



IEEE Ottawa Section Report to the Annual General Meeting 2011

October 28, 2011

**IEEE****Ottawa
Section**

IEEE Ottawa Section Report to the Annual General Meeting 2011

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IEEE Ottawa Section Chair's Report

The Section embraced the theme "*Engage and Outreach*" for this year and committed itself to excellence, dedication and growth. As a part of this commitment, we took the first step to improve the Section's visibility to the world. We did this by revamping our website and giving it a new vibrant look. Our student branch volunteers did a fabulous job of creating a professional website that is appealing, informative and easy to use. These volunteers demonstrated their creativity and innovativeness in this undertaking. I bow low in gratitude to all the student volunteers, especially Mr. Daniel Godfrey, Mr. Jake Swart and Mr. Jeffrey Arcand, who had been actively involved in developing the web-site.

Our commitment to advancing technology for humanity through humanitarian initiatives is still ongoing. The Humanitarian Initiatives Committee (HIC) is under IEEE Canada and thus has a Canada-wide presence. However, this committee has full support and endorsement by the Ottawa Section to help make it a leading IEEE initiative. The HIC has been working hard and moved forward with several initiatives as outlined in this report. We will stay committed to delivering projects that positively impact the lives of people in Canada and all around the world.

As part of our dedication, we nurtured collaboration with the local community by engaging with:

- Members in humanitarian initiatives;
- Schools, school boards and students in the Ottawa Robotics Competition
- Teachers in Teachers-In-Service Program (TISP),
- Universities and colleges in Science Technology Engineering Programs and Unique Pathways (STEP-UP), and
- Industries in Section sponsored conferences, symposia and other activities.

Our section volunteers dedicated themselves to reach out to the public through various section activities: Our volunteers on the TISP committee worked closely with the Canada Science and Technology Museum and organized joint events such as National Engineering Week. Our volunteers in the Ottawa Robotics Competition extended training to grade five to eight school children who were registered for the competition. Our student volunteers at Carleton University in the Engineering in Medicine and Biology Society introduced Biomedical Engineering to high school students, while the Carleton University student branch introduced technology to young female students. The section invited local scientists to give public talks for bringing awareness of advancements in technology to those less technical. The University of Ottawa Student Branch conducted "Google Hackathon" to train the public on web creation tools and also co-organized 24 hour programming contest, "Battle Royale" with other student branches. These activities exposed the talents of the pool of excellent students in the Ottawa region to the technology companies which either participated or sponsored such events. Our student volunteers of student branches of the University of Ottawa, Carleton University and Algonquin College jointly organized events like Student Professional Awareness Conference to stimulate discussions between industry professionals and students, to enable networking opportunities and to learn from the experienced professionals the necessary skills to survive in the real world.

The student branches actively promoted several community promotion events to bring technology awareness, mentored incoming student volunteers and actively supported the Section technical and social activities. The student branches themselves promoted conferences such as Canadian University Software Engineering Conference, Open Show Technology Show Case, IEEE Virtual Environments, Human-Computer Interfaces and Measurement Systems 2011 and IEEE Computational Intelligence for Measurement Systems and Applications.

The Engineers-In-Transition Activities Committee has been active in supporting our members who are currently in job or career transition. The Senior Members Committee has been actively helping with membership grade elevation. From 2010 AGM to 2011 AGM, the section had 27 members elevated to senior grade. Two Senior Members of the section got elevated to the highest of grades, the Fellow grade: Prof. Pierre Berini and Prof. Voicu Groza, both from University of Ottawa.

Preparations for the section-sponsored International Conference in Communications 2012 are in full-swing. The IEEE Ottawa Section was successful in winning the bids for 2013 IEEE Radar Conference, 2013 Computational Intelligence in Defence Applications and 2016 Electromagnetic Compatibility Conference. The section has also developed a close working relationship with the Ottawa Congress Center and Ottawa Tourism. By bringing conferences to Ottawa, IEEE Ottawa will be stimulating the economy and contributing to the growth of the city. This is one of the main contributions of the section beyond technology, innovation and research.

The 2011 Photonics week was celebrated in Ottawa with three conferences supported by IEEE Ottawa Photonics Society while Ottawa Section technically co-sponsored the 2011 IEEE International Carnahan Conference on Security Technology (ICCSST) in Spain. The section also supported the First Canadian Track and Fusion Workshop in Ottawa and the Algonquin College Research Day.

The IEEE Ottawa Section is growing in terms of technical chapters. This year a new chapter, Systems, Man and Cybernetics was born and is currently in incubation with the Computational Intelligence Chapter as a joint chapter. Currently there are 2082 members in the Section with at least one fellow grade member in almost every chapter. The section is financially sound and very active with technical activities. The section had a dozen Distinguished Lectures, about 50 technical activities without double counting and one conference with 94 technical presentations. 2011 has been a successful year with a lot of recognitions for our section, chapters, and volunteers. As always, the section also had its usual social activities. I, therefore, bring your attention to the next section where noteworthy details are listed.

Thank you for enabling the Section to achieve its goals. It is only because of your passion, dedication and effort, the Section has achieved all its recognitions. Congratulations on your efforts and I look forward to continue volunteering with you.

Sincerely,



Srreeraman Rajan, Ph.D., SMIEEE
Chair, IEEE Ottawa Section

The following are the noteworthy details:***Section, Chapters, Affinities, Committees and Student Branches:***

- 1) The IEEE Ottawa Section was recognized as the best large section in Canada and as the best large section in the whole of IEEE.
- 2) The Ottawa Chapter of Engineering in Medicine and Biology Society was recognized as the best chapter amongst all the chapters of the Engineering in Medicine and Biology Society in the world.
- 3) The Carleton University Engineering in Medicine and Biology Society Club won the best club amongst all the Engineering in Medicine and Biology Society clubs in the world.
- 4) The Carleton University Student Branch and the University of Ottawa Student Branches were given the Exemplary Student Award at the region level in this academic year.
- 5) Carleton University Student Branch has been selected as the winner of the IEEE Canada Student Branch Website Design Contest 2011.
- 6) IEEE Ottawa WIE Affinity group gets an honorable mention in the 2010 IEEE WIE Affinity Group of the Year Award.
- 7) University of Ottawa, Carleton University and Algonquin College were placed second, third and fourth place in the IEEE Eastern Ontario Student paper competitions held at Queens University, Kingston, Ontario.

Recognition of Members:

- 1) Profs. Pierre Berini and Voicu Groza became IEEE Fellows based on their outstanding technical contributions.
- 2) Dr. Abdulmotaleb El Saddik was recognized with the Technical Award of IEEE Instrumentation and Measurement Society. Professor El Saddik was awarded this prize for his "outstanding contributions to multimedia computing".
- 3) Dr. Rami Abielmona was one of the recipients of the prestigious 2011 Ottawa Business Journal "Forty Under 40" Award.
- 4) Ottawa Student Member, Mr. Daniel Godfrey was nominated for the Larry K Wilson Student Activities Award and he received a Runner-up award for the excellent service he has provided to the IEEE community.
- 5) Ms. Daphne Ong, Carleton University and Mr. Jeffery Arcand of University of Ottawa won the IEEE Canada Foundation scholarship.
- 6) Laxman Pradhan from Carleton University, Ottawa has been selected to receive this year's Larry K. Wilson Regional Student Activities Award.
- 7) Dr. Ram Achar has become a Distinguished Lecturer under the Distinguished Lecture Program by the Circuits and Systems Society (CASS) for the years 2011 and 2012 to advance the area of signal and power integrity.

8) The MTT-S Education Committee has selected University of Ottawa Ph.D. student, Wangzhe Li, (MTT student member) to receive an MTT-S Graduate Fellowship for 2011.

Conferences and Workshops hosted/sponsored in 2011:

IEEE Ottawa Section hosted Workshop on adverse response monitoring SMART ARM 2010 at University of Ottawa. It was an undertaking by Chapters of Instrumentation and Measurement Technology Society and Engineering in Medicine and Biology Society. It was one and a half day event with participations from North America, Europe and Canada. Some of the international participants presented their work through skype. Highlights of this workshop also appeared in IEEE Canadian Review Winter 2011.

IEEE Photonics Chapter celebrated "2011 Ottawa Photonics Week" by co-sponsoring three conferences: International Conference on Optical Fibre Sensors (OFS2011), International Conference on Information Photonics 2011(ICO) and Photonics North 2011. There were more than 90 technical talks and it was well attended.

The IEEE Ottawa Section supported the 1st Canadian Workshop on Tracking and Fusion held at DRDC, Ottawa, March 7-9, 2011. The following IEEE Ottawa Section Chapters: Aerospace and Electronics Systems, Joint Chapters of Signal Processing, Oceanic Engineering and Geoscience and Remote Sensing Society and Computational Intelligence Chapter co-supported this event.

IEEE Ottawa Section sponsored SPAC (Student Professional Awareness Conference) on March 7, 2011. This is a student-run conference where companies are invited to give talk and network with students.

Members recognized through appointments

- Dr. Qinghan Xiao, Senior Member IEEE has been appointed as Vice Chair, Intelligent Systems Application Technical Committee (ISATC) of IEEE Computational Intelligent Society. Furthermore, he is also the Chair for ISTAC Biometric Task Force.
- Dr. Rami Abielmona, Senior Member IEEE has been appointed as Chair and Dr. Slawo Wesolkowski, Senior Member IEEE as Vice Chair of ISATC Security, Surveillance and Defence Applications Task Force.
- Dr. Branislav Djokic, Senior Member IEEE is appointed as the Chair of Emerging Technologies Coordinating Committee of the 2011 PES Technical Council.
- Mr. Raed Abdullah has been appointed as Secretary for IEEE Canada.
- Dr. Wahab Almuhtadi has been elected unopposed as Eastern Area Chair for a third one year term.

Committee Reports

Annual General Meeting (AGM) Planning Committee

Chair: Sreeraman Rajan

Under the theme "ImagEn-EEring," based on Arthur C. Clarke's quote "Any sufficiently advanced technology is indistinguishable from magic," a full house of over 160 enjoyed a night of entertainment, awards, and IEEE Ottawa Section business on Friday, Nov. 5, 2010, at the Hampton Inn Conference Centre.

Keynote speaker Francis MacDougall, CTO of GestureTek Inc., kept people mesmerized with how his company's product is revolutionizing the consumer market with motion recognition in business, medicine, and games plus the entertainment and marketing world.

Toronto Magician Andy Blau, aka. "Zoltan the Adequate," kept the buz at the reception with close-up magic and capped the banquet part of the night swallowing a balloon, and doing more unbelievable magic geared to our smart audience!

Corporate award winners were:

- Research in Motion (RIM) for successfully leading in designing, manufacturing and marketing of innovative wireless solutions for the mobile communications market. Receiving on their behalf was Claude Royer, Director, Advanced Technology.
- Bridgewater Systems for successfully leading in mobile personalization that enables service providers to efficiently manage and profit from mobile data services, content and commerce. Receiving on their behalf was Gary Knee, Senior Vice President of R&D and Operations.
- Cyrium Technologies Inc. for successfully leading in innovation and development of a high efficiency solar concentrator photovoltaic (CPV) cell. Receiving on their behalf was Simon Fafard, CTO.
- Energate for successfully leading in providing utility demand response and home energy management technology solutions. Receiving on their behalf was Jorge Deligiannis, CTO.
- Seprotech Systems Inc. for successfully leading in designing, engineering and manufacturing excellence in water and wastewater treatment solutions. Receiving on their behalf was Martin J. Hauschild, President & CEO.
- Biosign Technologies Inc. for its continuous support to the activities of the IEEE Ottawa Section. Receiving on their behalf was a representative of Dr. Radu Leca, CEO.

2010 Awards were also presented as follows:

- The IEEE Canadian Foundation presented a Women In Engineering Prize to Rosalyn Seeton, and a scholarship award to Mohamed Haggag (details in a previous e-newsletter issue).

- All Saints High School presented the IEEE Canadian Foundation a recognition plaque for its support of their First Robotics team.
- Outstanding Engineer Award went to Dr. Qinghan Xiao for his contributions to the area of Biometrics.
- Outstanding Service Award went to Mr. Ian Dudley for his contribution to the Ottawa Robotics Competition.
- Outstanding Chapter Award (tie) went to The Communications Society, Broadcast Technology Society & Consumer Electronics Joint Ottawa Chapter for organizing the most number of Distinguishes Lectures and promoting membership development.
- Outstanding Chapter Award (tie) went to The Engineering in Medicine and Biology Society Ottawa chapter for organizing the most number of Distinguishes Lectures and promoting membership development.
- Outstanding Affinity Award went to Women In Engineering for organizing events and promoting engineering profession amongst its members.
- Outstanding Committee Award went to Engineers in Transition for providing networking events and workshops to its members.
- Outstanding Student Branch Award went to The University of Ottawa for organizing the most number of member events and providing networking opportunities to its members.
- Outstanding Volunteer Award went to Raed Abdullah for his contributions through serving as the Chair of the IEEE Ottawa Section 2009-2010.

The IEEE Ottawa Section Executives for 2011 are:

- Chair: Dr. Sreeraman Rajan, IEEE SM sreeraman@ieee.org
- Vice-Chair: Dr Rami Abielmona, P.Eng. - rabiemo@ieee.org
- Treasurer: Ms Anissa Shaddy
- Secretary: Mr. Boban Petrovic
- Past Chair: Mr. Raed Abdullah, P.Eng., IEEE SM raedabdullah@ieee.org

IEEE Ottawa Section thanked Beverley Miranda of Toastmasters for being the Master of Ceremonies, the staff at Hampton Inn Conference Centre for being fabulous hosts, the staff at OCRI for help with the corporate awards nomination, plus "Sugar Mountain" <http://www.sugarmountain.ca/> and "Staples" www.staples.ca in South Keys for their kind support.

Awards Committee

Chair: Wahab Almuhtadi almuhtadi@ieee.org

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

Website: <http://ottawa.ieee.ca/awards.html>

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://ottawa.ieee.ca/awards.html>. The Award winners are announced every year at the IEEE Ottawa Section Annual General Meeting- AGM.

