



IEEE Ottawa Section 2009 Report
to
The Annual General Meeting
(20th of November, 2009)



IEEE Ottawa Section Report to The Annual General Meeting 2009

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Ottawa Section Chair's Report

Greetings Dear Members. Thanks are immediately of order: to the more than 100 volunteers within the section executive office and student branches, and countless other members who volunteered for technical events such as conferences, workshops, and symposia, I thank you each for your dedicated service and congratulations to each of you on another well accomplished year serving our more than 2000 Ottawa Section members. Also, to all our members, thank you for helping make these events successful and meaningful with your participation. I trust that you have enriched your membership in IEEE by reaping the advantages from the over 60 unique local activities and seminars of which nine were presented by distinguished IEEE lecturers, plus the many member benefits, some of which are new in 2009.

IEEE Ottawa Section's 11-Committees, 18-Chapters, four-Affinities, and three-Student Branches were indeed active offering social, technical, soft skill and competitive events. What follows for your attention are notable items that are only highlighted in this brief report if explained in more detail within the Chapter, Affinity, or Committee reports.

Chapters recognized by their societies this year for past performance were: Engineering Medicine and Biology for high level of activity, Power and Energy Society for best website; Joint Chapter of Electron Devices Society, Circuits and Systems Society, and Solid-State Circuits Society for high level of activity, Reliability Society Chapter for high level of activity, plus Aerospace and Electronic Systems Society Chapter, Joint chapter of Antenna and Propagation Society and Microwave Theory and Techniques Society, Communication Society received incentives from their headquarters. Also, the Women in Engineering Affinity group of Ottawa got some start-up funds. Since our last AGM (11 Nov. 2008), the major milestones are:

1. New Initiatives

Teacher in Service Program (TISP) Committee was formed with the goal to train public and private pre-university school educators through workshops in comfortably facilitating science, mathematics, engineering and technology lesson plans that align with curriculum.

Humanitarian Technology Committee (HTC), is being formed with the goal for coordinating a purposeful Canada wide participation in the Humanitarian Technology Challenge and ultimately nurture member involvement in future humanitarian initiatives. Recently, the HTC Ad-hoc Committee has been approved with Alfredo Herrera as its inaugural Chair.

Engineers-in-Transition (EIT) Committee was revitalised to plan offering career development events: Useful programs that will help engineers who wish to learn of other career areas, brush-up on soft and hard skills, or network have started this past spring and many more are planned for this fall and the coming year. Writing Course; National Career Event (Spring & Fall); Financial Planning; Presentation Skills

GOLD held a dinner to recognize graduating students and welcome them to the next stage in life. The event highlighted the need to ensure student members keep their membership record up to date so they do not miss being invited.

IEEE Ottawa Section Senate (Rotating Chair) was formed to advise the Section Officers and be a support for activities. Senate members are: Saman Adham, Wahab Almuhtadi, Rejean Arseneau, Branislav Djokic, Ibrahim Gedeon, John Grefford Tom Lavrissa.

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2. Co-Sponsorships

2010 IEEE 72nd Vehicular Technology Conference: VTC2010-Fall, 6–9 September 2010, Westin Ottawa, Ottawa, Canada. This semi-annual flagship conference of the IEEE Vehicular Technology Society will bring together individuals from academia, government, and industry to discuss and exchange ideas in the fields of wireless, mobile, and vehicular technology. The conference will feature world-class plenary speakers, tutorials, and technical as well as application sessions. <http://www.ieeevtc.org/vtc2010fall/>

The 2009 Canadian Workshop on Information Theory, May 13-15, 2009, at the University of Ottawa, SITE building; technical co-sponsors with the Canadian Information Theory Society, <http://www.site.uottawa.ca/CWIT09/>

2009 IEEE Canada Electrical Power and Energy Conference (EPEC2009), October 22-23, 2009, in Montreal, QC; financial co-sponsor and co-organizer with IEEE Canada and IEEE Montreal Section, <http://www.ieee.ca/epec09>

Women in Engineering (WIE) co-sponsored an event with Algonquin College featuring Jane Goodall titled “Reason for Hope” and it was a grand success. It gave an opportunity for WIE to interact with Jane Goodall and to support the need for compassion, conservation and hope to convert this planet into a beautiful habitat.

3. International Conferences in Ottawa

International Conference on Communications 2012 (ICC2012), June 10-15, 2012, Ottawa Convention Centre; financial co-sponsor and local organizer, with the IEEE Communications Society (ComSoc). On June 17, 2009, at the ICC2009 in Dresden, Germany, ComSoc announced that Ottawa beat out other bidding major international cities. The estimated number of the conference attendees will be 1500 to 2000. The conference will have a significant impact in regaining the reputation and business of the Canadian telecom and high tech companies that are facing many challenges during these recent years, and would raise the profile and visibility of these companies. As well as the conference will benefit the academia, scientific and engineering research, industry and local business in Ottawa. Thanks to all those who offered to volunteer – please stand by, we are so well ahead of the game and have been asked by ComSoc to slow down.

IEEE 43rd International Carnahan Conference on Security Technology 2009 (ICCST 2009), October 5 - 10, 2009, Zurich, Switzerland; technical co-sponsor, <http://www.iccst2009.com>. This was an expansion of our activities and outreach to another continent that speaks highly of the quality of the contact established and of the assistance provided to the IEEE International Carnahan Conference.

SMARTARM 2009, is a second in a local initiative series on methods for non-invasive sensing and monitoring of Adverse Response to Medication. This is a very lucrative area that is desperate yet, lacking of engineering solutions to medical problems. This year the event will be on Nov. 12-13, at the University of Ottawa SITE building; engineers of all disciplines are invited.

14th International Symposium on Antenna Technology and Applied Electromagnetics (ANTEM) jointly with and the American Electromagnetics Conference [AMEREM]. July 5-9, 2010, Fairmont Château Laurier, http://antem.ee.umanitoba.ca/antem_amerem2010/Home.html.

NRC Institute for Microstructural Sciences (IMS) and IEEE Ottawa Section will be co-hosting the Information Photonics Conference 2010 (IPC 2010) that will take place during the week of September 27-30 2010, at the

Sheraton Hotel in Ottawa. The last three meetings were held in Japan (2008), Russia (2006) and Switzerland (2004).

4. Member elevations

Senior member elevation exceeded 20 and on target to 30 for this year, a new record high. Fellows were three:

- Prof. Abdulmotaleb El Saddik (University of Ottawa), for contributions to interactive haptic audio visual systems;
- Dr. John Lodge (Communications Research Centre Canada), for contributions to the application of signal processing and communications theory.
- Also of note is Ottawa based Prof. David Parnas (now at Queens University) for contributions to software engineering.

5. Distinguished Lecturers

Congratulations to our Dr. Branislav Djokic, Research Officer National Research Council Canada, Electrical Power Measurements, for becoming a Distinguished Lecturer (DL) for the Instrumentation and Measurement Society (IMS). http://iee-ims.org/main/index.php?option=com_content&view=article&id=38&Itemid=18

"IEEE Distinguished Lecturers are engineering professionals who help lead their fields in new technical developments that shape the global community. These experts: specialize in the field of interest of their Society/Council; travel to various technical and regional groups to lecture at events."

Ottawa can now boast that three of the five IMS DL s are in Ottawa. Branislav joins:

- Prof. Shervin Shirmohammadi, Associate Professor at the School of Information Technology and Engineering, University of Ottawa, Canada
- Prof. Abed (Abdulmotaleb) El Saddik is associate professor at the School of Information Technology and Engineering (SITE) at the University of Ottawa

6. Student Activities

IEEE Connects! 2009 is a formal dinner event that aims to bridge the gap between students and their career goals. On February 27th, students and employers had the opportunity to network with each other in a friendly environment along with professionals and academics in Engineering. Successful professionals from the field of engineering shared their experiences to illustrate how a student can prudently plan their career in the present day context and embark into their most desired professional career. <http://www.ieeeconnects.com>

7. Competitions

Annual Ottawa Robotics Competition held on 2009-04-26, at the Canadian Museum of Science and Technology, attracted over 34 teams from 11 local schools. With over 170 students and 250 attendees, the event was a grand success. Planning for the next event is underway.

Innovate North-America is the FPGA competition under the leadership of IEEE Ottawa Section. Last year, this national competition was a great success and this year the competition has returned! This competition

brings together Canadian and American students and the mentors from academia and industry to a learning environment in pursuit of innovation. Finalist will be published in the IEEE FCCM 2010 publication.

Eastern Ontario Paper Competition was held on March 26, 2009, at RMC in Kingston, Ontario. Participating from the local student branches were: Algonquin College, Carleton University, Royal Military College (RMC) and Queens University. From Ottawa were Elom Atikpo, Arvin Mohindra, and Priti Rai of Carleton University presenting "Interactive Exercise Machine (IEM)" and Aswin Aristama from Algonquin College presenting his work on Remote Objective Monitoring of Bio-Signal. Carleton University was placed first while Algonquin College shared the third place with RMC. Congratulations to all the winners.

