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IEEE OTTAWA NEWSLETTER - October 2012

Email: ottawanews@ieee.org

Editor: Ahmad Abdo

Email: aabdo@ieee.org

News Submission: write an email to the editor as per the adopted format

IEEE Ottawa Section Website: <http://ottawa.ieee.ca/>

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A. IEEE Ottawa Section News & Events

1- IEEE Ottawa Section Annual General Meeting & Dinner October 19, 2012

This is an official announcement that the IEEE Ottawa Section AGM will be held on Friday, October 19, 2012, in Ottawa, and that the call for nominations is open to the IEEE Ottawa Section membership.

The IEEE Ottawa Section Nominations and Appointments Committee proposes the following nominees, whom have agreed to serve if elected, as the 2013 IEEE Ottawa Section Executive Slate:

- Mr. Rami Abielmona, Ph.D., , P.Eng., Chair
- Mrs. Janet Davis, Vice-Chair
- Mr. Eric Karmouch, Ph.D., Secretary
- Mr. Jeffrey Arcand, Treasurer

The AGM will begin at 5:30PM (reception at 5:00PM) and be followed by Dinner (6:30PM) with a keynote speaker Senator Mac Marb, then entertainment by The Cowguys (Orbital Talent). Program and location details will follow under separate cover.

That information is posted on the section website at: www.ieeeottawa.ca/agm2012

Also, the call for awards - business and individual - nominations is open.

The details and the forms are available at: <http://www.ieeeottawa.ca/publications/awards>.

The deadline is October 10, 2012.

Sincerely,

Raed Abdullah, P.Eng., SMIEEE
Chair, IEEE Ottawa Section Nominations and Appointments

and

Wahab Almuhtadi, P.Eng., SMIEEE
Chair, IEEE Ottawa Section Awards Committee

2- The 03b Satcom System: Connecting to the Other Three Billion

Speaker: Neville Miller

Date/Time: Wed 24 Oct 2012, 7.30 - 9.30pm

Location: The Crowsnest, Naval Officer's Mess, 78 Lisgar St., Ottawa

Parking: On-street. arrive using Cartier St.

Registration: Pre-registration appreciated but not obligatory

Organizer: Hugh Reekie

Organizer e-mail: h.reekie@ieee.org

Organized by: Ottawa IEEE-AESS Chapter & IET-UK Ottawa Local Network

Url: <http://www3.bell.net/max-com/ottawa.AESS.html>

Abstract: Using non-geostationary lower satellite orbits, the transit-time latency is reduced.

These Ka-band satellites offer a cost-effective alternative for some specific communications needs.

Nev Miller will describe the 03b system, which emb

faces some novel ideas to meet the special needs

3- Software Barriers to Research in Emergent Behavior

Speaker(s): Dr. David Fisher, Distinguished Visitor Program - DVP

Date/Time: Thursday November 15, 2012 at 1pm.

Location: SITE 5084, SITE Building, University of Ottawa

Parking: Parking fees apply.

Registration: Free to attend, but registration is required. To ensure a seat,

please register by contacting Eric Karmouch (ekarmouch@ieee.org).

Organizer: Eric Karmouch

Organizer e-mail: ekarmouch@ieee.org

Organized by: Ottawa Section Computer Society Chapter

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

Abstract:

Emergent behaviors are pervasive, but poorly understood, phenomena in many fields including physics, biology, and the social sciences.

They include cascade effects, epidemics, phase transformations, dissipative structures, and spontaneous synchronization.

Emergent properties are irreducible to properties of their

constituents, but instead arise from interactions among their constituents.

Agent-based modeling and simulation are essential to research in emergence,

but are impaired by limitations inherent in current software methods and languages.

This presentation proposes a new property-based pro

gramming paradigm that overcomes
not only barriers to emergent research but to accuracy,
reusability, and expressiveness in many computing domains.

