



IEEE Ottawa Section Report to the Annual General Meeting 2015

November 6th, 2015



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IEEE Ottawa Section Chair's Report

The IEEE Ottawa Section had a guiding vision this year embodied in the acronym **IEEE** which could also stand for **Innovate, Educate, Engage** and **Excel**. This was a year of innovation as we launched several new programs - the main one in conjunction with Christie Lake Kids including the launch of an EPICs initiative, the first one in R7. We also launched the very successful *Professional Development Seminar Series*.

Educate: Education is also a big part of the section initiatives, getting students interested in Science and Engineering through TISP initiatives and executing lesson plans with students. We executed the rubber band race car initiative as part of the inner city Christie Lake Kids program. We also worked on spreading the news about the International Year of Light at events and also made it the theme for the 2015 AGM.

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 had teams from Toronto and Jamaica attend! There were 5 challenges this year: Sumo, Da Vinci, Drag Race, King of the Hill and Hockey v2.0. This event continues to be popular with teachers and students. It is a highly successful event. We have also engaged with Professional Engineers Ontario (PEO) and have built a good working relationship between IEEE and PEO. The industrial liaison position on the executive has been filled as we work toward more engagement with industry.

Excel: the Ottawa Section supports many excellent initiatives by the executive members, committee and chapter chairs and the student branches of University of Ottawa, Carleton University and Algonquin College. 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.

Currently there are approximately 2,200 members in the Section (an increase of 7% year-over-year) with at least one fellow grade member in almost every chapter. The Section is financially sound and very active with technical activities. In the past AGM-to-AGM year, the Section held 5 Distinguished Lectures, 29 technical activities without double counting and three conferences and two workshops.

Christie Lake Kids Initiative

- Did TISP workshop with CLK kids; Raed Abdullah, Wolfram Lunscher and Dmitry Klisch. Kids enjoyed it a lot. They sent feedback email, they loved it. Ask to bring sample card. They loved everybody was involved. Very positive and happy.
- We have yet to pursue a further activity with them. Potentially something at their summer camp. Epics funding available to us.

Professional Development Seminar Series (PDSS)

- An initiative to create interpersonal skills in our domains and personal lives. Our very first speaker, Mr. Robert Venzel, was presented with a certificate on his extremely well done consulting primer webinar that benefitted all the attendees.

2015 International Year of Light (IYL)

- Section and its Photonics Chapter are working very actively to ensure the success of Photonics North conference and other related initiatives such as ILUAV and IHTC 2015 conference
- IYL will be the theme of this year's Section AGM
- Three articles published in the "Photonics in Canada" magazine
- Presentation given to Algonquin College students

Section Picnic – July 2015

- Held at Andrew Haydon Park
- 45-50 registrations
- Well attended, including guests from OSPE and PEO

IEEE Standards Association Presentation

- Delivered by Erin Spiewak (Program Manager, Technical Program Operations) and Moira Patterson (Sr. Manager Global Activities, Technology Policy and International Affairs) via videolink to the Section officers.
- A very lively and informative session between the SA executives and the Section officers. The Section would like to find ways to engage with SA in the near future.

"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
- 10 members on the team, including 5 who were IEEE members
- Competition held in Texas
- Achieved 3rd place overall out of 63 teams from 11 countries; highest achievement by a Canadian team in the history of this competition

Ottawa Robotics Competition 2015

- Great job done on the event; very lively and engaging.
- Event featured by the Lokeel (local blog) and Ericsson's internal newsletter
- 55 teams, 260 students, 40 volunteers. Scheduled was very well organized.
- Hundreds of photos and videos
- Somerfield Academy team from Bermuda won the King of the Hill challenge
- Lots of appreciation from students, patrons and parents
- There was consensus among the Section Officers that the creation of a sponsorship committee at the OS level (3-4 people) will help; this committee will be doing work in parallel to the students. Ram Achar volunteered to take the lead for that.
- Jeffrey Arcand has brought momentum to this competition
- A discussion on the involvement of other important players such as the OS RAS Chapter and the RAS as whole ensued. They need to be actively involved and also help financially support this competition. Also ICF and the Eastern Area Conference.

2015 International Humanitarian Technology Conference (IHTC)

- Conference went well in terms of overall quality and satisfaction with the caliber of papers, speakers, keynotes, etc. From that perspective, the conference was a success.
- The major thing that did not go well is that the conference was poorly attended. Almost no repeat attendance from the 2014 conference – probably because the papers from that conference were still not published when our conference took place. Many individuals simply didn't show up and some cancelled last minute. This means that we over calculated significantly in terms of attendance for food and for the banquet in particular, where we had only 50 attendees, and we had expected about 100.
- Another issue was the length of the conference. We had scoped the conference for a similar timeframe as the first. For 2016, we are capping the conference at 2.5 to 3 days maximum.

2015 Integrated Network and Service Management (IM) conference

- Held from May 11-15 at the Shaw Centre in Ottawa.
- Conference was successful; one of its kind; attendance ~ 300-350, very good cooperation with Shaw Centre; excellent keynote speakers; acceptance rate 26%
- \$20k in seed money is back; we should close up after all expenses paid; above \$10k-20 surplus.
- All attendees were happy: they got cell phones and battery charges back.
- Certificate extended to Sreeraman Rajan for patron co-chair and student travel grant chair and to Kexing Liu for publicity co-chair

Distinguished Lecturers

- **Keeping Moore's "Law" Alive – System Scaling is the Key (HPCPS-2015 Invited Talk)**
Speaker: Prof. Subu Iyer, UCLA, Los Angeles
Date/Time: Aug. 11, 2015
Location: Carleton University
Organizers: CASS/EDS/SSC, Joint with Section, LM, Carleton Uni., IEEE Ottawa Section
- **Future Directions for Silicon Radio Frequency Electronics (HPCPS-2015 Invited Talk)**
Speaker: Prof. John Long, Uni of Waterloo
Date/Time: Aug. 11, 2015

Location: Carleton University

Organizers: CASS/EDS/SSC, Joint with Section, LM, Carleton Uni., IEEE Ottawa Section

- **Trends on High-Performance Micro and Nano Electronics**

Speaker: Prof. Ricardo Reis, Brazil

Date/Time: Aug. 11, 2015

Location: Carleton University

Organizers: CASS/EDS/SSC, Joint with Section, LM, Carleton Uni., IEEE Ottawa Section

- **Learning in Non-Stationary Environments**

Speaker: Cesare Alippi, Professor, Politecnico di Milano, Italy.

IEEE Distinguished Lecturer for the Computational Intelligence Society

Date/Time: Wenesday October 7, 2015, 10:00-11:30 (EDT)

Location: University of Ottawa, Fauteux 137, 57 Louis Pasteur

Organizer: CI/SMC Ottawa Joint Chapter together with CompSoc, EMBS, IMS and RAS chapters

- **Cognitive Radio Transceiver Chips**

Speaker: Eric Klumperink, Professor, University of Twente, Netherlands

Date/Time: Oct 29, 2015

Location: Carleton University

Organizers: CASS/EDS/SSC, Joint with Carleton University

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

New and Noteworthy

2015 has been a successful year with numerous recognitions for our Section, chapters and volunteers.

- The Photonics Chapter received the **IEEE Photonics Society's Chapter of the Year Award**, which is the most prestigious award given to a chapter, in just recognition of the chapter's quality of programming, original workshops, humanitarian activities, community involvement as well as the International Year of Light 2015 participation;
- The Section had four members inducted as **Engineering Institute of Canada Fellows**: Professors Peter Xiaoping Liu and Ram Achar of Carleton University, Mr. Colin Clark and Dr. Branislav Djokic.
- Prof. Q. J Zhang was inducted as **Fellow** into Canadian Academy of Engineering.

- Wahab Amultahdi was recognized by the Engineering Institute of Canada with the **Canadian Pacific Railway Engineering Medal** in recognition of his tireless service to the Section and the IEEE Canada Foundation;
- Mr. Raed Abdullah received the **Wally S. Read Service Award** of IEEE Canada for outstanding and sustained dedication in serving IEEE Canada and its volunteers;
- Professor Ram Achar became **Distinguished Lecturer** for the EMC Society.
- Dr. Tony Ponsford continues as **Distinguished Lecturer** for the AESS Society.
- Professor Adrian Chan received the **2015 Outstanding Canadian Biomedical Engineer Award** from the Canadian Medical and Biological Engineering Society at the World Congress on Medical Physics and Biomedical Engineering in Toronto.
- Professor Monique Frize was given **Life Time Achievement Award** for her contributions at the World Congress on Medical Physics and Biomedical Engineering in Toronto.
- Larus Technologies received the IEEE Computational Intelligence Society's **2015 Outstanding Organization Award** in recognition of its commitment and excellence in the Computational Intelligence field; Larus has already been awarded the Ottawa Section 2011 Appreciation Award for its support of IEEE Activities.
- Algonquin College's Mechanical Engineering Technology student Dmitry Klisch came in second place in the IEEE Global Humanitarian Technology Conference held October 10-13th in Silicon Valley. Among the 27 research papers submitted in the annual conference, Dmitry, a second-year student was bested only by a Master's level student from Yale University;
- The Raven Knights team of Carleton University students ranked 3rd out of 63 teams from 11 countries in the annual CANSAT Competition organized by The American Institute of Aeronautics and Astronautics.

The IEEE Ottawa Section has also been quite involved in the management and execution of several local, national and international conferences as a technical and/or financial co-sponsor. Here is a snapshot of our involvement so far this year:

1. **INCOM 2015** (IFAC Symposium on Information Control in Manufacturing) was held from May 11-13, 2015 at the Shaw Centre with Professor Marek Zaremba as its General Chair. The Section was a technical co-sponsor.
2. **IM 2015** (IEEE International Symposium on Integrated Network Management) was held at the Shaw Centre from May 11-15, 2015 with Dr. Raouf Boutaba and Dr. Wahab Almuhtadi as General Co-chairs. The Section was a technical and financial co-sponsor.
3. **IHTC 2015** (International Humanitarian Technology Conference) was held from May 31 to June 4 with the theme "Supporting communities toward resilience" and Dr. Maria Rey as the General Chair. The Section was a technical and financial co-sponsor.
4. **Photonics North** was held from June 9-11 at the Shaw Centre.

5. **HPCPS 2015** (IEEE International Workshop on High-Performance Chip, Package and Systems) was held on August 11th, 2015 at Carleton University with Professor Ram Achar as its General Chair. The Ottawa Section sponsored both technically and financially.
6. **NEMO 2015** (IEEE MTT-S International Conference on Numerical Electromagnetics and Multiphysics Modeling and Optimization) was held from August 11-14 at Carleton University with Professors Q.J. Zhang and Ram Achar as General Co-chairs. The Section was a technical co-sponsor.
7. **RE 2015** (IEEE International Requirements Engineering Conference) was held from August 24-28 at the Shaw Centre with Professor Daniel Amyot as the General Chair. The Section was a technical and financial co-sponsor.
8. **HAVE 2015** (IEEE International Workshop on Haptic Audio-Visual Environments and Games) was held on October 11-12, 2015 at the University of Ottawa with Professor Abdulmotaleb El Saddik as the General Chair. The Section was a technical co-sponsor.
9. **CTFG 2015** (Canadian Tracking and Fusion Group) Workshop will be held from November ~~17~~16-18, 2015. The Section is a technical co-sponsor of the event.
10. The Ottawa Section is officially a technical and/or financial co-sponsor of the EMC 2016 and EPEC 2016 and is negotiating sponsorships with 2 other conference committees and their respective IEEE Societies.

Committee Reports

Annual General Meeting (AGM) Planning Committee

Chair: Janet Davis

The IEEE Ottawa Section celebrated its 70th AGM on October 10, 2014 at the Ottawa Convention Center. It was a well-attended function. The first part of the function was the official part where elections for the Executives for 2015 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 Mr. Luc Brule, who was the Vice-President of the Canadian Space Agency (CSA) and the theme was "Canada in Space". The student volunteers from Carleton University, the University of Ottawa and Algonquin College helped to ensure the success of the AGM under Mrs. Janet Davis', 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 2015 were held and the following members were declared elected unanimously unopposed: Chair: Mrs. Janet Davis, SMIEEE, Vice Chair: Ms. Anissa Shaddy, Treasurer: Mike Bourassa, Ph.D, SMIEEE and Secretary Rafael Falcon, Ph.D.

IEEE Ottawa Section recognized the following Volunteers for their outstanding contributions:

- Dr. Voicu Groza: **Outstanding Service Award** for his relentless commitment and service to the Ottawa Section in 2014
- Dr. Rami Abielmona: **Outstanding Volunteer Award** for his contributions through serving as the Chair of the IEEE Ottawa Section in 2013- 2014
- Dr. Azzedine Boukerche: **Outstanding Engineer Award** for his contributions to wireless networking and mobile computing in general and vehicular sensors, networking in particular.
- Dr. Halim Yanikomeroglu: **Outstanding Engineering Educator Award** for his contributions to the education and training of students and professionally in the areas of wireless and digital communications.

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 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 2014 IEEE Ottawa Section Awards are as follows:

Corporate Awards:

Outstanding Information and Communications Technology Award:

- **Superna** for its innovation and leadership in data center networking and software solutions.
- **BLiNQ Networks** for its innovative non-line-of-sight (NLOS) wireless backhaul solutions for outdoor small cell networks.

Outstanding High Technology Award:

- **YOU.i Labs** for innovation in design of the interface engine for TV everywhere in a multi-screen video application.
- **Annidis Corporation** for Leadership in technology innovation, entrepreneurship, and global sales in the medical device industry.

Outstanding Clean Technology Award:

- **PowerStick.com Inc.** for innovation in designing, engineering, and manufacturing of portable power charging solutions.

Appreciation Awards:

- **Ottawa Tourism** for its valuable support to the IEEE Ottawa Section in bringing and organizing international and national conferences in Ottawa.

AGM Keynote Speaker Appreciation

Appreciation Plaque:

- **Mr. Luc Brûlé, Director, Canadian Space Agency** in appreciation for his contributions to the IEEE Ottawa Section as the AGM 2014 Keynote Speaker.

Recognition Individuals

Outstanding Engineer Award

- Dr. Azzedine Boukerche for his outstanding contributions to wireless networking and mobile computing in general and vehicular sensor networking in particular.

