University of	
Ottawa	
May 28-31	MD Booth at EMBS International Student Conference (ISC) 2016 – recruiting
2016,	and information
Carleton	
University	
September	MD Booth at Carleton's Throwback Homecoming Celebration:Faculty of
14, 2016,	Engineering and Design – recruiting and information
Carleton	
University	

Nominations and Appointments

Chair: Rami Abielmona rabielmo@ieee.org

Member: Sreeraman Rajan <u>Sreeraman@ieee.org</u>
Member: Raed Abdullah <u>raedabdullah@ieee.org</u>
Member: Wahab Almuhtadi <u>almuhtadi@ieee.org</u>
Member: Branislav Djokic <u>branislav@ieee.org</u>
Member: John Grefford <u>Grefford@ieee.org</u>
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 heidi.li.ca@ieee.org and David Huynh david.huynh.ca@ieee.org

Vice Chair: vacant

All other committee members can be found at http://orc.ieeeottawa.ca/executives

Website: http://orc.ieeeottawa.ca

ORC Activities

Activity Date, Time,	Activity Type (Tech	Title/Speaker or	Attendance	Joint
Location	Meeting, Workshop, DL, Workshop IEEE/Total		Activity	
	etc) and Brief Description	Name		Sponsors
Various dates, across	Approximately 80	Variable names	Averaged:	N/A
the Ottawa region	preparation meetings	depending on	2.3 / 3.3	
		discussion topic		
November 28, 2015, 1	Open House: An	ORC 2016 Open	9 / 150	N/A
to 3 pm, Carleton	introduction to the general	House		
University, UC 231	public about ORC.			
January 9, 2016, 10	Supervisors' Workshop:	ORC 2016	5 / 17	N/A
am to 3 pm, uOttawa,	Provide training to	Supervisors'		
SITE 2061	inexperienced supervisors.	Workshop		
February 17, 2016, 8	Workshop: Provide	ORC 2016	4 / 14	N/A
am to 3 pm, uOttawa,	opportunities to students	Workshop #1		
SITE 2061	to prepare for competition			
	day.			
February 20, 2016, 9	Workshop: Provide	ORC 2016	5/32	N/A
am to 3 pm, uOttawa,	opportunities to students	Workshop #2		
SITE 2060 / 2061	to prepare for competition			
	day.			
April 28, 2016, 8 am	Workshop: Provide	ORC 2016	5 / 100	N/A

to 3 pm, uOttawa, SITE 2061	opportunities to students to prepare for competition day.	Workshop #3		
April 30, 2016, 9 am to 3 pm, uOttawa, SITE 2061	Workshop: Provide opportunities to students to prepare for competition day.	ORC 2016 Workshop #4	3/80	N/A
May 14 th – 26 th , 2015, uOttawa, SITE 2060 & IBM Ottawa	Training sessions for volunteers	ORC 2016 – Volunteer Training Sessions	16/35	N/A
May 28, 2016, 7 am to 6 pm, Longfields- Davidson Heights Secondary School	Competition day	ORC 2016 Competition Day	20 / 500	N/A
June 17, 2016, 6 pm – 9 pm, Father's & Sons	Volunteer appreciation party	ORC 2016 Volunteer Appreciation Party	7 / 19	N/A

Best Practices within the ORC Committee

The ORC Committee employed the following best practices this past year:

- Frugal penny-pinching
- Advertising through a more effective and targeted manner with zero costs
- Increasing planning efficiency of the committee
- Entertaining students in novel ways
- Engaging patrons successfully for greater interest and investment in the ORC

Awards and/or Recognition

The Ottawa Citizen featured ORC online (http://bit.ly/ORC2016OTTCITIZEN) and in print.

Otherwise, the ORC Committee continued not to issue formal awards and eliminated meeting meals and small training incentives. All ORC volunteers were offered the following for the 3000 total volunteer hours they contributed for ORC 2016:

- An ORC T-shirt
- A pizza dinner on setup night
- A pizza lunch on competition day
- A certificate of appreciation
- A volunteer appreciation dinner

Unique Events from 2016

The ORC Committee organized the following unique events for ORC 2016:

- Arduino platform added to the competition
- Supervisors' workshop
- Opening and closing ceremony with IBM NAO

Unique Events for 2017

Since next year is the 15th anniversary of the IEEE Ottawa Robotics Competition, there are many new things that the ORC Committee would like to organize. However, we need more resources to make this possible. Thus, the ORC Committee invites all who are interested and/or motivated to promote STEM fields and share their passion to students to join us by emailing orcinfo@ieeeottawa.ca.

Senior Membership Committee

Chair: Dr. Sreeraman Rajan Vice Chair: Dr. Balaji Bhashyam

The Section had 16 Senior Member elevations from October 2015 to September 2016.

Last name
Henault
Adler
Ahmadi
Lung
Cvetkovic
Dong
Homayouni
Labiche
Lang
Levesque
Moo
Naas
Popescu
Sabourin

Muhammad Zeeshan	Shakir
Peiying	Zhu

Strategic Planning (SP) Committee

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

No activities reported.

Teacher In-Service Program (TISP) Committee

Name: Wolfram Lunscher. wlunscher@gmail.com

Activity Date, Time, Location	Activity Type (Tech Meeting, Workshop, DL, etc) and Brief Description	Title/Speaker or Workshop Name	Attendance IEEE/Total	Joint Activity Sponsors
October 7, 2015, Stittsville Public School	Workshop presentation to grade 2 class	Launching into Space, commemorating international space week. Wolfram Lunscher Presenting	IEEE - 1 Other -25	Canadian Space Society
November 12-13, 2015, Science Teachers Association of Ontario conference	Workshop + IEEE presentation to K- 12 school teachers	IEEE summary presentation + Tall Tower Lesson Plan + exhibit floor booth	IEEE – 8 Other – 25 + 100s on the exhibit floor	Science Teachers Association of Ontario
February 3- 17, 2016, Dempsey Community Centre, Ottawa	TISP Lesson Plan workshop, Christie Lake Kids, Ottawa	Gumball Machine Lesson Plan	IEEE – 3 Other - 15	
June 16, 2016, Ottawa Jewish Community School	Workshop presentation to grade 5 class	Launching into Space, Canadian space technology, and rocket propulsion	IEEE – 1 Other- 20	Canadian Space Society

Awards and/or Recognitions

Ottawa Section Committee of the Year Award

List of unique events held, sponsored or organized

Science Teachers Association of Ontario conference in Toronto – Annually in November, maintained an exhibit booth promoting IEEE and TISP + ran a workshop for teachers

Chapter Reports

AESS - Aerospace and Electronic Systems Society

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

Vice-Chair: Tony Ponsford, tony-ponsford@Raytheon.com Website: http://www3.bell.net/max-com/ottawa.AESS.html

Activity Date,	Activity Type (Tech	Title/Speaker or	Attendance	Joint Activity
Time,	Meeting, Workshop,	Workshop Name	IEEE/Total	Sponsors
Location	DL, etc) and Brief			
	Description			
25 May 2016	Tech meeting –	Dr. Ravinder	12/30	VTS
2 – 4 pm	Electronics &	Dahiya, Univ of		
Carleton U,	sensors on Flexible	Glasgow, UK		
Ottawa	substrates			
9 Sept 2016	Antenna Suystems	Dr. Sudhakar Rao,	10/20	AP/MTT, VTS
2-4 pm	for 21st Century	Northrop		etc
Ottawa U	spacecraft	Grumman, USA		

List of unique events held, sponsored or organized

Radar Concentration Workshop held, Shirley Bay, October 2015

List of proposed unique events

2+ technical presentations organized. Radar Concentration Workshop held, Shirley Bay, November 2016

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 Website: http://www.ieeeottawa.ca/ap_mtt/home

Activity Date, Activity Type (Tech	Title/Speaker or Workshop	Attendance	Joint Activity
------------------------------------	---------------------------	------------	----------------

Time, Location	Meeting, Workshop,	Name	IEEE/Total	Sponsors
Time, Location	DL, etc) and Brief Description	ivame	IEEE/TOlai	Sponsors
1) 10 Nov 2015 17:00–19:00 Board Room Fidus Systems	IEEE Electromagnetic Compatibility Society (EMC-S) Distinguished Lecture	Demystifying Signal Integrity in High Speed Designs by Prof. Ram Achar	5/10	AP/MTT and EMC Chapters
2) 22 Jan 2016 11:30–13:00 Room ME 4124 Carleton University	IEEE Microwave Theory and Techniques Society (MTT-S) Distinguished Lecture	Wonderful World of Nonlinearity: Modeling and Characterization of RF and Microwave Circuits by Prof. Jose C. Petro	21/32	AP/MTT, EMC and CPMT Chapters, Department of Electronics (DoE), Carleton University
3) 18 Mar 2016 13:30 – 14:30 Room ARC 233, University of Ottawa	IEEE Photonics Society Distinguished Lecture	Switching technologies for spatially and spectrally flexible optical networks by Prof. Dan M. Marom	12/21	AP/MTT and Photonics Chapters
4) 18 Mar 2016 14:30 – 15:30 Room ARC 233, University of Ottawa	Joint Symposium	Flexible, multi-rate coherent transmission and network applications by Dr. Maurice O'Sullivan	12/21	AP/MTT and Photonics Chapters
5) 18 Mar 2016 15:30 – 16:30 Room ARC 233, University of Ottawa	Joint Symposium	Emerging Photonic Component Technology at the National Research Council Canada by Dr. Siegfried Janz	12/21	AP/MTT and Photonics Chapters
6) 30 Mar 2016 17:00–19:00 Board Room Fidus Systems	Technical Seminar	Electromagnetic Environmental effects in Tactical Communication Systems by Kris HATASHITA	8/15	AP/MTT, EMC and CPMT Chapters
7) 16 May 2016 17:00–19:00 Board Room Fidus Systems	IEEE Electromagnetic Compatibility Society (EMC-S) Distinguished Lecture	Preventing RFIC interference issues: floorplan development, isolation- and grounding strategy by Dr. Jan Niehof	5/9	AP/MTT, EMC and CPMT Chapters
8) 25 May 2016 17:00–19:00 Board Room Fidus Systems	IEEE Electromagnetic Compatibility Society (EMC-S) Distinguished Lecture	Seeing is Believing – Demonstration data showing three EMC Concepts by Dr. Scott Ppiper	5/9	AP/MTT, EMC and CPMT Chapters
9) 14 July 2016 14:00–15:00 Room SITE5084 University of Ottawa	IEEE Ottawa Summer Seminar	Recent Progress in Microwave Antenna Precision Measurement at National Institute of Metrology (NIM) of China by Dr. Zhenfei Song	6/12	AP/MTT, EMC, CPMT and ComSoc/BTS/CES Chapters, School of EECS, University of Ottawa

10) 14 July 2016 15:00–16:00 Room SITE5084 University of Ottawa	IEEE Ottawa Summer Seminar	Quantum Based Self- traceable RF E-field Sensing by Using Rydberg States by Dr. Zhenfei Song	6/12	AP/MTT, EMC, CPMT and ComSoc/BTS/CES Chapters, School of EECS, University of Ottawa
11) 8 Sept 2016 14:00–16:00 Room SITE5084 University of Ottawa	IEEE Antennas and Propagation Society (AP–S) Distinguished Lecture	Advanced Antenna Systems for 21st Century Satellite Communication Payloads by Dr. Sudhakar Rao	12/27	AP/MTT, EMC, CPMT, VTS, AESS and ComSoc/BTS/CES Chapters, School of EECS, University of Ottawa

Best Practices

- (1) I have attended 2016 IEEE MTT-S International Conference on Numerical Electromagnetic and Multiphysics Modeling and Optimization for RF, Microwave, and Terahertz Applications (NEMO 2016), Beijing, China, 27 29 July 2016, exchanged experience and collaborated with other IEEE Sections and AP/MTT Chapters through face-to-face and interaction.
- (2) As a liaison, I have assisted IEEE Ottawa, IEEE Canada and IEEE to set up collaborating relationship with Canadian Printable Electronics Industry Association (CPEIA), and a partner MOU has been signed by IEEE and CPEIA in April 2016. I have co-organized a special halfday Session on Printable Electronics with CPEIA as a part of IEEE's 17th International Symposium on Antenna Technology and Applied Electromagnetics (ANTEM 2016), which has taken place in Montreal, QC, Canada, during July 10-13, 2016.
- (3) I have constantly been organizing events with Montreal, Kinston and Toronto AP/MTT Chapters.
- (4) I have assisted our section in recruiting new IEEE members and elevating members to senior members and will be continuing to do so.
- (5) I have been assisting our members in finding their new positions and employers in their recruitments.