Telus Paper Competition Sep. 18, 2009 – Students from Student Branches participated in the competition. Kiril Kidisyuk and Stefan Shopov from Carleton University made it to the finals. Congratulations to both of them for making it to the finals.

IEEE Photonics Society (LEOS) Ottawa Chapter Annual Student Paper Competition was open to full time graduate / undergraduate student at a post-secondary educational institution within the IEEE defined geographic region of Ottawa Chapter as of June 30, 2009. Candidates were first authors of an original research paper published or accepted for publication in a peer reviewed technical journal between July 1, 2008, and June 30, 2009, in the area of photonics as defined by the scope of the newly named IEEE Photonics Society. The \$200 prize was awarded to Chao Wang of University of Ottawa on Sep. 1, 2009, and presented at the Chapter's Symposium on Advancements in Photonics.

Battle Royal, a 24h gameing event, was held by the three student branches on Jan 24-25th, and then also on October 3-4.

In the 2009 IEEE Canada Student Branch Website Contest, Carleton University was placed first and Algonquin College was placed third. Congratulations to both these branches.

8. Special Mentions

Congratulations to Dr. Wahab Almuhtadi, past Chair of the Ottawa Section as well as ComSoc/BTS Chair and PES Chair, who has been recently elevated to R7 Eastern Area Chair.

Ms. Jieye Rong, a student of Carleton University (who also happens to be the Student Branch Chair) won the nomination for the 2009 IEEE Canadian Foundation Board award of \$3500.

Mr. Yiyang Wu (member get a member) IEEE Member and Geographic Activities IEEE Member-Get-a-Member (MGM) program during 2009 have earned the Ottawa Section the top five MGM recruiters in each Region

Congratulations to Prof. David Falconer, a Fellow of IEEE residing in the Ottawa Section, is a Professor of Systems and Computer Engineering at Carleton University in Ottawa. He is receiving the R.A. Fessenden Award (Telecommunications) for outstanding technical contributions to the area of data transmission in both wireline and wireless environments.

Dr. Rami Abielmona, current Section Treasurer was recognized through MGA Achievement award in 2008, for his exemplary contributions and energetic leadership towards increasing the participation in the IEEE Ottawa Section Robotics Competition and actively engaging the local students.

IEEE Canada 2009 Major Service Award Winners:

- The Engineering Institute of Canada (EIC) J.J. Archambault Eastern Canada Merit Award was received by Mr. John Grefford for dedicated and outstanding service to the IEEE Ottawa Section, IEEE Canada and EIC. Congratulations John! John is a Senior Member of IEEE and a Fellow of EIC residing in the Ottawa Section, he is also Program Support Officer with Defence Construction Canada.
- Also, congratulations to Dr. Maïke Luiken, the 2005 Ottawa Section Chair, who received an Engineering Institute of Canada Fellowship at the EIC Awards Gala held in Ottawa this past March.

9. *Special Offers & Activities*

Through the efforts of Mr. John Grefford, the 2003 & 2004 IEEE Ottawa Section Chair and still volunteer, a very competitive home and auto insurance plan is now being offered through the Personal check out their fees(<http://www.ottawa.ieee.ca> -click on the icon)that may just pay for your membership fees a few times over.

National Career Event will be held for a second time this year on November 5, 2009, at the Hampton Inn & Conference Centre. Visit www.nationalcareerevent.com for detail. The IEEE Ottawa Section will be sharing a booth with the Engineering Institute of Canada. Staffed by Carleton University IEEE Student Branch volunteers, the Ottawa Section had supported the event this past spring too.

Members were offered two webinars by IEEE Expert Now, and more are promised:

- "Cognitive Radio: Research Challenges" by Prof. Simon Haykin, Distinguished University Professor, April 3, 2009
- "Introduction to Developing Embedded Systems" by Dr. Kim Fowler is Executive Vice President of the IEEE Instrumentation and Measurement Society and the former Editor in Chief for its magazine, March 25, 2009

10. *IEEE Ottawa Section History for IEEE 125th Anniversary*

Dr. David Coll, Life Fellow, undertook the task of compiling the history of the Ottawa Section and accomplishments of its members towards advancement of local academia and hi-tech industry. For this we are thankful – indeed Ottawa and its members have a lot to be proud of and thus the theme of our 65th IEEE Ottawa Section AGM Dinner and IEEE 125th Anniversary Banquet: "In Celebration of Fellowship and Accomplishment."

Once again, I can't say enough thanks yet one more time is due: I thank and congratulate the IEEE Ottawa Section Team for their enthusiasm and hard work that can be counted upon.

To our members, this year is not over yet and more activities are to come. Enjoy.

Sincerely,

Raed Abdullah, P.Eng.,
Chair of IEEE Ottawa Section

www.ottawa.ieee.ca

Committee Reports

AGMPC - Annual General Meeting Planning Committee

Chair – Sreeraman Rajan - sreeraman@ieee.org

Your 64th AGM was held on Tuesday, November 11, 2008, at the Conference Centre, Hampton Inn. A full house of over 200 attendees heard key note speaker Mr. Rod Bryden, President & CEO of Plasco Energy Group Inc., present “The Plasco Conversion System – A new method of converting waste to value.” Local based companies were awarded for their technological achievements. Each was escorted to the podium by a Royal Mounted Police gig.

For the 2009 AGM, we are combining it with honouring the 125th Anniversary of the IEEE and celebrating you, the member. All members are invited to attend the business segment of the AGM starting at 6PM. After that, those staying to join us for the evening will hear a brief presentation on the history and accomplishment of our members, celebrate the contributions of our volunteers, special guests, and corporate contributions then treat ourselves to a murder mystery that combines themes from The Apprentice and Survivor.

AC – Awards Committee

Chair - Wahab Almuhtadi - almuhtadi@ieee.org

IEEE Ottawa Awards <http://ottawa.ieee.ca/awards.html>

The Award Committee is working closely with the chapters, other committees, affinity groups, student branches of the IEEE Ottawa Section as well as with OCRI, Academia and Industry for nomination individual, organizations, volunteers forth the IEEE Ottawa Awards. T the winners of this year will be announced at the AGM 2009 on November 20, 2009.

T he winners for IEEE Ottawa Section Awards for year 2008 were as follows:

IEEE Ottawa Section Outstanding Technology Company Recognition Award 2008:

Menova Energy Inc. *for your successful leading in providing affordable solar energy solutions for the Industrial, Commercial and Institutional (ICI) market.*

Ensyn Technologies Inc. *for your successful leading in providing and commercializing its proprietary biomass to liquid technology, Rapid Thermal Processing (RTP)™.*

Magenn Power Inc. *for your successful leading in designing and development of MAGENN AIR ROTOR SYSTEM (MARS) for generating wind clean energy.*

Allen Vanguard Corporation *for your successful leading of proprietary solutions for protection and counter-measures against hazardous devices of all kinds.*

March Networks Corporation *for your successful leading of providing of intelligent IP video and business analysis applications.*

Eion Inc. *for data and voice over satellite, wired, and wireless networks.*

IEEE Ottawa Section Appreciation Award 2008:

TELUS *for successful leadership in telecommunications industry and for continuous and valuable support of IEEE Ottawa Section activities.*

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BC- Bylaws Committee

Chair - Branislav Djokic - branislav@ieee.org

Kexing Liu - Kexing.liu@ieee.org

IEEE Ottawa Bylaws <http://ottawa.ieee.ca/bylaws.html>

CPC - Communications / Publications Committee

Chair - Mohammed Elbadri - melbadri@ieee.org

IEEE Ottawa Communications / Publications <http://ottawa.ieee.ca/publications.html>

The Communications & Publications Committee takes care of the section website, the e-newsletter and the mailing lists. This year, the monthly and annual newsletters were archived and presented for display to the public. The committee is also undertaking a French-language translation of the website, as well as a more automated entry mechanism for its chapter officer listings and event disseminations.

EAC - Educational Activities Committee

Chair - Branislav Djokic - branislav@ieee.org

IEEE Ottawa Educational Activities <http://ottawa.ieee.ca/ea/>

The following technical meetings were sponsored or co-sponsored by Educational Activities

1. "Impact of Renewable Energy Resources on the Electrical Power System Stability" by Prof. Dr. Mo El-Hawary, IEEE Fellow, IEEE PES Distinguished Lecturer, Dalhousie University, Halifax, Nova Scotia, Canada. Held jointly with IEEE Ottawa Reliability Chapter, Power and Energy Society Chapter, Women in Engineering Affinity Group, and Algonquin College Student Branch on April 17, 2009.
2. "Marine Renewable Energy - Growing Canada's Renewable Energy Supply" by Ms. Melanie Nadeau, P.Eng., Manager, Marine Energy, CanmetENERGY, Natural Resources Canada. Held jointly with IEEE Ottawa Power and Energy Society Chapter, Reliability Chapter, Women in Engineering Affinity Group, and Algonquin College Student Branch on April 23, 2009.
3. "Why Technical Writing Matters and What It Can Do for Your Career" by Ms. Kerry Surman, Algonquin College, Ottawa, Ont., Canada. Held jointly with IEEE Ottawa Power and Energy Society Chapter, Reliability Chapter, ComSoc/BTS Chapter, Women in Engineering Affinity Group, and Algonquin College Student Branch on May 13, 2009.