The winners for the 2011 IEEE Ottawa Section Awards are as follows:

Industry

Information and Communications Technologies (ICT) Award:

- Optelian has been nominated and selected for the 2011 IEEE Ottawa Section Outstanding Information and Communications Technology company award: “the design, and manufacturing of optical transport systems and providing optical performance solutions.”
- Titus has been nominated and selected for the 2011 IEEE Ottawa Section Outstanding Information Technology company award: “for successfully leading in providing software solutions for information security, compliance and SharePoint classification”

Clean Tech Award:

- Chinook MHD has been nominated and selected for the 2011 IEEE Ottawa Section Outstanding Clean Tech company award: “for successfully leading the creation, development and commercialization of new and innovative technologies for aircraft deicing.”

Clean Energy Award:

- ReDriven Power Inc. has been nominated and selected for the 2011 IEEE Ottawa Section Outstanding Clean Energy company award: “for successfully leading the design and manufacturing of modern and sleek wind power turbines to produce efficient and environmentally friendly electricity.”

Appreciation Award:

- Larus Technologies has been nominated and selected for the 2011 IEEE Ottawa Section Appreciation award: “for its continuous support of the IEEE Ottawa Section activities and the IEEE Ottawa Robotics Competition.”

Individuals

Outstanding Engineer Award:

- Dr. Tony Ponsford for his scientific contributions in the development and advancement of High Frequency Surface Wave Radar and Maritime Domain Awareness.

Outstanding Engineering Educator Award:

- Dr. Adrian Chan for his dedication to student success and his outstanding contributions to engineering education.

Outstanding Volunteer Award:

- Dr. Qiubo Ye for his contributions through service as the Chair of the IEEE Ottawa AP/MTT joint chapter since 2005.

IEEE Ottawa Section Groups

Outstanding Chapter Award:

- Photonics Society Chapter for organizing technical meetings and conferences and promoting membership development.

Outstanding Student Branch Award:

- The Carleton University Student Branch for organizing the most number of events and for providing networking opportunities for its members.

Outstanding Committee Award:

- Communications and Publications for significantly improving the Section website and for timely communications.

Bylaws Committee

Chair: Branislav Djokic branislav@ieee.org, Kexing Liu kexing.liu@ieee.org

The document was reviewed and no changes were necessary.

Communications / Publications (CPC) Committee

Chair: Ahmad Abdo aabdo@ieee.org

Vice Chair: Bradford Stimpson brad.stimpson@gmail.com

Newsletter: Twelve newsletters were edited and distributed.

Website: Up to May 2011, the old section html based website was updated and maintained to reflect requested changes. As per the first of May 2011, the new WordPress based website was launched. The later was a result of collaborative work by a group of volunteers from University of Ottawa IEEE student branch and feedback from Section' executives. A total of eight meetings were held to discuss the specifications of the skin and the needed functionality. The new features of the website are helping to better present the section events.

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.

LinkedIn: was maintained and updated regularly.

Virtual Community: was maintained and updated regularly.

Educational Activities (EA) Committee

Chair: Branislav Djokic branislav@ieee.org

1. Nuclear Power Plant Incident in Fukushima, Japan Events and Implications - a Canadian Perspective / Fred Boyd, FEIC, Canadian Nuclear Society
Date: September 23, 2011
Description: Seminar held jointly with PES, and RS
12 IEEE members and 21 guests
2. **Why Instrumentation & Measurement is Needed/Critical in Underground Construction and What Issues/Challenges it Faces**
Speaker: Dr. Mike Gard, Charles Machine Works, Perry, Oklahoma
Date: September 15, 2011
Description: Seminar held jointly with PES, and RS
6 IEEE members and 18 guests
3. **Workshop on Adverse Response Monitoring**
Date: December 16 and 17th, 2011
Description: Workshop held jointly with EMBS

Engineers-in-Transition (EiT) Committee

Chair: Emily Chen Emily.hao.chen@ieee.org

Vice Chair, External Affairs: Thamelene Davarajah thamelene.davarajah@ieee.org

Vice Chair, Internal Affairs: Bruce Yu Bruce.yu@ieee.org

Director: Arumika Jerome arumika_jerome@yahoo.ca

1. *"Own Your Career Workshops - How to Land a Job"*
Date: Saturday, November 6, 2010. Refreshments: 9:30am-10am; Seminar: 10am-12:30pm
Location: Algonquin College, Building T, room T129. 1385 Woodroffe Ave, Ottawa.

34 IEEE Ottawa professional and student members attended.

2. **EiT Team Meeting**

Date: December 20, 2010

Description: Planning meeting

4 EiT Executives

3. **EiT Team Meeting**

Date: January 25, 2011

Description: Seminar planning meeting

4 EiT Executives

4. **Beyond Engineering - Non-traditional Career Paths**

Date: 6 pm - 8:30 pm, Wednesday, 16th of February 2011 (registration starting at 5:30 pm)

Location: Algonquin College, Building P, room P303. 1385 Woodroffe Ave, Ottawa.

36 members and guests attended.

5. **EiT Team Meeting**

Date: May 6th, 2011

Description: Planning meeting

3 EiT Executives

Humanitarian Initiatives Committee (HIC)

Chair: Alfredo Herrera alfredo.herrera@ieee.org

1. **Large-Scale Industrial Software Systems: Research Opportunities and Challenges**

Speaker: Dr. Srini Ramaswamy

Date: Thursday October 20, 2011

Time: Registration and Networking: 06:00 p.m.; Seminar: 06:30 p.m. – 07:30 p.m

Location: Algonquin College, Room T129, T-Building, 1385 Woodroffe Ave., Ottawa, Ontario, Canada

2. **The Intersection of Technology and Medicine: Personal Healthcare in the 21st Century**

Speaker: Dr. Donna Hudson, 2011 IEEE Vice President, Technical Activities, Professor, University of California San Francisco

Date: October 27, 2011

Time: 18:00 - 19:30

Location: MC2014 (Minto Centre), Carleton University

Membership Development (MD) Committee

Chair: Shatha Hamoud shatha@rogers.com

Vice Chair: Md Islam tanjir@ieee.org

Activity Type (Tech Meeting, Workshop,	Title/Speaker or Workshop Name	Attendance IEEE Society/ IEEE/Total	Joint Activity Sponsors
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DL, etc)			
Membership Recruitment & Retention	AGM, Nov 5, 2010	200 - IEEE members and prospective members	IEEE Ottawa Section
Membership Benefit	IEEE Globecom 2010 workshop, Nov 11, 2010)	0 - IEEE Members who were subsidized to attend the presentation training in Montreal	Communications Society
IEEE Awareness	STEP-UP Nov. 9, 2010	400 – Grade 11 (and a few Gr.10) students, teacher representative, and guidance counselors	IEEE Ottawa Section, HIC, Student Branches, TISP Engineering Institute of Canada, Canadian Society of Senior Engineers Algonquin College, La Cité collégiale, Carleton University, University of Ottawa OCRI, Canada Science and Technology Museum, Macadamian, Genband, DND, Tony Ponsford, Arise, CCTT, All Saints Robotics Team, Xpertek Construction
Membership Development	SPAC event March 10, 2011		IEEE Ottawa Section, GOLD, Student Branches
Membership Development	Education Day, March 20, 2011	TISP	IEEE Ottawa Section
Membership Development	Research Day at Algonquin, April 15, 2011	500- IEEE MDC and other IEEE members. Algonquin IEEE Student branch and other students from Algonquin	IEEE Ottawa Section
IEEE Awareness	Ottawa University event (Hugh) April 19, 2011		IEEE Ottawa Section
IEEE Awareness @ Workshop	Design Tomorrow's World May 26, 2011	Carleton University	
IEEE Awareness @ Competition	Ottawa Robotics Competition June 4 th , 2011		IEEE Ottawa Section, ORCC
Membership Development @ Career event	National Career Event Oct 27 th , 2011	It is a future event. MDC booth will be presented and volunteers from MDC and other students	IEEE Ottawa Section

		branches.	
Administrative Meeting	Monthly IEEE MD Webcast	Participated and learned from MD webcasts that include updates about other regional MD activities and membership statistics	IEEE Ottawa Section MDC
Membership Development & Promotion	Giveaways	Ordered three different items to give away as reward and promotional items during events like the AGM, STEP-UP and Christmas gathering	IEEE Ottawa Section MDC
Membership Development	MD kit for events and meetings	Ordered MD kit for 2011 last year and ordered for 2012 in October this year.	IEEE Ottawa Section MDC
Membership Benefits	Air Canada Travel Group Discounts	When IEEE conference and other grand meeting activities happen, we've offered group discounts so everyone benefits from reduced fares of 10% for national and 20% for international fares. From 10 to 20 people took advantage of an opportunity to: Tokyo Japan; Toronto, Ontario; San Francisco, California.	
Membership Benefits	thePersonal Home and Auto Insurance Professional Liability Insurance GoodLife Fitness	Promoted the benefits provided by IEEE and those gained through its role with the Engineering Institute of Canada	

- Leverage the IEEE and non-IEEE activities to bring awareness of IEEE and benefits of membership.
- Leverage the activities of IEEE to benefit the rest of the membership.
- IEEE Ottawa Section's booth was displayed at more activities than in past years. Membership retention was more effective this year

Membership Development Report

Expected Role: The Vice Chair of Membership Development team was supposed to provide assistance to the Chair to full fill his/her duties, set goals and assist other members in the committee by providing information to pursue success in gaining members.

My Role: As the Vice Chair of Membership Development, I was collecting membership information on regular basis. I presented two presentations during the regular monthly meetings with membership demographics, information related to individual societies, member distribution based on grade level, gender, and location. I have worked closely with the officers by providing data related to members they needed for different purposes. In order to reach out to more members, I helped to setup Membership Development booth few times. As of goals for this role, I have tried my best to reach them all and I believe that I was successful.

Current Grade Stats:

IEEE Current Grade Description	Count of Members
Affiliate	76
Associate Member	58
Fellow	19
Graduate Student Member	135
Life Fellow	16
Life Member	114
Life Senior	38
Member	1305
Senior Member	210
Student Member	111

Total: 2082

Nominations and Appointments

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

Ottawa Robotics Competition (ORC) Committee

Chair: Rob Woolley rcwoolley@ieee.org

Website: <http://orc.ottawa.ieee.ca/>

The Ottawa Robot Competition aims at bringing engineering awareness to students in grades five (5) to 12 by presenting a fun and instructive approach to problem solving. Using LEGO® MINDSTORMS NXT® kits, the students have around 8 weeks to design and build an autonomous robot in teams of two to five. They learn engineering concepts with the help of a mentor 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 the date of the competition.

The year 2011 marked the 9th Annual IEEE Ottawa Robotics Competition. It has grown from four (4) teams to 35 teams from 24 different schools. This accounts for over 200 students. The main date was June 4th and took place at Longfields Davidson-Heights Secondary School.

- Student Workshop #1 – Wednesday, April 27th, 2011 – 80 guests
- Student Workshop #2 – Wednesday, May 11th, 2011 – 80 guests
- Mentor Workshop - Wednesday, May 4th – 4 guests
- Student Workshop #3 – Wednesday, May 25, 2011 – 80 guests
- Volunteer Workshop - Thursday, June 2nd – 8 guests
- Ottawa Robotics Competition – June 4th, 2011 – 300 to 500 guests

Senior Membership Committee

- Chair: Dr. Sreeraman Rajan
Vice Chair: Dr. Chen Wu

The Section had 27 Senior Member elevations from November 2010 to September 2011. The following Ottawa Section Members were elevated to senior grade.

November 2010	Abu-Hakima	Suhayya
	Alawieh	Basel
	Bronson	James
	Clenet	Michel
	Green	James
	Grigg	Kenneth
	Jin	Qu
January 2011	Abdullah	Bashar
February 2011	Amaya	Rony
	Boudreau	Gary
	Bourassa	Michel
	Davis	Janet
	Haroun	Ibrahim
	Liao	Bruce
	Mao	Jian
	Royer	Claude
	Touzi	Ridha
March 2011	Mihailov	Stephen J.
	Sunter	Stephen
April 2011	Shen	Linping
June 2011	Tang	Helen
	Zeng	Qingsheng
	Zhao	Yiqiang

August 2011	Abielmona	Rami
	Gagnon	Nicolas
	Schwartz	Howard
September 2011	Kunz	Thomas

Teacher In-Service Program (TISP) Committee

Chair: Janet Davis janet.davis@ieee.org

- Joint TISP and All Saints Robotics Display at Museum of Science and Tech - Engineering Month Activity March 20, 2011
- Mini TISP workshop for teachers as part of the Museum of Science and Tech's Summer Institute for Elementary Teachers – July 20, 2011 – hosted 25 teachers from across Canada
- NSTW Events Planned
- Supplied speakers for the Museum's high school talks program
- Brad Wallace and Professor Oakham
- Joint TISP and All Saints Robotics Display at Museum of Science and Tech - NSTW – Oct 22, 2011
- Hosting Grade 8 Science and Tech Day at All Saints High School during NSTW – Oct 19, 2011
Teaching the Ferris Wheel lesson plan from Tryengineering.org to 222 students

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 Type (Tech Meeting, Workshop, DL, etc)	Title/Speaker or Workshop Name	Attendance IEEE Society/ IEEE/Total	Joint Activity Sponsors
Technical Meeting	“Arctic on a desktop” Date: 20th January 2011 Speakers: Steve Shelton & Tim Raglin, Raytheon Co, USA Description: Personal Accounts of Arctic Monitoring & Prediction during the 2010 "Nanook" Naval Exercise – two presentations. Unleashing the Power of “Picocells” Date: 9th February 2011 Speaker: Stephen Rayment, BelAir Networks Description: A new deployment model is described for outdoor metropolitan picocells that overcomes the traditional barriers of small cell deployments. A joint meeting with VTS Ottawa		
	“A Double presentation on Space Débris” Date: 10th May, 2011 Speaker: Brad Wallace, DRDC, Ottawa Description: #1 - Space Junk: What it is and why it matters #2 - Surveillance of space: Canadian Contributions to keep space safe A joint meeting with VTS Ottawa		

The Chapter ran three meetings, all well attended. Tony Ponsford, the Chapter Vice Chair is heading up a group to run the AESS Radar Conference in Ottawa in 2013. 29 April – 03 May, at the Ottawa Convention Centre, with the Theme “The Arctic – The New Frontier”. The Ottawa Chapter is supporting this activity in various ways. - <http://www.ieeeradarcon13.org/>

The Chapter chair attended, as an IEEE Ottawa Section representative, an **Experiential Learning Event at University of Ottawa**, 20th April 2010 – an activity designed to offer opportunities to selected underprivileged students at some Ottawa Schools; Al Law was the keynote speaker.