- (6) 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.
- (7) 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.

Awards and/or Recognitions

- (1) Dr. Qingsheng Zeng has been an Organizer and a Session Chair for 3 special sessions at the 37th Progress In Electromagnetics Research Symposium (PIERS 2016), Shanghai, China, August 8 11, 2016.
- (2) Dr. Qingsheng Zeng has been an Organizing Committee Member and Technical Program Committee (TPC) Member, Organizer and Chair of a Special Session "Recent Progress in Antennas, Millimeter Wave and Terahertz and Technology", a Reviewer for 2016 IEEE MTT-S International Conference on Numerical Electromagnetic and Multiphysics Modeling and Optimization for RF, Microwave, and Terahertz Applications (NEMO 2016), Beijing, China, 27 29 July 2016.
- (3) Professor Qi-Jun Zhang in the Department of Electronics at Carleton University has been a keynotes speaker and Technical Program Committee (TPC) Member for the 2016 IEEE MTT S International Symposium on Numerical Electromagnetic and Multi-physics Modeling and Optimization for RF, Microwave, and Terahertz Applications (NEMO 2016), Beijing, China, 27 29 July 2016. Qi-Jun is one Ottawa MTT-S member.

List of unique events held

I have organized the Electronics Simulation Expo with ANSYS on 12 May 2016, IEEE Ottawa Summer Symposium on 14 July 2016, a Special Session on Printable Electronics with CPEIA for ANTEM 2016, a Special Session Session "Recent Progress in Antennas, Millimeter Wave and Terahertz and Technology" for IEEE MTT-S NEMO 2016, and 3 special sessions for PIERS 2016.

These events with a large attendance and the financial support by industry have profound impacts afterwards, making it resoundingly successful.

CI & SMC – Joint Chapter of Computational Intelligence and Systems, Man and Cybernetics Societies

Vice Chair SMC: George Yee, g.m.yee@ieee.org

Website: http://www.ieeeottawa.ca/ci

Joint Chapter: 1. Computational Intelligence (CI)

2. Systems, Man and Cybernetics (SMC)

This Year	14
Last Year	6

Activity Date, Time, Location	Activity Type (Tech Meeting, Workshop, DL, etc) and Brief Description	Title/Speaker or Workshop Name	Attendance IEEE/Total	Joint Activity Sponsors
Thursday Nov 12th, 2015, 10:00 – 11:30 NRC, Building M- 12	Technical	Load estimation and fatigue life tracking for helicopter components using Computational Intelligence techniques Dr. Catherine Cheung, NRC	6/8	N/A
Tuesday Nov 17th, 2015, 11:20 – 12:05 pm Shaw Center, Room 211	Technical	Data Fusion in the hierarchy of sensors dedicated to the Surveillance of Canada's borders Major (R) Marc Fricker Canadian Space Society	12/32	Canadian Tracking and Fusion Group (CTFG) 2015 Workshop

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Tuesday Nov 17th, 2015, 13:30 – 14:15 pm Shaw Center, Room 211	Technical	The coming flood of Earth Observation Data: Challenges and Opportunities Colonel (R) Andre Dupuis and Maria Rey Space Strategies Consulting Limited (SSCL)	12/32	Canadian Tracking and Fusion Group (CTFG) 2015 Workshop
Tuesday Nov 17th, 2015, 2:15 – 3:00 pm Shaw Center, Room 211	Technical	Performance of the SAR-AIS Association System in Polar Epsilon Paris Vachon DRDC Ottawa	12/32	Canadian Tracking and Fusion Group (CTFG) 2015 Workshop
Tuesday Nov 17th, 2015, 4:10 – 5:00 pm Shaw Center, Room 211	Technical	Multi-Sensor Image Fusion: the Next Stage for Research Zheng Liu University of British Columbia	11/28	Canadian Tracking and Fusion Group (CTFG) 2015 Workshop
Wednesday Dec 9th, 2015, 9:00 – 11:30 am Room 5084 School of Electrical Engineering and Computer Science University of Ottawa	Technical (DL)	Every picture tells a story: visual cluster assessment and rectangular relational data Prof. Jim Bezdek Retired Professor (IEEE CIS DL)	11/13	CompSoc; IMS; RAS
Wednesday Jan 20th, 2016, 6:45 – 8:30 pm	Technical	Experience of building Internet of Things (IoT) applications Professor Chung- Horng Lung	11/17	N/A

Algonquin College Building T		Department of Systems and Computer Engineering Carleton University		
Thursday Mar 17th, 2016, 6:30 – 8:00 pm Room 213B Algonquin College Building P	Technical	Threat Modeling Dr. George Yee Aptusinnova Inc. Adjunct Professor, Carleton University	8/27	N/A
Tuesday Apr 19th, 2016, 6:30 – 8:00 pm Faculty of Social Sciences, Room 1006 University of Ottawa	Technical (DL)	Granular Computing: Pursuing New Avenues of Computational Intelligence Professor Witold Pedrycz University of Alberta, Edmonton IEEE CIS DL	9/17	CompSoc; IMS; RAS
Thursday May 12th, 2016, 6:30 – 8:00 pm Graduate Student House, Room 307 University of Ottawa	Technical	Sensor relocation by mobile robots using multiobjective optimization Mr. Benjamin Desjardins School of Electrical Engineering and Computer Science University of Ottawa	8/24	UO Computer Science Graduate Student Association
Monday May	Technical	Multi-agent	15/53	Ottawa Machine Learning Meetup

30th, 2016, 6 :30 – 9 :00 pm		machine learning for mobile robots: a reinforcement approach		Group
Raven Telemetry		Prof. Howard Schwartz		
		Systems and Computer Engineering		
		Carleton University		
Thursday June 9, 2016, 6:30		Agent-based Collaborative Technologies and Systems		
– 8 :00 pm Algonquin College,	Technical (DL)	Dr. Weiming Shen (IEEE SMC DL)	9/20	N/A
Building P		National Research Council		
Wednesday, August 3, 2016	Technical (DL)	The State of the Art of Neurodynamic Optimization - Past, Present, and Prospect Prof. Jun Wang	12/30	Ottawa Machine Learning Meetup Group
Telemetry		(IEEE CIS DL) City University of Hong Kong		
September 19, 7:00 – 9 :00 PM Raven	Technical	Catching Bad Guys with Math Stephan Jou CTO of Interset	12/56	Ottawa Machine Learning Meetup Group
Telemetry				

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.

Awards and/or Recognitions

The chapter received 200 USD in funding from IEEE CIS to organize student events. A free pizza lunch with University of Ottawa students was organized during the visit of Jim Bezdek, CIS DL, to encourage

student participation and membership development.

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

The Chapter is a proud sponsor of the Sixth Canadian Tracking and Fusion Group Workshop (CTFG Workshop 2016) which will be held in Ottawa on October 24-25, 2016 (http://www.ctfg.ca/workshop2016). The Chapter also held 3 DLs (2 from CIS and 1 from CIS), one more above what it had planned for last year.

This year, the Chapter started working together with the Ottawa Machine Learning Meetup Group (https://www.meetup.com/Machine-Learning-Ottawa/) to co-sponsor and publicize joint activities. This has led to a wonderful synergy between the two groups. We provide high-quality speakers, including IEEE CIS/SMC DLs, and the Meetup Group is able to host the technical talks and contribute to a light dinner through its increasing number of sponsors.

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

The Chapter is planning on holding at least 10 talks next year, two of which will be DLs.

The Chapter is again hoping to technically co-sponsor local events and conferences that are in the domain of the CI/SMC societies.

There is an ongoing initiative to create a CIS student chapter within the University of Ottawa Student Branch which shall come to fruition towards the beginning of 2017.

Finally, the Chapter intends to organize a Machine Learning Day in 2017 with the Ottawa Machine Learning Meetup Group to increase awareness of this area among students from the University of Ottawa, Carleton University and Algonquin College.

CompSoc - Computer Society

Chair: Rami Abielmona, Ph.D., P.Eng., SMIEEE, rabielmo@ieee.org

Vice Chair: Eric Karmouch, Ph.D., ekarmouch@ieee.org

Vice Chair: Dan Ionescu, Dr. Eng., P.Eng., ionescu@site.uottawa.ca

Website: http://www.ieeeottawa.ca/cs

Activity Date, Time,	Activity Type (Tech Meeting, Workshop,	Title/Speaker or Workshop Name	Attendance IEEE/Total	Joint Activity Sponsors
Location	DL, etc) and Brief Description			
October 7, 2015, 10:00- 11:30, University of Ottawa	DL Talk	"Learning in Non- Stationary Environments" by Dr. Cesare Alippi, Professor, Politecnico di Milano	10/16	CI/SMC, IMS, EMBS, RAS/CSS chapters
November 17, 2015,	Canadian Tracking and Fusion Group	"The Coming Flood of Earth	8/33	CIS11/SMC28 chapter

10:00-11:00,	(CTFG) Workshop	Observation Data:		
Shaw Centre	2015 Technical	Challenges and		
	Talk	Opportunities" by		
		Dr. Maria Rey,		
		Space Strategies Consulting Ltd		
		"Data Fusion in the		
		hierarchy of		
November		sensors dedicated		
17, 2015,	CTFG Workshop	to the Surveillance	0/00	CIS11/SMC28
11:20-12:05,	2015 Technical Talk	of Canada's borders" by Major	8/33	chapter
Shaw Centre	i ain	(R) Marc Fricker,		
		Canadian Space		
		Society		
		"Performance of		
November	OTEO W	the SAR-AIS		
17, 2015,	CTFG Workshop 2015 Technical	Association	0/22	CIS11/SMC28
14:15-15:00,	Z015 Technicai Talk	System in Polar Epsilon" by Dr.	8/33	chapter
Shaw Centre	TAIK	Paris Vachon,		
		DRDC		
		"The evolution of		
		space based		
November	CTEC Western	maritime		
17, 2015,	CTFG Workshop 2015 Technical	surveillance in Canada - a	8/33	CIS11/SMC28
15:25-16:10,	Talk	commercial	0/33	chapter
Shaw Centre	Tant	perspective" by		
		William Jefferies,		
		LOOKNorth		
D		"Every picture tells		
December 9, 2015, 9:30-		a story: visual cluster assessment		
12:30,	DL Talk	and rectangular	11/13	CIS11/SMC28;
University of	22.5	relational data" by	,	IM09 chapters
Ottawa		Dr. James Bezdek,		
		Retired Professor		
		"Granular		
		Computing: Pursuing New		
April 19,		Avenues of		CIS11/SMC28,
2016, 18:30-	DI Talle	Computational	0/47	IM09,
20:30, University of	DL Talk	Intelligence" by Dr.	9/17	CS23/RA24
Ottawa		Witold Pedrycz,		chapters
		Professor,		
		University of Alberta		
		"Personalized		
July 28,		healthcare by		CIC11/CMC00
2016, 13:00- 15:00,	Technical Talk	control engineering	4/12	CIS11/SMC28, EMB18, IM09
Carleton	r commodi rain	approaches" by Dr.	7/12	chapters
University		Levente Kovács,		
		Associate		

		Professor, Obuda University		
August 3, 2016, 19:00- 21:00, Carleton University	DL Talk	"The State of the Art of Neurodynamic Optimization: Past, Present, and Prospect" by Dr. Jun Wang, Professor, City University of Hong Kong	12/30	CIS11/SMC28, RAS/CSS and IM09 chapters as well as Ottawa Machine Learning Meetup group

Unique events:

The Computer Society Ottawa Chapter co-sponsored the CTFG Workshop 2015 (held November 17-18, 2015 at the Shaw Centre) which was well attended, with more than 50 participants from government, industry, and academia. The workshop was made available by the generous financial support of the IEEE Ottawa Section, the International Society of Information Fusion (ISIF), and some local companies. More information about CTFG Workshop 2015 can be found on the website at www.ctfg.ca.