EiTC - Engineers in Transition Committee

Co-Chair –External Affairs: Bhagvat Joshi - bjoshi@ieee.org

Co-Chair—Internal Affairs – Emily Chen – amilie_709@yahoo.ca

The Engineers in Transition Committee attended the executives meeting of the Section. The EiT submitted a proposal for training programs that will serve and help unemployed IEEE engineers in Ottawa to gain new skills.

MDC - Membership Development Committee

Chair – Patrick Couture – cout0009@algonquincollege.com

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

Our Section has a total of 2048 members. There are 16 Life Fellows, 35 Life Senior Members, 107 Life Members, 19 Fellows, 187 Senior Members, 1334 Members, 95 Graduate Student Members, 110 Student Members, 63 Associate Members and 82 Affiliates. The Membership Development team is actively recruiting members in the Ottawa region.

If you need more information about any of your benefits, or if you would like a member of our team to attend an event at your place of work to talk about the benefits of IEEE membership, contact the above.

NAC – Nomination and Appointments Committee

Chair – 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. N&A Committee consists of:

RCC - Robotics Competition Committee

Chair - Mohammed Elbadri - melbadri@ieee.org

Vice Chair - Rob Woolley - rcwoolley@ieee.org

Ottawa RoboComp Webpage <http://orc.ottawa.ieee.ca>

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

The Robotics Competition Committee held in 2009 the 7th IEEE Ottawa Robotics Competition. The event is targeted towards grade 7 & 8 schools. This year each team had 10 weeks to build a robot using a Lego Mindstorms or NXT kit to compete in a Biathlon or a Sumo wrestling competition. On Sunday April 26, 2009, the IEEE Ottawa Section ran the four challenges at the Canada Science and Technology Museum. The competition, sponsored at the Platinum level by the Museum and the School of Information, Technology and Engineering (SITE) Department at the University of Ottawa, was a huge success. We would also like to thank our industrial sponsors (<http://orc.ottawa.ieee.ca/?q=Sponsors>):

* Larus Technologies Corporation

* Allen Vanguard

* Robot Shop

* Tulips and Maple

* Bando Promotions, for their continued support.

This year, we had 34 teams from 11 local schools, with 5 NXT Biathlon teams, 6 RCX Biathlon teams, 15 NXT Sumo teams and 8 RCX Sumo teams. With over 170 students and 250 attendees, the event continues to be a resounding success. As this competition grows, a large number of volunteers are needed to support the projects at the schools. As well,

sponsorships are required to sustain this project. More information can be found on the competition's IEEE web site: <http://orc.ottawa.ieee.ca>. Contact: Mohammed Elbadri, Robotics Competition Committee Chair, melbadri@ieee.org.

SMC - Senior Membership Committee

Chair - Jennifer Ng (S'91 M'95 SM'07) - jng@ieee.org

Vice chair – Dr. Wahab Almuhtadi –almuhtadi@ieee.org

Committee members: Mr. Raed Abdullah, Dr. Wahab Almuhtadi, Dr. David Coll, Dr. Calvin Plett and Dr. Sreeraman Rajan

IEEE HQ Senior Membership Website <http://ieee.org/go/ottawa-sm>

The committee has a fast-track process to guide and support applicants through Senior Membership elevation as well as providing Section nomination letters, if needed. As of September, there were 21 members who were elevated to the status of Senior Member (~7% increase since last year). According to IEEE Member Services, there are over 700 members in Ottawa who are eligible for this elevated status. If you are one of them, please send your most recent resume/CV and IEEE number to ottawasection-sm@listserv.ieee.org – also indicate whether you will need references.

For more information about SM Ottawa and fast track process, please visit our website, or contact Jennifer Ng, jng@ieee.org or to reach the committee, ottawasection-sm@listserv.ieee.org

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Chapter Reports

AESS - Aerospace and Electronic Systems Society

Chair - Hugh Reekie - (613)728-5343 (day & evg) - h.reekie@ieee.org

Vice Chair - Mel Walker - melwalker@igs.net

Ottawa AESS Chapter <http://www3.bell.net/~max-com/ottawa.AESS.html>

1. Oct 30, 2008: The Evolution of Aircraft Avionics, Dr. Myron Kayton, IEEE-AESS Distinguished Lecturer.
2. Feb 12, 2009: Satellite Communications and Telesat's Multimedia Satellite: Anik F2, Dr. Ali Shoamanesh, Telesat Canada.
- 3 Mar 21, 2009: Tour - Vintage Wings Canada Aircraft Collection, Gatineau Airport (in conjunction with VTS Chapter)
4. Apr 21, 2009: Overview of Tracking and Data Fusion Technologies, Dr. Zhen Ding, DRDC Ottawa
5. Apr 21, 2009: HFSWR for Surveillance in Canada's 200 Km Economic Zone, Dr. Tony Ponsford, Raytheon Canada
6. May 28, 2009: A Noisy Life: Worldwide Adventures in VHF Noise, Mr. Hugh Chivers, La Jolla Sciences, California

AP/MTT - Microwaves/Antennas/Propagation Society

Chair - Qiubo Ye - qiubo.ye@crc.ca

Vice Chair - Kin Sze - kinsze@ieee.org

Ottawa MTT/AP Society Chapter http://www.ottawa.ieee.ca/ap_mtt/home/

Nov. 2008 – Oct. 2009

List of presentations

1. 03/06/2009, SDR Based Power amplifiers /Transmitters for Advanced Wireless and Satellite Communications, Prof. Fadhel Ghannouchi
2. 04/02/2009, EMC/EMI issues in Biomedical Research, Prof. Ji Chen
3. 04/02/2009, Multipoint Real-Time Signal Analysis, Dr. Nikhil Adnani
4. 05/05/2009, Large-Scale Electromagnetic Systems Solving Techniques, Prof. Raj Mittra
5. 05/05/2009, A 3-D High performance EM Simulation Tool: GEMS software and System, Dr. Wenhua Yu
6. 05/21/2009, Microelectronics Reliability: It's evolution from Military to Commercial Requirements, Dr. Ray Haythornthwaite.

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7. 06/05/2009, Development of Diagnosis Techniques for Power Equipment Using Radio Sensing, Computational EM, Dr. Masatake Kawada
8. 06/04/2009, Engineering Aspects of Electromagnetic Shielding, Dr. Sergiu Radu
9. 09/18/2009, Moving from Grid-Based Methods to Node-Based Meshless Techniques with the Time-Domain Method of Weighted Residue, Prof. Zhizhang Chen
10. 11/02/2009, The Ten Habits of Highly Successful Board Designers, Dr. Eric Bogatin

CI - Computational Intelligence Society

Chair - Nizar Sakr - nsakr@site.uottawa.ca

Vice Chair - Julio Valdes - Julio.Valdes@nrc-cnrc.gc.ca

Vice Chair - Moufid Harb - moufidh@gmail.com

Ottawa Computational Intelligence Society Chapter <http://ottawa.ieee.ca/ci/>

Over the past year, the Computational Intelligence Society – Ottawa Chapter has organized numerous events. First, on Thursday December 18, 2008, the Chapter organized a CIS Distinguished Lecture that was presented by Dr. James M. Keller, a Professor at the University of Missouri-Columbia, and was entitled “Soft Computing for Sensor and Algorithm Fusion”. A second talk was organized on Tuesday February 10, 2009. It was provided by Prof. Q. J. Zhang, Professor (IEEE Fellow) at Carleton University and was entitled “Neural Networks for High-Frequency Electronic Modeling and Design”. A third talk was given on Thursday April 30, 2009 by Dr. Qing Chen, a postdoctoral fellow at the University of Ottawa. It was entitled “Hand Gesture Recognition and Applications in Human-Computer Interactions”. Additionally, another Distinguished Lecture has been set for November 2, 2009. It will be given by Dr. Russell Eberhart of the Purdue School of Engineering and Technology in Indianapolis. The talk will focus primarily on the current state of the swarm intelligence research area.

The chapter has also helped in the advertisement and/or sponsorship of various events throughout this past year. To enumerate a few: the “Cognitive Tracking Radar” presentation given by Dr. Simon Haykin at DRDC Ottawa on Friday July 10, 2009; “A Double Lecture evening on Radar for Canada's 200 Km Eco-Zone”, held by the Ottawa Chapter AESS on Tuesday 21 April. Moreover the chapter helped significantly in the organization, advertisement and sponsorship of the IEEE Symposium on Computational Intelligence for Security and Defence Applications that was held in Ottawa on July 8-10, 2009.

Lastly, we continue to build up this chapter to become the meeting place of choice for the computational intelligence community in the Ottawa region. For more information please visit the chapter website at <http://ottawa.ieee.ca/ci>.