Outstanding Service Award

- Dr. Voicu Groza for his relentless commitment and service to the IEEE Ottawa Section and its activities

Outstanding Educator Award

- Dr. Halim Yanikomeroglu for contributions to the education and training of students and professionals in the areas of wireless and digital communications.

Outstanding Volunteer Award

- Dr. Rami Abielmona for his contributions through service as the Chair of the Ottawa Section in 2013-2014.

Recognition Ottawa Section Groups

Outstanding Chapter Award:

- The Ottawa Chapter of Engineering in Medicine and Biology Society for organizing technical meetings and promoting membership development in 2014.

Outstanding Affinity Group Award

- The Alliance of IEEE Consultant Network for 2014 organizing technical and professional meetings in 2014.

Outstanding Student Branch Award

- The University of Ottawa Student Branch for organizing events and providing services to its members in 2014.

Outstanding Committee Award

- The Ottawa Robotics Competition for its outstanding performance and service in 2014.

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 maytham.sabbagh@ieee.carleton.ca

Newsletter Editor: Amir Ammar, amir.m.ammar@gmail.com

Section Webmaster: Ismail Syed ismail.syed@ieee.carleton.ca

The list of core responsibilities and the associated highlights are presented below:

- Newsletter: Twelve newsletters were edited and distributed.

- Website: The website has been updated regularly to advertise the events organized by the different chapters and committees.
- General Communication: coordinated the dissemination of notices and events by acting as liaison between the Section and IEEE eNotice Mailing Service department.
- Mailing list: was maintained and updated regularly.
- Virtual Community: was maintained and updated regularly.
- A plan for communication department was put together to provide a better publication and marketing.

For next year, the plan is to create the following groups listed below to make the work easier for everyone, and also make the communication more interactive and up-to-date. All the following groups depend on the availability of volunteers who are ready to work in the said areas and improve how the IEEE Ottawa Section handles communications and publications.

- Website Development Team:
 - Have a team of volunteers ready to help the different chapters and affinity groups in their web development work.
 - This team will be contacted whenever a chapter or affinity group is looking to build a new website or work on improving an existing one.
 - Whether a website for the chapter or affinity group, or a website for an event being organized by the chapter or affinity group.
 - This team will be the main point of contact for web development help.
 - The team will consist of mainly students looking to get involved and get something good to write on their resumes.
- Graphic Design Team:
 - This team is similar to the Website team except, it will mainly work on graphic design related work.
 - Whether it is posters, logos, enhanced website media or conference and meeting nametags. This team will be the main point of contact in creating the said graphic design work.
 - This team will consist of students and anyone willing to volunteer.
- Photography Team:
 - This team will work on photographing events, conferences, workshops and other activities hosted by the different chapters, affinity groups, and student branches.
 - This team can consist of photography enthusiasts that are willing to volunteer in the said events.
- News Editing Team:
 - This team will consist of people who have passion for news reporting and editing. This team can take information from the different chapter, affinity groups and student branches and create content that is ready to be published on the IEEE Ottawa Section website, or sent to members via the newsletter.
 - This team will consist of volunteers who have the talent of news editing and writing.
- Social Media Team:

- This group will be responsible for taking information from all the other said groups and post it on social media in an easy to read format.
- This group will also be responsible for constant posts on social media to engage the followers and people interested in IEEE Ottawa Section.

Educational Activities (EA) Committee

Chair: Branislav Djokic, branislav@ieee.org

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

Date, Time, Location	Activity Type (Tech Meeting, Workshop, DL, etc) and Brief Description	Title/Speaker or Workshop Name	Attendance IEEE/Total	Joint Activity Sponsors
25/11/2014 18:30 Algonquin College, Ottawa.	Technical Meeting. Brief Description: Conventional dispatch support functions perform Resource, Demand, Cost and Pricing Forecasts independently as a prelude to conducting environmental/economic dispatch in an electric power system. This approach does not acknowledge the natural interdependence of the resource and demand variables. It is then imperative to account for the coupling between forecasts and generation decisions. The advent of smart grid and the increasing share of intermittent non-hydro renewables pose some challenging problems. In this talk, some relevant questions will be posed and then some potential solutions addressed.	"Aggregating Forecast Functions for Next Generation Dispatch in Smart Grid," by Dr. Mohamed El-Hawary, Dalhousie University	'16/25	Educational Activities, PES and RS-P&L Chapters, and Algonquin College IEEE Student Branch.
27/11/2014 18:30 Algonquin College, Ottawa.	Professional/Educational Talk. Brief Description: Although usually taken for granted, engineered structures, machines and devices are all around us. Their history is also all around us and available to be studied. Unfortunately, the history of engineering is not usually taught to students of engineering, business, history, economics, or politics. The general public gets aware of it mainly as the result of failures and disasters. In addition, the media is prone to mislabel any successful engineering as science. Over the past	"History of Engineering in Canada: What We Should Know about It" by Andrew H. Wilson, Canadian Society for Senior Engineers (CSSE)	'08/16	Educational Activities and Algonquin College IEEE Student Branch.

	century, engineering's scientific base has increased significantly, but its practice still requires much input from experience. The pace of change is fast in many branches of engineering, but their histories still have much to teach today's professionals.			
04/12/2014 18:30 Algonquin College, Ottawa.	Technical Meeting. Brief Description: This seminar described key cloud ecosystem models and related policy, security, and privacy considerations for 2014. Updates were provided, largely based on NIST and the United Nations ITU-T cloud computing efforts. These updates clarified core considerations for acquiring data, and presented some of the major privacy discussions in the industry. Real-life, practical scenarios were used to emphasize business perspectives for cloud computing, and "big data" opportunities and the benefits already quantified. An interactive exchange of ideas relating to "big data", "openness", and "privacy" closed the evening.	"Cloud Computing – Models – Big Data vs Privacy," Steven Woodward CEO, Cloud Perspectives	'16/21	RS-PELS, ComSoc, CompSoc, Educational Activities and Algonquin College IEEE Student Branch.
29/01/2015 18:30 Algonquin College, Ottawa.	Technical Meeting. Brief Description: In this seminar, physics-based models of Si and SiC diodes were presented and used to calculate the forward voltage drop for different breakdown voltages and the simulation results are compared to determine the appropriate choice of Si and SiC devices based on their breakdown voltage. The instrumentation & measurements for obtaining the experimental data for modeling were discussed.	"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	'06/12	Educational Activities, RS-PELS, PES and IMS Chapters and Algonquin College IEEE Student Branch.
16/04/2015 18:30 Algonquin College, Ottawa.	Technical Meeting. Brief Description: A brief overview of Petri nets, as a powerful modeling tool for many systems, was given. Models with Stochastic Petri Nets (SPN) enable evaluating system performance. Every SPN can be reduced to a corresponding Markov Chain. This presentation dealt with telecommunication	"Applications of Petri Nets in Communications - Calculation of Probability Distributions of Performance Variable in Petr	'13/16	Educational Activities, ComSoc, EMBS, CIS-SMCS, RS-PELS, and PES Chapters,

	networks where, in addition to average packet delays, it is necessary to know the probability distribution of packet delays exceeding given values. In provisioning the input buffer it is important to know statistics to be able to determine probability of buffer overflow and underflow. An original method to calculate statistics (and percentiles) of traversing time in Markov chains was presented. In Internet traffic, the percentiles of packet delay enable the architect to properly provision the receiving anti-jitter buffer. The importance of percentile calculation is stressed by the fact that reliable percentile figures are not possible to obtain by simulation or monitoring/measurement since they are rare events, and getting reliable figures requires very long time.	Net Models," by Dr. Faruk Hadziomerovic, Independent Consultant, Ottawa		AICN, and Algonquin College IEEE Student Branch
7/10/2015 10:00 University of Ottawa	The talk will focus on Learning in a non-stationary environments, by introducing both passive and active approaches. The active approach will be deepened by presenting triggering mechanisms based on Change point methods and Change detection tests. Finally, the just-in-time detect & react mechanism is introduced where, following a detected change, the system immediately reacts with a strategy depending on the available information.	"Learning in Non-Stationary Environments" By Prof. Cesare Alippi Politecnico di Milano, Italy		CI/SMC, CompSoc, IMS and RAS/CSS Ottawa Chapters, and Ottawa Section Educational Activities.

Engineers-in-Transition (EiT) Committee

Chair: Vacant

The EiT Committee is currently planning and organizing future events and activities that will benefit our members at large, including the next instalment of the very popular Professional Development Seminar Series (PDSS).

Humanitarian Initiatives Committee (HIC) - SIGHT

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

Vice Chair: Sean Campeau, seancampeau@rogers.com

Technical Activities: Kin Sze, kinsze@ieee.org

In 2015, the Ottawa section Humanitarian Committee (SIGHT/HIC) did not hold events in the first half of 2015 because of the effort in volunteering for the International Humanitarian Technology Conference held in Ottawa from May 1 to June 4.

We will not report the activities related to the conference, since they are part of a separate report. But we would report that our committee's involvement and contribution benefitted the conference and provide our group with a great opportunity to learn and to share our understanding of IEEE humanitarian efforts. We will host at least two meeting before the end of 2015 to reconvene on our work and to plan for 2016.

In 2016, we will be holding monthly meetings, except for July and August; and we plan to have a special participation in the Ottawa's Maker Faire and for the IEEE Day in October 2015. We also plan to be present in IHTC2016 with a special contribution to the program and start working on our participation in PES when it will be held in Ottawa.

Industry Relations Committee

Chair: Bhagvat Joshi, bjoshi@ieee.org

No activities reported.

Unique events: This committee is in the early stages of its formation having initiated in July 2015. As such, some early contacts have been initiated with Industry and local professional networking groups. This will ramp up over the remainder of this year. We also expect support an collaboration from other IEEE Ottawa and IEEE Canada sections with contacts and events to understand the current and future needs of Industry and areas where the IEEE can add value.

Proposed events:

- Contact local companies in the area and develop outreach activities, this includes:
 - Tech Tuesday (held on the first Tuesday of each month and attracts the leader of the tech industry in Ottawa and surrounding areas as well as VCs, mentors and others)
- Participate in other networking groups and industry alliances such as Invest Ottawa, Centre for Excellence in Next Generation Networks (CENG), L-Spark and TIE
- Leverage IEEE Standards Activities (SA) to facilitate engagement with Industry.

Membership Development (MD) Committee

Chair: Anissa Shaddy, anissa@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
Oct 7, 2014, Marshes Golf	IEEE Day, Recruitment Booth	Tech Tuesday		OS MDC
October 10, 2014, Shaw Centre	Career Fair Booth, Membership Recruitment and Retention	OS AGM 2014		OS MDC
January 29, 2015, Hellenic Meeting and Reception Centre	Career Fair Booth, Membership Recruitment and Retention	SPAC		Carleton SB, Algonquin SB, Ottawa U SB, OS, OS MDC
February 3, 2014, Marshes Golf Course	Career Fair Booth, Membership Recruitment and Retention	Tech Tuesday, IEEE Day		OS MDC, IM 2015
March 31, 2015, uOttawa SITE	Career Fair Booth, Membership Recruitment and Retention	7th Graduate Poster Competition for uOttawa Engineering Research Day		OS MDC
April 10, 2015, Algonquin College	Career Fair Booth, Membership Recruitment and Retention	Algonquin College Applied Research Day		OS MDC
May 11-15, Shaw Centre	Career Fair Booth, Membership Recruitment and Retention	IM 2015		OS MDC, IM 2015
September 16, 2015, Carleton University	Career Fair Booth, Membership Recruitment and Retention	From Innovation to Enterprise: Opportunities, Risks and the		OS MDC, OS SM

		Evolution of Information Technologies		
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Nominations and Appointments

Chair: Rami Abielmona rabiemo@ieee.org

Member: Sreeraman Rajan Sreeraman@ieee.org

Member: Raed Abdullah raedabdullah@ieee.org

Member: Wahab Almuhtadi almuhtadi@ieee.org

Member: Branislav Djokic branislav@ieee.org

Member: John Grefford Grefford@ieee.org

Member: Tom Lavrisa lavrisa@ieee.org

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

Chair: Heidi Li heidi.li.ca@ieee.org

Vice Chair: David Huynh david.huynh.ca@ieee.org

Treasurer: Dr. Michael Bourassa michael.bourassa@ieee.org

Finance Chair: Jeffrey Arcand jeffrey.arcand@ieee.org

Patronage Chair: Prof. Ram Achar achar@doe.carleton.ca

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

The Ottawa Robotics Competition aims at bringing engineering awareness to students in grades 5 to 12 by presenting a fun and instructive approach to problem solving. Using LEGO® MINDSTORMS NXT® kits, the students have around 4 months to design and build an autonomous robot in teams of two to seven. They learn engineering concepts with the help of a supervisor and come together to produce a working prototype.

The teams compete during a one-day event where they demonstrate the superiority of their robot by completing a challenge. They are also judged on a poster presentation, a written report, their team spirit, and their ability to answer judge's questions.

Each team is provided with a description of the robot challenge as well as a set of rules. To help the students, workshops will be held by mentors to introduce concepts of robot design and programming. Assistance will be provided for the teams in difficulty, so that each team has a working robot on

competition day.

Activity Date, Time, Location	Activity Type (Tech Meeting, Workshop, DL, etc) and Brief Description	Title/Speaker or Workshop Name	General attendance	Joint Activity Sponsors
Throughout the reporting period, uOttawa, SITE 2061	Approximately 80 preparation meetings: Several meetings held by ORC subcommittees and full committee meetings.	Variable names depending on sub-committee.	Over 1500 volunteer hours (including non-official meeting hours) put together by ORC volunteers to plan and carry out ORC's events. Meetings generally had 10 or fewer people.	N/A
November 15, 2014, 2 to 4 pm, Carleton University, UC 231	Open House: An introduction to the general public about ORC.	ORC 2015 Open House	150	N/A
April 29, 2015, 8 am to 3 pm, uOttawa, SITE A0150 / 2060 / 2061	Workshop: Providing opportunities to students to test out their robots with the real tracks, and to receive help from ORC volunteers.	ORC 2015 Workshop #1	150 students	N/A
May 13, 2015, 8 am to 3 pm, uOttawa, SITE 2060 / 2061	Workshop: Providing opportunities to students to test out their robots with the real tracks, and to receive help from ORC volunteers.	ORC 2015 Workshop #2	50 students	N/A
May 16, 2015, 10 am to 3 pm, uOttawa, SITE 2061	Workshop: Providing opportunities to students to test out their robots with the real tracks, and to receive help from ORC volunteers.	ORC 2015 Workshop #3	30 students	N/A
May 15 th – 22 nd , 2015, uOttawa, SITE 2061	Training sessions for volunteers: Ensuring that volunteers were well trained for competition day.	ORC 2015 – Volunteer Training Sessions	35 total attendance for all training sessions	N/A

May 24, 2015, 8 am to 5 pm, Longfields-Davidson Heights Secondary School	Competition day: The big day where all 55 ORC teams came to compete against one another in 4 challenges to see who would be the best.	ORC 2015 Competition Day	400 spectators	N/A
June 12, 2015, 6 pm – 9 pm, Longfields-Davidson Heights Secondary School	Volunteer appreciation party: Party in which volunteers were recognized for all their work into ORC 2015, and some planning for ORC 2016.	ORC 2015 Volunteer Appreciation Party	30 volunteers	N/A

Best Practices: We began the year off by branching off into subcommittees, like R&D Team and Patronage, and held meetings with these subcommittees more often rather than full committee meetings. Training sessions for volunteers were before each major event (open house, workshop, competition day). Competition day went by very smoothly thanks to better organization, computerized schedules, and organized inspection stations.