For the same 2009-10 reporting period, there were three meetings and a field trip. For 2012 we plan a similar activity with perhaps a Distinguished Lecturer and a Field trip. No members were elevated to Senior Member grade.

AP/MTT – Microwaves/Antennas/Propagation Society

Chair: Qiubo Ye qiubo.ye@crc.gc.ca

Vice Chair: Kin Sze (Jan. – Mar.), Ali Kabiri (Apr. – Aug.), Qingsheng Zeng (Sept.-)

Secretary: Thamelennee Daravajah

Website: http://www.ottawa.ieee.ca/ap_mtt/home/

Activity Type (Tech Meeting, Workshop, DL, etc)	Title/Speaker or Workshop Name	Attendance IEEE Society/ IEEE/Total	Joint Activity Sponsors
1. Tech Meeting Date: 01/06/2011	Photonic Generation and Processing of Microwave Arbitrary Waveforms/Chao Wang	IEEE/Total 11/18	
2. Administrative Meeting Date: 01/06/2011	Secretary election Thamelennee Daravajah was elected	AP/MTT 8	
3.DL Date: 03/03/2011	Green Power and the Modern Grid/ Jerry Ramie	IEEE/Total 15/23	EMC, PES
4. DL Seminar Date: 03/25/2011	Cross-Layer Design of Smart Antenna Systems/Nicholas Buris	IEEE/Total <u>14/20</u>	CPMT, EMC, CAS/EDS/SSC, and the Department of Electronics, Carleton U
5. DL Seminar Date: 03/25/2011	Electromagnetic Design for Wireless Applications and Multidisciplinary Optimization /Nicholas Buris	IEEE/Total <u>14/20</u>	Ottawa CPMT, EMC, CAS/EDS/SSC, and the Department of Electronics, Carleton U
6. Administrative Meeting Date: 03/25/2011	Vice Chair election Ali Kabiri was elected	AP/MTT 2	
7.Tech Meeting Date:04/28/2011	Metamaterials: Limitation, Synthesis and possibilities/Ali Kabiri	<u>IEEE/Total</u> <u>6/15</u>	EMC
8. Tech Meeting Date: 05/17/2011	Silicon Nanowires: Building blocks for nanophotonics /Simarjeet S. Saini	<u>IEEE/Total</u> <u>7/18</u>	
9.DL Seminar Date: 05/26/2011	What Causes Radiation?/ Omar Ramahi	<u>IEEE/Total</u> <u>8/18</u>	EMC
10.DL Seminar	MICROWAVE NEAR-FIELD IMAGING	<u>IEEE/Total</u>	

Date: 05/31/2011	OF HUMAN TISSUE: HOPES, CHALLENGES, OUTLOOK /Natalia K. Nikolova	<u>10/13</u>	
11. Tech Meeting Date: 06/07/2011	Mobile Telecommunication Systems in China, present and future/Jianwu Zhang	<u>IEEE/Total</u> <u>4/5</u>	CPMT and the Department of Electronics, Carleton U
12. DL Seminar Date: 07/25/2011	Multiport Interferometer Techniques for Transceiver System Applications /Ke Wu	<u>IEEE/Total</u> <u>17/23</u>	CPMT, CAS/EDS/SSC and the Department of Electronics, Carleton U
13. Tech Meeting Date: 09/12/2011	Monitoring-Based Key Revocation Schemes for Mobile Ad Hoc Networks/Guang Gong	<u>IEEE/Total</u> <u>12/25</u>	ComSoc/BTS/CES, SP/OE/GRS, LEOS, and CS
14. Tech Meeting Date: 09/12/2011	Waveguide (Fiber)-based Ultrafast All-optical Signal Processors for Applications in Computing, Telecommunication and Measurement / José Azaña	<u>IEEE/Total</u> <u>12/25</u>	ComSoc/BTS/CES, SP/OE/GRS, LEOS, and CS
15. DL Seminar Date: 09/14/2011	Miniaturization of Ultra-wideband Antennas/Zhi Ning Chen	<u>IEEE/Total</u> <u>10/12</u>	EMC
16. Tech Meeting Date: 09/16/2011	Time Domain Adjoint Sensitivities and their Applications: State of the Art by Dr. Prof. Mohamed H. Bakr	<u>IEEE/Total</u> <u>6/8</u>	ComSoc/BTS/CES, SP/OE/GRS, and LEOS
17. Administrative Meeting Date: 09/16/2011	Vice Chair election Qingsheng Zeng was elected	<u>AP/MTT</u> <u>1/1</u>	

- Applied for funding from AP-S and MTT-S (total \$1,400.00) to support more activities;
- Constantly looked for new blood to join the leadership team to organize more activities.
- Co-organized activities with other chapters and local universities to attract more audience and service more members.
- Invited qualified speakers to provide high level presentations: there are seven DL presentations.

Awards and/or Recognitions

1. The MTT-S Education Committee has selected UOttawa Ph.D. student, Wangzhe Li, to receive an MTT-S Graduate Fellowship for 2011. The award consists of a check for \$6,000 and a certificate of recognition from the society and will be presented at a special Student Awards Luncheon held during the IMS2011 (June 6-9). Wangzhe is an MTT member

2. 20th IEEE international Conference on Electrical Performance of Electronic Packaging and Systems (Oct. 23-26, 2011, San Jose, CA) and one of the General Co-Chairs of this conference, Ram Achar, is Ottawa MTT member.

3. Ottawa AP/MTT joint chapter chair, Qiubo Ye, was invited to be the Conference Chair for the IASTED International Conference on Wireless Communications, Jun 1-3, 2011, Vancouver, BC. He was awarded Certificate of Participation as Conference Chair from IASTED.

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

Chair: Moufid Harb mharb@ieee.org

Vice Chair: Nizar Sakr nizar.sakr2@gmail.com

Vice Chair: Julio Valdes, julio.valdes@nrc-cnrc.gc.ca

Webmaster: Rami Abielmona, rabiemo@ieee.org

Activity Type (Tech Meeting, Workshop, DL, etc)	Title/Speaker or Workshop Name	Attendance IEEE Society/ IEEE/Total	Joint Activity Sponsors	Date
DL by Prof. James Bezdek	Anomaly Detection in Wireless Sensor Networks: Visual Assessment and Clustering in Environmental Monitoring Networks	IEEE/Total	IEEE CI Society and IEEE Ottawa CI&SMC chapter	November 23th , 2011 : 9:30 am- 11:30am
Tech Meeting (Oct 20, 2011)	Large-Scale Industrial Software Systems: Research Opportunities and Challenges	11	ComSoc/BTS/CES, CI, EMBS, SMC	Tech Meeting (Oct 20, 2011)
Technical Talk by Dr. Erik Blash	Multi-Sensor Fusion Performance Assessment	IEEE CI Chapter, IEEE Ottawa Section	IEEE Ottawa CI&SMC chapter	September 27th, 2011
Webinar by Dr. Emilio Miguelanez Martin	Semantic knowledge-based framework to improve the situation awareness of autonomous underwater vehicles	IEEE/Total	IEEE UK and Republic of Ireland CIS Chapter , IEEE Ottawa CIS Chapter , IEEE Toronto Signals & Computational Intelligence Chapter , IEEE CIS Society	June 14th, 2011
Webinar by Dr. Jerry Mendel	Signal Fusion Using Novel Weighted Averages	IEEE/Total	IEEE Ottawa CIS Chapter , IEEE Toronto Signals & Computational Intelligence Chapter , IEEE CIS Society	May 18th, 2011
Webinar by Hani Hagrass	Type-2 Fuzzy Logic Controllers: A way Forward for Fuzzy Systems in Real World Environments	IEEE/Total	IEEE UK and Republic of Ireland CIS Chapter , IEEE Ottawa CIS Chapter , IEEE Toronto Signals & Computational Intelligence Chapter , IEEE CIS Society	April 26th, 2011

CompSoc – Computer SocietyChair: Rami Abielmona, rabiemo@ieee.org

Vice Chair: Ricardo Villalobos

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

Activity Type (Tech Meeting, Workshop, DL, etc)	Title/Speaker or Workshop Name	Attendance IEEE Society/ IEEE/Total	Joint Activity Sponsors
Technical meeting held on April 4, 2011	“Towards a New Science of Cloud Computing” by Shrisha Rao, Ph.D., Distinguished Professor, International Institute of Information Technology, Bangalore, India	<u>20/0/20</u>	None
Technical meeting held on May 10, 2011	“Foolproof Protection of Critical Credentials and Transactions from PC and Server Resident Malware” by Jim McAlear, Software Developer at the Department of National Defence, Canada.	<u>6/2/8</u>	None
Technical meeting held on September 12, 2011	“Monitoring-Based Key Revocation Schemes for Mobile Ad Hoc Networks” by Dr. Prof. Guang Gong at the Department of Electrical and Computer Engineering University of Waterloo, Waterloo, Ontario, Canada	<u>12/13/25</u>	IEEE Ottawa ComSoc / BTS / CES Joint Chapter, IEEE Ottawa SP / OE / GRS Joint Chapter, AP / MTT Joint Chapter, IEEE Ottawa PHO Chapter, and IEEE Ottawa Section (OS)
Technical meeting held on September 12, 2011	“Waveguide (Fiber)-based Ultrafast All-optical Signal Processors for Apps in Computing, Telecom & Measurement” by Dr. Prof. José Azaña at the Institut National de la Recherche Scientifique - Centre Energie, Matériaux et Télécommunications (INRS-EMT) University of Québec, Montréal, Québec, Canada	<u>12/13/25</u>	IEEE Ottawa ComSoc / BTS / CES Joint Chapter, IEEE Ottawa SP / OE / GRS Joint Chapter, AP / MTT Joint Chapter, IEEE Ottawa PHO Chapter, and IEEE Ottawa Section (OS)

ComSoc, BTS, & CES- Joint Chapter of Communications Society, Broadcast Technology Society and Consumer Electronics SocietyChair: Wahab Almuhtadi , almuhtadi@ieee.orgVice Chair: Claude Brulé, B.Eng., MSc, CD, brulec@algonquincollege.comSecretary: Tony Khoury, P Eng, MSc, tkhoury@ieee.orgMembership Development: Scott Barkley, scott.barkley@sympatico.ca

*2011 IEEE Ottawa ComSoc/BTS/CES Events:***1. Large-Scale Industrial Software Systems: Research Opportunities and Challenges**

Speaker: Dr. Srini Ramaswamy

Date: Thursday October 20, 2011

Time: Registration and Networking: 06:00 p.m.; Seminar: 06:30 p.m. – 07:30 p.m

Location: Algonquin College, Room T129, T-Building, 1385 Woodroffe Ave., Ottawa, Ontario, Canada

2. Autonomous Aero-Visual and Sensor Based Inspection Network for Power Grid Asset Monitoring

Speaker: Dr. Arun Somani, Iowa State University, Ames, IA, USA

Date: Thursday September 22, 2011

Time: Registration and Networking: 06:30 p.m.; Seminar: 07:00 p.m. – 08:00 p.m

3. Workshop: 1- Monitoring-Based Key Revocation Schemes for Mobile Ad Hoc Networks

Speaker: Dr. Prof. Guang Gong, Department of Electrical and Computer Engineering University of Waterloo, Ontario, Canada

Date: Monday, September 12, 2011.

Time: 12:00 pm – 2:00 pm, Seminars: 12:00 pm – 1:30 pm, Discussion, Refreshments and Networking: 1:30 pm – 2:00 pm

Location: University of Ottawa, School of Electrical Engineering and Computer Science, SITE Building, Room 5084 (Boarding Room), 800 King Edward Avenue, Ottawa, Ontario, Canada.

4. Workshop: 2- Waveguide (Fiber)-based Ultrafast All-optical Signal Processors for Applications in Computing, Telecommunication and Measurement

Speaker: Dr. Prof. José Azaña, Institut National de la Recherche Scientifique - Centre Energie, Matériaux et Télécommunications (INRS-EMT), University of Québec, Montréal, Québec, Canada

Date: Monday, September 12, 2011.

Time: 12:00 pm – 2:00 pm, Seminars: 12:00 pm – 1:30 pm, Discussion, Refreshments and Networking: 1:30 pm – 2:00 pm

Location: University of Ottawa, School of Electrical Engineering and Computer Science, SITE Building, Room 5084 (Boarding Room), 800 King Edward Avenue, Ottawa, Ontario, Canada.

5. Time Domain Adjoint Sensitivities and their Applications: State of the Art

Speaker: Dr. Prof. Bakr from the Department of Electrical and Computer Engineering, McMaster University, Hamilton, Ontario, Canada

Date: Friday September 16, 2011

Time: Registration and Networking: 10:00 a.m.; Seminar: 10:30 a.m. – 11:30 a.m.

Location: University of Ottawa, School of Electrical Engineering and Computer Science, SITE Building, Room 5084 (Boarding Room), 800 King Edward Avenue, Ottawa, Ontario, Canada

6. Geometrical Probability in Wireless Networks

Speaker: Professor Jianping Pan, University of Victoria, Victoria, BC, Canada

Date: Monday August 15, 2011/ 10:30 am – 11:20 am.

Time: Registration and Networking: 09:50 a.m.; Seminar: 10:00 a.m. – 11:20 a.m

Location: Room HP 4351, Carleton University, 1125 Colonel By Drive, Ottawa, Ontario, Canada , K1S 5B6

Organized by: IEEE Ottawa ComSoc/BTS/CES Joint Chapter, and SP/OE/GRS Joint Chapter

Co-sponsored by: IEEE Ottawa Joint Chapters of ComSoc/BTS/CES and SP/OE/GRS, School of

Mathematics and Statistics of Carleton University, and Communication Research Centre Canada

7. Communications for the Smart Grid

Speaker: Dr. Stephen Bush, Researcher at General Electric Global Research, Niskayuna, NY, USA

Date: Tuesday April 12, 2011

Time: Registration and Networking: 06:30 p.m.; Seminar: 07:00 p.m. – 08:00 p.m.