CompSoc - Computer Society

Chair – Rami Abielmona – rabiemo@ieee.org

Vice Chair - Fernand Boudreau - fernand.boudreau@ieee.org

Vice Chair – Ricardo Villalobos - rvillalobos@ieee.org

Ottawa Computer Society Chapter <http://ottawa.ieee.ca/comsoc/index.html>

The following three seminars are organized for the year 2009:

1. “A New Multibase Number Representation and Its Cryptographic Applications,” given by Dr. Ali Miri, Professor, SITE, University of Ottawa on April 17th 2009.

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2. "Microelectronics Reliability: It's evolution from Military to Commercial Requirements," given by Dr. Ray Haythornthwaite on May 21st 2009 (jointly with IEEE Reliability Ottawa Chapter, IEEE ComSoc/BTS Ottawa Chapter, IEEE LEOS Ottawa Chapter, IEEE AESS Ottawa Chapter, IEEE P/MTT Ottawa Chapter, IEEE CS Ottawa Chapter, and Algonquin College Student Branch)

3. "Modular Design of Configurable/Reconfigurable Systems," given by Dr. Miodrag Bolic, Associate Professor, SITE, University of Ottawa on November 17th 2009.

ComSoc & BTS - Joint Chapter of Communications Society and Broadcast Technology Society

Chair - Wahab Almuhtadi - almuhtadi@ieee.org

Vice Chair - Tony Khoury - tkhoury@nortel.com

Ottawa ComSoc Chapter <http://ottawa.ieee.ca/comsoc/index.html>

ComSoc/BTS Joint Chapter is a very active chapter and serves its members with high discipline in organizing technical and educational seminars, and working on ICC 2012 conference. Thus much of the activities in 2009 are:

1. The Ottawa ComSoc Chapter and The Ottawa Section along with the strong support of Telus, Ottawa Tourism, Ottawa Convention Centre, and several other local industry and academia supporters, has won the right to host the prestigious International Conference on Communications (ICC) in 2012. ICC 2012 will be held at the Ottawa Convention Centre in Ottawa, Ontario, Canada from June 10 till June 15, 2012. The estimated number of the conference attendees will be 1500 to 2000.

2. "Converged Services and New Generation of Networking" by Dr. Bhumip Khasnabish, IEEE ComSoc Distinguished Lecturer, Distinguished MTS of Verizon Network and Technology, Waltham, MA, USA. Held Jointly with Algonquin College Student Branch in conjunction with School of Advanced Technology-Algonquin College on July 15, 2009.

3. "Microelectronics Reliability: It's evolution from Military to Commercial Requirements" by Dr. Ray Haythornthwaite, Ottawa, Ontario. Held Jointly with IEEE Ottawa Chapters: RL, LEOS (Photonics), AESS P/MTT and CS, and Algonquin College Student Branch on May 21, 2009.

4. "Why Technical Writing Matters and What It Can Do for Your Career" by Ms. Kerry Surman, Algonquin College, Ottawa, Ont., Canada. Held Jointly with IEEE Ottawa Educational Activities, PES Chapter, Reliability Chapter Women in Engineering Affinity Group, and Algonquin College Student Branch on May 13, 2007.

5. "Compensation of Long Input Delays for Unstable Nonlinear and PDE Systems" by Prof. Dr. Miroslav Krstic, Sorenson Distinguished Professor and Director of the Center for Control Systems and Dynamics at UC San Diego, USA. Held Jointly with Ottawa Chapters of RAS/CS, SP/OE/RS, RL, EA and Algonquin College Student Branch in conjunction with School of Advanced Technology, Algonquin College on March 19, 2009.

6. "40 Gb/s and 100 Gb/s Coherent Modems" by Dr. Hussein T. Mouftah, Canada Research Chair and Distinguished University Professor SITE, University of Ottawa, Ottawa, Ontario, Canada. Held Jointly with

Ottawa LEOS (Photonics), and Algonquin College, IEEE Student Branch in conjunction with School of Advanced Technology, Algonquin College) on March 19, 2009.

7. "Adaptive Filtering Games for designing Reconfigurable Sensor Networks" by Prof. Vikram Krishnamurthy, Department of Electrical and Computer Engineering, University of British Columbia, Canada. Held Jointly with Signal Processing, Oceanic Engineering, & Geoscience and Remote Sensing (SP, OE, & GRS) on March 17, 2009.

8. "Watch this White Space: Leveraging the latest license-free spectrum" by Mr. Stephen Rayment, Chief Technology Officer, BelAir Networks, Ottawa, Canada. Held Jointly with the Institution of Engineering and Technology (IET) Ottawa Network on January 26, 2009.

CPMT - Components, Packaging and Manufacturing Technology Society

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

Total of 7 technical presentations were given by invited speakers.

1. Nov 10, 2008: System on Package (SoP), Integration Technologies and CAD methods for Micro, Nano and Bio Convergence, Professor Madhavan Swaminathan, Georgia Institute of Technology, Atlanta, Georgia, USA

2. Nov 28, 2008: A MOS-Based Passive Radon Monitor or, What You Don't Know Could Kill You , Professor Garry Tarr, Carleton University, Ottawa, Canada

3. Mar 6, 2009: SDR Based Power amplifiers /Transmitters for Advanced Wireless and Satellite Communications , Prof. Fadhel Ghannouchi, University of Calgary, Calgary, Canada

4. Apr 2, 2009: Multipoint Real-Time Signal Analysis, Dr. Nikhil Adnani, ThinkRF Corp., Ottawa, ON, Canada

5a. May 5, 2009: Large-Scale Electromagnetic Systems Solving Techniques, Dr. Raj Mittra, RAM Associates, State College, PA, USA

5b. May 5, 2009: A 3-D High performance EM Simulation Tool: GEMS software and System, Dr. Wenhua Yu, 2COMU, State College, PA, USA

6. Sep 18, 2009: Moving from Grid-Based Methods to Node-Based Meshless Techniques with the Time-Domain Method of Weig, Zhizhang Chen, Dalhousie University, Halifax, NS, Canada

7. Sep 24, 2009: Key Enabling Technologies for 3D IC Integration and SiP, John Lau, Hong Kong University of Science and Technology, Hong Kong

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

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

Vice Chair - Dr. Eric Davide, Ecole des Technology Superior, Montreal, QC.

The following three seminars were organized during the year 2009:

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1. Jun 5, 2009: Development of Diagnostic Measurement Techniques for Power Equipment using Radio Sensing, Computational Electromagnetic Methods and Signal Processing, Dr. Masatake Kawada, University of Tokushima, Tokushima, Japan.

2. Nov 5, 2009: Towards Development of Diagnostic Technique for High Voltage Polymer Insulated Power Cables using the DC Polarization/Depolarization Measurements, Dr. Mahmoud Abou-Dakka, NRC, Ottawa.

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

Chair - Ram Achar - achar@doe.carleton.ca

EDS Vice Chair - Ihsan Erdin - ierdin@ieee.org

SSCS Vice Chair - Sreedhar Natarajan - sn@ieee.org

CAS Vice Chair - Dharmendra Saraswat - dsaras68@yahoo.com

Ottawa EDS/CAS/SSCS Joint Chapter http://ottawa.ieee.ca/eds_cas_sscs/

Synopsis:

The CASS/EDS/SSC joint chapter of Ottawa has been active in organizing and promoting the events/activities of importance to the Ottawa IEEE members. 7 talks from experts of international repute were arranged under this chapter during Oct. 2008 – Sept. 2009, with speakers coming from various parts of the world (out of which 2 were DLs). Typical attendance for the talks ranged between 10 or higher.

Following is a list of major talks arranged by the chapter (apart from the regular meetings of members) during the last year (Oct. 2008 – Sept. 2009).

List of Major talks/Distinguished Lectures (Since Oct. 2008)

1. Total of 7 talks (2 DLP) from Eminent speakers (either directly arranged or co-sponsored with other chapters)
2. Volunteers of the CASS society significantly helped in organizing the CASS sponsored 1st and 2nd Microsystems and Nanoelectronics Research Conference (MNRC, Oct.-2008 and also Oct. -2009) in Ottawa. This conference was a grand success and helped to promote the CASS significantly in the Ottawa area. Volunteers of the Ottawa chapter were also instrumental in getting the CASS sponsorship for this conference.
3. Ottawa joint chapter of the CASS/SSC/EDS was recognized as the “best chapter of the year” for region 1-7, by the CASS society
4. Recognizing the activities of the Ottawa joint chapter of the CASS/SSC/EDS, CASS society provided a subsidy incentive of US \$750 for the chapter.

Details of the talks:

1. Oct 7, 2008: Improved Drain-Source Current Model for HEMTs with Accurate Gm Fitting in All Regions, Dr. Jianguo Ma, Changjiang (Yangtze River) Professor, University of Electronic Sciences and Technology of China, Chengdu, China

2. Nov 10, 2008: System on Package (SoP) – Integration Technologies and CAD methods for Micro, Nano and Bio Convergence, Professor Madhavan Swaminathan, Fellow IEEE, Deputy Director, Packaging Research.