Volunteer Recognition: All volunteers received a certificate and a T-shirt to recognize all their hard work, and they were all treated to a modest volunteer appreciation party. They are equally treated to modest meals at a couple meetings. Our volunteers dedicate an estimated 3000 volunteer hours to prepare and put on ORC year after year.

Unique Events: ORC attended a number of conferences this year, which included: the Finding Your Pathway Conference, the IEEE IM Conference, and the Carleton University Engineering Challenge.

Future Events and Next Steps: A supervisors' workshop will be held in order to help train supervisors, so that they are better able to provide support to their students while preparing for the competition. We anticipate this to be held early January 2016. Overall, ORC will engage in more targeted marketing in order to increase ORC's outreach to participants and supervisors. Consequently, ORC will discontinue to attend conferences and events in an effort to better support participants and their supervisors, but this will be considered on a case-by-case basis. Moreover, ORC will begin integrate a more multi-disciplinary team to help organize the event.

Senior Membership Committee

Chair: Dr. Sreeraman Rajan

Vice Chair: Dr. Chen Wu

The Section had 17 Senior Member elevations from October 2014 to September 2015.

Ottawa Section	Abielmona	Samer
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Ottawa Section	Al-Anbagi	Irfan SH
Ottawa Section	Campeau	Sean
Ottawa Section	Chimfwembe	Patrick
Ottawa Section	Damini	Anthony
Ottawa Section	Dondo	Maxwell
Ottawa Section	Falcon Martinez	Rafael
Ottawa Section	Ghohroodi Ghamsari	Behnood
Ottawa Section	Hafez	Roshdy
Ottawa Section	Hinzer	Karin
Ottawa Section	Issa	Omneya
Ottawa Section	Juma	Salim
Ottawa Section	Majumdar	Shikharesh
Ottawa Section	Miraftab	Vahid
Ottawa Section	Sikaneta	Ishuwa
Ottawa Section	Stott	Mike
Ottawa Section	Zhang	Liang

Strategic Planning (LP) Committee

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

Members:

Eric Karmouch, ekarmouch@ieee.org

Maria Rey, Sasquatch.rey@gmail.com

Raed Abdullah, raedabdullah@ieee.org

Sreeraman Rajan, sreeraman@ieee.org

Wahab Almuhtadi, almuhtadi@ieee.org

Branislav Djokic, 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
AGM 2014, October 10 th , 2014, OCC/Shaw Ctr	AGM Presentation	Barbara Waruszynski, Strategic Planning Retreat Presentation (Results)	100	AGM 2014, October 10 th , 2014, OCC/Shaw Ctr

Awards and/or recognitions:

- Recognized for IM 2015 Patron Chair (certificate)
- Senior Member plaque (recognized in 2014)

Events held this year:

- Meetings were held last year (2014) only before the Strategic Planning Retreat. The Strategic Planning Retreat was held on September 18th, 2014. A major presentation on the results of the Strategic Planning Retreat was made at the 2014 AGM (October 10th, 2014).
- Meetings will be held in the new year (2016) for the next Strategic Planning Retreat for the IEEE Ottawa Section. The Retreat will be held in 2016 (actual date TBD).

Events planned for next year:

- **IEEE Ottawa Section Strategic Planning Retreat:** Proposed interactive workshop with a focus on developing collaborative partnerships internally and externally (e.g., industry, academia and government). The Strategic Planning Committee will get together to look at past accomplishments and where we need to go in the future. IEEE student members will be involved in developing the way ahead.

Teacher In-Service Program (TISP) Committee

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
Nov. 13-14, 2014 Toronto Ontario	Workshop and Conference Staffed a booth at STAO Participated in 2 workshops discussion how science, math and technology can best be promoted in K-12 public schools	Science Teachers Association of Ontario annual Conference Workshop name: The Future of Math and Science Education in Canada	IEEE – 8 Total – 70 (workshop) - 1000 (visiting IEEE booth)	Science Teachers Association of Ontario
Feb. 10, 17	Workshop	Christie Lake Kids	IEEE – 4	Christie Lake Kids

2015	presenting TISP lesson plan on rubber band racers to a group of inner city youth	TISP workshop	Total - 25	association
October 20-22, 2015	Workshop presenting TISP lesson plans and IEEE robotics opportunities	Christie Lake Kids TISP workshop	IEEE – 4 Total - 50	Christie Lake Kids association
October 6, 2015	Workshop introducing TISP to grade 2 teachers and students	International Space week, introduction to space exploration and rocketry	IEEE – 1 Total – 70	Canadian Space Society Ottawa Public School Board
June 3, 2015	Workshop presenting TISP lesson plan on water purification	International Humanitarian Technology Conference 2015 TISP workshop	IEEE – 20 Total - 40	
Oct. 29, 2014	Elementary students exhibition Presenting career choices and areas of interest to pursue	Finding Your Way Forward exhibition	IEEE – 5 Total – 2000	Ottawa Public School Board

Events held:

- Workshop at the IEEE International Humanitarian Technology Conference – June 3 2015
- Booth at the Ottawa School Board “Finding Your Way Forward” exhibition – October 29, 2014
- Booth and 2 Workshops at the annual Science Teachers Association of Ontario conference November 13-14, 2014

Events planned for next year:

- Booth and 2 Workshops at the annual Science Teachers Association of Ontario conference November 12-13, 2014

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, Time, Location	Activity Type (Tech Meeting, Workshop, DL, etc) and Brief Description	Title/Speaker or Workshop Name	Attendance IEEE/Total	Joint Activity Sponsors
16 Apr 2015	Meeting – Petri nets	Dr. Faruk Hadziomerivic	13, 16	Many IEEE
13 May 2015	Meeting – Robot-assisted wireless sensor networks	Dr. Rafael Falcon	9, 16	CIS, SMC
29 Sep 2015	5G - teaching an old dog new tricks in unlicensed spectrum	Chris Richards, Ericsson, Ottawa	6, 18	IET-UK

Best Practices: Network to obtain good speakers, especially if an “out-of-towner” is in Ottawa for other reasons

Proposed Activities: Tony Ponsford was representing AESS, and was a coordinator, of an all-day *Radar and Radar Signal Processing workshop* at the Communications Research Centre, September 2015. A similar event is planned for 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

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

IEEE Ottawa Section Report to the Annual General Meeting
~~2014~~ 2015

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1) 10 Nov 2014 18:00–19:00 Board Room Fidus Systems Inc.	IEEE Antennas and Propagation Society (APS) Distinguished Lecture	Floquet modal based analysis of finite and infinite phased array antennas by Dr. Arun K. Bhattacharyya	IEEE/Total 15/18	AP/MTT, EMC and CPMT Chapters
2) 10 Nov 2014 19:00–20:00 Board Room Fidus Systems Inc.	IEEE Antennas and Propagation Society (APS) Distinguished Lecture	Efficient shaped beam synthesis in phased arrays and reflectors by Dr. Arun K. Bhattacharyya	IEEE/Total 15/18	AP/MTT, EMC and CPMT Chapters
3) 10 Nov 2014 20:00–21:00 Board Room Fidus Systems Inc.	IEEE Antennas and Propagation Society (APS) Distinguished Lecture	Advanced horn structures for reflectors and phased arrays by Dr. Arun K. Bhattacharyya	IEEE/Total 15/18	AP/MTT, EMC and CPMT Chapters
4) 14 May 2015 8:30–17:00 Brookstreet Hotel 525 Legget Drive Ottawa	Electronics Simulation Expo	Latest developments in RF, microwave and high-speed digital design for aerospace applications and communications by ANSYS Technical Team	IEEE/Total 68/158	ANSYS Inc. and AP/MTT Chapter
5) 16 June 2015 11:00–14:00 Room AP340 Carleton University	Technical Seminar	HFSS 3-D Layout for Planar RF Circuit Simulation by ANSYS Technical Team	IEEE/Total 16/30	AP/MTT Chapter, ANSYS Inc. and Department of Electronics (DoE), Carleton University
6) 17 July 2015 11:00–14:00 Room AP340 Carleton University	Technical Seminar	3-D Electromagnetic Component Libraries with HFSS by ANSYS Technical Team	IEEE/Total 18/25	AP/MTT Chapter, ANSYS Inc. and Department of Electronics (DoE), Carleton University
7) 27 July 2015 10:00–11:30 Room SITE5084 University of Ottawa	IEEE Ottawa Workshop on Antennas and Communications	Massive MIMO Antenna Array Design and Challenges by Dr. Yue (Frank) Gao	IEEE/Total 12/15	ComSoc/BTS/CES, AP/MTT, EMC, and CPMT Chapters, School of EECS, University of Ottawa
8) 27 July 2015 11:30–13:00 Room SITE5084 University of	IEEE Ottawa Workshop on Antennas and Communications	White space with compressive sensing and geo-location database for M2M	IEEE/Total 12/15	ComSoc/BTS/CES, AP/MTT, EMC, and CPMT Chapters, School of EECS,

Ottawa		communications by Dr. Yue (Frank) Gao		University of Ottawa
9) 11 Aug 2015 16:00-16:20 River Building, Conference Rooms 2220- 2228, Carleton University	Special Session, 2015 IEEE MTT-S International Conference on Numerical Electromagnetic and Multiphysics Modeling and Optimization (NEMO 2015)	Beam Switching Antenna Based on Active Frequency Selective Surfaces by Ms. J. Li	IEEE/Total 56/68	AP/MTT and CPMT Chapters, Department of Electronics (DoE), Carleton University
10) 11 Aug 2015 16:20-16:40 River Building, Conference Rooms 2220- 2228, Carleton University	Special Session, 2015 IEEE MTT-S International Conference on Numerical Electromagnetic and Multiphysics Modeling and Optimization (NEMO 2015)	Revisit Nickel Characterization Effect on High-Speed Interconnect Performance by Dr. F. Scharf	IEEE/Total 56/68	AP/MTT and CPMT Chapters, Department of Electronics (DoE), Carleton University
11) 11 Aug 2015 16:40-17:00 River Building, Conference Rooms 2220- 2228, Carleton University	Special Session, 2015 IEEE MTT-S International Conference on Numerical Electromagnetic and Multiphysics Modeling and Optimization (NEMO 2015)	Design of A Broadband, High-Gain, Hollow-Cavity, Multi- Layer Antenna by Dr. Q. Zeng	IEEE/Total 56/68	AP/MTT and CPMT Chapters, Department of Electronics (DoE), Carleton University
12) 11 Aug 2015 17:00-17:20 River Building, Conference Rooms 2220- 2228, Carleton University	Special Session, 2015 IEEE MTT-S International Conference on Numerical Electromagnetic and Multiphysics Modeling and Optimization (NEMO 2015)	Time Varying Gain Amplifier Linearity Enhancement for Wide Dynamic Range in Radar Receiver by Dr. Q. Zeng	IEEE/Total 56/68	AP/MTT and CPMT Chapters, Department of Electronics (DoE), Carleton University
13) 11 Aug 2015	Special Session,	An LTCC Decoupling	IEEE/Total	AP/MTT and CPMT

17:20-17:40 River Building, Conference Rooms 2220- 2228, Carleton University	2015 IEEE MTT-S International Conference on Numerical Electromagnetic and Multiphysics Modeling and Optimization (NEMO 2015)	Device for MIMO Antennas by Dr. K. Wu	56/68	Chapters, Department of Electronics (DoE), Carleton University
14) 11 Aug 2015 8:00-10:30 River Building, Conference Rooms 2220- 2228, Carleton University	IEEE Ottawa MTT/AP, CPMT, EMC Chapters and NEMO Joint Seminar	How to Write a Paper for IEEE MTT-S Journals and Navigate the Review Process by Dr. G. Ponchak	IEEE/Total 56/68	AP/MTT, EMC and CPMT Chapters, Department of Electronics (DoE), Carleton University

Best Practices:

- I have attended *2015 IEEE International Symposium on Antennas and Propagation* and *USNC-URSI National Radio Science Meeting*, Vancouver, BC, Canada, 19 – 25 July 2015, and *2015 IEEE MTT-S International Conference on Numerical Electromagnetic and Multiphysics Modeling and Optimization for RF, Microwave, and Terahertz Applications* (NEMO 2015), Ottawa, ON, Canada, 11 – 14 August 2015, exchanged experience and collaborated with other IEEE Sections and AP/MTT Chapters through face-to-face and interaction.
- As a Member of IEEE Canada Industry Relations Committee, I have been collaborating with governmental agencies and industrial sectors, soliciting their aids and support for IEEE events, and consolidating the relationships and networks between them and IEEE.
- I have constantly been organizing events with Montreal, Kingston and Toronto AP/MTT Chapters.
- I have assisted our Section in recruiting new IEEE members and elevating members to senior members and will be continuing to do so.
- I have been assisting our members in finding their new positions and employers in their recruitments.
- I have always co-organizing activities with other local chapters, educational institutions, governmental departments and companies, to set up and enhance the collaborations with them, attract more audience and serve more members.
- I have constantly been inviting speakers at different levels from graduate students to distinguished lecturers, to foster new engineers and entrepreneurs, improve the research

quality and enhance the academic levels of local researchers.