Proposed events:

The Chapter is again co-sponsoring the CTFG Workshop 2016 (to be held October 24-25, 2016 at the Shaw Centre) and is planning to host a multitude of technical and DL talks.

The Chapter has also launched, in partnership with March Networks, a new IEEE Lunch and Learn initiative that will bring technical talks to the Kanata Tech Hub. This effort is being led by our Vice-Chair, Dr. Eric Karmouch.

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

Chair: Wahab Almuhtadi, almuhtadi@ieee.org

Vice Chair: Claude Brulé, brulec@algonquincollege.com Secretary: Raed Abdullah, RaedAbdullah@ieee.org Membership Development: tkhoury@ieee.org

Joint Chapter: 1. Communications Society (ComSoc)

2. Consumer Electronics Society ((CESoc)3. Broadcast Technology Society (BTS)

Total Number of Technica	al Meetings:
This Vear	5

Last Year	10	
Lastical	10	

Activity Date, Time, Location	Activity Type (Tech Meeting, Workshop, DL, etc) and Brief Description	Title/Speaker or Workshop Name	Attendance IEEE/Total	Joint Activity Sponsors
Feb 4, 2015 Algonquin College, Ciena- Optophotonics Lab (Room T129)	Technical	An overview of the Build in Canada Innovation Program (BCIP) Speaker: Helen Bratier, PWGSC, Government of Canada, Ottawa Canada	10/16	ComSoc/CESoc/BTS Joint Chapter, EMBS, PES Chapter, CI/SMC Joint Chapter, CS, RS/PELS Joint Chapter, AICN Group, WIE Group, EdA, and ACS Branch, and Joint with Algonquin College
Mar 20, 2015. Carleton University	Technical	Challenges in the Next Wave of Connectivity Speaker: Dr. Patrice Gamand, Ph.D RF Fellow and Technology Manager Corporate CTO office, NXP Semiconductors.	12/20	CASS/EDS/SSC Joint Chapter, ComSoc/CESoc/BTS Joint Chapter, CPMT Chapter, and joint with Carleton University
Mar 26, 2015. Carleton University	Technical	Challenging Problems and Opportunities in Semiconductors and Microsystems Speaker: Kenneth D. Wagner ITAC Semiconductor Microsystems Council Chairman, Distinguished Engineer, PMC-Sierra, Inc.	10/16	CASS/EDS/SSC Joint Chapter, ComSoc/CESoc/BTS Joint Chapter, CPMT Chapter, EMC Chapter, CS Chapter, RAS/CSS Joint Chapter, and joint with Carleton University
Mar 30, 2015. Algonquin College, Ciena- Optophotonics Lab (Room T129)	Technical DL	Self-Organizing Small Cell Networks Speaker: Dr. Ekram Hossain, University of Manitoba, Winnipeg	19/31	ComSoc/CESoc/BTS Joint Chapter, EDS/SSCS/CASS Joint Chapter, EMBS Chapter, RS/PEL Joint Chapter, EdA, IEEE Ottawa Section
April 16, 2015 Algonquin College,	Technical	Applications of Petri Nets in Communications - Calculation of Probability	13/16	ComSoc/BT/CE Joint Chapter, EMBS Chapter, RS/PEL

Ciena- Optophotonics Lab (Room T129)		Distributions of Performance Variable in Petri Net Models Speaker: Dr. Faruk Hadziomerovic, Independent Consultant, Ottawa, ON, Canada		Joint Chapter, PES Chapter, EdA, ACS Branch, and joint with Algonquin College
May 11-15 2015 Shaw Centre, Ottawa, ON, Canada		IFIP/IEEE International Symposium on Integrated Network Management 2015 (IM 2015)	500	Co-sponsorship: IEEE Communications Society, IEEE Ottawa Section, and IEEE ComSoc Ottawa Chapter
Thursday November 12, 2015 Algonquin College, Ciena- Optophotonics Lab (Room T129)	Technical	Agility for an App-centric Network - Integrated Management of Software Defined Infrastructure Speaker DL : Prof. Bhaskar D. Rao, University of California, San Diego, USA		ComSoc/BT/CE Joint Chapter, EMBS Chapter, RS/PEL Joint Chapter, PES Chapter, EdA, ACS Branch, and joint with Algonquin College
Wednesday November 18, 2015. Algonquin College, Ciena- Optophotonics Lab (Room T129)		Terrestrial broadcast vs. LTE-eMBMS: Competition and cooperation Speaker DL: Marco Breiling, IEEE BTS distinguished lecturer, Chief scientist of the broadband & broadcast Fraunhofer Institute for Integrated Circuits (IIS), Erlangen, Germany		ComSoc/BT/CE Joint Chapter, EMBS Chapter, RS/PEL Joint Chapter, PES Chapter, EdA, ACS Branch, and joint with Algonquin College
Thursday November 26, 2015 Algonquin College, Ciena- Optophotonics Lab (Room T129)		SDN/NFV Technology Trends and Academic Research in Canada Speaker : Chris Bachalo, CTO Juniper Networks Canada		ComSoc/BT/CE Joint Chapter, EMBS Chapter, RS/PEL Joint Chapter, PES Chapter, EdA, ACS Branch, and joint with Algonquin College
March 18, 2016 University of Ottawa		Joint Symposium on Optical Communications Speakers: - Prof. Dan M. Marom, Hebrew University Maurice O'Sullivan, Ciena		PHOS Chapter, APP/MTTS Joint Chapter, and ComSoc/CESoc/BTS Joint Chapter

	- 9	liegfried Janz, NRC		
Tuesday April 5, 2016. Algonquin College, Ciena- Optophotonics Lab (Room T129)	De and and Ac Sp Dr. Dir	EE Standards evelopment Ecosystem d ComSoc Standards d Standards-related tivities eakers: Alexander D. Gelman, rector - Standardization ograms Development, emSoc		ComSoc/BT/CE Joint Chapter, RS/PEL Joint Chapter, PES Chapter, EdA, ACS Branch, and joint with Algonquin College
Wednesday June 8, 2016. Algonquin College, Ciena- Optophotonics Lab (Room T129)	Qu Bic Sp Sc Un Pa *s.	eing with Diamond: from lantum Photonics to onics Eyes leaker: Steven Prawer, hool of Physics, liversity of Melbourne, rkville, 3010, Australia, prawer@unimelb.edu.au	5/7	PHOS Chapter, ComSoc/BT/CE Joint Chapter, RS/PEL Joint Chapter, EMBS Chapter, AICN Affinity Group), EdA, ACS Branch, and joint with Algonquin College
Thursday, July 14, 2016 University of Ottawa	in I Pre Na Me To Se Se Sta Sp So Infe Oiv	pic 1: Recent Progress Microwave Antenna ecision Measurement at ational Institute of etrology (NIM) of China pic 2: Quantum Based If-traceable RF E-field ansing by Using Rydberg ates reaker: Dr. Zhenfei ang, EMC Laboratory, ormation & Electronic vision, National Institute Metrology (NIM) of ina		AP/MTT Joint Chapter, EMC Chapter, Chapter, ComSoc/BT/CE Joint Chapter, and School of Electrical Engineering and Computer Science
Thursday July 21, 2016 Algonquin College, Ciena- Optophotonics Lab (Room T129)	IoT He Sp Pre	impact on the future of ealthcare and Wellness eaker: Fawzi Behmann, esident TelNet anagement Consulting,		ComSoc/BT/CE Joint Chapter, EMBS Chapter, RS/PEL Joint Chapter, PES Chapter, EdA, ACS Branch, and joint with Algonquin College

The EEE Ottawa Section and the IEEE Ottawa ComSoc / CESoc / BTS Joint Chapter hosted the 2015 IFIP/IEEE International Symposium on Integrated Network Management (IM 2015) in Ottawa, Ontario, Canada at the Ottawa Shaw Centre on May 11 - May 15, 2015.

The IM 2015-Ottawa attracted and brought together the world's industry leaders, scientists, academics, engineering professionals, policy makers, and government officials to the presentations of keynotes, panels, technical papers, workshops, tutorials, and mini-conferences. For participants, it stimulated the scientific exchange of ideas, the identification of future trends in communications, and the illumination of business opportunities.

List of proposed unique events that are to be held:

Ottawa ComSoc/BTS/CES Joint Chapter is the winner of the 2016 Communications Society Chapter Achievement Award (2016 CAA):

On Friday, July 8, 2016, IEEE Communications Society has announced that IEEE Ottawa ComSoc/BTS/CES Joint Chapter is the winner of the 2016 Communications Society Chapter Achievement Award (2016 CAA) in North America Region (R1-R7). This is for the second time, the Ottawa ComSoc/BTS/CES Joint Chapter was the winner the Chapter Achievement Award in 2010. Also, the chapter was the winner of the Chapter of the Year 2010 Award.

On Dec. 6, 2016, the IEEE Communications Society will present the Award plaque to the Ottawa Chapter at the GLOBECOM 2016 Awards Luncheon, in Washington DC, USA.

CPMT -Components, Packaging and Manufacturing Technology Society

Chair: Qi-Jun Zhang, qjz@doe.carleton.ca

Total Number of Technical Meetings:

This Year ____5__(Oct 2015 - Oct 2016)_____ Last Year ___7__(Oct 2014 - Oct 2015)____

Activity Date,	Activity Type (Tech	Title/Speaker or	Attendance	Joint Activity
Time,	Meeting, Workshop,	Workshop Name	IEEE/Total	Sponsors
Location	DL, etc) and Brief			-
	Description			
January 22, 2016, Carleton University	Technical meeting	Wonderful World of Nonlinearity: Modeling and Characterization	12/30	CPMT, AP/MTT, EMC

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		of RF and		
		Microwave		
		Circuits/Prof.		
		Jose Pedro		
March 30,	Technical meeting	Electromagnetic	8/23	EMC, AP/MTT,
2016, Fidus		Environmental		CPMT
Systems		effects in Tactical		
		Communication		
		Systems/Dr. Kris		
		Hatashita		
May 16,	Technical meeting	Preventing RFIC	5/9	EMC, AP/MTT,
2016		interference		
Fidus		issues: floorplan		CPMT
Systems		development,		0
		isolation- and		
		grounding		
		strategy/Dr. Jan		
		Niehof		
May 25,	Technical meeting	Seeing is	5/9	EMC, AP/MTT,
2016	Tooming	Believing,	0,0	CPMT
Fidus		Demonstration		OT IVIT
Systems		data showing		
		three EMC		
		Concepts/Dr.		
lub dd	Ta ab mis all mass atimes	Scott Piper	12/25	AD/MIT EMAG
July 14, 2016	Technical meeting	Recent Progress	12/25	AP/MTT, EMC,
University of		in Microwave		CPMT,
Ottawa		Antenna		ComSoc/BTS/CES
Ottawa		Precision		
		Measurement at		
		National Institute		
		of Metrology		
		(NIM) of		
		China/Dr. Zhenfei		
		Song		

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

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

Vice Chair: Dr. Eric David

Website: http://www.ieeeottawa.ca/officers/chapters

Activity Date,	Activity Type (Tech	Title/Speaker or	Attendance	Joint Activity
Time,	Meeting, Workshop,	Workshop Name	IEEE/Total	Sponsors

Location	DL, etc) and Brief Description			
13-Jan-16	Tech	Dr. Maher Abdelkhalek	2/22	
25-May-16	Tech	Prof. Eric David	1/22	
19-July-16	Tech	Dr. Refat Ghunem	2/30	
07-Sep-16	Tech	Amr Said	2/22	
21-Sep-16	Tech	Dr. Yazid Hadjadj	2/10	_

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

Chair: Ram Achar, <u>achar@doe.carleton.ca</u>
Vice Chair: Dr. Ihsan Erdin, <u>erdinih@gmail.com</u>

Website: www.doe.carleton.ca/~achar

Joint Chapter: 1. Circuits and Systems Society

2. Solid State Circuits Society3. Electronic Devices Society

Total Number of Technical Meetings:

6 Technical Talks (out of which 2 were DLs)

This Year (2015: Jan- Oct) _2_

IEEE Ottawa CASS/EDS/SSC Activity Report (Nov. 6 2015 – Sept. 30 2016)

Synopsis

The CASS/EDS/SSC joint chapter of Ottawa has been active in organizing and promoting the events/activities of importance to the Ottawa IEEE members. During the last 12 months, it arranged a total of 6 Technical Talks (out of which 2 were DLs). Typical attendance for the talks ranged between 10 to 60 or higher. In addition, one CASS administrative meeting and additional meetings with the student volunteers were held.