3. Jan 22, 2009: Fiber Optic Communications: From Backbone to Access Networks, Dr. Velko Tzolov, Co-founder and Senior Vice President at Palladium7 Corporation, Ottawa, ON, Canada

4. Mar 6, 2009: SDR Based Power amplifiers /Transmitters for Advanced Wireless and Satellite Communications, Fadhel Ghannouchi, Fellow of IEEE, Fellow IET, IEEE MTT Distinguish Microwave Lecturer, ICORE Professor and Senior Canada Research Chair, Director, iRadio Laboratory, Department of Electrical and Computer Engineering, University of Calgary, AB,Canada

5. Mar 19, 2009: RF Automatic Impedance Matching Systems, Dr. Robson Nunes de Lima, Assistant Professor, Electrical Engineering Department of Universidade Federal da Bahia (Salvador, Brazil).

6. Apr 02, 2009: Multipoint Real-Time Signal Analysis, Dr. Nikhil Adnani, ThinkRF Corp., Ottawa, ON, Canada

7. Sep 29, 2009: Low Power Asynchronous-Logic Circuit Design, Dr. Gwee Bah Hwee - A CASS Distinguished Lecturer - Associate Professor, Nanyang Technological University, School of EEE, Singapore

EMC - Electromagnetic Compatibility Society

Chair - Syed Bokhari - bokhari@ieee.org

Our chapter has held two events this year:

1. Apr 2, 2009, EMC/EMI issues in Biomedical Research, Prof. Ji Chen , IEEE EMC Distinguished Lecturer, Department of Electrical and Computer Engineering, University of Houston.
2. Jun 4, 2009: Engineering Aspects of Electromagnetic Shielding, Dr. Sergiu Radu, IEEE EMC Distinguished Lecturer, SUN Microsystems, CA.
3. Nov 2, 2009: The Ten Habits of Highly Successful Board Designers, Dr. Eric Bogatin, IEEE EMC Distinguished Lecturer, Signal Integrity Evangelist, Bogatin Enterprises, Olathe, KS.

Our events were well attended. And we will continue organize similar events.

EMBS - Engineering in Medicine and Biology Society

Chair - Dr. Sreeraman Rajan - sreeraman@ieee.org Defence Research and Development Canada, Ottawa, Canada

Vice Chair - Prof. Yuu Ono, Department of Systems and Computer Eng, Carleton University, Ottawa, Canada

Secretary - Prof. James Green, Department of Systems and Computer Eng, Carleton University, Ottawa, Canada

Treasurer - Mr. Mohammed Elbadri, Curtis Wright, Ottawa, Canada

Web-Master - Prof. Adrian Chan, Department of Systems and Computer Eng, Carleton University, Ottawa, Canada

Ottawa EMBS Chapter <http://ottawa.ieee.ca/embs/>

EMBS Carleton University Student Club <http://www.embs.engsoc.org/>

Activities from Nov 2008-Oct 2009: All the talks in 2009 are part of the 125th Anniversary celebration.

1. Nov 20, 2008: Quantitative Analysis of network patterns in developing organs by Dr. Anne-Gaelle Rolland-Lagan, Department of Biology, University of Ottawa.
2. Dec 11, 2008: Extraction and Utilization of Cognitive Signals for Neural Prosthetic Applications, Dr. Sam Musallam, Department of Electrical and Computer Engineering, McGill University.
3. Jan 22, 2009: On the Proper Scope of Engineering in Medicine, Dr. Radu Leca, Biosign Technologies Inc.
4. Feb 05, 2009: Practical Exploitation of Energy Return in a Personal Lift Assistive Device, Dr. Joan Stevenson, School of Kinesiology and Health Studies, Queen's University.
5. Mar 13, 2009: Biomedical Engineering Networking and Career Information Event (Jointly with Carleton University's IEEE EMBS Student Club)
6. Mar 26, 2009: 'Brainspeak': Listening in on Auditory Processing of Complex Sounds, DR. Hilmi Dajani, SITE, University of Ottawa.
7. Apr 02, 2009: EMC/EMI Issues in Biomedical Research, Dr. Ji Chen, Univeristy of Houston (Jointly with EMC and AP/MTT Chapters)
8. May 13-15, 2009: 2nd Annual Carleton Cell BE Programming Workshop "The Cell BE in Biomedical Informatics", Carleton University
9. Sep 14, 2009: Fracture Repair of the Aging Skeleton, Dr. Hanspeter Frei, Department of Mechanical and Aerospace Engineering, Carleton University
10. Sep 16, 2009: A Quantitative Measure for the Separation of Neurological and Neurodegenerative Disorders, Dr. Brian Lithgow, Monash University, Australia.
11. Sep 28, 2009: From Innovation to Commercialization - Lessons while Bootstrapping a Healthcare Software Company, Mr. Jay Lawrence, Infonium inc.
12. EMBS Chapter will be co-sponsoring SMART ARM 2009 Workshop on Nov 12-13, 2009 with IMS and RL Chapters.

IMS - Instrumentation and Measurement Society

Chair - Voicu Groza - vgroza@ieee.org

Vice Chair - Branislav Djokic - branislav@ieee.org

Ottawa IMS Chapter <http://ottawa.ieee.ca/ims/>

The following activities were organized by IMS:

1. Oct 21, 2008: DC and AC Programmable Josephson Voltage Standards: Applications, Achievements and Limitations, Dr. Alain Rufenacht.
2. Sep 14, 2009: Haptic Cooperation over Fast Networks, Dr. Daniela Constantinescu.

IMS Chapter will also be organizing SMART ARM 2009 Workshop from Nov 12-13, 2009 along with EMBS and RL Chapters.

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LEOS - Photonics Society

Chair - Kexing Liu - Kexing.liu@ieee.org

Vice Chair - Sherif Sherif - Sherif.Sherif@ieee.org

Ottawa LEOS Chapter <http://ottawa.ieee.ca/leos/>

1. October 24, 2008,: Symposium on Recent Advancements in Photonics (Sponsors OPRA, OPIN-OPC, NRC)
 - (1) LEOS Distinguished Lecturer: "Coupling Dynamics in Semiconductor Lasers and Applications to Self-Mixing Interferometry", Silvano Donati, Universita Pavia, Italy
 - (2) Invited Speaker: "Applications of Slow and Stopped Light", John C. Howell, University of Rochester, USA
 - (3) LEOS Distinguished Lecturer: "Optical and Electronic Signal Processing for Fiber-Optic Communications", John C. Cartledge, Queen's University, Canada
 - (4) LEOS Distinguished Lecturer: "Semiconductor Lasers and Chaotic Cryptography", Silvano Donati, Universita Pavia, Italy
2. March 19, 2009: Symposium on Advanced Technologies
 - (1) Control Society Distinguished Lecturer: "Compensation of Long Input Delays for Unstable Nonlinear and PDE Systems", Miroslav Krstic, Sorenson Distinguished Professor and Director of the Center for Control Systems and Dynamics at UC San Diego, USA
 - (2) Invited Speaker: "40 Gb/s and 100 Gb/s Coherent Modems", Kim Roberts, Nortel, 3500 Carling Ave, Ottawa, Ontario, Canada

This event was sponsored jointly by IEEE Reliability Ottawa Chapter, IEEE ComSoc/BTS Ottawa Chapter, IEEE LEOS Ottawa Chapter, IEEE CS Ottawa Chapter, and Algonquin College Student Branch.

3. May 12, 2009, Technical Meeting – Special Celebration of IEEE 125 Anniversary. Invited Speaker: "The Role of Photonics in In-Vitro Diagnostics", Ino Alavie, President and CEO, NOVX Systems Inc., Markham, Ontario, Canada (Sponsored by OPIN-OPC)
4. May 21, 2009, Technical Meeting Invited Speaker: "Microelectronics Reliability: It's evolution from Military to Commercial Requirements", Ray Haythornthwaite, Independent Consultant, Ottawa, Ontario, Canada. This event was sponsored jointly by IEEE Reliability Ottawa Chapter, IEEE ComSoc/BTS Ottawa Chapter, IEEE LEOS Ottawa Chapter, IEEE AESS Ottawa Chapter, IEEE P/MTT Ottawa Chapter, IEEE CS Ottawa Chapter, and Algonquin College Student Branch.
5. Chapter also organized student paper competition : IEEE Photonics Society (LEOS) Ottawa Chapter Annual Student Paper Competition. IEEE Photonics Society Ottawa Chapter is pleased to announce the winner of the "2009 IEEE Photonics Society (LEOS) Ottawa Chapter Student Paper Competition"; Chao Wang of University of Ottawa. His paper "Simultaneous optical spectral shaping and wavelength-to-time mapping for photonic microwave arbitrary waveform generation" is an excellent representation of high quality research and technology advancement. Congratulations, Chao Wang!. The award will be presented at the IEEE PS Ottawa Chapter Symposium on Advancements of Photonics to be held on Friday

Oct 30 at the Auditorium of M-50 in NRC. Details of the symposium will follow shortly. For more information please visit PS Ottawa chapter web site: <http://ottawa.ieee.ca/leos/>