Awards and Recognitions:

- Dr. Qingsheng Zeng has been a Program Committee Member, SAB and Session Chair for the *4th Annual World Congress of Advanced Materials (WCAM 2015)*, Chongqing, China, May 27 – 29, 2015.
- Dr. Qingsheng Zeng has been an Organizing Committee Member and Local Arrangement, Technical Program Committee (TPC) Member, Organizer and Chair of Special Session “*Retrospective and Outlook of Antennas and Propagation in Telecommunications - a Tribute to Dr. Gilles Delisle*,” and Reviewer for *2015 IEEE MTT-S International Conference on Numerical Electromagnetic and Multiphysics Modeling and Optimization for RF, Microwave, and Terahertz Applications (NEMO 2015)*, Ottawa, ON, Canada, August 11 – 14, 2015.
- Professor Qi-Jun Zhang in the Department of Electronics at Carleton University has been the General Chair for the 2015 IEEE International Symposium on Numerical Electromagnetic and Multi-physics Modeling and Optimization for RF, Microwave, and Terahertz Applications (NEMO2015) in Ottawa for 12 – 14 August 2015. Qi-Jun is one Ottawa MTT-S member..

Unique Events:

- I have organized the Electronics Simulation Expo with ANSYS on 16 May 2015, IEEE Ottawa Workshop on Antennas and Communications on 27 July 2015, and Special Session in honor of Dr. Gilles Delisle for IEEE MTT-S NEMO 2015 on 11 August 2015.
- These events with a large attendance and the financial support by industry have profound impacts afterwards, making it resoundingly successful.

Planned events:

- Dr. Qingsheng Zeng has been organizing a large job fair in Ottawa for mid November 2015.

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

Chair: Rafael Falcon, rfalcon@ieee.org

Vice Chair CIS: Qinghan Xiao, Qinghan.Xiao@drdc-rddc.gc.ca

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

Government Liaison: Julio Valdés

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
Monday November 10, 2014 at 6pm Ottawa	Technical (DL)	State-of-the-Art Evolutionary Algorithms for Many Objective Optimization Prof. Gary Yen, Oklahoma State University	12	CompSoc
Tuesday February 3 rd , 2015, 10:00 – 11:30 AM Ottawa	Technical	Computational Intelligence and Biometric Technologies: Application-driven Development Dr. Qinghan Xiao, Defense Scientist, Defense Research & Development Canada (DRDC)	8	
Tuesday February 4 th , 18:30 – 20:00 Ottawa	Technical	An overview of the build in Canada Innovation Program (BCIP) Helen Bratier, PWGSC, Government of Canada	16	Ottawa Section, Joint Chapters ComSoc/CESoc/BTS, EMBS, PES, CS, PS/PELS, AICN, WIE, EA, ACSB
Thursday April 16 th , 18:30 – 20:00 Ottawa	Technical	Applications of Petri Nets in Communications - Calculation of Probability Distributions of Performance Variable in Petri Net Models	16	VTS

		Dr. Faruk Hadziomerovic, Independent Consultant		
Wednesday May 13, 2015 at 7:30 pm Ottawa	Technical	Robot-Assisted Wireless Sensor Networks: Recent Developments and Future Challenges Rafael Falcon, Ph.D. Research Scientist, Larus Technologies Corporation	16	AESS, CompSoc
Wednesday Oct 7th, 2015 at 10:30am Ottawa	Technical (DL)	Learning in Non-Stationary Environments Cesare Alippi, Professor of Information Processing Systems, Politecnico di Milano, Italy	16	CompSoc, EMBS, IMS, RAS/CSS

Best Practices: Have students involved in the meeting and choose venues accessible to them. Advertise early and often for the events via e-Notices and the Ottawa Section newsletter.

Unique events: The Chapter is a sponsor of the Fifth Canadian Tracking and Fusion Group Workshop (CTFG Workshop 2015) which will be held in Ottawa November 16-18, 2015 (<http://www.ctfg.ca/workshop2015>). The Chapter also held 2 DL talks which it had planned for last year.

Proposed events: The Chapter is planning on holding 6 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 end of 2015 / beginning of 2016.

CompSoc – Computer Society

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

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

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

Webmaster: Ricardo Villalobos

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
Date/Time: Monday November 10, 2014 at 6pm Ottawa	Technical (DL)	State-of-the-Art Evolutionary Algorithms for Many Objective Optimization Prof. Gary Yen, Oklahoma State University		CIS/SMC Joint Chapter
Thursday, Dec. 04, 2014 at 6pm Ottawa	Technical	Cloud Computing – Models – Big Data vs Privacy Steven Woodward, CEO, Cloud Perspectives		RS/PELS
Thursday, March 26, 2015 at 2:30pm Ottawa	Technical	Challenging Problems and Opportunities in Semiconductors and Microsystems Kenneth D. Wagner, Ph.D ITAC Semiconductor Microsystems Council Chairman Adjunct Professor, McGill University ECE Distinguished Engineer, PMC- Sierra, Inc.	10/6	Carleton University, EDS/SSCS/CASS, ComSoc/CeSoc/BTS, CPMT, EMC and RAS/CSS
Wednesday May 13, 2015 at 7:30 pm	Technical	Robot-Assisted Wireless Sensor Networks: Recent Developments and		AESS, CI/SMC Joint Chapter

Ottawa		Future Challenges Rafael Falcon, Ph.D. Research Scientist, Larus Technologies Corporation		
Wednesday Oct 7th, 2015 at 10:30am Ottawa	Technical (DL)	Learning in Non- Stationary Environments Cesare Alippi, Professor of Information Processing Systems, Politecnico di Milano, Italy	N/A	CI/SMC Joint Chapter, EMBS, IMS

Best practices: It was found to be advantageous to advertise early and often for the events. Also, members are quite interested in getting access to the speaker's presentation slides; hence, archiving them has been a popularly requested feature of our website.

Unique events: The Chapter is a sponsor of the Fifth Canadian Tracking and Fusion Group Workshop (CTFG Workshop 2015) which will be held in Ottawa November 17~~6~~-18, 2015 (<http://www.ctfg.ca/workshop2015>). The Chapter also held 2 DLs which it had planned for last year.

Proposed events: The Chapter is planning on holding 8 talks next year, two of which will be DVPs. The Chapter is again hoping to technically co-sponsor local events and conferences that are in the domain of the Computer Society as they provide a lot of value to our members at large.

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: Tony Khoury, tkhoury@ieee.org

Membership Development: Scott Barkley, scott.barkley@sympatico.ca

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

	Description			
18 Aug 2014 18:30–20:00 Room T129 Algonquin College	IEEE Distinguished Lecture	Trends and Issues of FTTH and G-PON by Prof. Koichi Asatani	26/37	ComSoc/CES/BT S, RS/PELS, CS, IPS and AP/MTT Chapters and Algonquin College Student Branch
July 17, 2014, 6:00-9:00 pm, Algonquin College	Technical Meeting: “Open Source” or “Free and Open Source”. Meeting focused on the history and fundamentals of Open Source solutions in general and in the context of humanitarian initiatives (under HIC).	Open Source and Open Hardware, Slippery Slope or a Brave New World	11	R-PELS, ComSoc/CES/BT S, SSIT, SIGHT
12) 30 April 2014 18:00–20:00 Room T129 Algonquin College	Technical Seminar	Overview of Green Wireless Communications Research at Edinburgh by Prof. John Thompson	21/30	ComSoc/CES/BT S, RS/PELS, CS, AP / MTT, SP / OE / GRS, IPS, and Algonquin College Student Branch
10) 28 Mar 2014 18:30–21:00 Room T129 Algonquin College	IEEE Distinguished Lecture	Transmitting consumer products and electro-phobia: Why are people REALLY scared of electromagnetic Fields? By Elya B. Joffe	26/40	ComSoc/BTS/CES AP/MTT, and EMC Chapters, and Algonquin College
Start Time 2014-03-20	Technical	Mechanical Reliability in Electronics: A lifetime of strange	16/17	CES, ComSoc/CES/BT

18:10:00 End Time 2014-03-20 19:40:00 Ottawa		failures and conditions Hugh M Reekie, P.Eng., IEEE SM		S and Algonquin College Student Branch
Mar 18 2104 Algonquin College 18:00	(Tech Meeting) With over 266 networks in 99 countries, LTE is the de facto world-standard for mobile communications. This presentation will address the evolution of LTE to meet ITU requirements for high mobile broadband data rates.	Evolution to LTE Advanced Frank Rayal, P.Eng, SMIEEE.Founding Partner – Xona Partners	35/21	IET Ottawa
28 Oct 2013 18:30–20:00 Room T129 Algonquin College	Technical Seminar	Carrier Ethernet for Cloud Computing by Peter Green	17/24	ComSoc/BTS/CES, IPS, CS, AP/MTT, and RS/PELS Chapters, and Algonquin College
25 Sep 2013 18:30–20:00 Room T129 Algonquin College	Technical Seminar President of IEEE Consumer Electronics Society (CESoc)	Design Considerations for Consumer Power Supplies By Stefan Mozar, President of IEEE Consumer Electronics Society (CESoc)	19/32	ComSoc/BTS/CES, AP/MTT, EMBS PES, and RS/PELS Chapters, Educational Activities,
Wednesday, September 18, 2013	Technical	Implantable Wireless Medical Devices and Systems Speaker: Dr. J.C. Chiao, Garrett		

		endowed professor of Electrical Engineering at University of Texas – Arlington, TX, USA		
Sep. 10, 2013, 6:30 p.m. – 8:00 p.m., Algonquin College	Technical Meeting, DL Seminar	Energy Aware Computer Systems and Networks, by Dr. Erol Gelenbe, Imperial College, London, UK, CS DL	18/28	PES, CS, ComS/BTS/CES, and AP & MTT Chapters
Thursday, September 5, 2013	Technical	Characterization of Space Shuttle Ascent Debris Based on Radar Scattering and Ballistic Properties – Evolution of the NASA Debris Radar (NDR) System Speaker: Dr. Brian M. Kent, Fellow, IEEE, AMTA, AFRL, Chief Scientist, Sensors Directorate, Chief Scientist, Sensors Directorate, WPAFB, OH 45433, USA		
Sep 3, 2013, Carleton University	Technical meeting	VLSI Architectures for Communications and Signal Processing, by Kiran Gunnam of Violin Memory	15/22	
Monday, June 3, 2013	Technical	Source and Channel Rate Allocation Techniques for Digital Video Transmission Application Distinguished Lecturer: Dr. Lap-Pui Chau, Associate Professor, School of Electrical & Electronic Engineering, Nanyang Technological University, Singapore		
Monday, May 6, 2013	Technical	High performance terahertz devices for communication Speaker: Dr. Dayan Ban, Department of Electrical and Computer Engineering, Waterloo Institute for Nanotechnology, University of Waterloo, Waterloo, ON, Canada		

Thursday, April 25, 2013	Technical	Mobile Multihop Networking - A Long Shot beyond Line of Sight Speaker: Dr. Li Li, Communications Research Centre Canada, Ottawa, Canada		
Tuesday, April 2, 2013	Technical	Canadian National Capital Region Workshop on: Waves Propagation Speakers: Dr. Qingsheng Zeng, Communications Research Centre Canada, Ottawa, Canada Dr. David Rogers, Communications Research Centre Canada, Ottawa, Canada Dr. Mhammad Ghaddar, Université du Québec en Abitibi-Témiscamingue (UQAT), Canada Dr. César Amaya,, Communications Research Centre Canada, Ottawa, Canada Dr. Gordon James, Communications Research Centre Canada, Ottawa, Canada Dr. Robert Bultitude, Communications Research Centre Canada, , Ottawa, Canada Dr. Yvo de Jong, Communications Research Centre Canada, , Ottawa, Canada Mr. Tejinder Gill, National Instruments (NI) in Ottawa, Canada Mr. Lurie Ilie, Aversa Technologies, Ottawa, Canada		
Wednesday, April 3, 2013	Technical	Embrace Circuit Nonlinearity to Get Transmitter Linearity and Energy Efficiency Speaker:		

		Dr. Earl McCune, Besser Associates, Santa Clara, CA 95050, USA		
Wednesday, March 20, 2013, 10:00 AM Eastern Time, 07:00 AM Pacific Time	Technical	ComSoc-NAR Webinar: TOPIC: Ad hoc Nanoscale and Molecular Communication Networks Speaker: Stephen F Bush, Researcher, General Electric Global Research, Niskayuna, NY, USA		

CPMT –Components, Packaging and Manufacturing Technology Society

Chair: Qi-Jun Zhang, qjz@doe.carleton.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
August 14, 2015, Carleton University	Seminar	How to Write a Paper for IEEE MTT-S Journals and Navigate the Review Process, Dr. George Ponchak	40/50	CPMT, AP/MTT, EMC
May 26, 2015, Carleton University	Technical meeting	Model order reduction for coupled systems, Prof. Wil Schilders	14/21	EDS/SSCS/CASS, CPMT
March 26, 2015 Carleton University	Technical meeting	Challenging problems and opportunities in semiconductor and microsystems, Dr. Ken Wagner	10/16	EDS/SSCS/CASS, ComSoc/CESoc/BTS, CPMT, EMC, CS, RAS/CSS
March 20, 2015, Carleton University	Technical meeting	Challenges in the next wave of connectivity, Dr. Patrice Gamand	12/20	EDS/SSCS/CASS, ComSoc/CESoc/BTS, CPMT
November	Technical meeting	Floquet modal	13/15	AP/MTT, EMC,

10, 2014, Fidus Systems		based Analysis of Finite and Infinite Phased Array Antennas, by Dr. Arun K. Bhattacharyya		CMPT
November 10, 2014, Fidus Systems	Technical meeting	Efficient Shaped Beam Synthesis in Phased Arrays and Reflectors, by Dr. Arun K. Bhattacharyya	13/15	AP/MTT, EMC, CMPT
November 10, 2014, Fidus Systems	Technical meeting	Advanced Horn structures for Reflectors and Phased Arrays, by Dr. Arun K. Bhattacharyya	13/15	AP/MTT, EMC, CMPT

Awards and Recognitions: Dr. Q.J. Zhang was selected to become the Fellow of Canadian Academy of Engineering, and the award ceremony was held on June 4, 2015 in Hamilton.