Location: Algonquin College, Room T129, T-Building, 1385 Woodroffe Ave., Ottawa, Ontario, Canada

8. Green Power and the Modern Grid

Speaker: Jerry Ramie, ARC Technical Resources Inc., San Jose, CA, USA

Date: Thursday, March 3, 2011

Time: Registration: 06:00 p.m.; Refreshments and Networking: 06:30 p.m.; Seminar: 07:00 p.m. – 08:00 p.m.

Location: FIDUS SYSTEMS Inc., 900 Morrison Drive, Suite 203, Ottawa, ON, K2H8K7

Organized by IEEE EMC Ottawa Chapter, MTT/AP Ottawa Joint Chapter, IEEE PES Ottawa Chapter, and IEEE ComSoc/BTS/CES Ottawa Joint Chapter.

2010 IEEE Ottawa ComSoc/BTS/CES Events:

1. RFID - Newly Emerging Technology and Research Areas

Speaker: Dr. Qinghan Xiao, IEEE Senior Member, a Defence Scientist, Defence R&D Canada (DRDC), Ottawa, Canada

Date: Thursday December 9, 2010

Time: Registration and Networking: 03:30 p.m.; Seminar: 04:00 p.m. – 05:00 p.m.

Location: Algonquin College, Room P210, P-Building, 1385 Woodroffe Ave., Ottawa, Ontario, Canada

2. Wireless Sensor Networks (WSN) in the Power Grid

Speaker: Dr. Melike Erol-Kantarci, School of Information Technology and Engineering, University of Ottawa, Ottawa, Ontario, Canada

Date: Monday November 22, 2010

Time: Refreshments, Registration and Networking: 06:30 p.m.; Seminar: 07:00 p.m. – 08:00 p.m.

Location: University of Ottawa, SITE, room 5084, 800 King Edward Avenue, Ottawa, Ontario, Canada

3. Networked 3-D Virtual Collaboration in Science and Education: Towards 'Web 3.0' (A Modeling Perspective)

Speaker: Prof. Michael Devetsikiotis, ComSoc Distinguished Lecturer, Electrical and Computer Engineering, North Carolina State University, Raleigh, NC

Date: Friday November 19, 2010

Time: Refreshments, Registration and Networking: 06:30 p.m.; Seminar: 07:00 p.m. – 08:00 p.m.

Location: Algonquin College, School of Advanced Technology, Building-T, Room T129 Nortel Lab, 1385 Woodroffe Ave., Ottawa, Ontario, Canada

4. Sensing and Identification in the Internet of Things Era

Speaker: Prof. Hossam Hassanein, ComSoc Distinguished Lecturer, School of Computing, Queen's University, Kingston, Canada

Date: Wednesday October 20, 2010

Time: Refreshments, Registration and Networking: 06:30 p.m.; Seminar: 07:00 p.m. – 08:00 p.m

Location: Algonquin College, School of Advanced Technology, Building-T, Room T129 Nortel Lab, 1385 Woodroffe Ave., Ottawa, Ontario, Canada

5. Based Management of Optical Networks for Next Generation Disaster Recovery Networking Solutions with WDM Systems - Cloud Computing and Security

Speaker: Mr. Andrew MacKay, Chief Technology Officer of Superna, Ottawa, Ontario, Canada

Date: Wednesday October 6, 2010

Time: Refreshments, Registration and Networking: 06:30 p.m.; Seminar: 07:00 p.m. – 08:00 p.m

Location: Algonquin College,, P-Building, Room P-215, 1385 Woodroffe Ave., Ottawa, Ontario, Canada

6. CPMT – Components, Packaging and Manufacturing Technology Society

Chair: Q.J.Zhang, giz@doe.carleton.ca

Activity Type (Tech Meeting, Workshop, DL, etc)	Title/Speaker or Workshop Name	Attendance IEEE Society/ IEEE/Total	Joint Activity Sponsors
1. DL Seminar Date: 03/25/2011	Cross-Layer Design of Smart Antenna Systems/Nicholas Buris	IEEE/Total <u>14/20</u>	AP/MTT, EMC, CAS/EDS/SSC, and the Department of Electronics, Carleton U
2. DL Seminar Date: 03/25/2011	Electromagnetic Design for Wireless Applications and Multidisciplinary Optimization /Nicholas Buris	IEEE/Total <u>14/20</u>	Ottawa AP/MTT, EMC, CAS/EDS/SSC, and the Department of Electronics, Carleton U
3. Tech Meeting Date: 06/07/2011	Mobile Telecommunication Systems in China, present and future/Jianwu Zhang	IEEE/Total <u>4/5</u>	AP/MTT and the Department of Electronics, Carleton U
4. DL Seminar Date: 07/25/2011	Multiport Interferometer Techniques for Transceiver System Applications /Ke Wu	IEEE/Total <u>17/23</u>	AP/MTT, CAS/EDS/SSC and the Department of Electronics, Carleton U

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

Chair: Mahmoud Abou-Dakka, Mahmoud.Abou-Dakka@nrc.ca

1. **Electrical insulation system of low voltage rotating machines: risks encountered when feeding by inverters ... and solutions**

Date: March 4th, 2011.

Location: Ecole de Technology superior in Montreal Quebec.

Speaker: Professor Paul Sabatier University – Toulouse, France.

2. To be Announced**Date:** Last week of November / First week of December**Speaker:** Masoud Farzaneh, Université de Quebec à Trois Rivières***EDS, CAS, & SSCS – Joint Chapter of Electron Devices Society, Circuits and Systems Society, and Solid-State Circuits Society***Chair: Ram Achar - achar@doe.carleton.caEDS Vice Chair: Ihsan Erdin - ierdin@ieee.orgSSCS Vice Chair: Sreedhar Natarajan - sn@ieee.orgWebsite: http://ottawa.ieee.ca/eds_cas_sscs/

The CASS/EDS/SSC joint chapter of Ottawa has been active in organizing and promoting the events/activities of importance to IEEE members.

EMC – Electromagnetic Compatibility SocietyChair: Syed Bokhari, bokhari@ieee.orgVice Chair: Qiubo Ye, giubo.ye@crc.ca

Activity Type (Tech Meeting, Workshop, DL, etc)	Title/Speaker or Workshop Name	Attendance IEEE Society/ IEEE/Total	Joint Activity Sponsors
DL Presentation “Photonic generation and processing of microwave arbitrary waveforms using advanced fiber bragg gratings” January 14, 2011	DR. Cao Wang	11/11/18	IEEE Ottawa AP/MTT chapter
DL Presentation “Cross-Layer Design of Smart Antenna Systems” March 25, 2011	Dr. Nicjholas. E. Buris	14/14/20	IEEE Ottawa AP/MTT chapter
DL Presentation “Green Power and the Modern Grid” March 3, 2011	Jerry Ramie	15/15/23	IEEE Ottawa AP/MTT chapter, IEEE Ottawa PES chapter
DL Presentation “What Causes Radiation” May 26, 2011	Professor Omar Ramahi	8/8/18	IEEE Ottawa AP/MTT chapter
DL Presentation “Miniaturization of Ultra-wideband Antennas” September 15, 2011	Dr, Zhi Ning Chen	6/6/8	IEEE Ottawa AP/MTT chapter

EMBS – Engineering in Medicine and Biology SocietyChair: Sreeraman Rajan, sreeraman@ieee.orgVice Chair: Dr. Yuu Ono (yuuono@sce.carleton.ca)Secretary: Dr. James Green (jrgreen@sce.carleton.ca)Webmaster: Dr. Adrian Chan (adcchan@sce.carleton.ca)Treasurer: Mr. Mohammad Elbadri (melbadri@ieee.org)

Activity Type (Tech Meeting, Workshop, DL, etc)	Title/Speaker or Workshop Name	Attendance IEEE Society/ IEEE/Total	Joint Activity Sponsors
Technical Meeting (3 Nov 2010)	Proton therapy dosimetry: a brief overview and challenges/ Dr. Gabriel O. Sawakuchi, Department of Physics, Carleton University, Canada	x/5/19	No
Workshop on Adverse Response Monitoring 2010:	Invited speakers in the frame of WARM 2010: 16 Dec 2010: 1) Catherine Campbell (Carleton University, Canada), Intravenous morphine use in a pediatric surgical ward: user needs for post-administration monitoring 2) Rajeev Yadav (Concordia University, Canada), Smart monitoring and therapeutic application of the self-adapting seizure detection system 3) Wail Gueaieb (University of Ottawa, Canada), Automatic Volume Settings for Environment Sensitive Hearing Aids 4) Emil Petriu (University of Ottawa, Canada), Biology Inspired Robotics 5) Yuu Ono (Carleton University, Canada), An ultrasonic technique for monitoring skeletal muscle activity 6) Gregor Gersak* (University of Ljubljana, Slovenia), Metrology of blood pressure monitoring 7) George Mihalas*, Past President of European Federation for Medical Informatics, Integration of "patient safety" issues in European projects on e-health 8) Rafik Goubran (Carleton University, Canada), Advanced Sensors for Patient Monitoring 9) Keat Ghee Ong (Michigan Technological University, USA), Real-time, Continuous Tracking of Performance and Adverse Effect of Biomedical Implants 10) Adrian D.C. Chan (Carleton University, Canada), A Quality Presentation - Assessing the quality and utility of biomedical data 11) W. James King (Children's Hospital of Eastern Ontario, Ottawa), Wireless, Communication Systems, Medical Devices and Electromagnetic Interference 17 Dec 2010: 1) Aimé Lay-Ekuakille* (University of	x/24/74	No

	Salento, Italy), Photoacoustic monitoring of biomedical gases in surgery room: Sensing techniques 2) Kim Fowler, President of IEEE Instrumentation and Measurement, A perspective on the Future of Instrumentation and Measurement 3) Octavian Postolache* (Instituto de Telecomunicações, Portugal), Pervasive sensing in cardiorespiratory activity assessment and motor rehabilitation 4) Radu Leca (Biosign Technologies Inc. Canada), Problems of Definition, Measurement, and Causality in Detecting Adverse Responses to Medication 5) Liam Peyton (University of Ottawa, Canada), A Model Driven Application Framework for Monitoring Applications 6) Jessica Evans (University of Ottawa Centre for Population Health Risk Assessment), Global Air Pollution Mortality Based on Satellite Imaging 7) Ralf Neurohr* (Germany), A Software environment for data monitoring and real time statistical evaluation		
Tech meeting (Jan 12, 2011)	Smart Home technology for the unobtrusive monitoring of older adults/Dr. Amaya Arcelus, Carleton Univ, Canada	x/5/22	No
Tech Meeting (Jan 19, 2011)	Charting a Course of Prediction through Uncharted Waters: Neonatal Health Informatics for our Next Generation/Dr. Carolyn McGregor, Ontario University Institute of Technology, Canada	x/8/25	No
Tech Meeting (Mar 9, 2011)	Query-based composition of chemical Semantic Web services/ Prof. Michel Dumontier, Carleton Univ	x/5/27	No
Networking/Career Event	CU@EMBS Networking Event 1) Chantal Hemens-Davis (VP, Operations, Quality & Regulatory Affairs) DNA Genotek DNA Genotek: A Ottawa Biotech Company Built from Spit 2) Dr. Edward Lemaire (Research Associate) The Ottawa Hospital Rehabilitation Centre Enhancing Mobility for People with Physical Disabilities 3) Allison Oldfield (Medical Device Evaluator) Health Canada Medical Devices Bureau: Evaluating Safety and Effectiveness 4) Geoff Green (Product Manager and Researcher) Therapeutic Monitoring Systems Continuous Multi-Organ Monitoring in the ICU 5) Adrian Blenkinsop (Research Scientist) Artenga Advancing Microbubble Technology SPECIAL GUEST INFORMATION: 1) Alain Villeneuve (Engineering Manager) Abbott Point of Care Booth Exhibitor 2) Abhishek Mohanty (Senior Engineer) Abbott Point of Care Booth Exhibitor 3) Dan Fullerton (Product Quality Manager) DNA Genotek	x/13/43	Yes. With CU EMBS Student Club

	Guest 4) Dr. Rafik Goubran (Dean, Faculty of Engineering and Design) Carleton University Special Remarks 5) Dr. Roseann O'Reilly Runte (President and Vice-Chancellor) Carleton University Guest		
Tech Meeting (May 31, 2011) DL	Microwave near-field imaging of human tissue: hopes, challenges, outlook/ Dr. Natalia K. Nikolova, McMaster University	x/10/13	AP/MTT
Tech Meeting (Sep 6, 2011)	Rubidium-82 PET: Bang-for-Buck Technology for Steering Cardiac Care/ Dr. Ran Klein, Manager, Cardiac Imaging Core Laboratory, University of Ottawa Heart Institute, Canada	x/4/28	No
Tech Meeting (Sep 29, 2011)	Development and application of bio-impedance tomography (EIT/MIT/MMT)/Dr. Yasheng Maimaitijiang, Post Doc, Carleton University, Canada		No
Tech Meeting (Oct 13, 2011)	Rehabilitation Intelligent Mobility Systems (RIMS)/Dr. Edward Lemaire, Faculty of Medicine, Univ of Ottawa, Canada		No
Tech Meeting (Oct 20, 2011)	Large-Scale Industrial Software Systems: Research Opportunities and Challenges	11	ComSoc/BT S/CES, CI, EMBS, SMC
Tech Meeting (Oct 27, 2011) DL	TBD/Dr. Donna Hudson		No

Award: 2011 EMBS Ottawa Chapter was selected by the EMBS Member & Student Activities Committee as the recipient of the 2011 EMBS Outstanding Performance Award.. Chapter also received US \$1000 honorarium from EMBS Head quarters as part of the recognition.

Notable event: Workshop on Adverse Response Monitoring 2010, Networking and Career Event jointly with Carleton University EMBS Student Club.

EMBS chapter supports the activities of Carleton Univ EMBS student club (CU@EMBS Student club). The faculty advisor for the club is Dr. Adrian Chan. This year, the chapter supported the following major activities of the club:

The 3rd annual CU@EMBS Student Mini-Conference in May. The Student Mini-Conference is an opportunity for students to prepare a research paper and presentation in a topic related to biomedical engineering, and to gain valuable feedback from an audience of student peers and faculty members. Chapter sponsored the conference.