PES - Power and Energy Society

Chair - Wahab Almuhtadi - almuhtadi@ieee.org

Vice Chair - Branislav Djokic - branislav@ieee.org

Secretary - Carl Kropp - kropcarl@aol.com

Chair - Raed Abdullah - (613) 738-5499 ext. 7216 - RaedAbdullah@ieee.org

Ottawa PES Chapter <http://www.ewh.ieee.org/soc/pes/ottawa>

PES Chapter is a very active chapter and serving its members with high discipline in organizing technical and educational seminars, symposia, and conferences. Thus much of the activities in 2009 are:

1. "Towards Development of Diagnostic Technique for High Voltage Polymer Insulated Power Cables Using the DC Polarization/Depolarization Measurements" by Dr. Mahmoud Abou-Dakka, National Research Council (NRC), Canada. Held jointly with Joint Chapter of IEEE Ottawa-Montreal Section DEIS, and EPMG of INMS/NRC on November 5, 2009.
2. Electrical Power & Energy Conference 2009 (EPEC2009) "Energy Innovation", Montreal, October 22-23, 2009 www.ieee.ca/epec09. The PES Chapter provided technical co-sponsorship.
3. "Real-Time Simulation for Smart Grids" by Dr. Peng Zhang, BC Transmission Corp., Vancouver, BC, Canada. Held Jointly with the Department of Electronics, Carleton University on September 10, 2009.
4. "Lecture on Power Distribution System" by Dr. Peng Zhang, BC Transmission Corp., Vancouver, BC, Canada. Held Jointly with the Department of Electronics, Carleton University on September 10, 2009
5. "Development of Diagnostic Measurement Techniques for Power Equipment Using Radio Sensing, Computational Electromagnetic Method and Signal Processing" by Dr. Masatake Kawada, University of Tokushima, Tokushima, Japan. Held jointly with Joint Chapter of IEEE Ottawa-Montreal Section DEIS, IEEE Ottawa IMS Chapter, Ottawa RS Chapter, and EPMG of INMS/NRC on June 5, 2009.
6. "Why Technical Writing Matters and What It Can Do for Your Career" by Kerry Surman, Algonquin College, Ottawa, Ont., Canada. Held jointly with IEEE Ottawa Educational Activities, Reliability Chapter, ComSoc/BTS Chapter, Women in Engineering Affinity Group, and Algonquin College Student Branch on May 13, 2009.
7. "Marine Renewable Energy - Growing Canada's Renewable Energy Supply" by Ms. Melanie Nadeau, P.Eng., Manager, Marine Energy, CanmetENERGY, Natural Resources Canada. Held jointly with IEEE Ottawa Section Educational Activities, Reliability Chapter, Women in Engineering Affinity Group, and Algonquin College Student Branch on April 23, 2009.
8. "Impact of Renewable Energy Resources on the Electrical Power System Stability" by Prof. Dr. Mo El-Hawary, IEEE Fellow, IEEE PES Distinguished Lecturer, Dalhousie University, Halifax, Nova Scotia, Canada. Held jointly with Reliability Chapter, IEEE Ottawa Section Educational Activities, Women in Engineering Affinity Group, and Algonquin College Student Branch on April 17, 2009.

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9. IEEE Ottawa PES Chapter has been recognized as the IEEE PES High Performing Chapter - 2008 Program Year also received \$300 award from PES Society for Timely updating and reporting of Chapter officers and activities, organizing more than 4 meetings/programs, and maintaining the Chapter website.

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

Chair - Jurek Sasiadek - (613) 520-2600 ext. 5698- jsas@ccs.carleton.ca

Ottawa RAS/CSS Chapter: www.ottawa.ieee.ca/ras_css/

1. Mar 19, 2009: Compensation of Long Input Delays for Unstable Nonlinear and PDE Systems, Dr. Miroslav Krstic (Distinguished Lecturer of IEEE Control Systems Society). University of California in San Diego.
2. Apr 21, 2009: Overview of Tracking and Data Fusion Technologies, Dr. Zhen Ding, DRDC Ottawa
3. Apr 21, 2009: HFSWR for Surveillance in Canada's 200 Km Economic Zone, Dr. Tony Ponsford, Raytheon Canada.
4. Jun 15, 2009: Homogeneous Polynomial Forms for Robustness Analysis of Uncertain Systems, Dr. Graziano Chesi, Department of Electric and Electronic Engineering, University of Hong Kong
5. Sep 22, 2009: Control of Flapping Wings Unmanned Aerial Vehicles, Dr. Krzysztof Sibilski, Department of Mechanical, Energy and Aerospace Engineering, Technical University of Wroclaw.

The CSS/RAS also advises students in MAAE Department about UAV robotic project, spacecraft robotic project and biomedical robotic applications. The CSS/RAS Ottawa members were participating and presenting many papers on IEEE robotics and control systems conferences and events.

RL - Reliability Society

Chair - Raed Abdullah - (613) 738-5499 ext. 7216 - RaedAbdullah@ieee.org

Vice Chair – Sasa Marinkov sasa.marinkov@sympatico.ca

1. Nov 12-13, 2009: SMARTARM 2009 workshop, a second in a series on non-invasive monitoring of adverse response to medication, at University of Ottawa, SITE.
2. Jun 15, 2009: Distinguished Lecturer, technical meeting: Homogeneous Polynomial Forms for Robustness Analysis of Uncertain Systems, by Dr. Graziano Chesi,
3. May 21, 2009: technical meeting: Microelectronics Reliability: It's evolution from Military to Commercial Requirements, by Dr. Ray Haythornthwaite, SMIEEE
4. Apr 17, 2009: Distinguished Lecturer, technical meeting, Impact of Renewable Energy Resources on the Electrical Power System Stability, by Dr. Mohammed El-Hawary, Fellow
5. Mar 19, 2009: Distinguished Lecturer, technical meeting, Compensation of Long Input Delays for Unstable Nonlinear and PDE Systems, by Dr. Miroslav Krstic, Fellow.

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

Chair - Balakumar Balasingam - balasing@site.uottawa.ca

Vice Chair - Yifeng Zhou - yifeng.zhou@crc.ca

Ottawa SP/OE/GRS Chapter <http://ottawa.ieee.ca/grsoesp/>

The following activities were held for this year

1. Dec 2, 2008: Overview of the Self-healing Autonomous Sensor Network (SASNet) Project, Louise Lamont, CRC
2. Mar 17, 2009: Adaptive Filtering Games for designing Reconfigurable Sensor Networks, Prof. Krishnamurty, UBC
3. Mar 19, 2009: Compensation of Long Input Delays for Unstable Nonlinear and PDE Systems, Dr. Miroslav Krstic, UC San Diego

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

Chair - Jean Couillard, (613) 562-5800 ext. 4012 - couillard@management.uottawa.ca

Vice Chair - Alfredo Herrera - alfredo.herrera@ieee.org

Ottawa TM/PCS/SSIT Chapter <http://ottawa.ieee.ca/tm pcsit/>

The following activities were held this year:

Oct 13, 2009: UN and IEEE Humanitarian Technology Challenge , Alfredo Herrera, Nortel Networks.

VTS - Vehicular Technology Society

Chair - Hugh Reekie - (613)728-5343 (day & evg) - h.reekie@ieee.org

Vice Chair - Isaac Ginsburg - iginsburg@sympatico.ca

Ottawa VTS Chapter <http://www3.bell.net/max-com/ottawa.vts.html>

1. Mar 21, 2009: Tour - Vintage Wings Canada Aircraft Collection, Gatineau Airport
2. May 19, 2009: Tour - Ottawa Traffic Control Centre, Ottawa

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Affinity Groups

AICN - Alliance of IEEE Consultant Network

Vice Chair - Abhay Raman - abhayraman@ieee.org

Vice Chair - Barry De young - barry.deyoung@ieee.org

For more information on AICN, please contact: abhayraman@ieee.org

AICN will organize a series of seminars in November and December of this year.

GOLD - Graduates of the Last Decade

Chair - Anissa Shaddy - anissa@ieee.org

Ottawa GOLD Website <http://ewh.ieee.org/r7/ottawa/gold/2008/index.html>

GOLD Activities October 2008 – September 2009:

1. 29 Mar 2009: Everything They Never Taught You in School About Money, Robyn Glazer, Investors Group, Joint event with Algonquin SB.

Description: Ms. Glazer presented a lecture that provided an introduction to personal financial management. Pop and pizza were provided free for members and a fee of \$2 was charged to non members.

2. Jun 18, 2009: Charting the Right Course: Successfully Navigating Challenging Markets is the Key to Reaching your Financial Goals, Robyn Glazer, Investors Group. Joint event with Algonquin SB.

Description: Ms. Glazer presented a lecture that provided an explanation of the current market situation and an overview of historical trends in the market. Pop and pizza were provided free for members and a fee of \$2 was charged to non members.

3. Jul 10, 2009: STEP Graduation Party

Description: New graduates from 2009 were welcomed to GOLD with a free dinner and custom made graduation cupcakes. An informal discussion provided an introduction to GOLD, member benefits and future events.

4. Aug 15, 2009: BBQ with Student Branches. Joint event with Carleton University and University of Ottawa Student Branches.

Description: This event was a meet and greet between GOLD and the new executive teams from the student branches.