Major accomplishments of the chapter include several recognitions for its leadership/activities by the CAS (Circuits and Systems) **CASS Subsidy Grant of US\$2500**.

In addition, a high-quality website for the CASS/EDS/SSCS joint chapter has been developed (http://www.ieeeottawa.ca/eds_cas_sscs/)

Following is a list of major talks arranged by the chapter during the past year

#	Date/Place	Activity Type	Title/Speaker	Attendance IEEE/Total	IEEE Society/ Joint Sponsors
1	Oct. 29 2015. (Carleton University)	Technical SSCS DL	Cognitive Radio Transceiver Chips Speaker: Eric Klumperink Professor, Uni of Twente, Netherlands	14/22	CASS/EDS/SSC, Joint with Carleton University
2	Nov. 16, 2015 (Carleton University)	Technical	Spatio-Temporal Electromagnetic Wave Engineering for Tomorrow's Radio using Phasers, Metasurfaces and Metamaterials Speaker: Dr. Shulabh Gupta, Ecole Polytechnique de Montreal	18/25	CASS/EDS/SSC, Joint with Carleton University
3	Nov. 25, 2015 (Carleton University)	Technical	Integration Techniques for Millimeter-Wave Imaging and Sensing Systems Speaker: Dr. Tarek Dejrafi, Ecole Polytechnique de Montreal	14/19	CASS/EDS/SSC, Joint with Carleton University
4	Dec. 15, 2015 (Carleton University)	Technical	Hybrid Plasmonics: Applications in Integrated Optics and Sensing Speaker: Dr. Mo Mojahedi Dept. of ECE, University of Toronto, ON	8/14	CASS/EDS/SSC, Joint with Carleton University
5	Jan. 15, 2016 (Carleton	Technical SSCS DL	CMOS Transceiver Circuits for Short-Reach Optical	12/21	CASS/EDS/SSC, Joint with Carleton

	University)		Communication		University
			Speaker: Dr. Tony Chan Caurosone City Toronto Dept. of ECE, University of Toronto, ON		
6	Jan. 22, 2016 (Carleton University)	Technical	Metasurfaces for Energy Harvesting and Far-Field Wireless Power Transfer Speaker: Dr. Omar M. Ramahi Dept. of ECE, University of Waterloo	12/20	CASS/EDS/SSC, Joint with Carleton University
7	Sept. 19, 2016 (Carleton University)	Administr ative	IEEE Ottawa CAS/EDS/SSCS Officers Meeting	2/2	CASS/EDS/SSC
8	Jan . 1 2016- Sept. 1, 2016)	Administr ative	IEEE Ottawa CAS/EDS/SSCS Officers with Students for Mentoring, to develop the new website)	2/5	CASS/EDS/SSC

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.

Awards and/or Recognitions

Major accomplishments of the chapter include several recognitions for its leadership/activities by the CAS (Circuits and Systems) and SSCS (Solid State Circuits) Societies:

• A CASS Chapter Subsidy Grant of \$2500 grant in recognition of the leadership provided by the Ottawa chapter and to further develop IEEE and CASS activities in Ottawa.

EMC - Electromagnetic Compatibility Society

Chair: Syed Bokhari, Email: bokhari@ieee.org Vice Chair: Qiubo Ye, Email: giubo.ye@crc.gc.ca

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

Activity Date, Time, Location	Activity Type (Tech Meeting, Workshop, DL, etc) and Brief Description	Title/Speaker or Workshop Name	Attendance IEEE/Total	Joint Activity Sponsors
November 10, 2015 FIDUS SYSTEMS Inc.,375 Terry Fox Dr. Ottawa, ON, K2K 0J8	DL	Professor Ram Achar, Demystifying Signal Integrity in High Speed Designs	7/12	AP/MTT and CPMT
March 30, 2016, FIDUS SYSTEMS Inc.,375 Terry Fox Dr. Ottawa, ON, K2K 0J8	Technical meeting	Mr. Kris Hatashita, EMC Expert, Director General Land Equipment Program Management Topic: Electromagnetic Environmental effects in Tactical Communication Systems	8/15	AP/MTT and CPMT
May 16, 2016, FIDUS SYSTEMS Inc.,375 Terry Fox Dr. Ottawa, ON, K2K 0J8	DL	Dr. Jan Niehof, BU Automotive – BL Car Infotainment & Driver Assistance, NXP Semiconductors, The NETHERLANDS Topic: Preventing RFIC interference issues: floorplan development, isolation- and grounding strategy"	9/4	AP/MTT and CPMT
May 25, 2016 FIDUS SYSTEMS Inc.,375 Terry Fox	DL	Mr. Scott Piper, EMC Specialist, General Motors, Dearborn Michigan	9/5	AP/MTT and CPMT

Dr. Ottawa, ON, K2K 0J8	Topic : Seeing is Believing – Demonstration data showing three EMC Concepts	

List of unique events held, sponsored or organized

2016 International EMC Symposium was Held in Ottawa from July 25-29, 2016.

Qiubo Ye was the VICE General Chair, and Syed Bokhari was the co-chair of Technical Papers Committee.

Both received certificates of recognition and conference was a success equaling or exceeding recent conferences in terms of revenue, attendance and number of papers.

List of proposed unique events

Not known yet

EMBS - Engineering in Medicine and Biology Society

Chair: Sreeraman Rajan, Ph.D. SMIEEE, <u>sreeraman@ieee.org</u>
Vice-Chair: James Green, Ph.D. SMIEEE, <u>jrgreen@sce.carleton.ca</u>
Secretary: Yuu Ono, Ph.D. SMIEEE, <u>yuuono@sce.carleton.ca</u>
Webmaster: Adrian Chan, Ph.D. SMIEEE, <u>adcchan@sce.carleton.ca</u>

Treasurer: Dr. Andrew Law

Website: http://www.embs.ieeeottawa.ca/index.php

Total Number of Technical Meetings:

This Year 16 Last Year 15

Activity Date, Time, Location	Activity Type (Tech Meeting, Workshop, DL, etc) and Brief Description	Title/Speaker or Workshop Name	Attendance IEEE/Total	Joint Activity Sponsors
26/09/2016				
1:00:00 PM,	Technical	Modeling respiratory	3/34	No
Carleton	recimical	motion in radiation	3/34	140

University		therapy/Dr. Emily Heath		
28/07/2016 1:00:00 PM, Carleton University	Technical	Personalized healthcare by control engineering approaches/Dr. Levente Kovács	4/12	Instrumentation and Measurement Society, Joint Societies of Computational Intelligence and Systems, Man and Cybernetics, Computer Society
21/07/2106 18:00:00 PM, Algonquin	Technical	IoT impact on the future of Healthcare and Wellness/Fawzi	27/16	The IEEE Ottawa, IEEE Ottawa Joint Chapter of Communications Society, Consumer Electronics Society, and Broadcast Technology Society (ComSoc/CESoc/BTS), IEEE Ottawa Engineering in Medicine and Biology Society (EMBS), IEEE Ottawa Power and Energy Society (PES), IEEE Ottawa Joint Chapter of Reliability Society and Power Electronics Society (RS/PELS), IEEE Ottawa Educational Activities (EA), and Algonquin College Student Branch
College	Technical	Behmann	27/16	(ACSB)
08/06/2016 6:00:00 PM, Algonquin College	Technical	Seeing with Diamond: from Quantum Photonics to Bionics Eyes/Professor Steven	5/12	IEEE Ottawa Joint Chapter Seminar: Photonics Chapter, ComSoc Chapter, EMBS Chapter,

		Prawer		and ACN Group
30/05/2016 1:00:00 PM, Carleton University	Technical/DL	NANOTEXTURED MICROFLUIDIC SUBSTRATES BIOMIMICKING STRUCTURED HIERARCHY OF LIVING SYSTEMS /Dr. Samir Iqbal	19/58	Life Member Affinity, Joint chapters of TM/PC/SIT, IEEE Ottawa Section
30/05/2016 8:30:00 AM, Carleton University	Technical	Plenary Talk: LEARNING HOW TO LEARN: Powerful mental tools to help you master tough subjects/Dr. Barbara Oakley	46125	Life Member Affinity, Joint chapters of TM/PC/SIT, IEEE Ottawa Section
25/05/2016 2:00:00 PM, Carleton University	Technical	Large Area Electronic Skin/Dr. Ravinder Dahiya	13/29	Cosponsored by EMBS, EMC, AESS and VTS Chapters
08/03/2016 1:00:00 PM, Carleton University	Technical	Cognition in Action: Using near infra-red spectroscopy to study changes in cerebral oxygenation during dual-task performances/Professor Sarah Fraser	5/16	No
09/02/2016 1:00:00 PM, Carleton University	Technical	Infection Prevention and Control Considerations in Medical Design for Neonatal Intensive Care/ Professor Chantal Trudel	2/15	No
02/02/2016 1:00:00 PM,	Technical	Image Processing Methods for	3/22	No

Carleton		Applications in Medical		
University		Imaging: Towards		
		Translating Personalized		
		Biomarkers into Clinical		
		Care/Professor Eranga		
		Ukwatta		
		all to the		
		Silicon nitride and		
		Indium Tin Oxide		
27/44/2045		Nanostructures for		
27/11/2015		dielectrophoretic		
2:30:00 PM,		manipulation of		
University		biomolecules/Dr. Sara	,	
of Ottawa	Technical	Mahshid	0/19	No
17/11/2015		Real-time language		
1:00:00 PM,		processing using EEG		
Carleton		measurements/Dr.		
University	Technical	Masako Hiratoni	2/9	No
		Agility for an App-		
		centric Network -		
12/11/2015		Integrated		
6:00:00 PM,		Management of		
Algonquin		Software Defined		
College	Technical	Infrastructure/	21/30	?
		Advanced Diagnostic		
		and Therapeutic		
13/10/2015		Applications of		
1:00:00 PM,		Biomedical		
Carleton		Ultrasound/Dr. Sacha		
University	Technical	Nandlal	4/11	No
07/10/2015				
10:00:00		Learning in		
AM,		nonstationary		CI/SMC, CompSoc,
University		environments/Dr.		IMS, RAS/CSS and
of Ottawa	Technical/DL	Cesare Alippi	10/16	chapters
06/10/2015	Technical	Engineering solutions to	2/15	No
1:00:00 PM,	recillicar	Cardiology problems: a	2,13	140

Carleton	match made in	
University	Ottawa?/Dr. Calum	
	Redpath	

List of unique events held, sponsored or organized

International Student Conference 2016: May 29-31, 2016 that included educational program and competition. This was done with CU@EMBS student club which is the student club of the IEEE Ottawa EMBS chapter.