4- A Visit to see a Canadian SmallSat under Test - at the CSA's David Florida Laboratory

Speaker : Charlie Gaier - our host

Date/Time: 2 - 3.30 pm Tuesday, 23rd October 2012

Location: Communications Research Centre, Carling Ave

Parking: on-site, after sign-in at Guard House

Registration: by email to Hugh Reekie; cut-off is 5 Oct.

Organizer: Hugh Reekie

Organizer e-mail: h.reekie@ieee.org

Organized by: AEISS Ottawa Chapter

Url: <http://www3.bell.net/max-com/ottawa.AEISS.html#D>
FL.visit.Oct%202012

Abstract: The IEEE is privileged to have a tour the
Canadian Space Agency's

David Florida Laboratory, which is part of the Communications Research Centre

complex, Carling Ave. The NEOS-Sat is scheduled to be there for its test program.

Also the M3M-Sat is scheduled to arrive on 8 Oct for 60 days of testing.

There is no guarantee that both birds will be visible - Thermal Vac, Anechoic Chamber etc,

may prohibit - but there is a likelihood that at least one will be on show. The tour party

is limited to 16 persons. Prior registration is a requirement.

5- Battle Royale VI

Date/Time: November 3, 10:00 to November 4, 10:00
Location: Norm Fenn Gymnasium, Carleton University
Parking: \$2/day (two days)
Registration: www.battleroyale.ca/br6
Organizer: IEEE Ottawa Student Branches
Organizer e-mail: organizers@battleroyale.ca
Organized by: IEEE uOttawa, IEEE Carleton University, IEEE Algonquin College
Url: www.battleroyale.ca/br6

Abstract: Battle Royale VI is a LAN party that will include many computer games and gaming console tournaments. The event lasts a full 25-hours over the daylight-savings-change weekend. The goal of Battle Royale is to bring together future engineers and computer scientists across the Ottawa Region to share their gaming passion in a relaxed environment. Hosted on the lovely 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 disciplines as well. Battle Royale offers a unique opportunity to companies to expose themselves to over two hundred engineering and computer science students from the University of Ottawa, Carleton University, Algonquin College, and many other schools. As in the past, we will be donating all profits made to the Child's Play charity at CHEO.

6- Interoperability and Interference in Modern Railway Systems and its Instrumentation & Measurement Implications

Speaker: Dr. Andrea Mariscotti, Professor, University of Genova, Italy

Date: Friday, October 5, 2012

Time: 6:30 pm Refreshments, Registration and Networking, 7:00 pm- 8:30 pm Seminar.

Place: Algonquin College, 1385 Woodroffe Ave., School of Advanced Technology, P-Building, Room P210.

Parking: No fee after 5:00 p.m. at the Visitors' Parking Lots 8 (green) & 9 (red).

Please respect restricted areas. Map: to view the map, [click here](#).

Admission: Free, but registration is strictly required. please register by e-mail

contacting: Branislav Djokic or Waha b Almuhtadi or Raed Abdulla

Organized by: IEEE Ottawa PES, IMS and RS&PEL Chapters, Ottawa Educational

Activities, and Algonquin College IEEE Student Branch

Url: <http://www.ewh.ieee.org/soc/pes/ottawa>

Abstract: The seminar will provide a review of the architecture and

elements of an electrified transportation system, including: AC

distribution and connection to the high voltage primary network,

substations and other machines (transformers), traction line and its

characteristics (imperfections, frequency response, etc.), trains and

vehicles as moving, time varying, highly distorting loads. Power Quality

phenomena will be covered: definitions and relationships with similar

phenomena in the industrial sector: harmonics, inter-harmonics, flicker,

voltage fluctuations, transients, stability of the fundamental frequency; applicable standards and requirements; methods for measurement and evaluation. Other relevant phenomena, such as interference with safety apparatus (signalling and telecommunications); applicable standards and requirements, evolution of the European harmonization standards; methods for measurement and evaluation will be addressed as well. Measurement systems and processing methods will be discussed, including probes and acquisition systems, their measurement performance, requisites, utilization criteria; examples of algorithms and results: i) stability of the fundamental frequency, ii) spectra of transients, iii) time varying harmonics and their tracking, iv) assessment and certification of rolling stock or single power converters; challenges and perspectives for measurements in the transportation field: i) wireless instrumentation, ii) networking of sensors, iii) need for unusual performances and functionalities