5. Aug 22, 2009: Annual BBQ

Description: GOLD invited its members to an annual BBQ at the beach. Attendees enjoyed summer sports and card games. Feedback about future event ideas and past events was collected. Food and refreshments were provided free of charge to all members.

6. Other – student events

GOLD participated in IEEE Connects! 2009 and Battle Royale by providing mentorship to the student branches and presenting an introduction to GOLD to student members at the event.

LM - Life Member

Chair - David Coll - dccoll@ieee.org

Vice Chair - John Wilson - jamwilso@allstream.net

1. The Life Member Affinity Group will sponsor a Section Lecture in celebration of the IEEE 125th Anniversary on November 4, 2009. The topic will be "The History of IEEE Member Contributions to Science and Engineering in the Ottawa Area". The speaker will be Life Fellow Dr. David Coll, Professor Emeritus, Carleton University.
2. The Life Member Affinity Group will also present a short lecture on "The History of IEEE Member Contributions to Science and Engineering in the Ottawa Area" at IEEE PS Ottawa Chapter Symposium on Advancements of Photonics to be held on Friday, Oct. 30, 2009 and at the AGM on 20 Nov. 2009.

WiE - Women in Engineering

Chair - Jennifer Ng (S'91 M'95 SM'07) - jng@ieee.org

Vice Chair - Carolyn MacIsaac - Carolyn.MacIsaac@algonquincollege.com

Ottawa WiE Website <http://ieee.org/go/ottawa-wie> or <http://ottawa.wie.ca/wie> (new!)

The IEEE WIE Ottawa chapter is our local affinity group of the IEEE Women in Engineering Committee (WIEC) that is dedicated to important issues for Women Engineers.

In May 2009, Jennifer Ng was appointed as the WIE Ottawa Chair. She was one of the founders of the Region 1 New Hampshire WIE chapter and as the first WIE NH Chair, has prior experience in organizing quality events for WIE. The website was revamped recently in September and there are many interesting events planned for the next six months.

Summary of activities in 2009:

In April, WIE Ottawa and IEEE Ottawa were sponsors to the Jane Goodall event "Reason for Hope". It was a great honour to have such a well-known personality as Jane Goodall to share her thoughts and great wisdom with us in Ottawa. In May, WIE Ottawa executives and key members went to Montréal to support the TISP (Teacher-In-Service) Region 7 event and also co-sponsored a technical talk on technical writing along with Educational Activities, Power Engineering Society, Communication and Broadcast technology societies and Algonquin College student branch. Recently WIE sponsored a new event called Book Club Session whereby speakers are invited to review books following a pertinent theme. Our first theme was Career Management. This first event was so successful and well-received that we plan to have a few more sessions in the coming months. WIE plans to resume the year with another grand event for women engineers and scientists: the book launch of our very own IEEE WIE Senior Member, Dr. Monique Frize's first book, "The Bold and The Brave." We will be hosting this event jointly with WISE Ottawa and uOttawa Press.

Watch the Events section in our website or email us to be on our mailing list.

As you renew your IEEE membership for next year, I would like to encourage you to add WIE membership (only \$25USD/year). Recent surveys indicated that over 25% of WIE membership is male. They responded that while they did not require direct services from WIE, they paid the dues in order to support the women in the profession and also the women in their lives who consider/will consider engineering as a career.

For more information on WIE Ottawa and events, please visit our website, or contact Jennifer Ng, jng@ieee.org.

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Student Branches

[Algonquin College](#) ieee@algonquincollege.com

Chair – Patrick Couture – cout0009@algonquincollege.com

Vice Chair - Andrew Jacques - jacq0035@algonquincollege.com

Faculty Advisor – Abdul Al-Azzawi – alazaa@algonquincollege.com

Past Faculty Advisor - Wahab Almuhtadi - almuhtadi@ieee.org

IEEE Algonquin College Student Branch <http://algonquin.ieee.ca/>

Algonquin branch is expanding and focusing on increasing membership. The branch held the following activities jointly with other society chapters:

1. Jan 24-25, 2009: Battle Royale LAN Party!, Organized by: IEEE Carleton Student Branch, IEEE UOttawa Student Branch, and IEEE Algonquin Student Branch.
2. Feb 27, 2009 : Student Branch: IEEE Connects! 2009, Organized by: IEEE Carleton Student Branch, IEEE UOttawa Student Branch, and IEEE Algonquin Student Branch
3. Mar 19, 2009: Compensation of Long Input Delays for Unstable Nonlinear and PDE Systems
4. Mar 24, 2009: Everything They Never Taught You in School about Money, Organized by: IEEE Ottawa GOLD, and IEEE Algonquin Student Branch
5. Mar 26, 2009: Eastern Ontario Student Paper Competition - 2009: Participating students came from Algonquin College, Carleton University, Royal Military College (RMC), and Queens University. Competition held at RMC.
6. Apr 17, 2009: Impact of Renewable Energy Resources on the Electrical Power System Stability, Organized by: IEEE Ottawa PES, and IEEE Algonquin Student Branch
7. Apr 23, 2009: Marine Renewable Energy - Growing Canada's Renewable Energy Supply, Organized by: IEEE Ottawa PES, and IEEE Algonquin Student Branch
8. May 13, 2009: Why Technical Writing Matters and What It Can Do for Your Career, Organized by: IEEE Ottawa PES, and IEEE Algonquin Student Branch
9. May 21, 2009: Microelectronics Reliability: It's evolution from Military to Commercial Requirements, Organized by: IEEE Ottawa Reliability Ottawa Chapter, IEEE ComSoc/BTS Ottawa Chapter, and IEEE Algonquin Student Branch.

10. Jul 15, 2009: Converged Services and New Generation of Networking . Organized jointly with Com Soc/BTS Chapter and IEEE Algonquin Student Branch.

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Carleton University ieee@doe.carleton.ca

Chair - Jieyi Rong - jieyi.rong@ieee.carleton.ca

Faculty Advisor - Calvin Plett - cp@doe.carleton.ca

IEEE Carleton University Student Branch <http://www.ieee.engsoc.org/>

IEEE EMBS Carleton University Student Club <http://www.embs.engsoc.org/>

The following were the events successfully run by the student branch at Carleton University.

1. Connects! 2009
2. Battle Royale II & III FPGA contest fall 2008/winter 2009
3. Fourth year Paper Competition
4. CodeJam winter 2009
5. Summer BBQ
6. Executives training session
7. Executive weekend at Mont. Tremblant
8. WIE picnic
9. WIE info session
10. WIE Book Club
11. IEEE Extreme 2009 Oct
12. GoEng Girls 2009 Oct

University of Ottawa sb.uottawa@ieee.org

Chair - Sarah Tolledo - sarah.tolledo@ieee.org

Faculty Advisor - Shervin Shirmohammadi - shervin@site.uottawa.ca

IEEE Ottawa University Student Branch <http://www.ewh.ieee.org/sb/ottawa/uottawa/>

The uOttawa IEEE Student Branch had a very successful 2009 year, hosting a number of social and academic – events. The details of our activities from the beginning of 2009 are as follows:

Januarys 2009:

- Battle Royale 2
- IEEE Connect 2009

February 2009:

- Tech venture challenge info session: a information section about tech venture challenge Ottawa's most prestigious competition for encouraging post-secondary students to act on their innovation ideas. [TOP](#)

March 2009:

- Retro gaming competition: A gaming competition where teams of two students would play video games that had been selected at random.
- Code Jam: First annual programming competition, student where given four hour to solve various programming problems
- Mess vs IEEE vs ARISE : A friendly building competition between the University of Ottawa Mechanical student society, the Advance Robotics and Innovations Society in Engineering and the IEEE student branch. The challenge was for the IEEE and MESS to build a small toy car that was controlled by a Java Sun spot to autonomous run away from a toy car that Arise hand modified.
- AGM: Annual general meeting were we reviewed all activities that where done this year as well as finical standing of the branch

June 2009:

- Volunteer appreciation night : A social event where e invited all volunteers from 2008-2009 to local bar for a bit of free food and drink. A way to say thank you to all volunteers for their hard work.

September 2009:

- Faculty Scavenger Hunt : The University of Ottawa requested that we do a scavenger hunt that involved finding important location so new student could get familiar with the different engineering build at the - University of Ottawa. We also had a booth present so students could learn about the IEEE and the student branch.
- Association day: A full afternoon of Activities that included: BBQ, Games, including a dunk tank!, Meet and greet with Professors, and IT sub-association introductions and presentations.
- IEEE Meet and great: An event were the IEEE student branch gave out free coffee, and cookies and student had an opportunity to meet this year executes and learn about the IEEE and events being done this year.
- La Masion Entertainment Event: This was a social event which was hosted a local student pub where student could come in get a drink or food and play video games on a projector or socials.

October 2009:

- Battle Royale 3
- Eclipse Boot camp: An night were we listen to the development industries best and brightest including: Introduction to Eclipse Mylyn by Wayne Beaton, Eclipse CDT and developing for Android by Doug Schaefer, and Introduction to Eclipse e4 by Boris Bokowski.
- Humanitarian technology challenge presentation
- Human vs Infected: Is a game (tag variant) where the Zombies (Infected) can tag (infect) Humans to convert them to their kind. This will take place the week before Halloween. At the end there will be prize for different achievement that were done in the game.
- Halloween Party: A costume part that will be held on Halloween. Will also be the place where the award for Human vs infected will be awarded.
- C++ crash course: IEEE student members will be holding a crash course on C++ programming available to all

students.