Networking and Career event is an annual event of CU@EMBS Student Club. This event gives an opportunity for students to meet with industry and hear about industrial research.

Social events like Mix and Mingle, Pint with Professors are also supported by the chapter.

CU@EMBS Presents is another event where the club itself has brings an industrial or academic professional and holds a technical seminar followed by an informal social.

EMBS chapter also runs annual Workshop on Adverse Response Monitoring. This is an international workshop with participation from North America and Europe. International participants present remotely using skype. This activity is also supported by the local universities.

IMS – Instrumentation and Measurement Society

Chair: Voicu Groza, VGroza@ieee.org

Vice Chair: Branislav Djokic, branislav@ieee.org

Activity Type (Tech Meeting, Workshop, DL, etc)	Title/Speaker or Workshop Name	Attendance IEEE Society/ IEEE/Total	Joint Activity Sponsors	Date
Seminar	Nuclear Power Plant Incident in Fukushima, Japan Events and Implications - a Canadian Perspective / Fred Boyd, FEIC, Canadian Nuclear Society	10/12/33	PES Chapter RS Chapter, Ottawa Educational Activities	September 23, 2011
Seminar	Why Instrumentation & Measurement is Needed/Critical in Underground Construction and What Issues/Challenges it Faces/ Dr. Mike Gard, Charles Machine Works, Perry, Oklahoma	3/6/24	PES Chapter RS Chapter, Ottawa Educational Activities	September 15, 2011
Workshop	Workshop on Adverse Response Monitoring	10/15/50	EMBS Chapter	December 16- 17, 2011

Photonics Society Chapter (PH036)

Chair: Kexing Liu, lexing.liu@ieee.org

Activity Type (Tech Meeting, Workshop, DL, etc)	Title/Speaker or Workshop Name	Attendance IEEE Society/ IEEE/Total	Joint Activity Sponsors
May 17, 2011, Technical Meeting	Silicon Nanowires: Building blocks for nanophotonics -Professor Simarjeet S. Saini, University of Waterloo, Waterloo, Ontario, Canada	2/7/11	AP/MTT Ottawa Photonic Week

May 18, 2011, Technical Meeting	Silicon Photonics: A new Technology Platform to enable Low Cost and High Performance Photonics Prof. Lorenzo Pavesi, University of Trento, Trento, Italy	6/10/22	Ottawa Photonic Week
May 18 – May 20, 2011, 2011 ICO International Conference on Information Photonics	Information photonics primarily deals with the generation, transportation, process, and detection of information using photonic technology. The field encompasses theories, models, devices, systems and applications. The aim of this conference is to bring together scientists and research groups in this field from universities, industry and government laboratories globally to discuss progress and advancements in information photonics. This conference is supported and promoted by the International Commission for Optics (ICO) and is held approximately every two years internationally. IEEE Photonics Society is a technical sponsor of the conference. IEEE Photonics Society Ottawa chapter is technical sponsor and a key organizer of the conference	39/43/165	ICO, OCRI, NRC Canada, INRS, McMaster University CIPI, CMC Micro-systems, CPFA, IEEE Photonics Society, MESA +, Institute for Nanotech, Simbol Test Systems, OZ Optics
June 17, 2011 Chapter Executive Planning Meeting	Meeting attended by the chapter executive officers --Agenda-- - Report on 2011 Ottawa Photonics Week 1. International Conference OFS21 – May 15 to 20, 2011 2. Conference Photonics North –May 16 to 18, 2011 3. International Topical Meeting on Information Photonics – May 18 to 20, 2011 4. Photonics Expo (exhibition) –May 17 to 18, 2011 - Planning for chapter research student symposium - Chapter subsidy request and planning - Others	3/0/3	N/A

<i>Sept 12, 2011,</i> Technical Meeting	(1) Monitoring-Based Key Revocation Schemes for Mobile Ad Hoc Networks Prof. Guang Gong Department of Electrical and Computer Engineering University of Waterloo, Waterloo, Ontario, Canada (2) Waveguide (Fiber)-based Ultrafast All-optical Signal Processors for Applications in Computing, Telecommunication and Measurement Prof. José Azaña Institut National de la Recherche Scientifique - Centre Energie, Matériaux et Télécommunications (INRS-EMT) University of Québec, Montréal, Québec, Canada	3/12/25	ComSoc/BTS/CES, SP/OE/GRS, AP/MTT
<i>Sept 16, 2011,</i> Technical Meeting	Time Domain Adjoint Sensitivities and their Applications: State of the Art Prof. Mohamed H. Bakr Department of Electrical and Computer Engineering McMaster University, Hamilton, Ontario, Canada	1/6/8	ComSoc/BTS/CES, SP/OE/GRS, AP/MTT

PHO36 Ottawa chapter and the chapter chair worked with NRC organized the 2011 ICO International Conference on Information Photonics (May 18 – May 20, 2011) <http://ip2011.org/>

Information photonics primarily deals with the generation, transportation, process, and detection of information using photonic technology. The field encompasses theories, models, devices, systems and applications. The aim of this conference is to bring together scientists and research groups in this field from universities, industry and government laboratories globally to discuss progress and advancements in information photonics. This conference is supported and promoted by the International Commission for Optics (ICO) and is held approximately every two years internationally. IEEE Photonics Society is a technical sponsor of the conference. IEEE Photonics Society Ottawa chapter is technical sponsor and a key organizer of the conference.

Of the 165 registered attendees of the conference, majority was from outside North America. Close to 25% of the attendees were IEEE PHO society members. The conference was a huge success. It was a first of such conference ever held in Canada.

PES – Power and Energy Society

Chair: Wahab Almuhtadi, almuhtadi@ieee.org

Vice Chair: Branislav Djokic, P Eng, branislav@ieee.org

Secretary: Carl Kropp, P Eng, kroppcarl@aol.com

Treasurer: Raed Abdullah, P Eng, raedabdullah@ieee.org

Webmaster: Wahab Almuhtadi, P Eng, almuhtadi@ieee.org

2011 IEEE Ottawa PES Events:

1. Autonomous Aero-Visual and Sensor Based Inspection Network for Power Grid Asset Monitoring

Speaker: Dr. Arun Somani, Iowa State University, Ames, IA, USA

Date: Thursday September 22, 2011

Time: Registration and Networking: 06:30 p.m.; Seminar: 07:00 p.m. – 08:00 p.m

Location: Algonquin College, Room T129, T-Building, 1385 Woodroffe Ave., Ottawa, Ontario, Canada

2. Nuclear Power Plant Incident in Fukushima, Japan - Events and Implications - a Canadian Perspective

Speaker: Fred Boyd, Canadian Nuclear Society, Canada

Date: Friday, September 23, 2011

Time: Registration, Refreshments and Networking: 06:30 p.m.; Seminar: 07:00 p.m. – 08:15 p.m.

Location: Algonquin College, Room B156, B-Building, 1385 Woodroffe Ave., Ottawa, Ontario, Canada

Organized by: IEEE Ottawa PES, and RS Chapters, Ottawa Educational Activities, and IEEE Algonquin College Student Branch.

3. Why Instrumentation & Measurement is Needed/Critical in Underground Construction and What Issues/Challenges it Faces

Speaker: Dr. Mike Gard, Charles Machine Works, Perry, Oklahoma

Date: September 15, 2011

Time: Registration, Refreshments and Networking: 06:30 p.m.; Seminar: 07:00 p.m. – 08:15 p.m.

Location: Algonquin College, Room B156, B-Building, 1385 Woodroffe Ave., Ottawa, Ontario, Canada

Description: Seminar held jointly with PES, and RS
6 IEEE members and 18 guests

4. Communications for the Smart Grid

Speaker: Dr. Stephen Bush, Researcher at General Electric Global Research, Niskayuna, NY, USA

Date: Tuesday April 12, 2011

Time: Registration and Networking: 06:30 p.m.; Seminar: 07:00 p.m. – 08:00 p.m

Location: Algonquin College, Room T129, T-Building, 1385 Woodroffe Ave., Ottawa, Ontario, Canada

5. Green Power and the Modern Grid

Speaker: Jerry Ramie, ARC Technical Resources Inc., San Jose, CA , USA

Date: Thursday, March 3, 2011

Time: Registration: 06:00 p.m; Refreshments and Networking: 06:30 p.m.; Seminar: 07:00 p.m. – 08:00 p.m.

Location: FIDUS SYSTEMS Inc., 900 Morrison Drive, Suite 203, Ottawa, ON, K2H8K7

Organized by IEEE EMC Ottawa Chapter, MTT/AP Ottawa Joint Chapter, IEEE PES Ottawa Chapter, and IEEE ComSoc/BTS/CES Ottawa Joint Chapter.

*2010 IEEE Ottawa PES Events:***1. Wireless Sensor Networks (WSN) in the Power Grid**

Speaker: Dr. Melike Erol-Kantarci, School of Information Technology and Engineering, University of Ottawa, Ottawa, Ontario, Canada

Date: Monday November 22, 2010

Time: Refreshments, Registration and Networking: 06:30 p.m.; Seminar: 07:00 p.m. – 08:00 p.m.

Location: University of Ottawa, SITE, room 5084, 800 King Edward Avenue, Ottawa, Ontario, Canada

2. AC Current Measurements The Applications, Design, and Calibrations of Rogowski Coils

Speaker: Dr. Branislav Djokic, P. Eng., Institute for National Measurement Standards, NRC, Ottawa, Ontario, Canada

Date: Thursday, October 21, 2010

Time: Refreshments, Registration and Networking: 06:30 p.m.; Seminar: 07:00 p.m. – 08:00 p.m.

Location: Algonquin College, 1385 Woodroffe Ave., School of Advanced Technology, T-Building, Room T334.

Organized by: IEEE Ottawa Section, IMS Chapter, PES Chapter, Reliability Chapter, IEEE Ottawa Section, and Algonquin College Student Branch.

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

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

Activity Type (Tech Meeting, Workshop, DL, etc)	Title/Speaker or Workshop Name	Attendance IEEE Society/ IEEE/Total	Joint Activity Sponsors
Technical Meeting	Flying Robot Control/ Prof. K. Sybilski/ Technical University of Wroclaw	80 Total	Carleton University
Technical Meeting	Navigation of Mobile Robots/ Dr. Yi Lu/ Frontline Robotics, Ltd	25 Total	
Technical Meeting	Advanced Methods in Blood Pressure Sensors/Dr. K. Tomczuk/Wroclaw University of Technology	60 Total	Carleton University
Technical Meeting	Space Robots	12 Total	

Notable events: (1) Inventions Fair organized by PREACARN April, 2011 (2) Workshop on “Space Robotics” , 3-5 June 2011

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

Chair: Raed Abdullah, P Eng, IEEE SM, raedabdullah@ieee.org

Vice Chair: Dr Kasim Rashid

Activity Type (Tech Meeting, Workshop, DL, etc)	Title/Speaker or Workshop Name	Attendance IEEE Society/ IEEE/Total	Joint Activity Sponsors
Technical	Nuclear Power Plant Incident in Fukushima, Japan - Events and Implications - a Canadian Perspective	11 Members 22 Prospective Members	PES, IMS, RS, E Activities, Algonquin SB
Technical	Why Instrumentation & Measurement is Critical in Underground Construction and What Challenges it Faces	18 Members 06 Prospective Members	IMS, PES, RS, E Activities, Algonquin SB

Struggled in Oct. 2010-Oct. 2011 with other local, regional and world level within IEEE. Also, the vice-chair reliability had to step down.

Awards: 2010 Reliability Society award for being an active chapter

The chair of the joint chapter participated with many committees, affinities and student branches.

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

Activity Type (Tech Meeting, Workshop, DL, etc)	Title/Speaker or Workshop Name	Attendance IEEE Society/ IEEE/Total	Joint Activity Sponsors
workshop	The First Canadian Tracking and Fusion Group Workshop, Communications Research Centre Canada	<u>5/20/45</u>	Defence R&D Canada

Technical Seminar	Cross-Layer Design for Quality of Service Provisioning in Wireless Networks/Pro. R. Yu, Carleton University	<u>10/20/40</u>	
Technical Seminar	Geometrical Probability in Wireless Networks/Prof. J. Pan, University of Victoria	<u>10/10/21</u>	ComSoc/BTS/CES School of Mathematics and Statistics of Carleton University Communications Research Centre
Technical Seminar	Talks on MANET Security and All-optical Signal Processing/ Prof. G. Gong, University of Waterloo, and Prof. Jose Azana, University of Quebec	<u>13/13/25</u>	ComSoc/BTS/CES AP/MTT LEOS OS

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

Chair: Jean Couillard, couillard@management.uottawa.ca

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

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

1. Large-Scale Industrial Software Systems: Research Opportunities and Challenges

Speaker: Dr. Srinivas Ramaswamy

Date: Thursday October 20, 2011

Time: Registration and Networking: 06:00 p.m.; Seminar: 06:30 p.m. – 07:30 p.m

Location: [Algonquin College](#), Room T129, T-Building, 1385 Woodroffe Ave., Ottawa, Ontario, Canada

Organizers: IEEE Ottawa ComSoc/BTS/CES Joint Chapter, EMBS Chapter, TM, PCS, & SSIT Joint Chapter, CI and SMC Joint Chapter, LM Affinity Group, and Algonquin College Student Branch.

VTS – Vehicular Technology Society

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

Vice Chair: Barry Pekilis, barry.pekilis@tc.gc.ca

Secretary: Bhagvat.Joshi, bjoshi@ieee.org

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

Activity Type (Tech Meeting, Workshop, DL, etc)	Title/Speaker or Workshop Name	Attendance IEEE Society/ IEEE/Total	Joint Activity Sponsors
Technical Meeting	Unleashing the Power of “Picocells” Date: 9th February 2011 Speaker: Stephen Rayment, BelAir Networks Description: A new deployment model is described for outdoor metropolitan picocells that overcomes the traditional barriers of small cell deployments. A joint meeting with AESS Ottawa		
Technical Meeting	“A Double presentation on Space Débris” Date: 10th May, 2011 Speaker: Brad Wallace, DRDC, Ottawa Description: #1 - Space Junk: What it is and why it matters #2 - Surveillance of space: Canadian Contributions to keep space safe A joint meeting with AESS Ottawa		

In June, Barry Pekilis took over as Vice Chair, from long-standing Life Member Isaac Ginsburg; also Bhagvat Joshi was elected Secretary. An all-day Chapters Workshop was held in San Francisco prior to the VTS Conference in September. Bhagvat Joshi represented Ottawa and the workshop was worthwhile. In addition to the events listed, a number of planning meetings have been held during the year.