IMS - Instrumentation and Measurement Society

Chair: Voicu Groza, Email: vgroza@ieee.org Vice Chair: Branislav Djokic, Email: branislav@ieee.org

Activity Date, Time, Location	Activity Type (Tech Meeting, Workshop, DL, etc) and Brief Description	Title/Speaker or Workshop Name	Attendance IEEE/Total	Joint Activity Sponsors
03 Aug 2016 07:00 / University of Ottawa	DL Technical Talk	"The State of the Art of Neurodynamic Optimization - Past, Present, and Prospect" / Prof. Jung Wang, Hong Kong	18/30	COMPSOC, IMS, RAS
28 Jul 2016 01:00 / Carleton University	DL Technical Talk	"Personalized healthcare by control engineering approaches"/ Levente Kovacs, Obuda University, Hungary	11/20	IM09, CompSoc, CIS, EMBS
19 Apr 2016 06:30 / University of Ottawa	DL Technical Talk	"Granular Computing: Pursuing New Avenues of Computational Intelligence" / Witold Pedrycz, University of Alberta, Canada	9/17	C16; IM09; CS23/RA24
09 Dec 2015 11:00 / University of Ottawa	DL Technical Talk	"Every picture tells a story: visual cluster assessment and rectangular relational data" / James Bezdek, Ottawa	11/3	C16; IM09

List of unique events held:

Members of the IMS Ottawa chapter contributed to the activity of the P-1721 standard project in the frame of the Instrumentation and Measurement Society's Technical Committee on Medical and Biological Measurements IMS TC-25.

Photonics Society Chapter

Chair: Dr. Jianping Yao, jpyao@site.uOttawa.ca Vice Chair: Dr. Winnie Ye, winnie ye@carleton.ca

Treasurer: Dr. John Bernard, <u>John.Bernard@nrc-cnrc.gc.ca</u>

Past-Chairman: Kexing Liu, kexing.liu@ieee.org

Activity Date, Time, Location	Activity Type (Tech Meeting, Workshop, DL, etc) and Brief Description	Title/Speaker or Workshop Name	Attendance IEEE/Total	Joint Activity Sponsors
2016-06-08, Algonquin College	Seeing with Diamond: from Quantum Photonics to Bionics Eyes	Prof Steven Prawer	12	Jointly with ComSoc, EMBS, ACN Chapters and Group
2016-01-13, Algonquin College	"Unintentional Impacts of a LED Lighting" - Putting the Brakes on Hype	Robert Dick	13	A joint IEEE Ottawa Photonics Chapter and IEEE Ottawa Alliance of Consultant Network Group Seminar, supported by the IEEE Algonquin College Student Branch
March 18, 2016, University of Ottawa	Joint Symposium on Optical Communications	Prof. Dan M. Marom Dr. Maurice O'Sullivan Dr. Siegfried Janz	50	IEEE Ottawa Photonics Chapter and IEEE Ottawa Microwave Theory and Techniques Chapter

2016-03-07,	Opportunities in	Dr Kexing Liu	17	Carleton University
Algonquin College	Photonics The Ottawa Photonics Chapter past chair Dr Kexing Liu, a veteran in photonics industry, will be presenting to the undergraduate students major in photonics at the Carleton University (Canada) about the impacts of photonics, the future of photonics and the carriers opportunities in photonics. This is a technical as well as outreach and educational event.			
September 14, 2016, University of Ottawa	IEEE Ottawa Advances in Photonics Lecture Series	Prof. Bob Boyd	50	University of Ottawa

List of unique events held

Photonics North 2016 (co-sponsor)

List of proposed unique events

Co-sponsor of Photonics North 2017

PES - Power and Energy Society

Chair: Wahab Almuhtadi, almuhtadi@ieee.org
Vice Chair: Branislav Djokic, branislav@ieee.org
Website: http://www.ewh.ieee.org/soc/pes/ottawa

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Total Number of T	echnical Meetings:	
This Year	7	

Last Year

Activity Date,	Activity Type	Title/Speaker or Workshop	Attendance	Joint Activity
Time, Location	(Tech Meeting, Workshop, DL, etc) and Brief Description	Name	IEEE/Total	Sponsors
October 26- 28, 2015, London, Ontario, Canada	Conference Technical	Electrical Power & Energy Conference 2015 (EPC2015) "SMARTER RESILIENT POWER SYSTEMS"	200	Technical Co- sponsorship from PES Ottawa Chapter
Thursday November 12, 2015 Algonquin College, Ciena- Optophotonics Lab (Room T129)	Technical Technical	Agility for an App-centric Network - Integrated Management of Software Defined Infrastructure Speaker DL : Prof. Bhaskar D. Rao, University of California, San Diego, USA		ComSoc/BT/CE Joint Chapter, EMBS Chapter, RS/PEL Joint Chapter, PES Chapter, EdA, ACS Branch, and joint with Algonquin College
Wednesday November 18, 2015. Algonquin College, Ciena- Optophotonics Lab (Room T129)	Technical	Terrestrial broadcast vs. LTE-eMBMS: Competition and cooperation Speaker DL: Marco Breiling, IEEE BTS distinguished lecturer, Chief scientist of the broadband & broadcast Fraunhofer Institute for Integrated Circuits (IIS), Erlangen, Germany		ComSoc/BT/CE Joint Chapter, EMBS Chapter, RS/PEL Joint Chapter, PES Chapter, EdA, ACS Branch, and joint with Algonquin College
Thursday November 26, 2015 Algonquin College, Ciena- Optophotonics Lab (Room T129)	Technical	SDN/NFV Technology Trends and Academic Research in Canada Speaker: Chris Bachalo, CTO Juniper Networks Canada		ComSoc/BT/CE Joint Chapter, EMBS Chapter, RS/PEL Joint Chapter, PES Chapter, EdA, ACS Branch, and joint with Algonquin College
Tuesday April 5, 2016. Algonquin	Technical	IEEE Standards Development Ecosystem and ComSoc Standards		ComSoc/BT/CE Joint Chapter, RS/PEL Joint Chapter, PES

College, Ciena- Optophotonics Lab (Room T129)		and Standards-related Activities Speakers: Dr. Alexander D. Gelman, Director - Standardization Programs Development, ComSoc		Chapter, EdA, ACS Branch, and joint with Algonquin College
Thursday July 21, 2016 Algonquin College, Ciena- Optophotonics Lab (Room T129)	Technical	IoT impact on the future of Healthcare and Wellness Speaker : Fawzi Behmann, President TelNet Management Consulting, Inc.		ComSoc/BT/CE Joint Chapter, EMBS Chapter, RS/PEL Joint Chapter, PES Chapter, EdA, ACS Branch, and joint with Algonquin College
Tuesday September 20, 2016 Algonquin College, Ciena- Optophotonics Lab (Room T129)	Technical	Next Generation Photovoltaics Speaker: Dr. Karin Hinzer, Professor, Canada Research Chair Canada, SUNLAB, School of Electrical Engineering and Computer Science, University of Ottawa	12/8	PES Chapter, RS/PEL Joint Chapter, IAS Chapter, EdA, ACS Branch, and joint with Algonquin College
	Technical	Tour of NRC Heavy Vehicle Testing Facility	7/5	RS/PEL Joint Chapter, PES Chapter
October 12- 14, 2016, Ottawa, Ontario, Canada	Conference Technical	Electrical Power & Energy Conference 2016 (EPC2016) "SMARTER RESILIENT POWER SYSTEMS"	200	Host and organizer by PES Ottawa Chapter Technical Co- sponsorship from PES Ottawa Chapter
October 22-24 2017, Saskatoon, SK, Canada	Conference Technical	Electrical Power & Energy Conference 2017 (EPC2017) "Advanced Technologies for Renewable Energy Systems and Smart Grids"	200	Technical Co- sponsorship from PES Ottawa Chapter

RAS & CSS – Joint Chapter of Robotics & Automation and Control Systems Societies

Chair: Jurek Sasiadek, jsas@ccs.carleton.ca

Vice Chair: Marek Zaremba, <u>Marek.Zaremba@uqo.ca</u>

Activity Date, Time, Location	Activity Type (Tech Meeting, Workshop, DL, etc) and Brief Description	Title/Speaker or Workshop Name	Attendance IEEE/Total	Joint Activity Sponsors
August 3, 2016	Technical Meeting "The State of the Art of Neurodynamic Optimization: Past, Present, and Prospect"	Prof. Jun Wang, Univ. of Hong- Kong	Place: Raven Telemetry , 25/15	RAS/CSS, CM/SMC, ComSoc,IM
April 19, 2016	Technical Meeting "Fuzzy Logic Systems"	Prof. Witold Pedrycz, Univ. of Alberta	Place: University of Ottawa, 37/12	RAS/CSS, CM/SMC
March 26, 2016	Technical Meeting "Fire Detection Robot Using Interval-valued Dempster-Shafter Fusion Method "	Ms. Ying Dong, U of O	Place: University of Ottawa, 18/6	RAS/CSS
October 7, 2016	Technical Meeting "A new allocation method for over- actuated robotic space systems".	Ms. Helene Evain, SuperAero, - Toulouse	Place: Carleton University	RAS/CSS

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

Chair: Raed Abdullah, RaedAbdullah@ieee.org

Co-vice chair: Xiaoyu (Kevin) Wang, <u>xiaoyuw@doe.carleton.ca</u> Co-vice chair: Tanya Gachovska, <u>tgachovska@yahoo.com</u>

Activity Date, Time, Location	Activity Type (Tech Meeting, Workshop, DL, etc) and Brief Description	Title/Speaker or Workshop Name	Attendance IEEE/Total	Joint Activity Sponsors
Tuesday September 20, 2016, 6PM-8PM, Algonquin College, 1385 Woodroffe Ave., School of Advanced Technology,	Seminar	Next Generation Photovoltaics by Dr. Karin Hinzer, Professor, Canada Research Chair Canada, SUNLAB, School of Electrical Engineering and Computer Science, University of	12/20	Reliability Society & Power Electronics Society Joint Ottawa Chapter (R-PEL); Vehicular Technology Society (VTS); Power and

T Duilding	<u> </u>	Ottowo		Energy Cociety
T-Building, Ciena- Optophotonics Lab (Room T129)		Ottawa		Energy Society (PES; Instrumentation and Measurement Society (IMS); Educational
				Activities, and Algonquin College IEEE Student Branch
Friday, May 27, 2016, 12PM-2PM, 2320 Lester Rd	Field Technical Visit	Tour of NRC Heavy Vehicle Testing Facility by Bruce Playfair	5/8	Reliability Society & Power Electronics Society Joint Ottawa Chapter (R-PEL); Vehicular Technology Society (VTS); Power and Energy Society (PES); Industry Applications Society (IAS); and Instrumentation and Measurement Society (IMS)
Thursday, January 29, 2015, 6PM- 8PM, Algonquin College, 1385 Woodroffe Ave., School of Advanced Technology, T-Building, Ciena- Optophotonics Lab (Room T129)	Seminar	Modeling in Power Electronics - Comparison of the Forward Voltage Drop of Si and SiC High Voltage Diodes by Dr. Tanya K. Gachovska, Solantro Semiconductor Corp., Ottawa	10/14	IEEE Ottawa Section RS-PEL, PES, IMS, Educational Activities, and Algonquin College IEEE Student Branch

Best Practices

Providing value to the members by teaming with symbiotic chapters and affinities.

List of unique events held

Sponsoring the IEEE Electrical Power and Energy Conference 2016 (IEEE EPEC 2016) event, that includes tours.

List of proposed unique events

Planning more DLs for PELS. Bidding on the IEEE PES General Meeting 2020. Will be applying for IEEE RS and PELS awards.