Unique events: The IEEE Ottawa Section, including the CPMT Chapter co-sponsored the IEEE International Conference on Numerical Electromagnetic and Multiphysics Modeling and Optimization (NEMO), held in August 11-14, 2015. The CPMT Chapter Chair (Q.J. Zhang) was the General Chair of the conference. EDS/SSCS/CASS Chapter Chair (Ram Achar) was the General Co-Chair. AP/MTT Chapter Chair (Qingsheng Zeng) served as local arrangement chair, and the EMC Chapter Chair (Syed Bokhari) served in the TPC. There were 162 delegates coming from all over the world attending the conference, including many highly respected researchers and industry executives in the area of numerical electromagnetic and Multiphysics modeling and optimization. The budget was approximately \$70,000 CAD. The conference included 117 technical presentations, 5 plenary talks, 2 invited talks, 1 panel session, 1 industry workshop and 6 industry application talks. The conference was a successful forum for latest advances addressing the challenges in high-frequency electronics modeling and design.

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

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 8 th , 2:00 pm, NRC-MSS Kelvin Room	Technical Meeting (DL)	Outdoor insulation including composite polymer insulators and RTV coatings – tracking, erosion and flashover protection. Prof. Edward Cherney, University of Waterloo	TBD	N/A

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

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

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

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 17 Technical Talks (5 individual Seminars and 10 invited talks from experts around the globe via the 3rd and 4th editions of IEEE International Workshop on High-Performance Chip, Package and Systems (HPCPS-2014 & HPCPS-2015) during the period of Oct. 3, 2014 – Nov. 5, 2015 (out of which 8 seminars were DLs). Typical attendance for the talks ranged between 10 to 60 or higher. In addition, one CASS administrative meeting and several 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\$3500 and SSCS Subsidy Grant of \$2500 to organize the 4th edition of the IEEE International Workshop on High-Performance Chip, Package and systems (HPCPS-2015),

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 (apart from the regular meetings of members) during the last one year (Oct. 3 2014 – Nov. 5 2015).

#	Date/Place	Activity Type	Title/Speaker	Attendance IEEE/Total	IEEE Society/ Joint Sponsors
1	Nov. 8, 2014 (Carleton University)	Technical SSCS-DL	The Innovation is in the Mind – The Converging Trajectories of IT, Neuro and Nano (HPCPS-2014 KeynoteTalk) Speaker: Prof. Jan M. Rabaey, UC Berkeley, USA	38/52	CASS/EDS/SSC, Joint with Section, LM, Carleton Uni., IEEE Ottawa Section
2	Nov. 8, 2014 (Carleton University)	Technical SSCS-DL	Silicon-based Circuits and Systems at the Terahertz Frontier (HPCPS-2014 Invited Talk) Speaker: Prof. Ullrich Pfeiffer, University of Wuppertal, Germany	38/52	CASS/EDS/SSC, Joint with Section, LM, Carleton Uni., IEEE Ottawa Section
3	Nov. 8, 2014 (Carleton University)	Technical	Biologically-Inspired Low Power Associative Memories: Algorithms and Architectures (HPCPS-2014 Invited Talk) Speaker: Prof. Brett Meyer McGill University Montreal, QC, Canada	38/52	CASS/EDS/SSC, Joint with Section, LM, Carleton University, IEEE Ottawa Section
4	Nov. 8, 2014 (Carleton	Technical SSCS-DL	K-Delta-1-Sigma Analog-to- Digital Converters for High-	38/52	CASS/EDS/SSC, Joint with

	University)		Speed Data Communications (HPCPS-2014- Invited Talk) Speaker: Prof. R. Jacob (Jake) Baker University of Nevada, Las Vegas, NV, USA		Section, LM, Carleton Uni., IEEE Ottawa Section
5	Nov. 8, 2014 (Carleton University)	Technical	Managing Power Integrity and Voltage Noise via Walking Pads: C4 Placement (HPCPS-2014 Invited Talk) Speaker: Prof. Warren Gross, McGill Universiy Montreal, QC	38/52	CASS/EDS/SSC, Joint with Section, LM, Carleton Uni., IEEE Ottawa Section
6	Aug. 11, 2015 (Carleton University)	Technical- EDS-DL	Keeping Moore's "Law" Alive – System Scaling is the Key (HPCPS-2015 Invited Talk) Speaker: Prof. Subu Iyer, UCLA, Los Angeles	55/70	CASS/EDS/SSC, Joint with Section, LM, Carleton Uni., IEEE Ottawa Section
7	Aug. 11, 2015 (Carleton University)	Technical	The Mother of All Markets: The Convergence of Microelectronics, IoT, and Distributed Power Generation Based on Purely Renewables	55/70	CASS/EDS/SSC, Joint with Section, LM, Carleton Uni., IEEE Ottawa Section

			(HPCPS-2015 Keynote Talk) Speaker: Anotine Paquin, CEO, Solantra, Ottawa		
8	Aug. 11, 2015 (Carleton University)	Technical	Electromagnetic Simulation for High Speed Systems (HPCPS-2015 Keynote Talk) Speaker: Dr. Peter Thoma, Managing Director, CST, Germany	55/70	CASS/EDS/SSC, Joint with Section, LM, Carleton Uni., IEEE Ottawa Section
9	Aug. 11, 2015 (Carleton University)	Technical SSCS-DL	Future Directions for Silicon Radio Frequency Electronics (HPCPS-2015 Invited Talk) Speaker: Prof. John Long, Uni of Waterloo	55/70	CASS/EDS/SSC, Joint with Section, LM, Carleton Uni., IEEE Ottawa Section
10	Aug. 11, 2015 (Carleton University)	Technical CASS-DL	Trends on High-Performance Micro and Nano Electronics (HPCPS-2015 Invited Talk) Speaker: Prof. Ricardo Reis, Brazil	55/70	CASS/EDS/SSC, Joint with CPMT, Carleton Uni., IEEE Ottawa Section
11	Feb. 17, 2015 (Carleton University)	Technical EDS-DL	Outlook and Challenges of Electrostatic Discharge (ESD) Protection of Modern and Future Integrated Circuits	14/23	CASS/EDS/SSC,

			Speaker: Prof. Juin J. Liou, University of Central Florida, Orlando, USA		
12	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 with, Carleton Uni, and ComSoc/CESoc/B TS, CPMT
13	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 with, Carleton Uni, and IEEE Ottawa Section, ComSoc/CESoc/B TS, CPMT, EMC, CS and RAS/CSS
14	May 26, 2015. (Carleton University)	Technical	Model Order Reduction for Coupled Systems Speaker: Prof. Wil Schilders, Professor of Eindhoven University of Technology,	14/23	CASS/EDS/SSC, Joint with, Carleton Uni, and CPMT

			Eindhoven, Netherlands		
15	Mar 30, 2015. (Carleton University)	Technical	Self-Organizing Small Cell Networks Speaker: Dr. Ekram Hossain, Uni of Manitoba, Winnipeg	19/31	ComSoc/CESoc/BTS Joint Chapter, EDS/SSCS/CASS Joint Chapter, EMBS Chapter, RS & PES Joint Chapter, EdA, IEEE Ottawa Section
16	Sept. 14 2015. (Carleton University)	Technical	From Innovation to Enterprise: Opportunities, Risks and the Evolution of Information Technologies Panel Discussion: Panelists John Duff, Director of Engineering at Shopify Mike Abbott, Partner at Deloitte Suzanne Rochford, Director of User Centered Design for TELUS Health	30/180	Carleton University, EDS/SSCS/CASS Joint Chapter,
17	Oct. 29 2015. (Carleton University)	Technical SSCS DL	Cognitive Radio Transceiver Chips Speaker: Eric Klumperink	To be held	CASS/EDS/SSC, Joint with Carleton University

			Professor, Uni of Twente, Netherlands		
18	Sept. 29, 2014 (Carleton University)	Administrat ive	IEEE Ottawa CAS/EDS/SSCS Officers Meeting	2/2	CASS/EDS/SSC
19	Nov. 1 2014 - Sept. 29, 2015)	Administrat ive	IEEE Ottawa CAS/EDS/SSCS Officers with Students for Mentoring, to discuss and execute the preparations for HPCPS-2014 & HPCPS 2015 (3 meetings were held during (Nov. 2014 – Sept. 2015)	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.

Apart from arranging high-quality technical seminars regularly, the chapter also conceptualized and launched an International Workshop, IEEE International Workshop on High-Performance Chip, Package and Systems (HPCPS). Necessary funding for this event was raised through several avenues. Event was highly successful with eight invited speakers and attendees coming from across Canada and USA. Preparations for 2016 edition are fully underway.

One of the main efforts of the chapter is to attract/engage student members. As part of this effort, 25 Free Registrations (each registration having a value of \$80) were given to students of the Ottawa region, enabling them to attend both the HPCPS-2014 and HPCPS-2015 and to encourage them to join/participate/volunteer in IEEE activities. Same is planned for the year 2016. Also a student volunteer team (with 5 students) was formed to prepare for the HPCPS-2014 and 2015, which regularly met.

Awards & 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 \$3500 grant in recognition of the leadership provided by the Ottawa chapter and to further develop IEEE and CASS activities in Ottawa.
- A SSCS 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.

Proposed events: HPCPS-2016, IEEE International Workshop on High-Performance Chip, Package and Systems to be held in July 2016, in Ottawa

EMC – Electromagnetic Compatibility Society

Chair: Syed Bokhari, bokhari@ieee.org

Vice Chair: Qiubo Ye, qiubo.ye@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
March 26, 2015, Carleton University	Technical presentation on Challenging Problems and Opportunities in Semiconductors and Microsystems	Prof. Kenneth D Wagner, McGill University	15/18	EDS, SSC, CASS
July 27, 2015, Univ. of Ottawa	Technical Presentation 1: Massive MIMO Antenna Array Design and Challenges Presentation 2: White Space with Compressive Sensing and Geo-location Database for M2M Communications	Dr. Yue Gao	14/19	CPMT, CES, AP/MTT
August 14, 2015	How to write a paper for IEEE MTT-S Journals and Navigate the review the review process	Dr. George. E. Ponchak, Chairman, IEEE MTTS publications committee	40/60	CPMT, AP/MTT

EMBS – Engineering in Medicine and Biology Society

Chair: Sreeraman Rajan, Ph.D. SMIEEE, sreeraman@ieee.org

Vice-Chair: Yuu Ono, Ph.D. SMIEEE, yuuono@sce.carleton.ca

Secretary: James Green, Ph.D. SMIEEE, jrgreen@sce.carleton.ca

Webmaster: Adrian Chan, Ph.D. SMIEEE, adcchan@sce.carleton.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
2015-10-13, 1300-1400, Carleton U	Technical	Advanced Diagnostic and Therapeutic Applications of Biomedical Ultrasound, Dr. Sacha Nandlal		No
2015-10-07, 1000-1130, Ottawa U	Technical, DL	Learning in nonstationary environments, Dr. Cesare Alipi		Sponsor: CI/SMC, Co-Sponsor : CompSoc, IMS, RAS/CSS
2015-10-06, 1300-1400, Carleton U	Technical	Engineering solutions to Cardiology problems: a match made in Ottawa?, Dr. Calkum Redpath		No
2015-09-29, 1300-1430, Carleton U	Technical	The Role of Analytic Methods in Image Reconstruction from Projections, Dr. Rolf Clackdoyle	5/2	No
2015-09-22, 1300-1430, Carleton U	Technical	Imaging with electricity, Prof. A. Adler	5/14	No
2015-04-22, 1200-1300, Carleton U	Technical	Low-complexity image processing approaches for detection of	3/8	No

		necrotizing enterocolitis and seizures in newborns, Dr. Guy Kouamou Ntonfo		
2015-04-16, 1800-1930, Algonquin College	Technical	Applications of Petri Nets in Communications - Calculation of Probability Distributions of Performance Variable in PeDr. Faruk Hadziomerovic tri Net Models, Dr.	13/16	Sponsor: RS-PEL Chapter CoSponsor: IEEE Ottawa Section ComSoc, EMBS, and PES Chapters, Educational Activities, and Algonquin College IEEE Student Branch
2015-03-30, 1800-1930, Algonquin College	Technical, DL	Self-Organizing small cell networks, Dr. Ekram Hossain	19/31	Sponsor: ComSoc/CeSoc/BTS Joint Chapters CoSponsor: EDS/SSCS/CASS Joint Chapters, RS/PELS Joint Chapter, Educational Activities, IEEE Ottawa Section, and the IEEE Algonquin College Stud Branch
2015-03-27, 1200-1300, Carleton U	Technical	More than a little hot air: engineering models of human speech, Mr. Raymond Greiss	3/11	No
2015-02-06	Technical	Surgical Simulator - An Emerging Approach to Surgery Training	3/13	No
2015-02-04, 1800-1930, Algonquin College	Technical	An overview of the build in Canada Innovation Program (BCIP), Ms. Helen Batier	10/16	Sponsor: IEEE Ottawa Section, CoSponsor: ComSoc/CEsoc/BTS Joint Chapter, EMBS,

				PES, CI/SMC Joint Chapter, CS, RS/PELS Joint Chapter, AICN, WIE, EA and ACSB
2015-01-30, 1200-1300, Carleton U	Technical	Structural and functional changes induced by pelvic floor muscle training in women with stress urinary incontinence, Dr. Linda McLean	4/16	No
2015-01-23, 1200-1300, Carleton U	Technical	Wicked problems and multidisciplinary approaches to collaboration, the changing health sector, Dr. Susan Aitken	5/21	No
2014-12-01, 1200-1300, Carleton U	Technical	Neuromuscular contributions to knee joint stability: implications for injury, rehabilitation and degenerative disease, Dr. Daniel Benoit	5/17	No
2014-11-20, 1730-1900, Carleton U	DL Technical	IEEE EMBS Distinguished Lecture: Obstructive Sleep Apnea Prediction during Wakefulness: Challenges and Future Directions	10/19	No

Proposed events: International Student Conference 2016: end of May and early June

IMS – Instrumentation and Measurement Society

Chair: Voicu Groza, vgroza@ieee.org

Vice Chair: Branislav Djokic, branislav@ieee.org

Date, Time, Location	Activity Type (Tech Meeting, Workshop, DL, etc) and Brief Description	Title/Speaker or Workshop Name	Attendance IEEE/Total	Joint Activity Sponsors
29/01/2015 18:30 Algonquin College, Ottawa.	In this seminar, physics-based models of Si and SiC diodes were presented and used to calculate the forward voltage drop for different breakdown voltages and the simulation results are compared to determine the appropriate choice of Si and SiC devices based on their breakdown voltage. The instrumentation & measurements for obtaining the experimental data for modeling were discussed.	"Modeling in Power Electronics - Comparison of the Forward Voltage Drop of Si and SiC High Voltage Diodes," by Dr. Tanya K. Gachovska,	6/12	RS-PEL, PES and IMS Chapters, Educational Activities,
7/10/2015 10:00 University of, Ottawa	The talk will focus on Learning in a non-stationary environments, by introducing both passive and active approaches. The active approach will be deepened by presenting triggering mechanisms based on Change point methods and Change detection tests. Finally, the just-in-time detect & react mechanism is introduced where, following a detected change, the system immediately reacts with a strategy depending on the available information.	"Learning in Non-Stationary Environments" By: Prof. Cesare Alippi, Politecnico di Milano, Italy		CI/SMC, CompSoc, IMS and RAS/CSS Ottawa Chapters

Unique events: The IMS Ottawa Chapter was the imitator of the bid of Ottawa Section for organizing the IEEE IMS flagship conference I2MTC 2017. The prepared bid was considered remarkable by the IMTC Board of Directors, but finally Brazil was chosen to organize this conference.