- Lunch with visitors from IEEE École Polytechnique de Montréal student branch.

November 2009:

- Movie Night: Show an older scientific movie
- Programming competition: Student will be given four hour to solve various programming problems.

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Teacher-In-Service-Program (TISP)

Chair – Jennifer Ng jng@ieee.org

Vice Chair – Rosalyn Seeton – seeton@ieee.org

Website <http://ieee.org/go/ottawa-tisp> NEW!

In May 2009, the Montréal Section hosted the Region 7 (Canada) TISP event where over 100 volunteers and educators from all over Canada came to learn about this IEEE EAB (Education Activities Board) initiative and learn how to run workshops with educators with lesson plans from TryEngineering.org. Following the event, Jennifer Ng was appointed as the TISP Champion for Ottawa. The role of the TISP Champion will be the point person when discussing any TISP activities for the Ottawa Section. share their skills, time and knowledge for workshops with teachers in Ottawa. In turn, the volunteers will be organized in teams to support workshops with educators. Until May 2010, the IEEE EAB will support the Section financially for the workshop kits. The targeted audience for TISP Ottawa is as follows:

- French Catholic School Board (CECLF)
- English Catholic School Board (OCCDSB)
- French Public School Board (CEPEO)
- English Public School (OCDSB)
- Canadian Montessori Academy (CMA)

CALL FOR VOLUNTEERS: For TISP Ottawa to be a success, we need many volunteers to support the workshops with the educators. If interested, please check the website for more information and send an email to Jennifer Ng, jng@ieee.org. A meeting/workshop for volunteers is planned before the end of the year 2009.

For more information about TISP Ottawa and proposed workshop dates, please visit our website, or contact Jennifer Ng, jng@ieee.org.

Section's E-Communications

Web: <http://ottawa.ieee.ca/publications.html>

The Ottawa Section website is available at <http://ottawa.ieee.ca> and provides you with contact information and details on the Section's organization.

Newsletter: The current news and upcoming events in Ottawa Section are available on the Section's events page at <http://ottawa.ieee.ca/news/>. We also announce our news and upcoming events via email to the IEEE members in the Ottawa area. You can make sure that you receive our e-newsletter by keeping your IEEE profile up to date (see below). For more information about our newsletter visit:

<http://ottawa.ieee.ca/news/about.html>.

Contact: ottawanews@ieee.org

Updating Your IEEE Profile: You can update your contact information at IEEE using one of the following options:

IEEE Web Contact Update <http://services1.ieee.org/membersvc/coa/intro.htm>

By phone: +1 732 981 0060

By mail: IEEE, 445 Hoes Lane, PO Box 1331, Piscataway, NJ 08855-1331 USA

By fax: +1 732 562 5445

IEEE Email Alias with Virus Scanning: We strongly recommend to all members to use the email alias service.

With the help of this service you stay better connected even when you change your email address. It is free for members and is easy to acquire, remember, and update. Visit: <http://elecomm.ieee.org/>. [TOP](#)

IEEE Ottawa Executive 2009

The current IEEE Ottawa Section executive officers are as following:

- Chair: **Mr. Raed Abdullah, P.Eng.** raedabdullah@ieee.org
- Vice-Chair: **Dr. Sreeraman Rajan,** sreeraman@ieee.org
- Treasurer: **Dr. Rami Abielmona, P.Eng. -** rabiemo@ieee.org
- Secretary: **Ms. Carolyn MacIsaac,** Carolyn_macisaac@ieee.org
- Past Chair: **Dr. Wahab Almuhtadi, P.Eng.,** almuhtadi@ieee.org

For a complete list of the Ottawa section officers please visit: <http://ottawa.ieee.ca/officers.html>

IEEE Ottawa Elections 2010

The Section officers proposed by the Nomination Committee for the Ottawa Section Executive in 2010:

- Chair: **Mr. Raed Abdullah, P.Eng.** raedabdullah@ieee.org
- Vice-Chair: **Dr. Sreeraman Rajan,** sreeraman@ieee.org
- Treasurer: **Dr. Rami Abielmona, P.Eng. -** rabiemo@ieee.org
- Secretary: **Ms. Carolyn MacIsaac,** Carolyn_macisaac@ieee.org
- Past Chair: **Dr. Wahab Almuhtadi, P.Eng.,** almuhtadi@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 Committee Chair Wahab Almuhtadi <almuhtadi@ieee.org> no later by Nov. 1, 2009.

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

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List of 2009 Executives

The following table presents a list of our chapters and groups. To find out more about them and their activities please visit <http://ottawa.ieee.ca/officers.html>.

CHAPTERS:		
CHAPTER	CHAIR	URL
AESS	Hugh Reekie, h.reekie@ieee.org	http://members.allstream.net/~max-com/ottawa.AESS.html
AP/MTT	Quibo Ye, quibo.ye@crc.ca	http://www.ottawa.ieee.ca/ap_mtt/home/
BTS/ComSoc	Wahab Almuhtadi, almuhtadi@ieee.org	http://ottawa.ieee.ca/comsoc/
Computer	Rami Abielmona - rabielfmona@ieee.org	http://ottawa.ieee.ca/cs/
CI	Nizar Sakr, nsakr@site.uottawa.ca	http://ottawa.ieee.ca/ci/
CPMT	Qi-jun Zhang, qjz@doe.carleton.ca	http://ottawa.ieee.ca
DEIS	M. Abou-Dakka, Mahmoud.Abou-Dakka@nrc.ca	http://ottawa.ieee.ca
EDS/CAS/SSCS	Ram Achar, achar@doe.carleton.ca	http://ottawa.ieee.ca/eds_cas_sscs/
EMCS	Syed Bokhari, bokhari@ieee.org	http://ottawa.ieee.ca
EMS	Jean Couillard, couillard@management.uottawa.ca	http://ottawa.ieee.ca/ems/
EMBS	Sreeraman Rajan, sreeraman@ieee.org	http://ottawa.ieee.ca/embs/
IMS	Voicu Groza, vgroza@ieee.org	http://ottawa.ieee.ca/ims/
LEOS	Kexing Liu, kexing.liu@ieee.org	http://ottawa.ieee.ca/leos/
PES	Wahab Almuhtadi, almuhtadi@ieee.org	http://www.ewh.ieee.org/soc/pes/ottawa/
RS	Raed Abdullah, RaedAbdullah@ieee.org	http://ottawa.ieee.ca
RAS/CSS	Jurek Sasiadek, jsas@ccs.carleton.ca	http://ottawa.ieee.ca
SP/OE/GRS	Balakumar Balasingam, balasing@site.uottawa.ca	http://ottawa.ieee.ca/grsoesp/
VTs	Hugh Reekie, h.reekie@ieee.org	http://members.allstream.net/~max-com/ottawa.vts.html
COMMITTEES:		
COMMITTEE	CHAIR	URL
AGM Planning	Sreeraman Rajan, sreeraman@ieee.org	http://ottawa.ieee.ca

Awards	Wahab Almuhtadi, almuhtadi@ieee.org	http://ottawa.ieee.ca/awards.html
Bylaws	Branislav Djokic, branislav@ieee.org	http://ottawa.ieee.ca/bylaws.html
Communications/ Publications	Mohammed Elbadri, melbadri@ieee.org	http://ottawa.ieee.ca/publications.html
Educational Activities	Branislav Djokic, branislav@ieee.org	http://ottawa.ieee.ca/ea
EiT	Bhagvat Joshi and Emilie Chen, bjoshi@ieee.org ,	http://ottawa.ieee.ca
Membership Development	Patrick Couture, cout0009@algonquincollege.com	
Nomination	Wahab Almuhtadi, almuhtadi@ieee.org	http://ottawa.ieee.ca
Robotics Competition	Mohammed Elbadri, melbadri@ieee.org	http://ottawa.ieee.ca/robotcomp/
Senior Membership	Jennifer Ng, jng@ieee.org	http://ottawa.ieee.ca

AFFINITY GROUPS:

GROUP	CHAIR	URL
AICN	Abhay Raman abhayraman@ieee.org	
GOLD	Anissa Shaddy - anissa@ieee.org	http://ottawa.ieee.ca/gold/
Life Member	David Coll, dccoll@ieee.org	http://ottawa.ieee.ca
WiE	Jennifer Ng, jng@ieee.org	http://ottawa.ieee.ca/wie/

STUDENT BRANCHES:

BRANCH	CHAIR	URL
Algonquin College	Patrick Couture, cout0009@algonquincollege.com	http://ewh.ieee.org/sb/ottawa/algonquin/
Carleton University	Jieyi Rong - jieyi.rong@ieee.carleton.ca	http://www.ieee.engsoc.org/v2.0/
University of Ottawa	David Gonzalez, dgonz035@uottawa.ca	http://www.genie.uottawa.ca/~ieee/

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