SP, OE, & GRS – Joint Chapter of Signal Processing, Oceanic Engineering, and Geoscience and Remote Sensing

Chair: Yifeng Zhou, yifeng.zhou@crc.gc.ca

Activity Date, Time, Location	Activity Type (Tech Meeting, Workshop, DL, etc) and Brief Description	Title/Speaker or Workshop Name	Attendance IEEE/Total	Joint Activity Sponsors
November 17, 2015, 10:00-11:00, Shaw Centre	Canadian Tracking and Fusion Group (CTFG) Workshop 2015 Technical Talk	"The Coming Flood of Earth Observation Data: Challenges and Opportunities" by Dr. Maria Rey, Space Strategies Consulting Ltd	8/33	C16 and CIS11/SMC28 chapters
November 17, 2015, 11:20-12:05, Shaw Centre	CTFG Workshop 2015 Technical Talk	"Data Fusion in the hierarchy of sensors dedicated to the Surveillance of Canada's borders" by Major (R) Marc Fricker, Canadian Space Society	8/33	C16 and CIS11/SMC28 chapters
November 17, 2015, 14:15-15:00, Shaw Centre	CTFG Workshop 2015 Technical Talk	"Performance of the SAR-AIS Association System in Polar Epsilon" by Dr. Paris Vachon, DRDC	8/33	C16 and CIS11/SMC28 chapters
November 17, 2015, 15:25-16:10, Shaw Centre	CTFG Workshop 2015 Technical Talk	"The evolution of space based maritime surveillance in Canada - a commercial perspective" by	8/33	C16 and CIS11/SMC28 chapters

	William Jefferies,	
	LOOKNorth	

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

Co Chair: Barbara Waruszynski, <u>b.waruszynski@sympatico.ca</u>

Activity Date, Time, Location	Activity Type (Tech Meeting, Workshop, DL, etc) and Brief Description	Title/Speaker or Workshop Name	Attendance IEEE/Total	Joint Activity Sponsors
April 20, 2015, 18:00- 21:00, Algonquin College	Technical Activity/ Workshop on professional and personal development for entrepreneurs (Professional Development Seminar Series)	The Versatile Engineer (Tim Ragan)	15	TMC/PCS/SSIT/ AICN (co-sponsor)
May 30, 2015, 8:30- 10:00, Carleton University	Technical Activity: Presentation/ Plenary Talk	Learning How to Learn: Powerful Mental Tools to Help You Master Tough Subjects (Professor Barbara Oakley)	79	IEEE EMBS/ TMC/PCS/SSIT
May 30, 2015, 13:00- 14:30, Carleton University	Technical Activity (EMBS DL Lecture)	Nanotextured Microfluidic Substrates Biomimicking Structured Hierarchy of Living Systems (Dr. Samir Iqbal)	39	IEEE EMBS/ TMC/PCS/SSIT
March 23 and 29, April 13, June 8, and Sept 14, 2015	Technical Activity: Webinars	Interactive Webinars on Starting and Managing a Consulting Firm (Kayne McGladrey)	10 people per webinar	AICN/ TMC/PCS/SSIT (acted as co-sponsor but not in vtools)
May 17, June 10, September 29, 2015	Virtual Technical Activity Working Group Discussions	Carleton University Disabilities Research Working Group	Approx. 5 people per meeting	TMC/PCS/SSIT

Awards and/or Recognitions

- IEEE Communications Society Appreciation Certificate for role as Patron C-Chair for IFIP/IEEE International Symposium on Integrated Network Management (IM 2015)
- IEEE Senior Member status: bronze plaque received in 2014 (did not mention this in previous reports)

IV. List of unique events held

- Series of technical interactive webinars on starting and managing a consulting firm (with AICN)
- Interactive workshop on The Versatile Engineer: Workshop for Entrepreneurs (very well received). This was part of the Professional Development Seminar Series.
- Carleton University Disabilities Research Working Group: Member of working group with the
 Disability Studies Committee at Carleton University in Ottawa in helping to establish a program
 and grants for the History of Disability and Technology in Canada: Virtual Exhibitions initiative.

V. List of proposed unique events

- IEEE Ottawa Section Professional Development Seminar Series Workshops and Webinars (developing interpersonal skills both personally and professionally). Workshop to be held in November, 2016 on Creativity in Communications for Engineers.
- Continued discussions with Carleton University Disabilities Research Working Group.
- IEEE Ottawa Section Strategic Planning Retreat to be held in the near future. Date to be determined.
- Planning of proposed conference on SSIT in 2020 (TBD).

VTS - Vehicular Technology Society

Chair: Hugh Reekie, Email: h.reekie@ieee.org Vice-Chair: Barry Pekilis, Email: barry.pekilis@ieee.org

Website: http://www3.bell.net/max-com/ottawa.vts.html

Activity Date,	Activity Type (Tech	Title/Speaker or	Attendance	Joint Activity
Time,	Meeting, Workshop,	Workshop Name	IEEE/Total	Sponsors
Location	DL, etc) and Brief			
	Description			
25 May 2016	Tech meeting –	Dr. Ravinder	12 30	AESS
2 – 4 pm	Electronics &	Dahiya, Univ of		
Carleton U,	sensors on Flexible	Glasgow, UK		
Ottawa	substrates	_		
9 Sept 2016	Antenna Suystems	Dr. Sudhakar Rao	10 20	AP/MTT, VTS
2-4 pm	for 21st Century			etc
Ottawa U	spacecraft			

Affinity Group Reports

AICN - Alliance of IEEE Consultant Network

Chair: Bhagvat Joshi, bjoshi@ieee.org

Chair: Mike Bourassa, majb2008@gmail.com Website: http://www.ieeeottawa.ca/aicn/about

Activity Date, Time, Location	Activity Type (Tech Meeting, Workshop, DL, etc) and Brief Description	Title/Speaker or Workshop Name	Attendance IEEE/Total	Joint Activity Sponsors
13 Jan 2016 Algonquin College, Ottawa	Tech Meetings	"Unintentional Impacts of a LED Lighting" - Putting the Brakes on Hype - Robert Dick	10/13	IEEE Section Photonics
Webinars Mar 23/16 Mar 29/16 Apr 13/16 Jun 8/16 Sep 14/16 Oct 12/16	Tech Meetings	"Interactive webinars on starting and managing a consulting firm – a total of 8 meetings	10	TM14/PC26/SIT30
20 April 2016 Algonquin College, Ottawa	Tech Meeting/Prof Dev	The Versatile Engineer— Your Path to Mission Effectiveness. Kayne McGladrey	20/20	TM14/PC26/SIT30

List of unique events held

Interactive webinars on managing a consulting firm / starting their own business.

This is a set of 8 interactive modules presented weekly via a live webinar. The typical format is 1-hour presentation followed by time for Q&A. Kayne McGladrey, a practicing consultant and IEEE Member, presents these webinars. Kayne has also presented face-fact to the IEEE Vancouver section. These seminars have proved to be very successful with about 8-10 attendees per event on average

List of proposed unique events

- Internet of Things what's it all about
- Update on 5G cellular
- Spectrum management possible speaker from the CRC
- Workshop on tax, liability and other issues relevant to those who wish to practice as consultants or similar roles. Workshop format jointly with other IEEE chapters
- Presentation on Financial Planning and Taxation for self-employed/consultants
- Finding Bad Guys with Big Data Dr. D. Skillicorn of Queens. This talk addresses the challenges and opportunities of detecting criminals with the current

abundance of data.

• Engineering Startups in HealthCare – M. Paquet, CEO Aetonix – M. Paquet speaks from first-hand experience of the various financial, physical, emotional, and market challenges facing startups in Healthcare.

YP - Young Professionals

Chair: Alawi Assaggaf, assaggaf@ieee.org

Website: https://www.facebook.com/IEEEYPOttawa

Activity Date, Time, Location	Activity Type (Tech Meeting, Workshop, DL, etc) and Brief Description	Title/Speaker or Workshop Name	Attendance IEEE/Total	Joint Activity Sponsors
July 25 th 6:00-6:50pm at D'Arcy McGees	Networking	Social Monday - IEEE EMC	45	IEEE EMC YP
July 25 th 7:00-9:30pm	Social event	Haunted Walk - IEEE EMC	30	IEEE EMC YP
12:00- 1:30pm at Blue Cactus	Luncheon	Luncheon with Joanna Hill - IEEE EMC	25	IEEE EMC YP
June 9th 6pm - 7pm	Meeting	Revision of IEEE YP	3	
Oct 1st, 6pm - 8pm	Meeting	Preparing for the 'reclaim you group' event	2	

List of unique events held

See first three entries for Section II

List of proposed unique events

- Hands-on workshops in different areas (programing, designing, development, ... etc)
- Hackathons/Weekend projects in conjunction with R7 YP groups
- Social events and meetups.
- Joint event with upcoming conferences and other committees in the section

LM - Life Member

Chair: Wolfram Lunscher, wlunscher@gmail.com

Activity Date, Time, Location	Activity Type (Tech Meeting, Workshop, DL, etc) and Brief Description	Title/Speaker or Workshop Name	Attendance IEEE/Total	Joint Activity Sponsors
5/30/2016 8:30	Technical	Plenary Talk: LEARNING HOW TO LEARN: Powerful mental tools to help you master tough subjects	125	LIFE MEMBER
5/30/2016 13:00	Technical	IEEE EMBS DL Lecture: NANOTEXTURED MICROFLUIDIC SUBSTRATES BIOMIMICKING STRUCTURED HIERARCHY OF LIVING SYSTEMS	58	LIFE MEMBER

WIE - Women in Engineering

Chair: Winnie Ye, Winnie ye@carleton.ca

Vice Chair: Zahra Mohammad, ZahraMohammad@cmail.carleton.ca

Treasurer: Eugenia Lambiri Webmaster: Laura Machado

Website: http://www.ieeeottawa.ca/wie

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

May 31, 2016, 12:00 pm, Carleton University	Women in Engineering Panel, consisted of 4 women engineers and a moderator, answering questions prepared ahead of time and questions from the audience	Women in Engineering Panel, IEEE EMBS International Student Conference (ISC) 2016	~100	CU @ EMBS
March 9, 2016 6:00pm- 9:00p,	IEEE WIE Ottawa Wine and Cheese, network event	IEEE WIE Ottawa Wine and Cheese	~100	WIE uOttawa and Carleton Student Chapters
Fall 2016, exact date to be determined	IEEE WiE Workshop Series – CAD/3D Modeling for beginners	CAD/3D Modeling for beginners, run by vice chair	Unknown at this time	CU @EMBS IEEE WiE Carleton (tentative)

List of proposed unique events

Winter 2016:

Workshop Series: Website Design - Blogging Edition

Spring 2016:

Women in Photonics Panel, for the International Conference Photonics North, 2017 3D CAD for beginners workshop Oct 2016

Ottawa- Special Interest Group on Humanitarian Technology (SIGHT)

Chair: Alfredo Herrera, <u>alfredo.herrera@ieee.org</u> Vice Chair: Sean Campeau, <u>seancampeau@rogers.com</u>

Technical Activities: Kin Sze, kinsze@ieee.org

No activities reported

Student Branch Reports

Algonquin College

Chair: Abdul Majid Abdul Rahim, abdu0289@algonquinlive.com

Vice Chair: Curtis Cunliffe, cunl0004@algonquinlive.com Secretary: Ben Haines hain0044@algonquinlive.com Faculty Advisor: Abdul Al-Azzawi, Ph.D., IEEE SM alazzaa@algonquincollege.com

Electrical Power and Energy Conference (EPEC)

October 26-28, 2015 London, ON, Canada

IEEE Algonquin College Student Branch Activities:

- 1. IEEE Algonquin College Student Branch Meeting, Wednesday, September 20, 2016, to elect the new IEEE Algonquin Student Branch.
- 2. IEEE Algonquin College Student Branch Meeting, Wednesday, September 14, 2016, to recruit new members.
- 3. IEEE Algonquin College Student Branch Meeting, Wednesday, September 7, 2016, to tidy up the IEEE Room T111a.
- 4. IEEE Algonquin College Student Branch Meeting, September 6-7, 2016, Orientation week.
- 5. IEEE Algonquin College Student Branch Open House to recruit new members, September 6 to 7, 2016, in ACCE building (CA), from 10:00 a.m. to 3:00 p.m. and 5:00 p.m. to 8:00 p.m., Algonquin College.
- 6. IEEE Algonquin College Student Branch applied for \$500 from Algonquin Students for year 2016.
- 7. IEEE Algonquin College Student Branch Meeting, Thursday, March 3, 2016.
- 8. IEEE Algonquin College Student Branch for Battle Royal Meeting at 7:00 p.m., March 22, 2016, Room T-129.
- 9. IEEE Students Oral Paper Presentation, March 30, 2016, Kingston, ON, Canada.
- 10. IEEE Algonquin College Student Branch Meeting, Wednesday, April 20, 2016.
- 11. Attended all IEEE Ottawa Section Executives Meeting, Thursday, July 7, 2016.
- 12. Attended all IEEE Ottawa Section Executives Meetings in year 2016.
- 13. IEEE Algonquin College Student Branch will attend IEEE Ottawa Section GM, 2016.
- 14. IEEE EMBS ISC 2016, Expanding the Boundaries of Biomedical Engineering and Healthcare, May 29th to 31st, 2016, Ottawa, ON, Canada.
- 15. IEEE Ottawa Section Workshop, Agility for an App-centric Network-Integrated Management of Software Define Infrastructure, By Rodney G. Wilson, Senior Director External Research, Ciena, Ottawa, ON, Canada, Thursday, November 12, 2015, in Algonquin College, Ottawa, Room T-129.