The IMS members of the IMS Ottawa chapter supported the organization of the IEEE International Symposium on Medical Measurements and Applications MeMeA 2015 and the IEEE International Symposium on Intelligent Systems and Processing WISP2015; also they 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, John.Bernard@nrc-cnrc.gc.ca

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
Technical Symposium October 07, 2014	A Joint WIE/Photonics Workshop	(1) Nonlinear optical process by Prof. Donna Strickland, 2013 President of OSA (Optical Society of America) Department of Physics and Astronomy, University of Waterloo (2) Synthetic Aperture Radar by Dr. Maria Rey, Director General of Defence Research and Development (DRDC) Ottawa, Emeritus	40	IEEE EMBS Ottawa Chapter, IEEE Carleton University Student Chapter, and Carleton University SPIE Student Chapter

Technical Symposium October 31, 2014	Recent Advances in BioPhotonics Program	Dr. John Pezacki, Group Leader, Biomolecular Sensing and Imaging group, Life Sciences Division, National Research Council Canada (NRC) and Adjunct Professor, Department of Chemistry and the Department of Biochemistry, Microbiology & Immunology, University of Ottawa, Canada, "Imaging cells, hostpathogen interactions and the effects of pharmaceuticals." Distinguished Guest Speaker: Prof. Vahid Sandoghdar, Max-Planck-Institut für die Physik des Lichts, Erlangen, Germany, "Interferometric detection of scattering and label-free protein detection"	18	NRC / IEEE uOttawa Student Branch Photonics Chapter
Technical Symposium January 21, 2015	2015 International Year of Light Ottawa Opening Symposium	IEEE Photonics Society Distinguished Lecture: Prof. Carmen Menoni, Colorado State University, USA, "Photonics at extreme ultraviolet and soft	73	Extreme Photonics, Center for Research in Photonics University of Ottawa

		x-ray wavelengths on a table-top" 10:15am Coffee Prof. Mark I. Stockman , Center for Nano-Optics (CeNO), Georgia State University, USA, "Condensed Matter in Ultrafast and Superstrong Fields: Attosecond Phenomena "		
Technical Symposium June 3, 2015	iLUV (IEEE Lights Up a Village) workshop on technologies and solutions for efficient, cost-effective, renewable electricity power generation and lighting	Dave Irvine Halliday, Founder & Executive Chair, Visionary Lighting & Energy India (P) Ltd. (VLE) - Robert Dick, Founder and CEO, the Canadian Scotobiology Group Inc.(CSbG)	21	The IEEE Canada Industry Relations Committee, the International Year of Light Canadian Committee, IHTC 2015,
International Conference June 9 – 11, 2015	Photonics North	- 12 technical sessions; - 213 oral presentations; - 70 poster papers	480	Photonics North, CPIC, INO, RPQ, COPL, IEEE PHO, IEEE Canada, OSA, SPIE
Technical Seminar June 29, 2015	International Year of Light Seminar	Invited Speaker: Prof. Hans-Peter Loock, Dept. of Chemistry, Queen's University, Kingston, ON, "Chemical and mechanical sensing with optical resonators: microspheres, loops and guitar pickups "	32	Ottawa U Photonics Student Chapter

Awards & Recognitions: Chapter of the Year award by the Photonics Society

Unique events: Photonics North, iLUV (IEEE Lights Up a Village) workshop

PES – Power and Energy Society

Chair: Wahab Almuhtadi, almuhtadi@ieee.org

Vice Chair: Branislav Djokic, branislav@ieee.org

Membership Development: Scott Barkley, scott.barkley@sympatico.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 12-14, 2014 Westin Hotel, Calgary, Alberta, Canada	Conference Technical	Electrical Power & Energy Conference 2014 (EPC2014) "Partnership between Industrial Users and Power Providers"	150	Technical Co-sponsorship from PES Ottawa Chapter
November 25, 2014 Algonquin College	Technical DL	Aggregating Forecast Functions for Next Generation Dispatch in Smart Grid Speake: Dr. Mo El-Hawary, Fellow IEEE, IEEE PES Distinguished Lecturer, Professor, Dalhousie University, Halifax, NS,	16/25	PES Chapter, RS/PEL Joint Chapters, ComSoc/CESoc/BTS Joint Chapter, Educational Activities, and Algonquin College IEEE Student Branch

		Canada		
November 27, 2014 Algonquin College	Professional	History of Engineering in Canada: What We Should Know about It Speaker:	8/16	PES, Educational Activities, and Algonquin College IEEE Student Branch
January 29, 2015 Algonquin College	Technical	Modeling in Power Electronics - Comparison of the Forward Voltage Drop of Si and SiC High Voltage Diodes Speaker: Dr. Tanya K. Gachovska, Solantro Semiconductor Corp., Ottawa, ON, Canada	15/20	PES Chapter, RS/PEL Joint Chapters, IM Chapter, Educational Activities, and Algonquin College IEEE Student Branch
Feb 4, 2015 Algonquin College	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
April 16, 2015 Algonquin College	Technical	Applications of Petri Nets in Communications - Calculation of Probability Distributions of	13/16	ComSoc/BT/CE Joint Chapter, EMBS Chapter, RS/PEL Joint Chapter, PES Chapter, EdA, ACS Branch, and joint with Algonquin

		Performance Variable in Petri Net Models Speaker: Dr. Faruk Hadziomerovic, Independent Consultant, Ottawa, ON, Canada		College
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

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

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

Vice Chair: Marek Zaremba, Marek.Zaremba@uqo.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
26/06/2015, 12:30 pm, CBY UOttawa	Technical Meeting	Mr. Fouad Khalil	3/15	No
3/02/2015, 12:30 pm, CBY UOttawa	Technical Meeting	Mr. Jin Bai	3/16	No
7/10/2015 10:00 am Fauteaux 137 UOttawa	Technical Meeting (DL)	Professor Cesare Alippi	12/16	CI/SMC, EMBS, CompSoc, IMS

23/10/2015, 1:30 pm, M&A, Carleton University	Technical Meeting	Dr. Karol Seweryn		No
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Unique events: We were main co-sponsor of IFAC/IEEE INCOM Symposium held in Ottawa in May 2015 with 370 participants mostly from abroad.

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

Chair: Raed Abdullah, RaedAbdullah@ieee.org

No information received from the chapter officers.

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

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

Vice Chair: Jun Li, jun.li@crc.gc.ca

No information received from the chapter officers.

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

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

Co Chair: Wahib Thabet, wthabet@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
November 12, 2014,	Technical Meeting/Webinar	Professional Development Seminar	115	TEMS/ PCS/SSIT

6:00-9:00 pm, Algonquin College		Series (PDSS): A Primer on Consulting Skills Speaker: Robert Venczel		
January 26, 2015, 6:00-9:00 pm, Algonquin College	Technical Meeting/ Workshop/ Seminar	Professional Development Seminar Series (PDSS): Creating Your Financial Roadmap (Financial Planning Skills) Speaker: Joyce Chamas	40	TEMS/ PCS/SSIT

Awards and Recognitions:

- Recognized for IM 2015 Patron Chair (certificate)
- Senior Member plaque (recognized in 2014)

Unique events: IM 2015 Symposium held on May 11-15, 2015, at Shaw Centre (Patron Chair for event)

Proposed events:

- *IEEE Ottawa Section Professional Development Seminar Series Initiative:* Proposed interactive PDSS workshop on *The Versatile Engineer* in November, 2015. The focus will be on developing leadership and communications skills and will link to entrepreneurs in industry.
- *IEEE Ottawa Section Professional Development Seminar Series Initiative:* Strategic meetings to be held with Professional Engineers Ontario (PEO), Ontario Society of Professional Engineers (OSPE), Women in Engineering (WIE), Tech Tuesdays (Silicon North) and other groups to help maximize learning opportunities for IEEE members and non-members, particularly in the area of interpersonal skills learning, training and development.

VTS – Vehicular Technology Society

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

Vice-Chair: Barry Pekilis, barry.pekilis@ieee.org

Secretary: Bhagvat Joshi, bjoshi@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
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16 Apr 2015	Meeting – Petri nets	Dr. Faruk Hadziomerivic	13, 16	Many IEEE
13 May 2015	Meeting – Robot-assisted wireless sensor networks	Dr. Rafael Falcon	9, 16	CIS, SMC
29 Sep 2015	5G- teaching an old dog new tricks in unlicensed spectrum	Chris Richards, Ericsson, Ottawa	6, 18	IET-UK

Best practices: Network to obtain good speakers, especially if an “out-of-towner” is in Ottawa for other reasons.

Affinity Group Reports

AICN – Alliance of IEEE Consultant Network

Chair: Bhagvat Joshi, bjoshi@ieee.org

Chair: Mike Bourassa, majb2008@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
4 Feb 2015 Algonquin College, Ottawa	Tech Meetings	An overview of the build in Canada Innovation Program (BCIP)	10/16	WiE, Section

Awards and Recognitions: Awarded Outstanding Affinity Group Award – October 10 2014

Proposed events:

- Internet of Things – what’s it all about
- Finding Bad Guys with Big Data – Dr. D. Skillicorn of Queens U – Big Data frequently means additional opportunities for malfeasance. In principle, Big Data suggests it is easier to find criminal activity, but in fact, criminals are becoming adept at hiding 'in the noise'. 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 Health Care.
- Update on 5G cellular
- 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

YP – Young Professionals

Chair: Alawi Assaggaf, assaggaf@ieee.org

Vice Chair: Laura Mutu, laura.mutu@ieee.org

Secretary: Lubna Rasheed, lubnarasheed@ieee.org

Treasurer: Mohamed Abdelazez, m.h.abdelaz@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
Feb 26th, 6:30 pm (EST). Location: Algonquin College, T Building, T321	Seminar. Having a financial roadmap is the first step to ensure you are on the right path to reaching your financial goals. This presentation will show you the big picture of building a financial roadmap, as well as dive into a few of its elements.	"Creating your financial roadmap" / Joyce Chamas, holistic financial advisor	~ 30	IEEE PDSS (Professional Development Seminar Series)
15-May-2015 11:00AM to 12:30PM (1.50 hours) Where: Shaw Centre (formerly Ottawa Convention Centre) Room Number: 106 55 Colonel By Drive Ottawa, Ontario	A seminar explaining why traditional network designs are failing service providers and what alternatives could be looked into. Chris Bachalo, CTO of Juniper Networks, talked about Software-defined networking (SDN) and Network functions virtualization (NFV).	TITEL: Traditional Network Designs vs. SDN/NVF - Seminar - Young Professionals SPEAKER: Chris Bachalo, CTO of Juniper Networks	~ 20	IM 2015 (http://im2015.ieee-im.org/)

Canada K1N 9J2				
01-June-2015 05:00PM to 06:00PM (1.00 hours) Where: The National Arts Centre (NAC) Rooftop Terrace Tent 53 Elgin Street Ottawa Ontario, Canada K1P 5W1	Meet and Greet This event is an opportunity to build a connection between Humanitarian and Technology professionals and enthusiasts. So, whether you have some interest, a passion, or a career in the humanitarian and/or technological fields	Social Entrepreneurship International Meet and Greet	~ 100	IHTC 2015
Saturday, July 25 at 2:00pm Location: University of Ottawa, Makerspace	Workshop Learn the basics of 3D printing and network with fellow young professionals! Attendees will be able to print a small part during this workshop provided by the University of Ottawa Makerspace.	3D printing workshop	22	
Roughly every couple of weeks	Administrative	Planning Meeting	3/3	

Proposed events:

- Hands-on workshops in different areas (programming, 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

No activities reported.