In addition to the events shown, it is hoped that a presentation on unmanned Aero Vehicles (UAVs) can be scheduled later in 2011.

For 2012 we plan “more of the same” with perhaps one or two Distinguished Lecturers. For the same 2009-10 reporting period, there were two meetings. No members were elevated to Senior Member grade.

Affinity Groups

AICN – Alliance of IEEE Consultant Network

Chair: Bhagvat Joshi, bjoshi@ieee.org

Activity Type (Tech Meeting, Workshop, DL, etc)	Title/Speaker or Workshop Name	Attendance IEEE Society/ IEEE/Total	Joint Activity Sponsors
Workshop	Introduction to Sales Influence and Persuasion System (SIPS) – Harpreet Singh : ZoHo Consulting	20	IET

Title: Introduction to SALES INFLUENCE AND PERSUASION SYSTEM (SIPS)

Speaker(s): Harpreet Singh, founder and Principal Consultant at Zoho Consulting Inc.

Date/Time: Monday 11 July 2011 (6:30 – 9:30) : Workshop start @ 7:00 PM sharp

Description: This was a workshop led by Harpreet Singh of Zoho Consulting. All consultants have to “sell” their services to succeed. This is not something that comes naturally to many people – especially new consultants. This workshop covered areas for not only starting the dialogue with the prospect, but also really understanding what the prospect is really saying and what questions to ask.

GOLD – Graduates of the Last Decade

Past Chair: Anissa Shaddy, anissa@ieee.org

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

GOLD has held one activity thus far and is planning one more by this year-end.

1. **The Intersection of Technology and Medicine: Personal Healthcare in the 21st Century**

Speaker: Dr. Donna Hudson, 2011 IEEE Vice President, Technical Activities, Professor, University of California San Francisco

Date: October 27, 2011

Time: 18:00 - 19:30

Location: MC2014 (Minto Centre), Carleton University

LM – Life Member

Chair: Dr. David Coll, dccoll@ieee.org

Vice Chair: Mr. John Wilson, jamwilso@allstream.net

Activity Type (Tech Meeting, Workshop, DL, etc)	Title/Speaker or Workshop Name	Attendance IEEE Society/ IEEE/Total	Joint Activity Sponsors
Non Tech Meeting (15 Dec2010)	A general meeting to discuss the future of LM and its activities was undertaken	x/12/0	No
Technical Activity (20th Oct 2011)	Large Scale Industrial Software Systems: Research Opportunities and Challenges/Dr. Srin Ramaswamy, ABB India	1/10/x	Yes with EMBS, TM, PCS and SSIT Joint Chapters, CI and SMC Joint Chapters, ComSoc/BTS/CES Joint chapters/Algonquin Student Branch
Technical Activity (27th Oct 2011) DL	The Intersection of Technology and Medicine: Personal Healthcare in the 21st Century, Prof. Donna Watson, 2011 IEEE Vice President, Technical Activities Professor, University of California San Francisco, USA	Not yet happened	Yes. EMBS, TM, PCS and SSIT Joint chapters, Gold Affinity

WIE – Women in Engineering

Chair: Jieyi Rong, jieyi.rong@ieee.org

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

Activity Type (Tech Meeting, Workshop, DL, date, description etc)	Title/Speaker or Workshop Name	Attendance IEEE Society/ IEEE/Total	Joint Activity Sponsors
Kick-Off Meeting planning future activities	(same)	<u>10-15</u>	IEEE Ottawa Section

Currently looking to fill all the WIE officer roles! Please apply in order to be part of the team!

1. WIE/WISE Book Club

Date: Thursday, November 25th, 2010

Location: The Tea Party café, 1-119 York St., www.theteapartycafe.com

Theme: Women's encounters across ages

The Book Club is not a traditional one. Here, women in science and engineering, as well as supportive men, come to listen to one of the speakers present an interesting book and then have a meaningful and relaxed discussion in a cozy café.

Description: Two speakers presented books donated to the WISE library by Dr. Frize (one of them she is the author of). This was followed by an informal discussion of each book.

Speakers and Books: Shilpi Dave- "The Chalice and the Blade", Riane Eisler, Rosalyn Seeton- "The Bold and the Brave", Monique Frize,

2. WIE/WISE Book Club

Date: Friday, February 18th, 2011

Location: The Tea Party café, 1-119 York St., www.thetepartycafe.com

Theme: Shining Through

Speakers & Books: Gail Carmichael- "Unlocking the Clubhouse: Women in Computing", Jane Margolis and Allan Fisher, Lana Lodge- "Business As Unusual", Anitta Roddick

3. IEEE WIE 2nd Annual Wine & Cheese

Date: March 18th, 2011

Description: An evening of socializing and networking with students and professor from the University of Ottawa and Carleton University, and industry professionals; who study and work in the fields of electrical, computer, and software engineering, sciences, and technology. Joint event with WIE uOttawa.

Supported by the IEEE WIE Ottawa Section

4. WIE Canada Conference

Date: April 28th -May 1st, 2011

Represented WIE Ottawa at the WIE Canada Conference (the first one of its kind) and exchanged experience with other Canadian professional WIE groups.

5. WISE/WIE Picnic

Date: August 13th, 2011

Location: Britannia Park Gazebo

Description: WISE and WIE Carleton University together with their wider Ottawa counterparts came together for a potluck to network with their women in science and engineering peers. This event was designed to bring together students and professionals, as well as their family members and friends.

More at: <http://cuwise-events.blogspot.com/2011/08/wise-wie-picnic.html>

Student Branches

Algonquin College

Chair: Cameron Hunt, hunt0275@algonquinlive.com

Past Chair: Kristjan Solvason-Brown, Past Chair IEEE Algonquin College Student Branch

solv0001@algonquinlive.com

IEEE Algonquin College Student Branch Counselor (Faculty Advisor): Abdul Al-Azzawi, Ph.D., IEEE SM,

alazaa@algonquincollege.com

IEEE Algonquin College Student Branch Executive Advisor & Mentor, Wahab Almuhtadi, Ph.D., P.Eng.,

IEEE SM, almuhtadi@ieee.org

1. Large-Scale Industrial Software Systems: Research Opportunities and Challenges

Speaker: Dr. Srini Ramaswamy

Date: Thursday October 20, 2011

Time: Registration and Networking: 06:00 p.m.; Seminar: 06:30 p.m. – 07:30 p.m

Location: [Algonquin College](#), Room T129, T-Building, 1385 Woodroffe Ave., Ottawa, Ontario, Canada

Organizers: IEEE Ottawa ComSoc/BTS/CES Joint Chapter, EMBS Chapter, TM, PCS, & SSIT Joint Chapter, CI and SMC Joint Chapter, LM Affinity Group, and Algonquin College Student Branch.

2. Why Instrumentation & Measurement is Critical in Underground Construction and What Challenges it Faces

Speaker: Dr. Michael Gard, Charles Machine Works, Perry, Oklahoma, USA

Date: Thursday, September 15, 2011

Time: Registration, Refreshments and Networking: 06:30 p.m.; Seminar: 07:00 p.m. – 08:15 p.m.

Location: [Algonquin College](#), Room B156, B-Building, 1385 Woodroffe Ave., Ottawa, Ontario, Canada

Organized by: IEEE Ottawa IMS, PES, and RS Chapters, Ottawa Educational Activities, and IEEE Algonquin College Student Branch.

3. Autonomous Aero-Visual and Sensor Based Inspection Network for Asset Monitoring

Speaker: Dr. Arun Somani, Iowa State University, Ames, IA, USA

Date: Thursday September 22, 2011

Time: Registration and Networking: 06:00 p.m.; Seminar: 07:00 p.m. – 08:00 p.m

Location: Algonquin College, Room T129, T-Building, [1385 Woodroffe Ave.](#), Ottawa, Ontario, Canada

Organized by: IEEE Ottawa Communications Society, Broadcast Technology Society, and Consumer Electronics Society (ComSoc / BTS / CES) Joint Chapter, IEEE Ottawa Power Engineering Society Chapter (PES) and IEEE Algonquin College Student Branch (ACSB)

4. Nuclear Power Plant Incident in Fukushima, Japan - a Canadian Perspective **Speaker:** Fred Boyd, Canadian Nuclear Society, Canada

Date: Friday, September 23, 2011

Time: Registration, Refreshments and Networking: 06:30 p.m.; Seminar: 07:00 p.m. – 08:15 p.m.

Location: [Algonquin College](#), Room B156, B-Building, 1385 Woodroffe Ave., Ottawa, Ontario, Canada

Parking: No fee after 5 p.m. at the Parking Lots 8 & 9. Please respect restricted areas.

Admission: Free. Registration required. To ensure a seat, please register by e-mail contacting: [Branislav Djokic](#).

Organized by: IEEE Ottawa IMS, PES, and RS Chapters, Ottawa Educational Activities, and IEEE Algonquin College Student Branch.

5. ***Communications for the Smart Grid***

Speaker: Dr. Stephen Bush, Researcher at General Electric Global Research, Niskayuna, NY, USA

Date: Tuesday April 12, 2011

Time: Registration and Networking: 06:00 p.m.; Seminar: 07:00 p.m. – 08:00 p.m

Location: Algonquin College, Room T129, T-Building, [1385 Woodroffe Ave.](#), Ottawa, Ontario, Canada

Organized by: IEEE Ottawa Communications Society, Broadcast Technology Society, and Consumer Electronics Society (ComSoc / BTS / CES) Joint Chapter, IEEE Ottawa Power Engineering Society Chapter (PES) and IEEE Algonquin College Student Branch (ACSB)

6. **Eastern Ontario Student Paper Competition - 2011**

Date: Tuesday April 12, 2011, 5:00pm to 8:30pm,

Location: Queen's University, Walter Light Hall, Room-302 19 Union Street, Kingston, Ontario K7L 3N6

Organized by: IEEE Algonquin College Student Branch (ACSB), Carleton U Student Branch, UOttawa Student Branch, Queen's U Student Branch, RMC Student Branch, IEEE Ottawa Section, and IEEE Kingston Section.

Participating students came from Algonquin College, Carleton University, Royal Military College (RMC), and Queens University. Competition held at RMC.

7. **IEEE Student Professional Awareness Conference SPAC 2011**

Title: IEEE SPAC 2011

Speakers: Erin Bury, Ian Graham and Bruce Firestone

Date & Time: Thursday, March 10, 2011, 6:00 PM - 10:30 PM

Location: Fairmont Chateau Laurier, Ottawa, ON., Canada

Organized by: IEEE Carleton Student Branch, IEEE uOttawa Student Branch, and IEEE Algonquin Student Branch

8. ***Beyond Engineering Series: Non-traditional Career Paths***

Title: Non-traditional Career Paths

Speakers: Shubha Nijhawan Thomas Choi, Barbora Dej, and Alicia Liu

Date & Time: Wednesday, February 16, 2011, 6:00

(Registration and Networking: 05:30 p.m.; Seminar: 06:00 p.m. – 08:30 p.m)

Location: Algonquin College, Room P303, P-Building, [1385 Woodroffe Ave.](#), Ottawa, Ontario, Canada

Organized by: IEEE Ottawa EiT and IEEE Algonquin Student Branch

2010 Activities

1. RFID - Newly Emerging Technology and Research Areas

Speaker: Dr. Qinghan Xiao, IEEE Senior Member, a Defence Scientist, Defence R&D Canada (DRDC), Ottawa, Canada

Date: Thursday December 9, 2010

Time: Registration and Networking: 03:30 p.m.; Seminar: 04:00 p.m. – 05:00 p.m

Location: Algonquin College, Room P210, P-Building, [1385 Woodroffe Ave.](#), Ottawa, Ontario, Canada

Organized by: IEEE Ottawa Communications Society, Broadcast Technology Society, and Consumer Electronics Society (ComSoc / BTS / CES) Joint Chapter, the Algonquin College Student Branch and Department of Electronics and Electro-Mechanical Studies, Algonquin College.

2. AC Current Measurements The Applications, Design, and Calibrations of Rogowski Coils

Speaker: Dr. Branislav Djokic, P. Eng., Institute for National Measurement Standards, NRC, Ottawa, Ontario, Canada

Date: Thursday, October 21, 2010

Time: Refreshments, Registration and Networking: 06:30 p.m.; Seminar: 07:00 p.m. – 08:00 p.m.

Location: Algonquin College, [1385 Woodroffe Ave.](#), [School of Advanced Technology, T-Building](#), Room T334.

Organized by: IEEE Ottawa Section, IMS Chapter, PES Chapter, Reliability Chapter, IEEE Ottawa Section, and Algonquin College Student Branch.