Carleton University

Chair: Sean Tohidi, chair@ieee.carleton.ca

Vice-Chair: Ismail Syed, <u>vicechair@ieee.carleton.ca</u> Secretary: Kevin Garrett, <u>secretary@ieee.carleton.ca</u> Treasurer: Alex Dube, <u>treasurer@ieee.carleton.ca</u>

Website: http://www.ieeecarleton.ca

Activity Date,	Activity Type (Tech	Title/Speaker or Workshop	Attendance IEEE/Total	Joint Activity Sponsors
Time,	Meeting, Workshop, DL,	Name		

Location	etc) and Brief			
	Description			
October 6th 2015, 12PM - 5PM, Carleton University, MC Foyer	IEEE Carleton Outreach	IEEE Day 2015	50 people visited the booth	None
Bi-Weekly Tuesday (September 28 th 2015 – April 4 th 2016) 6PM, Carleton University, ME4233	Technical Software Related Workshops (Linux, Git, LateX, Web Development)	 Introduction to Linux Introduction to Group Software Development using Git Report and resume writing with LateX Introduction to Web Development (extended workshop) 	10/20	None
Bi-Weekly Thursday (October 8 th 2015 – April 2016) 6PM, Carleton University, AA510	Advanced Software Workshops (Django, machine learning, Android apps, electronic peripherals, Microsoft Azure)	Introduction to the Django Web Framework Concepts of machine learning Android app development Introduction to peripherals Machine Learning with Microsoft Azure	10/20	None
October 10th and October 24th 2015, Carleton University, AA510	Technical Hardware Workshop	Introduction to PCB design	10/20	None
October 17 th 2015, Carleton University	Engineering Competition	Carleton University Engineering Competition (Programming Competition)	6	Carleton Student Engineering Society
Weekly – Thursday (October 1st 2015 – September 29th 2016, looking to continue all year) 6:30PM, Carleton University, AA510	- Technology Meeting - Workshops - Maker Space - Special Project Support - Special Project Starting Entity	IEEE Carleton's Stay Late And Make (IEEE Carleton SLAM)	10/20	- Room and Equipment bought by Systems and Computer Engineering Department at Carleton University

		T.a	T = / -	1
Friday, October 23rd 2015, 5:30PM, Carleton University MC2014	Women In Engineering social event to connect upper year women with lower year women	Women In Engineering: Ask WIE	5/15	None
Saturdays (November 7, 14, 21 2015) 12PM, Carleton University, ME4233	In-depth web development workshop series	Web development workshop: building your own personal web page from scratch	10/30	None
November 20, 2015 Carleton University, MC 2014	IEEE Carleton social event	IEEE Carleton board game night	10/15	None
Monday December 8 th 2015, 5:30PM, Carleton University ME4195	- Technical Competition - Course Competition - Engineering Design Competition - Electrical Design	IEEE Carleton Analog Design Competition (IEEE Carleton's ELEC3509 Competition)	4/16	- ELEC3509 Course Instructor - Department of Electronics (Carleton University) for room and equipment support - Course Instructor and TAs for judging
Monday December 21st, 1pm, Ten Sushi, 1490 Bank St	IEEE Carleton social event	IEEE Carleton holiday lunch	10/15	None
January 17 th 2016, Tailgators, 1642 Merivale Road	- Volunteer Appreciation	IEEE Carleton Volunteer Appreciation Event	8/15	None
January 19th 2016, 6pm Carleton University, ME 4359	SPAC Conference networking workshop	SPAC Networking Workshop	5/15	Carleton Co-op and Career Services
January 21st 2016, Hellenic Centre, 6PM	- Professional Awareness - Networking Event - Conference	Student Professional Awareness Conference (SPAC2016)	225 total Probably 50 or so IEEE (Cannot find the detailed statistics)	- IEEE Ottawa Section - Skyworks - Ericsson - Blackberry - Kongsberg

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				Gallium NRC-ICT IBM Faculty of Engineering and Design (Carleton) General Dynamics Systems and Computer Engineering Department (Carleton) Department of Electronics (Carleton) Algonquin College Carleton University Student Association Graduate Student Association (Carleton) Co-op and Career Services (Carleton) IEEE UOttawa IEEE AlgonquinC
February 2 2016, 6pm, Carleton University, ME 4359	Volunteer Orientation	IEEE Carleton Volunteer Orientation	5/15	None
March 9 th 2016, 6pm, Orange Art Gallery, 290 City Center Avenue	- Conference - Women in Engineering Celebration - Networking - Social	7 th Annual WIE Wine and Cheese	70	- IEEE UOttawa - IEEE Ottawa Section
March 16th, 2016, 6pm Carleton University, ME 4359	Carleton research talk	Research at Carleton with Professor Chinnek	5/20	None
March 27 th 2016, 2pm, Merivale Bowling	- Volunteer Appreciation - Social Gathering	SPAC and Office Volunteer Appreciation	20/30	- IEEE UOttawa

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Center, 1916				
Merivale				
Road				
March 22nd,	Technical Workshop	IEEE and CSES LateX	5/15	- Carleton
2016, 6pm		Workshop		Student
Carleton				Engineering
University,				Society
ME 4359				
March 28th,	Technical Competition	IEEE Carleton Papers	5/15	None
2016, 6pm		Competition		
Carleton				
University,				
ME 4359				
April 2nd, 3rd,	Hackathon, technical	SLAM Hacks hackathon	10/20	None
2016,	competition			
Carleton				
University,				
AA510		<u> </u>	00/00	
April 30th -	- Executives get	IEEE Carleton University	20/20	None
May 1st, Mont	together	Executives' Retreat		
Tremblant	- Executive			
D: Washin	Retreat	Francisco Mantino	Llavally 45/45	None
Bi-Weekly –		Executive Meeting	- Usually 15/15	None
Wednesday (October 7 th				
2015 – April				
7 th 2016)				
6:00PM,				
Carleton				
University, ME 4359				
	- Meeting	SPAC planning Meeting	- Usually 8/15	None
Bi-Weekly – Tuesday	- Meeting	SPAC planning Meeting	- Usually 6/15	None
(October 5th				
2015 –				
January 18				
2016)				
6:30PM,				
Carleton				
University,				
MC2014				
July 21st	- Meeting	Executive Meeting	15/15	None
2016,			1.5, 1.5	
Carleton				
University				
MC2014				
Monday	- Meeting	Executive Meeting	15/15	None
August 22nd			<u> </u>	
2016,				
Carleton				
University				
MC2014				
Biweekly -	- Meeting	Executive Meeting	15/15	None

Wednesday,		
(September		
14 2016 -		
April 2017)		
Carleton		
University		
MC2014		

Best Practices

- Family like environment:
 - o 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 a number of volunteers that volunteer their time to keep the McNaughton Resource Centre open as much as possible. These volunteers then 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.
 - o 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 18 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:

- o 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 AlgonquinC 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 University Robotics Club (CURC). This collaborations allows 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.

Awards and/or Recognitions

- IEEE 2016 Exemplary Student Branch:
 - o Based on all the workshops, 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.
- IEEE 2016 Darrel Chong Award (Gold):
 - o Our Stay Late And Make (SLAM) initiative of maker space/project initiatives won

Silver in the Darrel Chong Award. Being in beta, our SLAM initiative had lots of success last year. This year, we are looking to win the highest awards for this initiative.

List of unique events held

- Student Professional Awareness Conference (SPAC2016)
- BattleRoyale 9 (BR10)
- Workshops: Each workshop will be done twice, once each semester (bi-weekly)
 - o Introduction to Linux
 - o Introduction to Group Software Development using Git
 - o Technical Writing with LaTeX
 - o IEEE Carleton's PCB Design Workshop
 - o Introduction to web development
 - o Web Development: Building a website from scratch
 - Basic Soldering Through-hole
- 7th Annual WIE Wine and Cheese
- Competitions:
 - o Carleton University Engineering Competition (Programming Competition)
 - o IEEE Carleton Analog Design Competition (IEEE Carleton's ELEC3509 Competition)
 - IEEE Carleton Biomedical Electronics Competition (IEEE Carleton's SYSC3203 competition)
 - o IEEE Xtreme 9.0
 - o Carleton's Papers Competition
- Stay Late And Make (weekly)
- SLAM Hacks Hackathon
- Volunteers Appreciation
- SPAC and BR Volunteers Appreciation

List of proposed unique events

- Student Professional Awareness Conference (SPAC2017)
 - o Late January, 2017
 - o Location: Hellenic Centre (Ottawa, Prince of Wales Drive)
 - o Professional networking, conference, career development focused event.
 - Help from IEEE UOttawa and IEEE AlgonquinC is required for this event.
 - Approximately \$10000 in expenses and \$10000 in revenues expected from this event.
- BattleRoyale 10 (BR10)
 - o November 2016
 - o Location: Algonquin College (Building T)
 - Social, 24 hours gaming event for the gaming and technology enthusiasts.
 - o Work with IEEE UOttawa and IEEE AlgonquinC to organize the event.
 - o \$8000 in revenues and \$5000 in expenses are expected for the event.
- Workshops: Done in both semesters (bi-weekly)
 - Bi-Weekly (Wednesdays and Saturday if needed)
 - Location: Carleton University (ME4233)
 - Knowledge sharing and knowledge gaining
 - o Introduction to Linux
 - o Introduction to Group Software Development using Git
 - o Technical Writing with LaTeX
 - o Ruby on Rails development

- Introduction to Web Development
- o IEEE Carleton's PCB Design Workshop
- o Speaker: Ham Radios
- o Basics of Soldering
- Introduction to Mobile App Development
- 8th Annual WIE Wine and Cheese
 - o March 2017
 - o Location: Orange Art Gallery?
 - Women In Engineering celebration and a social event
 - o IEEE CarletonU WIE and IEEE UOttawa WIE
- WIE Social Get Together
 - o Fall semester get together
 - Winter semester get together
- Competitions:
 - Carleton University Engineering Competition (Programming Competition)
 - Mid October 2016
 - Winners go to the Ontario Engineering Competition
 - Organized with Carleton Student Engineering Society
 - Location: Carleton University
 - o IEEE Carleton FPGA Competition (IEEE Carleton's ELEC3500 Competition)
 - First week of December
 - Location: Carleton University ME4195
 - FPGA design competition for the ELEC3500 course. Students must innovate a Tug-of-War game on an FPGA board
 - \$300 budgeted for this competition
 - IEEE Carleton Analog Design Competition (IEEE Carleton's ELEC3509 Competition)
 - First week of December
 - Location: Carleton University ME4195
 - Analog design competition for the ELEC3509 course. Students must design an analog device (oscillator, amplifier, filter, etc).
 - \$200 budgeted for this competition
 - o IEEE Xtreme 10.0
 - October 22 2016
 - Location: Carleton University (TBD)
 - Organize a room for Carleton teams to use for the competition
 - o Carleton's Papers Competition
 - April 2017
 - Location: Carleton University (TBD)
 - Book a room for students to compete in, find judges and give prizes.
 - \$200 budgeted for this competition
- Stay Late And Make (weekly)
 - o Weekly, Thursday 6:30PM
 - o Location: Carleton University (AA510)
 - o Maker space, professional project get together. A space for students working on cool and awesome projects to meet other students and get to work together and help each other.
- Volunteers Appreciation
 - o January 2017
 - o Location: TBD
 - Appreciation of the hard working volunteers that help IEEE Carleton University
 Student Branch in organizing and running our events
- SPAC and BR Volunteers Appreciation
 - o March 2017

- o Location: TBD
- o Appreciation of the hard working volunteers that help IEEE CarletonU and the other Student Branches in Ottawa run SPAC and BR.
- SLAM Competitions
 - o Monthly, starting in October
 - o Location: Carleton University (AA510)
 - o Every month, SLAM will offer challenges to attendees to work on throughout the month. The best challenge submissions will win points and the people with the most points at the end of the semester will win prizes.