WIE – Women in Engineering

Chair: Winnie Ye, Winnie_ye@carleton.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
Oct 7, 2014, 1-5pm, Carleton University	Joint Public Seminar	Dr. Donna Strickland (former president of OSA); Dr. Maria Rey (former DND director)	50	IEEE Student Branch WIE Affinity Group, SPIE Student Chapter, IEEE Photonics Society
March 12, 2015, 6pm-10pm, RA Centre, 2451 Riverside Dr, Ottawa, ON	Networking event	IEEE WIE Wine & Cheese Networking event	80	IEEE Student Branch WIE Affinity Groups at University of Ottawa and Carleton University

Proposed events: Annual IEEE WIE Wine & Cheese Networking event, March 2016, Ottawa (location details TBD)

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

Activity Date, Time, Location	Activity Type (Tech Meeting, Workshop, DL,	Title/Speaker or Workshop Name	Attendance IEEE/Total	Joint Activity Sponsors
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	etc) and Brief Description			
Tuesday, November 27, 2014 TIME: 6:00 pm – 7:45 pm Algonquin College, 1385 Woodroffe Ave. , School of Advanced Technology, T-Building , Room T129	Technical	History of Engineering in Canada: What We Should Know about It / Dr. Dimitrios Georgakopoulos, Research Scientist, National Measurement Institute, Sydney, Australia		IEEE Power and Energy Society Ottawa Chapter (PES), IEEE Ottawa Educational Activities, and IEEE Algonquin College Student Branch
Tuesday, November 25, 2014 6:00 pm –8:00 pm, Algonquin College, 1385 Woodroffe Ave. , School of Advanced Technology, T-Building , Room T129	Technical (DL)	Aggregating Forecast Functions for Next Generation / Dr. Mo El-Hawary, Fellow IEEE, , IEEE PES Distinguished Lecturer		
Wednesday, April 1, 2015 6:15-9:30 pm, UOttawa	Workshop	IEEE Eastern Ontario Oral Student Paper Competition Wednesday, April 1, 2015		
September 9, 2015	Administrative	Elect the new IEEE Algonquin Student Branch officers		
September 9-11, 2015	Administrative	Orientation Week		
September 16, 2015	Other	Recruit new members		
September 30, 2015	Other	Recruit new members		
October 10, 2015, 10 am – 2 pm, ACCE building (CA)	Other	Open House to recruit new members		

Carleton University

Chair: Maytham Sabbagh, chair@ieee.carleton.ca

Vice-Chair: Alok Deshpande, vicechair@ieee.carleton.ca

Secretary: Erik Johnson, secretary@ieee.carleton.ca

Treasurer: Samir Hawa Rojas, treasurer@ieee.carleton.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
Bi-Weekly Wednesday (October 8th 2014 – April 8th 2015) 6PM, Carleton University, ME4233	Technical Software Related Workshops (Linux, LaTeX, Git, C)	Introduction to Linux - Introduction to Group Software Development using Git - Technical Writing with LaTeX - Effective Development with C	15/25	
Bi-Weekly Tuesday (September 29th 2015 – Technical Software Related Workshops (Linux, Git, C) - Introduction to Linux - Introduction to Group Software Projected 20/40 None October 27th 2015) 6PM, Carleton University, ME4233	Technical Software Related Workshops (Linux, Git, C)	Introduction to Linux - Introduction to Group Software Development using Git - Effective Development with C	20/40	
October 3rd 2014, Carleton University	Engineering Competition	Carleton University Engineering Competition (Programming	8	Carleton Student Engineering Society

		Competition)		
October 17th 2015, Carleton University	Engineering Competition	Carleton University Engineering Competition (Programming Competition)	Expected: 16	Carleton Student Engineering Society
Weekly – Thursday (October 9th 2014 – April 9th 2015) 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
Weekly – Thursday (September 17th 2015 – October 29th 2015) 6:30PM, Carleton University, AA510	- Technology Meeting - Workshops - Maker Space - Special Project Support - Special Project Starting Entity - Special IEEE Carleton Teams in International Competitions	IEEE Carleton's Stay Late And Make (IEEE Carleton SLAM)	15/40	- Room and Equipment bought by Systems and Computer Engineering Department at Carleton University
Monday December 8th 2014, 5:30PM, Carleton University ME4195	- Technical Competition - Course Competition - Engineering Design Competition	IEEE Carleton FPGA Competition (IEEE Carleton's ELEC3500 Competition)	2/4	- ELEC3500 Course Instructor - Department of Electronics (Carleton University) for room and

	- Electrical Design			equipment support - Ross Video for judging
Monday December 8th 2014, 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
January 11th 2015, LaserQuest Ottawa, 2PM	- Volunteer Appreciation	IEEE Carleton Volunteer Appreciation	7/9	None
January 29th 2015, Hellenic Centre, 6PM	- Professional Awareness - Networking Event - Conference	Student Professional Awareness Conference (SPAC2015)	170 total Probably 70 or so IEEE (Cannot find the detailed statistics)	- IEEE Ottawa Section - Shopify - Faculty of Engineering and Design (Carleton) - Pythian - Fidus Systems - Systems and Computer Engineering Department (Carleton) - Department of Electronics (Carleton) - Algonquin College - Alcatel Lucent - Solana Networks - Carleton University Student Association - Graduate Student

				Association (Carleton) - Co-op and Career Services (Carleton) - IEEE UOttawa - IEEE AlgonquinC
February 21st 2015, Algonquin College (T Building), 10 AM	- 24 Gaming Event - LAN Event - Social Event - Gaming and Technology Enthusiasts Gathering	Battle Royale 8	250 (Do not have the statistics of members vs non- members)	- IEEE Ottawa Section - WhiteBox Systems - Algonquin College - RobotShop - eSports Gaming Events - IEEE UOttawa
March 12th 2015, RA	- Conference - Women in	6th Annual WIE Wine and Cheese	65	- IEEE UOttawa - IEEE Ottawa
March 21st 2015, Tailgaters, 3PM	- Volunteer Appreciation - Social Gathering	SPAC and BR Volunteer Appreciation	20/30	- IEEE UOttawa
May 16th – 18th 2015, Mont. Tremblant	- Executives get together - Executive Retreat -	IEEE Carleton University Executives' Retreat	20/20	None
June 13th and 27th 2015, Carleton University, AA510, 12PM	- Workshop - PCB Design - Technical Workshop	IEEE Carleton's PCB Design Workshop	13/15	None
September 26th and October 10th	- Workshop	IEEE Carleton's PCB Design Workshop	- Maximum	None

2015, Carleton University, AA510, 12PM	- PCB Design - Technical Workshop		15 - Registered 35 - (Will re-run later on)	
Bi-Weekly – Tuesday (October 7th 2014 – April 7th 2015) 6:30PM, Carleton University, MC2014	- Meeting	Executive Meeting	- Usually 10/10	None
Bi-Weekly – Tuesday (September 8th 2015 – October 27th 2015) 6:30PM, Carleton University, MC2014	- Meeting	Executive Meeting	- Usually 15/15 - Expected 15/15	None
Thursday July 9th 2015, Carleton University MC2014	- Meeting	Executive Meeting	15/15	None
Monday August 17th 2015, Carleton University MC2014	- Meeting	Executive Meeting	15/15	None

Best Practices:

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

- Our student branch every year has a number of volunteers that volunteer to keep the McNaughton Resource Centre open as much as possible. These volunteers then become the first to know about the events our branch is organizing.
- Our most active volunteers are then considered as candidates for the executive committee in the next years.
- In organizing our events, we try to have the volunteers in the action. Our branch usually has volunteers help in organizing the events and not just volunteer the day of. We encourage our volunteers to take on tasks for events such as SPAC, BR, Wine and Cheese, Workshops, SLAM and so on.
- Committee:
 - Our executive committee includes 19 executives as listed above. The work is divided between all 19 executives as best as possible. In organizing events, all executives help as much as they can. Large number of executives means there is lots to offer, since the executives will have different ideas for events to organize and so on.
- Collaborations:
 - Our Student Branch collaborates with multiple organizations, whether at Carleton or outside of Carleton to make sure the services we provide to our members and students is as good as possible.
 - Our branch collaborates with the UOttawa and AlgonquinC student branches in organizing 3 events. This collaborations opens 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 & Recognitions:

- IEEE 2015 Darrel Chong Award (Bronze): o Our Student Branch's "Get Connected" Workshops initiative won Bronze in the Darrel Chong Award. Our workshop series is continuing this year with more to offer and more to achieve.
- IEEE 2015 Darrel Chong Award (Silver): 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.

Unique Events:

- Student Professional Awareness Conference (SPAC2015)

- BattleRoyale 8 (BR8)
- Workshops: Done in both semesters (bi-weekly) o Introduction to Linux
- Introduction to Group Software Development using Git
- Technical Writing with LaTeX
- Effective Development with C
- IEEE Carleton's PCB Design Workshop
- 6th Annual WIE Wine and Cheese
- Competitions:
 - o Carleton University Engineering Competition (Programming Competition)
 - o IEEE Carleton FPGA Competition (IEEE Carleton's ELEC3500 Competition)
 - o IEEE Carleton Analog Design Competition (IEEE Carleton's ELEC3509 Competition)
 - o IEEE Xtreme 8.0
 - o Carleton's Papers Competition
- Stay Late And Make (weekly)
- Volunteers Appreciation
- SPAC and BR Volunteers Appreciation

Proposed events:

- Student Professional Awareness Conference (SPAC2016) o January 28th 2016
 - o Location: Hellenic Centre (Ottawa, Prince of Wales Drive)
 - o Professional networking, conference, career development focused event.
 - o Help from IEEE UOttawa and IEEE AlgonquinC is required for this event.
 - o Approximately \$10000 in expenses and \$10000 in revenues expected from this event.
- BattleRoyale 9 (BR9)
 - o February 2016
 - o Location: Algonquin College (Building T)
 - o 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) 2 Bi-Weekly (Wednesdays and Saturday if needed)
 - o Location: Carleton University (ME4233)
 - o Knowledge sharing and knowledge gaining
 - o Introduction to Linux
 - o Introduction to Group Software Development using Git
 - o Technical Writing with LaTeX
 - o Effective Development with C
 - o IEEE Carleton's PCB Design Workshop
 - o Introduction to Web Development
 - Maybe an advanced one after

- Introduction to Java
 - Maybe an advanced one after that includes GUIs
- Introduction to Micro-Controllers
 - Maybe an advanced one after that has a start to finish objective to reach
- Introduction to API
- Introduction to Mobile App Development
- 7th Annual WIE Wine and Cheese
 - March 2016
 - Location: RA Centre?
 - Women In Engineering celebration and a social event
 - IEEE CarletonU WIE and IEEE UOttawa WIE
- WIE Social Get Together
 - Fall semester get together
 - Winter semester get together
- Competitions:
 - Carleton University Engineering Competition (Programming Competition)
 - October 17th 2015
 - Winners go to the Ontario Engineering Competition
 - Organized with Carleton Student Engineering Society
 - Location: Carleton University
 - 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
 - IEEE Xtreme 9.0
 - October 23rd 2015
 - Location: Carleton University (TBD)
 - Organize a room for Carleton teams to use for the competition

- Carleton's Papers Competition
 - April 2016
 - 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
 - Location: Carleton University (AA510)
 - 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
 - January 2016
 - 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
 - March 2016
 - Location: TBD
 - Appreciation of the hard working volunteers that help IEEE CarletonU and the other Student Branches in Ottawa run SPAC and BR.

University of Ottawa

Chair: Max Housany, chair@ieeeuottawa.ca

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

Other Roles:

- Treasurer: Jonathan Gratton
- VP Academic Affairs: Mohammed Hussain
- VP Communications: Jacob Barnuevo
- VP External Affairs Jane You
- VP Internal Affairs: Robert Pollak
- VP Social: Manisha Wanniarachchige
- McNaughton Centre Admin: William Pearson
- Secretary: Maryam Alshehab
- Webmaster: Trung Do
- WIE Chair: Danielle Marchand

- Photonics Chapter Chair: Shuangyin Ren
- Photonics Chapter Vice-Chair: Kavleen Aulakh
- Faculty Advisor: Shervin Shirmohammadi

Activity Date, Time, Location	Activity Type	Title/Speaker or Workshop Name	Attendance IEEE/Total	Joint Activity Sponsors
Tuesday, October 7th, 2014 from 10:00AM to 2:00PM IEEE uOttawa Student Branch McNaughton Centre (800 King Edward room 4026)	Open House	IEEE Day McNaughton Centre Open House	46 participants	None
Tuesday, October 7th, 2014 from 7:00PM to 9:00PM Colonel By Building Room A605 (161 Louis Pasteur)	Workshop	IEEE Day Build Your Own Website Workshop	27 participants	None
Friday, November 14th, 2014 from 5:00PM to 6:00PM Colonel By Building Room	Social Event	IEEE uOttawa Women In Engineering presents Zumba Night!	17 participants	None

A07 (161 Louis Pasteur)				
Tuesday, December 2nd, 2014 from 7:00PM to 10:00PM IEEE uOttawa Student Branch McNaughton Centre (800 King Edward room 4026)	Workshop/Study Session	Cram and Cookies and C Tutorial Sessions!	65 participants	None
Thursday, January 29th, 2015 at 6:00PM Hellenic Meeting and Reception Centre	Networking Event	SPAC 2015 (Student Professional Awareness Conference)	148 participants	IEEE Carleton Student Branch, IEEE Ottawa Section, Algonquin College, Shopify, Alcatel-Lucent, Fidus Systems, Pythian, Solana Networks
10:00 AM Saturday, February 21st, 2015 to 10:00 AM Sunday, February 22nd, 2015 Algonquin College School of Advanced Technology Building Room	24 Hour LAN and Console Gaming Tournament	Battle Royale VIII	252 participants	IEEE Carleton Student Branch, IEEE Ottawa Section, Algonquin College, Whitebox Systems, Robot Shop, ESport Gaming Events

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Thursday, March 12th, 2015 from 6:00PM-9:00PM RA Centre (2451 Riverside Drive)	Networking Event	Celebration of Women In Engineering Wine and Cheese Event	110 participants	IEEE Carleton Student Branch, IEEE Ottawa Section, IEEE Women In Engineering Affinity Group, University of Ottawa Faculty of Engineering
Wednesday, March 18th, 2015 at 1:00PM Chaudiere Falls Generating Station (Mill Street, Amelia Island)	Industry Tour	Hydro Ottawa Energy Tour for National Engineering Month	11 participants	None
Monday, March 30, 2015 at 7:30PM University of Ottawa SITE Building 5th floor board room.	Meeting	IEEE University of Ottawa Student Branch Annual General Meeting	24 participants	None
Tuesday, April 28th, 2015 at 7:30PM	Social Event	End of Year Social Event. IEEE uOttawa Student Branch Executive and Volunteers	30 participants	None

		Pool Night.		
Thursday, May 28th, 2015 from 12:00PM to 3:00PM Grad Lounge, University of Ottawa (601 Cumberland Street)	Live Stream of Keynote Speaker	Google I/O Extended - Ottawa	20 participants	Google
Monday, September 14th, 2015 from 6:00PM to 8:00PM IEEE uOttawa Student Branch McNaughton Centre (800 King Edward room 4026)	Networking/ Social Event	IEEE Welcome Week Day 1: Meet and Greet the Executive Committee	50 participants	None
Tuesday, September 15th, 2015 from 3:00PM to 5:00PM ARC Building (25 Templeton	Lab tours	IEEE Welcome Week Day 2: Photonics Lab Tours	21 participants	None

Street)				
Wednesday, September 16th, 2015 from 11:30AM to 1:00PM CBY Lawn (161 Louis Pasteur)	Social Event	IEEE Welcome Week Day 3: Dodgeball IEEE Execs vs uOttawa	35 participants	None
Thursday, September 17th, 2015 at 6:00PM Colonel By Building room B109C (161 Louis Pasteur)	Workshop	IEEE Welcome Week Day 4: Arduino Workshop	40 participants	None
Friday, September 18th, 2015 at 7:00PM Patty Boland's (101 Clarence Street)	Social Event	IEEE Welcome Week Day 5: Pub Night at Patty's!	30 participants	None
Friday, September 25th, 2015 from 7:00PM to 9:00PM	Networking/ Social Event	Big Eng, Little Eng Launch Event	55 participants	None

Colonel By Building Room A07 (161 Louis Pasteur)				
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Best Practices:

- a. **6th Annual Celebration of Women In Engineering Wine and Cheese Event.** (Largest turnout to a Celebration of Women In Engineering Wine and Cheese since the conception of this event. Positive Feedback. First time hosting speed interviews. More companies interested in hosting speed interviews at future events.)
- b. **Battle Royale 8** (Ottawa's Largest 24 Hour LAN Party. Largest turnout for an event hosted by IEEE uOttawa Student Branch for the year 2014-2015. Positive Feedback. Great collaboration and teamwork between the University of Ottawa and Carleton University Student Branches. Event is recognized provincially. Participants from all across Ontario.)
- c. **Cram and Cookies and C Tutorial Sessions** (Study session and mentoring event held prior to exam period. Graduate students and senior students help tutor younger students in subjects they are struggling with. Positive Feedback. High demand for more events of this kind in the future.)
- d. **IEEE Welcome Week** (Week-long event with various activities hosted daily by the IEEE University of Ottawa Student Branch. Great variety of social, technical, and networking events. Events geared to introduce students, new and old alike, to the IEEE and IEEE University of Ottawa Student Branch. Fantastic turnout! Exceeded what we had expected in terms of success. Effectively introduced many new students to the IEEE and the IEEE uOttawa Student Branch.)
- e. **Women In Engineering Big Eng, Little Eng Program** (New program started at the IEEE University of Ottawa Women In Engineering Affinity Group. It is a mentorship program where a junior student in their first year at university is paired up with a senior student at the university. The goal of the program is for senior students to help the junior students integrate into the university lifestyle. It also develops a strong network between the female engineering students at the university. High interest in program. Launch event successful. High hopes for the outcome of this program.)