Carleton University

Branch Counselor, Professor Calvin Plett, cp@doe.carleton.ca

Branch Mentor: farhad.khan@ieee.carleton.ca

Chair: Laura Mutu, laura.mutu@ieee.carleton.ca

Vice Chair: David Xu, dxu2@ieee.carleton.ca

Treasurer: Mohammed Farhan, mfarhan@connect.carleton.ca

Secretary: Mihai Mateescu, mihai.mateescu@ieee.carleton.ca

Webmaster: Abdulhak Nagy, abdulhak.nagy@ieee.carleton.ca

Officer Director: Ifunanya Ukachukwu, ifunanyaukachukwu@ieee.carleton.ca

Internal Director: Gobinath Kumarakadervan, gkumarak@ieee.carleton.ca

Marketing Director, Steve David, sdavid@connect.carleton.ca

Technical Director, Yufei Liu(Chris), chrisliu123@gmail.com

Computer Society

Faculty Advisor, Professor Trevor Pearce, trevor.pearce@sce.carleton.ca

Chair, Abhinav Shukla, Chair, abhinav.shukla@ieee.carleton.ca

Vice Chair, Ryan Chan, chan.rhc@ieee.carleton.ca

Women In Engineering

Chair: Daphne Ong, daphne.ong@ieee.carleton.caVice Chair: Alexandra Noguera, alexandra.noguera@ieee.carleton.ca

Activity Type (Tech Meeting, Workshop, DL, date, description etc)	Title/Speaker or Workshop Name	Attendance IEEE Society/ IEEE/Total	Joint Activity Sponsors
Bi-Weekly Meetings - planning and organizing activities - Sept 9th, September 22nd, October 6th	(same)	<u>10-15</u>	
Elections (a week-long in March before the AGM where students apply for positions and have interviews for their positions)		<u>15-20</u>	
AGM (March)		<u>20-30</u>	
Executives' Training (March)		<u>15</u>	
Graduating Executives' Dinner (March)		<u>15-20</u>	
Executives' Team Building (May)		<u>15-20</u>	
Printing Course Packs for students (September, January)		<u>hundreds</u>	
IEEE OS meeting – 2010 and up to Sept 8 th , Oct 6 th 2011			
IEEE Student Branch Website Competition meetings			
Beginning of year presentations – to first year graduate and undergraduate students to introduce them to IEEE			

Awards:

- 1st Prize, Regional Website Competition
- 1st Prize, Exemplary Student Branch (regional)
- 2011 EMBS Outstanding Performance Award (worldwide)
- CSES (Carleton Student Engineering Society) Best Student Group 2010-2011
- Daphne Ong - recipient of the CSES Best Student Group Head award 2010-2011
- Laxman Pradhan - recipient of Larry K. Wilson Regional Student Activities Award
- Daphne Ong - recipient of IEEE Canadian Foundation Scholarship

- Daphne Ong - IEEE Day 2010 – Photo Contest Winner (WIE Carleton)
- Mehmet Vefa Bicakci – Outstanding Student Branch Volunteer

1. **WIE/WISE Book Club**

Date: Thursday, November 25th, 2010

Location: The Tea Party café, 1-119 York St., www.theteapartycafe.com

Theme: Women's encounters across ages

The Book Club is not a traditional one. Here, women in science and engineering, as well as supportive men, come to listen to one of the speakers present an interesting book and then have a meaningful and relaxed discussion in a cozy café.

Description: Two speakers presented books donated to the WISE library by Dr. Frize (one of them she is the author of). This was followed by an informal discussion of each book.

Speakers and Books: Shilpi Dave- "The Chalice and the Blade", Riane Eisler, Rosalyn Seeton- "The Bold and the Brave", Monique Frize,

2. **WIE/WISE Book Club**

Date: Friday, February 18th, 2011

Location: The Tea Party café, 1-119 York St., www.theteapartycafe.com

Theme: Shining Through

Speakers & Books: Gail Carmichael- "Unlocking the Clubhouse: Women in Computing", Jane Margolis and Allan Fisher, Lana Lodge- "Business As Unusual", Anitta Roddick

3. **Battle Royale**

Date: November 5-6, 2010

Battle Royale is a 24 hour local area network (LAN) event involving people coming together to play various console and computer based games. The goal of the LAN event is to bring together future engineers, computer scientists, and anyone with a passion for gaming to one location where the competition is fierce and the competitors are friendly.

More details at battleroyale.ca

4. **NCWIE – National Conference on Women in Engineering**

WIE and WISE joined forces to attend the annual NCWIE conference, held at University of Ottawa in November 19-21, 2010. Daphne Ong, our WIE Chair acted as head delegate.

Description: Attendees had a chance to hear from great speakers and network with women studying engineering from across Canada. The conference celebrates the accomplishments and achievements of women in engineering, while offering speaker sessions and workshops in order to improve current conditions, and allow understanding and development for the future workforce. The conference also provides social events and networking opportunities to enhance the experience of those attending.

5. **AGM Ottawa Section**

Date: November 5th, 2010

Description: Students volunteer at the IEEE Ottawa Section AGM to help out with registration,

ushering and other duties, gaining important leadership and organizational skills and insights, as well as a great opportunity to network.

6. IEEE Xtreme 4.0 programming competition

Date: Oct 23rd, 2010

Description: IEEE Xtreme is a global challenge in which teams of IEEE student members – supported by an IEEE Student Branch, advised and proctored by an IEEE Member – compete in a 24-hour time span against each other to solve a set of programming problems.

In 2010, Carleton had two active teams in the competition and we are very appreciative of all proctors and those that helped with the event.

More details about the event at <http://www.ieee.org/xtreme>

7. Competitions Day: Analog Electronics Competition & FPGA competition

Date: November 26th, 2010

Description: Analog Electronics Competition: Students had to build on their knowledge gained in the Electronics II course to build a crossover filter. FPGA competition: Students were required to In both competitions students were judged by professors as well as professionals, and first three students received prizes.

8. FIRST Lego League

Date: December 11th, 2010

The Ottawa FIRST Lego League Competition gives elementary school students a chance to design LEGO Mindstorms robots to accomplish several tasks, while also honing their presentation skills and learning more about the different types of engineering. IEEE Carleton Students served as judges and role models to these future engineers.

9. SPAC (Student Professional Awareness Conference)

Date: March 10th, 2011

Description: SPAC is a formal dinner event that aims to bridge the gap between students and their career goals. SPAC offers students and employers a unique opportunity to network with each other in a professional environment with professionals and academics representing the field of Engineering.

For more than 5 years, IEEE SPAC has been organized by the IEEE Student Branches of Carleton University, University of Ottawa, and Algonquin College.

More details at <http://www.ieeespac.ca>

10. IEEE WIE 2nd Annual Wine & Cheese

Date: March 18th, 2011

An evening of socializing and networking with students and professor from the University of Ottawa and Carleton University, and industry professionals; who study and work in the fields of electrical, computer, and software engineering, sciences, and technology. Joint event with WIE uOttawa.

11. WISE Steps to Success

Date: Wednesday, January 26, 2011

Description: IEEE WIE together with WISE at Carleton University joined forces to bring three

speakers that talked about their career choices and/or career skills. After the speeches, the attendees had the chance to stay over for food and a hour-long networking session to practice what they just learned.

More blogs about the event on the WISE blog roll:

<http://cuwise-events.blogspot.com/2011/01/wise-steps-to-success-professional.ht>

12. Microcontroller workshops

Date: November 20th 2010, March 19th 2011

Description: The purpose of this workshop series is to introduce microcontrollers and look at their applications. A microcontroller is a small and very simple CPU that can be used for many different things because they are inexpensive and easy to use. They can be used to interface with things like DC motors, servo motors, light sensors and lots of other things. We are using a board called the Arduino.

13. Papers' competition

Date: March 23rd, 2011

Description: The purpose of the IEEE Student Paper Competition is to offer student members the opportunity to exercise and improve both written and verbal communication skills. As we move towards a global community, effective communication skills are becoming increasingly important. Whether you go into graduate studies, research and design engineering, sales, or management, you will be required to write reports and give presentations. Skills that you develop and use now will give you an edge when you enter the working world.

Carleton University organizes an evening where all students interested in presenting their fourth year projects or extracurricular interests can come and present in front of judges and other students interested in the topics. First three groups earn a prize and move on to the next level of the competition, Eastern Canada area.

More at: http://www.ieee.ca/students/pap_comp.htm

14. National Engineering Month - Outreach Day (together with TISP)

Date: March 20th, 2011

Description: Carleton University volunteers assisted Teacher in Service Program (TISP) in providing snap circuits' activities to children coming to the Museum of Science and Technology to learn more about engineering and the sciences.

15. IEEE Carleton AGM

Date: March 24th, 2011

Description: New executives are introduced and the annual report presented, giving a chance to everyone to present what they want to accomplish for next year and to network.

16. WISE Celebration of Women in Engineering

Date: April 6, 2011

Description: The Carleton Celebration of Women in Science and Engineering is a showcase of students, faculty, and alumni of Carleton University. The number of women who enroll in many science and engineering programs is quite low, so the amazing things they do can easily go unnoticed. This day puts them in the spotlight.

IEEE WIE contributed to this event with a speaker that talked to high school students about their research during undergraduate studies.

For more details, including a schedule and descriptions of presentations, please visit: <http://www.carleton.ca/wise/misc/celebration.html>

17. Training Day

Date: April 23rd, 2011

Description: During training, old and new executives come together to transfer the knowledge gained in the past year about their positions and ensure that future executives are comfortable and confident in the following year.

18. Graduating Executives' Lunch

Date: April 23rd, 2011

Description: After training, the old and new executives go for lunch to a nearby restaurant to thank the graduating executives for their involvement with the branch and to congratulate them on their graduation.

19. TISP workshop and WIE Canada Conference

Date: April 28th -May 1st, 2011

Description: Student members from Carleton University attended the TISP R7 workshop and volunteered with the WIE Canada Conference (the first one of its kind), strengthening the relationship between IEEE TISP and the student branches, as well as between the student WIE groups and professional WIE groups.

2011-2012 (until October 2011)

1. LEAP – Leading Engineering Applicants Program

Date: May 6-7, 2011

Description: IEEE Carleton volunteered for this event, in which very talented high school students that applied to Carleton University for the Engineering Faculty attended. Volunteers mingled with students and mentored them regarding their university and program choices, as well as provided them with an insight on IEEE and their activities at Carleton, motivating them to volunteer once they accept they offer.

2. EIT Presentation Competition: Present Around The World

Date: May 24th, 2011

Description: The competition provides an opportunity for students and young professionals to network together, learn about the latest advances in engineering and technology, and gain access to new ideas.

The top two finishers in the competition will get one year of free IET membership and a paid visit to Boston to compete in the regional finals.

3. Design Tomorrow's World : Discover WISE

Date: May 26, 2011 (with WIE Ottawa, TISP, WISE, SFN, Google)

Description: Discover WISE was a half-day event at Carleton University, featuring a keynote talk by a female Google software engineer, followed by hands-on workshops. The event invited science teachers, along with small groups of female students (grades 9, 10, & 11) interested in science, computing, engineering, or math. The workshops given to teachers covered topics like how to make computer science interesting. The workshops for the high school students included brain dissections and snap circuitry.

Carleton IEEE WIE had a booth and volunteers at the event hosting the Snap Circuits activity.

More details at: <http://ieee.carleton.ca/2011/05/19/wie-design-tomorrow%E2%80%99s-world/>

4. Training Trip

Date: May 14-15, 2011

Description: During the Training Trip, the new and old executive come together for the weekend to brainstorm and plan the year ahead, while providing activities and time for team building.

5. Ottawa Robotics Competition

Date: June 4, 2011

Description: The Ottawa Robot 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 8 weeks to design and build an autonomous robot in teams of two to five. They learn engineering concepts with the help of a mentor 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.

Carleton University students attended the event as volunteers, helping with technical equipment, the IEEE both, or judging the competitions.

More details at: <http://www.orc.ieeeottawa.ca>

6. WISE/WIE Picnic

Date: August 13, 2011

Location: Britannia Park Gazebo

Description: WISE and WIE Carleton University together with their wider Ottawa counterparts came together for a potluck to network with their women in science and engineering peers. This event was designed to bring together students and professionals, as well as their family members and friends.

More at: <http://cuwise-events.blogspot.com/2011/08/wise-wie-picnic.html>

7. EngFrosh Games

Date: Sept 5, 2011

Description: WISE and IEEE WIE hosted a game of trivia about Carleton, the sciences and remarkable women in engineering. This game introduced future engineering students to WISE and IEEE WIE and their goals and activities.

The IEEE SB also provides frosh week participants with informational sheets about IEEE and the

benefits of membership at Carleton and beyond.

More at: <http://engfrosh.com/2011/>

8. Carleton EXPO

Date: Sept 7, 2011

Description: Booth showcase of IEEE to Carleton students

9. Volunteers Training

Date: Sept 16, 2011

Description: Introducing future volunteers to services the SB provides

10. CMAS Social

Date: September 17, 2011

Description: Societies social evening for first years to network with senior students and learn about their society

11. IEEE Students' Congress

Date: September 16-18, 2011

Description: Training for IEEE SB leaders

12. The Ottawa Experience

Date: September 23, 2011

Description: IEEE booth shared with WISE to showcase IEEE to international and out-of-town students

13. GoEngGirl

Date: October 1, 2011

<http://www1.carleton.ca/engineering-design/about-the-faculty/outreach-initiatives/go-eng-girl/>

14. IEEE Day

Date: October 6, 2011

Projected events until the Annual General Meeting:

- IEEE SB BBQ - Oct 8th, 2011
- IEEE By-Elections - Oct 11th, 2011
- TISP Science Week Activity - October 19th + 22nd, 2011
- WISE Science Week Activity (MUSE)- October 15/16th or 21st, 2011
- 2011 Ontario Celebration of Women in Computing - University of Toronto, Oct. 21-22, 2011
- IEEE Xtreme 5.0 - October 22-23, 2011

University of Ottawa

Chair: Alexandra Phillips, chair@ieeeuottawa.ca

Treasurer: Kristoffer Rodriguez, treasurer@ieeeuottawa.ca

Vice President Internal: Jeffrey Arcand, internal@ieeeuottawa.ca

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Vice President Academic: Chuba Ofili, academic@ieeeuottawa.ca

Webmaster: Lydia Krupp-Hunter, webmaster@ieeeuottawa.ca

WIE Chair: Andrea Bourdeau, wie-chair@ieeeuottawa.ca

WIE Vice President Academic: Somto Ibe, wie-academic@ieeeuottawa.ca

Activity Type (Tech Meeting, Workshop, DL, etc)	Title/Speaker or Workshop Name	Attendance IEEE Society/ IEEE/Total	Joint Activity Sponsors
Workshop	Arduino Microcontroller workshop – February 4 th 2011	0/2/15	
Information Session	AIIESEC and IEEE Information Session – May 11, 2011	0/1/25	AIIESEC
Workshop	WIE Mentoring Workshop - November 27 th 2010	1/4/30	
Technical Competition	Ottawa Mechatronics Competitions – March 27, 2011	1/3/40	uOttawa ARISE Robotics Club

The University of Ottawa Student Branch practices Robert's Rule in bi-weekly executive meeting to pass motions and to make important decisions. We also collaborate and cooperate with the other student branches in the Ottawa region. This teamwork have ensured the success of most of our events.