University of Ottawa

Chair: Danielle Marchand, chair@ieeeuottawa.ca

Vice Chair: Brendan Keyworth, vice-chair@ieeeuottawa.ca

Treasurer- William Pearson Secretary- Emilie Cobbold

Website: http://www.ieeeuottawa.ca

Activity Date, Time, Location	Activity Type (Tech Meeting, Workshop, DL, etc) and Brief Description	Title/Speaker or Workshop Name	Attendance IEEE/Total	Joint Activity Sponsors
October 6 th 2015	Open House	IEEE Day	35 Students	
October 23 rd 2015	Competition	IEEEXtreme 9	5 Students	
November 2 nd and 5 th 2015	Workshop	C Programming Tutorial	8 Students	
November 4 th 2015	WIE Event	Screening of Code Girl	20 students	uOttawa GSA
November 7 th 2015	Workshop	Linux Workshop	25 students	uOttawa CSSA
November 18 th 2015	Workshop	Microsoft Azure Resume Building Workshop	40 students	Microsoft
November 24 th 2015	Guest Speaker	Attosecond Lasers by Dr. Paul Corkum		Photonics Affinity Group
December 4 th 2015	WIE Social Event	Zumba Night	25 Students	WIE Student Affinity Group
December 7 th -11 th 2015	Study Sessions	Cookies N Cram	Many students throughout week	
January 13 th 2016	Guest Speaker	"Unintentional Impacts of a LED Lighting" by Robert Dick		uOttawa Photonics Chapter, Algonquin Student Branch

January 20 th 2016	Workshop	Ardunio Workshop	15 Students	
January 21 st	Conference	SPAC	160	IEEE Carleton
2016			Students+Attendees	Student Branch
February 29 th 2016	Workshop	C Programming Tutorial	5 students	
March 14 th 2016	Workshop	Raspberry Pi Workshop	20 Students	
March 16 th 2016	Networking Event	WIE Wine and Cheese	80 Students + 20+ Industry Professionals	Carleton Student Branch
March 30 th 2016	Tour	Ciena Field Trip	8 Students	Ciena Coorporation Ottawa
May 14 th 2016	LAN Competition	Battle Royale 9	99 Students	IEEE Carleton and Algonquin Student Branches
September 7 th 2016	Open House	Sub Assoiciation/Clubs Day	100 Students	Engineering Students Society
September 12 th 2016	Networking Event	Meet and Greet	20 Students	
September 13 th 2016	Social Event	IEEE Scavenger Hunt	20 Students	
September 15 th 2016	Workshop	Temperature Sensor Control Workshop	5 Students	Ottabotics
October 6 th 2016	Tour	uOttawa Server Room Tour	Estimated 10 Students	

Best Practices

- WIE Wine and Cheese
- Cookies N Cram Studying Sessions
- IEEE Battle Royale
- BigEngLittleEng Mentoring Program (launched Fall 2015)

List of unique events held

- WIE Zumba Night
- Microsoft Azure Workshop
- Ciena Field Trip

List of proposed unique events

- Hydro Quebec Tour, date TBD, \$1000 budget (busing)
- More technical workshops, \$400 budget
- Collaborative Event with other Engineering Student Sub Associations

IEEE Ottawa Section Executive 2016

The current IEEE Ottawa Section executive officers are as follows:

•Chair: Mrs. Janet Davis, SMIEEE – <u>janet.davis@ieee.org</u>

•Vice Chair: Ms. Anissa Shaddy - anissa@ieee.org

•Treasurer: Dr. Mike Bourassa, SMIEEE - michael.bourassa@ieee.org

•Secretary: Mr. Abdulhak Nagy - a.n.ca@ieee.org

• Past Chair: Dr. Rami Abielmona, SMIEEE, P.Eng. - rabielmo@ieee.org

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

IEEE Ottawa Section Elections for 2017

The Section officers proposed by the Nomination and Appointments Committee for the Ottawa Section Executive in 2017:

•Chair: Ms. Anissa Shaddy - anissa@ieee.org

•Vice Chair: Mr. Alfredo Herrera - <u>alfredo.herrera@ieee.org</u>

•Treasurer: Mr. Mohamed Abdelazez - m.h.abdelaz@gmail.com

•Secretary: Ms. Zahra Mohammad - <u>zahramohammad@cmail.carleton.ca</u>

Past Chair: Mrs. Janet Davis, SMIEEE – janet.davis@ieee.org

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. Rami Abielmona rabielmo@ieee.org no later than Oct. 12, 2016.

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

List of 2016 Section Executives and Officers

Name	Position	Email	Initials	
EVECUEIVEC				
EXECUTIVES				
Janet Davis	Chair	janet.davis@ieee.org		
Anissa Shaddy	Vice Chair	anissa@ieee.org		
Abdulhak Nagy	Secretary	a.n.ca@ieee.org		
Mike Bourassa	Treasurer	michael.bourassa@ieee.org		
Rami Abielmona	Past Chair	rabielmo@ieee.org		
COMMITTEES				
Annual General Meeti	ng (AGM) Planning			
Anissa Shaddy	Chair	anissa@ieee.org		
Awards & Recognition	ıs			
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		kexing.liu@ieee.org		
Communications / Pu	blications			
Maytham Sabbagh	Chair	maytham.sabbagh.ca@ieee.org		
	Newsletter Editor			
Ismail Syed	Webmaster	ismail.syed@ieee.carleton.ca		
Educational Activities (EA)				
Branislav Djokic	Chair	branislav@ieee.org		
Engineers in Transition	on Activities (EiT)			
	Chair			

Membership Develop	• •	aniana Giana a sa	
Anissa Shaddy	Chair	anissa@ieee.org	
Maryam Kaka	Vice Chair	maryam.kaka@ieee.carleton.ca	
Nominations and Ap	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 Con	npetition		
Heidi Li	Chair	heidi.li.ca@ieee.org	
	Treasurer		
Strategic Planning			
Barbara Waruszynski	Chair	b.waruszynski@sympatico.ca	
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 P	rogram (TISP)		
Wolfram Lunscher	Chair	wlunscher@gmail.com	
Janet Davis		janet.davis@ieee.org	
Senior Membership			
Sreeraman Rajan	Chair	sreeraman@ieee.org	
Conference			
Wolfram Lunscher	Chair	wlunscher@gmail.com	
Wahab Almuhtadi		almuhtadi@ieee.org	

Raed Abdullah		raedabdullah@ieee.org	
TECHNICAL CHAD	renc		
TECHNICAL CHAP	I EKS		
AESS - Aerospace and	l Electronic Systems So	ociety	
Hugh Reekie	Chair	h.reekie@ieee.org	
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AP/MTT - Microwave	es/Antennas/Propagat	tion Society	
Qingsheng Zeng	Chair	qingsheng.zeng03@hotmail.com	
Leonard Petrie	Vice Chair	petrie@rogers.com	
Yuming Tao	Secretary	yuming.tao@pmcs.com	
<u> </u>		y / Systems, Man and Cybernetics Soc	ciety Joint Chapter
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	Vice Chair, Cl		
George Yee	Vice Chair, SMC	g.m.yee@ieee.org	
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CompSoc - Computer	Society		
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ComSoc, BTS & CES			
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		acturing Technology Society	
Qi-Jun Zhang	Chair	<u>qjz@doe.carleton.ca</u>	
DEIS - Dielectrics and	Electrical Insulation S	Society - Joint Ottawa-Montreal Chapt	ter
Refat Ghunem	Chair	Refat.Ghunem@nrc-cnrc.gc.ca	
Eric David	Vice Chair		
EDS, CAS & SSCS			
Ram Achar	Chair	achar@doe.carleton.ca	
Ihsan Erdin	Vice Chair	ierdin@ieee.org	
	ic Compatibility Societ	<u>-</u>	I
Syed Bokhari	Chair	bokhari@ieee.org	

O' I V	Mine Chair	11.00	
Qiubo Ye	Vice Chair	quibo.ye@crc.ca	
EMBS - Engineering in	n Medicine and Biology	Society	
Sreeraman Rajan	Chair	sreeraman@ieee.org	
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Yuu Ono	Secretary	yuuono@sce.carleton.ca	
Adrian Chan	Treasurer/Webmaster	adcchan@sce.carleton.ca	
IMS – Instrumentation	n and Measurement So	ciety	
Voicu Groza	Chair	vgroza@ieee.org	
Branislav Djokic	Vice Chair	branislav@ieee.org	
IAS – Industry Applica	ntions Society		
Patrick Chimfwembe	Chair	pchimfwembe@rogers.com	
PHO- Photonics Socie	ty		
Jianping Yao	Chair	jpyao@eecs.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	Chair	almuhtadi@ieee.org	
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Carl Kropp	Secretary	kropcarl@aol.com	
Raed Abdullah	Treasurer	raedabdullah@ieee.org	
RAS / CSS - Robotics &	& Automation Society /	Control System Society - Joint Chapter	
Jurek Sasiadek	Chair	jurek_sasiadek@carleton.ca	
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R/PEL - Reliability So	ciety / Power Electron	ics Society - Joint Chapter	
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SP, OE & GRS			
Yifeng Zhou	Chair	yifeng.zhou@ieee.org	
	Vice Chair		
	t .	ı	

TEMS, PCS & SSIT				
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	Vice Chair			
VTS – Vehicular Techi	iology Society			
Hugh Reekie	Chair	h.reekie@ieee.org		
Barry Pekilis	Vice Chair			
	Secretary			
AFFINITY GROUPS				
AICN - Alliance of IEE	E Consultant Network			
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YP (formerly GOLD) -	Young Professionals			
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	Vice Chair			
	Treasurer			
	Secretary			
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LM – Life Member				
Wolfram Lunscher	Chair	wlunscher@gmail.com		
WIE – Women in Engi	neering			
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Ottawa - Special Interest Group on Humanitarian Technology (SIGHT)				
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Kin Y. Sze	OS-ARIS Project Lead	kinsze@ieee.org		

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DIODENT BRUNCH					
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	Vice Chair				
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Monty Dhanani	Computer Society	-			
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Aniela Opolski	Webmaster				
Matthew Langlois	Director				
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	Faculty Advisor				
Other Student Bodies					
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•	<u>'</u>	<u> </u>			