7- ROUTES TO SUCCESS IN ACADEMIC RESEARCH: A PERSONAL PERSPECTIVE

Speaker: Prof. John Bandler , Life Fellow, IEEE, Fellow, Royal Society of Canada, Fellow, Canadian Academy of Engineering
Department of Electrical and Computer Engineering,
, McMaster University, Hamilton, Ontario, Canada
Date/Time: Wednesday, Oct. 3, 2012 ; 2:30pm - 4pm

Location: Room UC282, University Center, Carleton University, Ottawa, K1S5B6
Parking: Meters
Registration: Free
Organizer: Ram Achar
Organizer e-mail: achar@doe.carleton.ca
Organized by: (chapters, branch...) : Carleton University, Faculty of Engineering and Design (FED), Department of Electronics (DoE), IEEE Ottawa Section, CAS/EDS/SSC, CPMT, AP/MTT, EMBS, EMC, CI/SMCS, SP/OE/GRS, WiE and LMA Chapters
Url: <http://www.doe.carleton.ca/seminars/index.php>

Abstract: When you hear the words MIT, Berkeley, Harvard, Cambridge or Oxford, what associations spring to mind: innovation, privilege, influence, envy, pride, or the Nobel Prize winners on the faculty?

All communities are interested in the success of their local academic institutions. Concerns extend far beyond the walls of the institutions: like the stature of the faculty, the quality of the students, the value of the education, the impact of the institution's research, and the ability of the institution to attract leading faculty, good students, and sufficient research grants.

What promotes successful research? Is it available facilities, imagination, opportunity, leadership, IQ, charm, packaging, or good luck? How can you measure success? Is it by the number of enrolled students, the size of the team, the number of publications, t

he volume of citations,
the size of the budget, the awards received, the number of fellowships
gained in learned societies?

It may seem surprising how much of one's recognition in a field of
endeavor is attributable to the subjective perception of others. So, in
addition to the specifics of advanced research in academia, this talk
includes issues of impressions and subtext that are essential to human
behavior and discourse. Researchers must learn to navigate the minefield
of ethics, over-exposure, secrets, confidentiality agreements, contracts,
collegial envy, and more.

Beware of "experts" who claim to see no future in your proposed research.
And, rather than taking that well-trodden path and being instantly
understood and accepted, you should follow your pioneering instinct even
if you find yourself initially ridiculed and rejected.

In suggesting ways of inspiring and managing successful research, I draw
on personal successes and failures in both my technical and non-technical
domains.

8- "Green RFID": an enabling technology towards the Internet of Things (IoT) world

Speaker(s): Dr. Luca Roselli

Date/Time: 2:30 pm - 4:30 pm., Thursday, October 18

, 2012.

Location: Carleton University, Department of Electronics (DoE),

Mackenzie Engineering Building, Room ME 4124, 1125 Colonel By

Drive, Ottawa, Ontario, Canada.

Parking: Parking fees apply

Registration: Free but required. To ensure a seat, please contact Qingsheng Zeng (qingsheng.zeng@crc.gc.ca)

Organizer: Dr. Qingsheng Zeng

Organizer e-mail: qingsheng.zeng@crc.gc.ca

Organized by: (chapters, branch...) IEEE Ottawa Antennas and Propagation

Society and Microwave Theory & Techniques Society (AP/MTT) Joint Chapter,

Electromagnetic Compatibility (EMC) Chapter, Electron Devices Society,

Circuits and Systems Society, and Solid-State Circuits Society

(EDS/CAS/SSCS) Joint Chapter, Components, Packaging and Manufacturing

Technology (CPMT) Chapter, Computer Society (CompSoc), Engineering in

Medical and Biology Society (EMBS) Chapter, Instrumentation and

Measurement Society (IMS), Joint Chapter of the Technical Management

Council, Professional Communications Society, and Society on Social

Implications of Technology (TMC, PCS & SSIT), Life Member Group (LM),

Engineer in Transition Activities (EiT), IEEE Ottawa Section (OS), and

Department of Electronics at Carleton University (DoE Carleton).