IEEE Regional Awards

2011	IEEE Exemplary Student Branch Award – Second Place Award
Awarded to the IEEE University of Ottawa Student Branch for the practices implemented in the operations of running an IEEE student branch.	

1. Battle Royale V

Date: November 4th -5th, 2010

Description: Battle Royale is a LAN party involving various computer games and gaming consoles. The competition last for a full 24-hours. The goal of the LAN party is to bring together all the future engineers and computer scientists across the City of Ottawa to share their gaming passion in a relaxed environment.

Hosted at campus of Carleton University, this event has become an annual tradition for the university students in Ottawa studying not just Engineering and Computer Science, but other discipline as well.

Battle Royale offers a unique opportunity to companies to expose themselves to over a hundred engineering and computer science students from both the University of Ottawa and Carleton

University. It had been a huge success over the past years, and this year was no different with over 150 participants.

2. **Canadian University Software Engineering Conference(CUSEC)**

Date: January 13th – 15th 2011

CUSEC is an annual conference about some of the most interesting topics in software engineering organized for and by students from universities across Canada. What makes CUSEC unique is that it is the only software specific conference that targets students. This means that the presentations seen at CUSEC are about things students wish to see, not exclusively information specific to professional developers. Past speakers include Richard Stallman, David Lorge Parnas, Kathy Sierra, Ralph Johnson, Kent Beck, Alistair Cockburn, Dave Thomas, and Tim Bray. The IEEE University of Ottawa Student Branch promoted the event and organized lodgings and travel for students. After incredible fund raising and budgeting, cost for students were \$35 for a \$60 ticket, which included three day lodging at the Marion Hotel in Montreal as well as transportation to and from Montreal.

3. **Google Hackathon**

Date: January 29th, 2011

Description: The Google Hackathon was a free event hosted at the University of Ottawa; all expenses were covered by Google. Open to the public, attendees learned about HTML5 and its application in the Google Chrome browser extension as presented by Google Montreal and the Chromium development group. The IEEE University of Ottawa Student Branch coordinated with Google organizing the venue, free lunch and breakfast in addition to a proper network setup for 90+ developers in a single room.

4. **Student Professional Awareness Conference (S-PAC)**

Date: March 10, 2011

Description: IEEE Student Professional Awareness Conference is a formal dinner event aiming to bridge the gap between students and their career goals. SPAC offered students and employers a unique opportunity to network with each other in a professional environment along with professionals and academics representing the field of Engineering.

5. **Women in Engineering Wine and Cheese**

Date: March 18, 2011

Description: The 2nd Annual Celebration of Women in Engineering Wine and Cheese Party is intended to be an opportunity for students in engineering at the University of Ottawa and Carleton University to take a break from their studies and do some socializing and networking with experts from their fields of interest. While socializing in an elegant atmosphere, the event was successful at generating interest in the promotion of women in engineering and building upon our vibrant community at the local level. Local professionals were given free admission, which encouraged an incredible turnout which kept students and professionals fresh with new conversation throughout the evening.

6. **Open Source Technology Showcase 2011**

Date: August 28, 2011

Description: FOSSLC in partnership with the IEEE University of Ottawa Student Branch will be hosting the fourth annual conference again this year in response to the huge success of the IEEE University of Ottawa Student Branch's involvement and hosting the event in 2010. This open source technology showcase features technical, legal, and business aspects of open source use in private industry, community, and government. Last year over 21 speakers confirmed in attendance giving

the community a fantastic day of lectures from the industries finest, and this year should be no different.

7. **IEEE Virtual Environments, Human-Computer Interfaces and Measurement Systems (VECIMS)**

Date: September 19-21st, 2011

Description: VECIMS 2011 is an interdisciplinary symposium which intends to bring a methodical instrumentation and measurement perspective to the theory and practice of virtual and virtualized environments, and human-computer interfaces, hosted at the University of Ottawa. Speakers will specifically be focusing on the quantitative and metrological aspect of these technologies and their interactive applications in telerobotics, telemedicine, remote control, engineering design, environment sensing and monitoring, training, education, arts, and computer games. The IEEE University of Ottawa Student Branch has played an active role handling all of the local arrangements for the event.

8. **IEEE Computational Intelligence for Measurement Systems and Applications (CIMS) – September**

Date: September 19-21st, 2011

9. **Description:** Up to now, analysis and experiments have been performed by scientists and practitioners mainly to understand the underlying technologies and methodologies, but without any specific focus on the mandatory need of a quantitative assessment and a metrological analysis. Measurement science and technologies are vital to ensure the correct and effective use of soft computing technologies in real environments. CIMS 2011 will continue the exciting experience of the previous editions by filling this gap in knowledge and practice, by focusing on the quantitative aspect of measurement issues for industrial, environmental, and engineering applications. The IEEE University of Ottawa Student Branch has played an active role handling all of the local arrangements for the event as well.

Community Promotion

In addition to organizing and hosting events, the IEEE University of Ottawa Student Branch has promoted a significant number of events to the public which lie in line with our focus to student and community growth as professionals, including:

- Students and Startups 9 (Tech Edition) hosted by The Code Factory
- Beyond Engineering - Non-Traditional Career Paths hosted by the IEEE Ottawa Section Engineer-in-Transition Committee
- Media-Server and Support for Advanced Gaming Environments Workshop hosted by the uOttawa DISCOVER Lab MESSAGE Research Group
- Hack Ottawa hosted by HackTO/HackOTT
- Annual Student Papers Night hosted by Frank Hendriksen of JP2G Consultants
- Prizes in Entrepreneurship & Innovation EIEF Workshop hosted by the OCRI's Entrepreneurship Center
- Business Case Development & Financing hosted by the Technology Transfer Business Enterprise, University of Ottawa and The Ottawa Technology Transfer Network
- Tech Talent Tech Vibe Career Fair hosted by RIM, Desire2Learn, Sandvine, Teledyne Dalsa, Nuvation, PROCOM and Talent Technology

IEEE Ottawa Section Executive 2011

The current IEEE Ottawa Section executive officers are as follows:

- Chair: Dr. Sreeraman Rajan, SMIEEE - sreeraman@ieee.org
- Vice-Chair: Dr. Rami Abielmona, SMIEEE, P.Eng. - rabiemo@ieee.org
- Treasurer: Ms. Anissa Shaddy - anissa@ieee.org
- Secretary: Mr. Rob Woolley - rcwoolley@ieee.org
- Past Chair: Mr. Raed Abdullah, SMIEEE, P.Eng. - raedabdullah@ieee.org

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

IEEE Ottawa Section Elections for 2012

The Section officers proposed by the Nomination and Appointments Committee for the Ottawa Section Executive in 2012:

- Chair: Dr. Sreeraman Rajan, SMIEEE - sreeraman@ieee.org
- Vice-Chair: Dr. Rami Abielmona, SMIEEE, P.Eng. - rabiemo@ieee.org
- Treasurer: Ms. Anissa Shaddy - anissa@ieee.org
- Secretary: Mr. Rob Woolley - rcwoolley@ieee.org
- Past Chair: Mr. Raed Abdullah, SMIEEE, P.Eng. - raedabdullah@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 Raed Abdullah raedabdullah@ieee.org no later than Oct. 24, 2011.

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 2011 Executive

Executive

Sreeraman Rajan	Chair	sreeraman@ieee.org
Rami Abielmona	Vice Chair	rabiemo@ieee.org
Rob Woolley	Secretary	rcwoolley@ieee.org
Anissa Shaddy	Treasurer	anissa@ieee.org
Raed Abdullah	Past Chair	raedabdullah@ieee.org

Committees

Annual General Meeting (AGM) Planning

Rami Abielmona	Chair	rabiemo@ieee.org
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Awards

Wahab Almuhtadi	Chair	almuhtadi@ieee.org
Raed Abdullah		raedabdullah@ieee.org

Bylaws

Branislav Djokic	Chair	branislav@ieee.org
Kexing Liu		Kexing.liu@ieee.org

Communications / Publications

Ahmad Abdo	Chair	aabdo@ieee.org
Brad Stimpson	Vice Chair	bstimpson@ieee.org

Educational Activities (EA)

Branislav Djokic	Chair	branislav@ieee.org
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Engineers in Transition Activities (EiT)

Emily Chen	Chair	emily.hao.chen@ieee.org
Thamelene Davarajah	Vice Chair	thamelene@ieee.org

IEEE Canada Humanitarian Technology Ad-hoc Committee

Alfredo Herrera	Chair	alfredo.herrera@ieee.org
Pedro Sanchez	Vice Chair	pedro.sanchez@ieee.org

Membership Development (MD)

Shatha Hamoudi	Chair	shatha@rogers.com
Mohammed Islam	Vice Chair	maislam@ieee.carleton.ca

Nominations and Appointments

Raed Abdullah	Chair	raedabdullah@ieee.org
Wahab Almuhtadi		almuhtadi@ieee.org
Branislav Djokic		branislav@ieee.org
John Grefford		Grefford@ieee.org
Tom Lavrisa		lavrisa@ieee.org

Robotics Competition

Rob Woolley	Chair	rcwoolley@ieee.org
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Rosalyn Seeton	Vice Chair	seeton@ieee.org
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Teacher In-Service Program (TISP)

Janet Davis	Chair	janet.davis@windriver.com
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Senior Membership

Sreeraman Rajan	Chair	sreeraman@ieee.org
Chen Wu	Vice Chair	wuchen888@ieee.org

Chapters

AESS - Aerospace and Electronic Systems Society

Hugh Reekie	Chair	h.reekie@ieee.org
Tony Ponsford	Vice Chair	tons_ponsford@raytheon.com

AP/MTT - Microwaves/Antennas/Propagation Society

Qiubo Ye	Chair	guibo.ye@crc.ca
Ali Kabiri	Vice Chair	kabiri.ali@gmail.com
Thamelene Davarajah	Secretary	thamelenee@ieee.org

CI & SMC

Moufid Harb	Chair	moufidh@gmail.com
Nizar Sakr	Vice Chair	nsakr@site.uottawa.ca
Julio Valdes	Vice Chair	Julio.Valdes@nrc-cnrc.gc.ca

CompSoc - Computer Society

Rami Abielmona	Chair	rabiemo@ieee.org
Ricardo Villalobos	Vice Chair	rvillalobos@ieee.org

ComSoc, BTS & CES

Wahab Almuhtadi	Chair	almuhtadi@ieee.org
Claude Brulé	Vice Chair	brulec@algonquincollege.com
Tony Khoury	Secretary	tkhoury@nortel.com

CPMT - Components, Packaging and Manufacturing Technology Society

Qi-Jun Zhang	Chair	giz@doe.carleton.ca
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DEIS - Joint Ottawa-Montreal Chapter of Dielectrics and Electrical Insulation Society

Mahmoud Abou-Dakka	Chair	mahmoud.abou-dakka@nrc.ca
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EDS, CAS, & SSCS

Ram Achar	Chair	achar@doe.carleton.ca
Ihsan Erdin	Vice Chair	ierdin@ieee.org
Sreedhar Natarajan	Vice Chair	sn@ieee.org

EMC - Electromagnetic Compatibility Society

Syed Bokhari	Chair	bokhari@ieee.org
Qiubo Ye	Vice Chair	guibo.ye@crc.ca
	Secretary /	
Ali Kabiri	Webmaster	kabiri.ali@gmail.com

EMBS - Engineering in Medicine and Biology Society

Sreeraman Rajan	Chair	sreeraman@ieee.org
Yuu Ono	Vice Chair	yuuno@sce.carleton.ca
James Green	Secretary	jrgreen@sce.carleton.ca
Mohammed Elbadri	Treasurer	melbadri@ieee.org
Sankua Chao	Carleton Chair	chaos@sce.carleton.ca

IMS - Instrumentation and Measurement Society

Voicu Groza	Chair	vgroza@ieee.org
Branislav Djokic	Vice Chair	brislav@ieee.org

LEOS - Photonics Society

Kexing Liu	Chair	kexing.liu@ieee.org
John Bernard	Treasurer	john.bernard@nrc.ca

PES - Power and Energy Society

Wahab Almuhtadi	Chair	almuhtadi@ieee.org
Branislav Djokic	Vice Chair	brislav@ieee.org
Carl Kropp	Secretary	kropcarl@aol.com
Raed Abdullah	Treasurer	raedabdullah@ieee.org

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

Jurek Sasiadek	Chair	jsas@connect.carleton.ca
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R-PEL - Reliability Society & Power Electronics Society Joint Ottawa Chapter (R-PEL)

Raed Abdullah	Chair	raedabdullah@ieee.org
Kasim Rashid	Vice Chair	ajel_kasim@ieee.org

SP, OE, & GRS

Yifeng Zhou	Chair	yifeng.zhou@ieee.org
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TM, PCS, & SSIT

Jean Couillard	Chair	couillard@management.uottawa.ca
Alfredo Herrera	Vice Chair	alfredo.herrera@ieee.org

VTs - Vehicular Technology Society

Hugh Reekie	Chair	h.reekie@ieee.org
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Affinity Groups**AICN - Alliance of IEEE Consultant Network**

Bhagvat Joshi	Chair	bjoshi@ieee.org
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GOLD - Graduates of the Last Decade

Anissa Shaddy	Chair	anissa@ieee.org
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LM - Life Member

David Coll	Chair	dccoll@ieee.org
John Wilson	Vice Chair	jamwilso@allstream.net

WIE - Women in Engineering

Jieyi Rong	Chair	jieyi.rong@ieee.org
Andrea Bourdeau	uOttawa Chair	wie-chair@ieeeuottawa.ca
Daphne Ong	Carleton Chair	daphne.ong@ieee.carleton.ca

Student Branches**Algonquin College**

Cameron Hunt	Chair	hunt0275@algonquinlive.com
Kristjan Solvason-Brown	Vice Chair	solv0001@algonquincollege.com
Abdul Al-azzawi	Faculty Advisor	alazzaa@algonquincollege.com

Carleton University

Laura Mutu	Chair	laura.mutu@ieee.carleton.ca
David Xu	Vice Chair	
Farham Khan	Branch Mentor	
Calvin Plett	Faculty Advisor	cp@doe.carleton.ca

University of Ottawa

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