Awards and Recognitions:

- Outstanding Student Branch Award 2014
- McNaughton Centre Grant

- Samira El-Rayyes recipient of the Scholarship for Involvement with IEEE.

Unique Events:

- Build Your Own Website Workshop
- Women In Engineering Zumba Night
- Cram and Cookies and C tutorial sessions
- IEEE Student Professional Awareness Conference (SPAC)
- Battle Royale
- Celebration of Women in Engineering Wine and Cheese Event
- Hydro Ottawa Energy Tour hosted by the University of Ottawa WIE Affinity Group
- The IEEE University of Ottawa Student Branch Presents: IEEE Welcome Week!
- IEEE University of Ottawa Women In Engineering's Big Eng, Little Eng mentorship program.

Proposed Events:

- a. January 2016: IEEE Student Professional Awareness Conference 2016 (SPAC 2016)
 - Will most likely be held at the Hellenic Meeting and Reception Centre
 - Approximated expenses \$8,750.00
 - Approximated revenue \$10,370.00
 - IEEE Ottawa Section annually supports this event in the form of a \$500.00 patronage.
- b. February 2016: Battle Royale 9
 - Will most likely be held at the Algonquin College Building School of Advanced Technology room 102
 - Approximated expenses \$5,000.00
 - Approximated revenue \$8,000.00
 - IEEE Ottawa Section annually supports this event in the form of a \$500.00 patronage.
- c. March 2016: 7th Annual Celebration of Women In Engineering Wine and Cheese
 - Venue to be determined
 - Approximated expenses \$2,500.00
 - Approximated revenue \$2,600.00
 - IEEE Ottawa Section annually supports this event in the form of a \$500.00 patronage.
- d. Other events

- Social Events (Pool night, board game night, creative competitions)
- Industry/Lab Tours
- Networking Events (Coffee socials)
- Guest Speakers/Keynote Speakers
- Technical Workshops (Arduino, Raspberry Pi, Circuit Board, Web Development)

IEEE Ottawa Section Executive 2015

The current IEEE Ottawa Section executive officers are as follows:

- Chair: Mrs. Janet Davis, SMIEEE – janet.davis@ieee.org
- Vice-Chair: Ms. Anissa Shaddy - anissa@ieee.org
- Treasurer: Dr. Mike Bourassa, SMIEEE - michael.bourassa@ieee.org
- Secretary: Dr. Rafael Falcon, SMIEEE – rfalcon@ieee.org
- Past Chair: Dr. Rami Abielmona, SMIEEE, P.Eng. - rabiemo@ieee.org

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

IEEE Ottawa Section Elections for 2016

The Section officers proposed by the Nomination and Appointments Committee for the Ottawa Section Executive in 2016:

- Chair: Mrs. Janet Davis, SMIEEE – janet.davis@ieee.org
- 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. - rabiemo@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 rabiemo@ieee.org no later than Oct. 10, 2015.

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 2015 Section Executives and Officers

Name	Position	Email	Initials
EXECUTIVES			
Janet Davis	Chair	janet.davis@ieee.org	
Anissa Shaddy	Vice Chair	anissa@ieee.org	
Rafael Falcon	Secretary	rfalcon@ieee.org	
Mike Bourassa	Treasurer	michael.bourassa@ieee.org	
Rami Abielmona	Past Chair	rabiemo@ieee.org	
COMMITTEES			
Annual General Meeting (AGM) Planning			
Anissa Shaddy	Chair	anissa@ieee.org	
Awards & Recognitions			
Wahab Almuhtadi	Chair	almuhtadi@ieee.org	
[Ottawa Section Execs]	Members	Chair, Vice Chair, Secretary, Treasurer, Past Chair	
Raed Abdullah	Member	raedabdullah@ieee.org	
Bylaws			
Branislav Djokic	Chair	branislav@ieee.org	
Kexing Liu		kexing.liu@ieee.org	
Communications / Publications			
Maytham Sabbagh	Chair	chair@ieee.carleton.ca	
Amir Ammar	Newsletter Editor	amir.m.ammar@gmail.com	
Yolina Petkova	Member	yolina.petkova@gmail.com	
Ismail Syed	Webmaster	ismail.syed@ieee.carleton.ca	
Educational Activities (EA)			
Branislav Djokic	Chair	branislav@ieee.org	
Engineers in Transition Activities (EiT)			
Bruce Yu	Vice Chair	bruce.yu.gn@ieee.org	

Membership Development (MD)		
Anissa Shaddy	Co-Chair	anissa@ieee.org
Nominations and Appointments		
Rami Abielmona	Chair	rabiemo@ieee.org
Sreeraman Rajan		sreeraman@ieee.org
Raed Abdullah		raedabdullah@ieee.org
Wahab Almuhtadi		almuhtadi@ieee.org
Branislav Djokic		branislav@ieee.org
John Grefford		grefford@ieee.org
Tom Lavrisa		lavrisa@ieee.org
Ottawa Robotics Competition		
Heidi Li	Chair	heidi.li.ca@ieee.org
David Huynh	Vice Chair	david.huynh.ca@ieee.org
Jeffrey Arcand	Treasurer	jeffrey.arcand@ieee.org
Strategic Planning		
Barbara Waruszynski	Chair	b.waruszynski@sympatico.ca
Eric Karmouch		ekarmouch@ieee.org
Maria Rey		sasquatch.rey@gmail.com
Raed Abdullah		raedabdullah@ieee.org
Sreeraman Rajan		sreeraman@ieee.org
Wahab Almuhtadi		almuhtadi@ieee.org
Branislav Djokic		branislav@ieee.org
Teacher in Service Program (TISP)		
Wolfram Lunscher	Chair	wlunscher@gmail.com
Senior Membership		
Sreeraman Rajan	Chair	sreeraman@ieee.org
Chen Wu	Vice Chair	wuchen888@ieee.org
Conference		
Wahab Almuhtadi		almuhtadi@ieee.org

Sreeraman Rajan		sreeraman@ieee.org
Raed Abdullah		raedabdullah@ieee.org
TECHNICAL CHAPTERS		
AESS – Aerospace and Electronic Systems Society		
Hugh Reekie	Chair	h.reekie@ieee.org
Tony Ponsford	Vice Chair	tony_ponsford@raytheon.com
AP/MTT – Microwaves/Antennas/Propagation Society		
Qingsheng Zeng	Chair	qingsheng.zeng03@hotmail.com
Leonard Petrie	Vice Chair	petrie@rogers.com
Yuming Tao	Secretary	yuming.tao@pmcs.com
CI/SMC – Computational Intelligence Society / Systems, Man and Cybernetics Society Joint Chapter		
Rafael Falcon	Chair	rfalcon@ieee.org
Qinghang Xiao	Vice Chair, CI	qinghan.xiao@drdc-rddc.gc.ca
George Yee	Vice Chair, SMC	g.m.yee@ieee.org
Julio Valdes	Gov't Liaison	julio.valdes@nrc-cnrc.gc.ca
CompSoc – Computer Society		
Rami Abielmona	Chair	rabiemo@ieee.org
Dan Ionescu	Vice Chair	ionescu@site.uottawa.ca
Eric Karmouch	Webmaster	ekarmouch@ieee.org
ComSoc, BTS & CES		
Wahab Almuhtadi	Chair	almuhtadi@ieee.org
Claude Brulé	Vice Chair	brulec@algonquincollege.com
CPMT - Components, Packaging and Manufacturing Technology Society		
Qi-Jun Zhang	Chair	qjz@doe.carleton.ca
DEIS - Dielectrics and Electrical Insulation Society – Joint Ottawa-Montreal Chapter		
Refat Ghunem	Chair	Refat.Ghunem@nrc-cnrc.gc.ca
Eric David	Vice Chair	
EDS, CAS & SSCS		
Ram Achar	Chair	achar@doe.carleton.ca

Ihsan Erdin	Vice Chair	ierdin@ieee.org
EMC – Electromagnetic Compatibility Society		
Syed Bokhari	Chair	bokhari@ieee.org
Qiubo Ye	Vice Chair	quibo.ye@crc.ca
EMBS – Engineering in Medicine and Biology Society		
Sreeraman Rajan	Chair	sreeraman@ieee.org
James Green	Vice Chair	jrgreen@sce.carleton.ca
Yuu Ono	Secretary	yuuono@sce.carleton.ca
Adrian Chan	Treasurer/Webmaster	adcchan@sce.carleton.ca
IMS – Instrumentation and Measurement Society		
Voicu Groza	Chair	vgroza@ieee.org
Branislav Djokic	Vice Chair	branislav@ieee.org
IAS – Industry Applications Society		
LEOS – Photonics Society		
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
Branislav Djokic	Vice Chair	branislav@ieee.org
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
Marek Zaremba	Vice Chair	marek.zaremba@ugo.ca
R/PEL – Reliability Society / Power Electronics Society – Joint Chapter		
Raed Abdullah	Chair	raedabdullah@ieee.org

Irfan Al-Anbagi	Vice Chair (R)	irfan.al-anbagi@uottawa.ca
Xiaoyu (Kevin) Wang	Vice Chair (PEL)	xiaoyuw@doe.carleton.ca
SP, OE & GRS		
Yifeng Zhou	Chair	yifeng.zhou@ieee.org
Jun Li	Vice Chair	jun.li@crc.ca
TEMS, PCS & SSIT		
Barbara Waruszynski	Chair	b.waruszynski@sympatico.ca
Alfredo Herrera	Vice Chair	alfredo.herrera@ieee.org
Wahib Thabet	Vice Chair	wthabet@gmail.com
VTs – Vehicular Technology Society		
Hugh Reekie	Chair	h.reekie@ieee.org
Barry Pekilis	Vice Chair	
Bhagvat Joshi	Secretary	bjoshi@ieee.org
AFFINITY GROUPS		
AICN – Alliance of IEEE Consultant Network		
Bhagvat Joshi	Chair	bjoshi@ieee.org
Mike Bourassa	Vice Chair	michael.bourassa@ieee.org
YP (formerly GOLD) – Young Professionals		
Alawi Assaggaf	Chair	assaggaf@ieee.org
Laura Mutu	Vice Chair	lauramutu@ieee.org
Mohamed Abdelazez	Treasurer	m.h.abdelaz@gmail.com
Lubna Rasheed	Secretary	lubnarasheed@ieee.org
LM – Life Member		
Wolfram Lunscher	Chair	wlunscher@gmail.com
WIE – Women in Engineering		
Winnie Ye	Chair	winnie_ye@carleton.ca
Ottawa – Special Interest Group on Humanitarian Technology (SIGHT)		
Alfredo Herrera	Chair	alfredo.herrera@ieee.org
Sean Campeau	Vice Chair	sean.campeau.ca@ieee.org

Kin Y. Sze	OS-ARIS Project Lead	kinsze@ieee.org
STUDENT BRANCHES		
Algonquin College		
Abdul Majid Abdul Rahim	Chair	abdu0289@algonquinlive.com
Curtis Cunliffe	Vice Chair	cunl0004@algonquinlive.com
Ben Haines	Secretary	hain0044@algonquinlive.com
Joshu Basque	Treasurer	basq0008@algonquinlive.com
Abdul Al-Azzawi	Faculty Advisor	alazaa@algonquincollege.com
Carleton University		
Maytham Sabbagh	Chair	chair@ieee.carleton.ca maytham.sabbagh@ieee.carleton.ca
Alok Deshpande	Vice Chair	vicechair@ieee.carleton.ca alok.deshpande@ieee.carleton.ca
Erik Johnson	Secretary	secretary@ieee.carleton.ca erik.johnson@ieee.carleton.ca
Patrobas Adewumi	External Director	external@ieee.carleton.ca
Ismail Syed	Webmaster	ismailsyed@ieee.carleton.ca webmaster@ieee.carleton.ca
Calvin Plett	Faculty Advisor	cp@doe.carleton.ca
University of Ottawa		
Max Houssany	Chair	chair@ieeeuottawa.ca
Brendan Keyworth	Vice Chair	vice-chair@ieeeuottawa.ca
Jonathan Gratton	Treasurer	treasurer@ieeeuottawa.ca
Danielle Marchand	WIE-Chair	wie-chair@ieeeuottawa.ca
Hamdam Nikkah	Photonics Chair	Photonics-chair@ieeeuottawa.ca
Shervin Shirmohammadi	Faculty Advisor	shervin@discover.uottawa.ca
Other Student Bodies		
Stephanie Zeidan	R7 Student Rep.	Stephanie.zeidan.ca@ieee.org