Abstract: A brief description of the present and future scenario

correlated to ICTs will be illustrated. Environmental implication of

present societal and technological trends will be a

nalyzed in order to address the most important and relevant issues. On the basis of this analysis, RFID, as an enabling approach compatible with the described scenario, will be introduced and motivated. Future environmentally friendly technologies and architectures, suitable for "green RFID" implementation, will be introduced, namely: paper printed circuits, organic materials, chip-less tag, harmonic RFID, ultrasonic sensor nodes, CNT based RFID gas sensors and so on. Some application proposals will be reported in order to illustrate the groundbreaking vision enabled by "green RFID" approach; in particular it will be shown the potentiality of the "green RFID" technologies toward the development of a new concept of indoor localization systems and assisted paths as well as the capability of massive use of green RFID tags for extensive monitoring and for measurements in harsh environments where high numbers of wireless sensors is needed without the possibility to recover them. These example applications will be used to draw final considerations about future developments, challenges and perspectives.

B. IEEE News

1. Senior Member Elevation

The following Ottawa members were elevated to Senior Member grade in September 2012.

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IEEE Senior Member Program Page:
<http://www.ieee.org/web/membership/senior-members/index.html>

For details and updated news about Senior Membership elevation in Ottawa,

visit IEEE Ottawa Section Senior Members Page <http://ottawa.ieee.ca/sm>

2. Engineer Wellness GoodLife Fitness Corporate Program

Staying fit is the key to reducing stress, feeling healthy, increasing your energy and enjoying an excellent quality of life. Members of Engineering Institute of Canada (EIC) Societies, which includes IEEE, students and family, can access the benefits of exercise and healthy living at discount of more than 55% off regular prices to GoodLife Fitness (Energie Cardio in Quebec and Nubody).

Please visit www.engineergoodlife.ca (username = eic and password = goodlife) for details.

3. IEEE Member Group Insurance Program - Life, Professional Liability, Accident, Disability and Travel

IEEE Member Group Insurance Program - Life, Profess

ional Liability,
Accident, Disability and Travel (www.ieeeinsurance.com/canada):
Regardless of employment status, these plans stay with you whether you are starting, switching or maturing in your career. As an IEEE member, you benefit from the group buying power of the IEEE membership base. Take a few minutes today to learn how these affordable plans, available exclusively to IEEE members, can help make sure you have adequate financial resources as your life changes and responsibilities grow. I think you will agree, the time invested will be worthwhile.

4. New members orientation webinars

All new higher grade IEEE members are invited to participate in a New Member Orientation Webinar session designed to help members get the most out of their membership. These live Webinars, which include a 30 minute formal presentation followed by Q&A, provide an overview of IEEE membership and access instructions for members-only benefits and services. Topics include establishing a Web account, setting up a profile on memberNet, logging into myIEEE, networking opportunities, and much more. Visit the Welcome to IEEE Web page (http://www.ieee.org/membership_services/membership/welcome.html) to register for a New Member Orientation Webinar, typi

cally held on the
fourth Thursday of each month in 2011: 24 March, 28
April, 26 May, 23
June, 28 July, 25 August, 22 September, 27 October,
22 November, and 20
December.

Webinars are held at both 9:00 AM ET and 3:00 PM ET
on each day. Please
e-mail Adrienne Hahn (a.hahn@ieee.org) for more inf
ormation.

C. Non-IEEE News and Events/Announcements

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