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IEEE OTTAWA NEWSLETTER - May 2012

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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. Evaluating Canada's energy alternatives and the place of nuclear energy among them

Speakers: Arnold Eyre, Fellow CSSE, and Don Lawson, Fellow CSSE

Canadian Society for Senior Engineers (CSSE)

Date: Thursday, May 24, 2012

Time: Refreshments, Registration and Networking: 6:00 p.m.; Seminar: 6:30 p.m. – 7:45 p.m.

Place: Algonquin College, 1385 Woodroffe Ave., P-Building, Room P214.

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.

Registration: Pre-registration required. To ensure a seat, please register

by e-mail contacting: branislav@ieee.org.

Organized by: IEEE Ottawa Educational Activities, Power and Energy Society and Reliability Society Chapters, and Algonquin College IEEE Student Branch.

Link: For details please see <http://www.ieeeottawa>

.ca/ea/ or <http://ewh.ieee.org/soc/pes/ottawa>.

2. 10th Annual IEEE Ottawa Robotics Competition

Date/Time: May 26, 2012, 9am to 5pm

Location: Longfields Davidson Heights Secondary School, Barrhaven

Parking: Free

Registration: Free

Organizer: Rob Woolley

Organizer e-mail: rcwoolley@ieee.org

Organized by: (chapters, branch...): IEEE Ottawa Section

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

Abstract: The IEEE Ottawa Section is proud to announce the 10th Annual

IEEE Ottawa Robotics Competition. The IEEE ORC aims at bringing

engineering awareness to students in grades 5 and 12 by presenting a fun

and instructive approach to problem solving.

Using LEGO Mindstorms NXT kits, the students have a round 10 weeks to

design and build an autonomous robot. In teams of five to 7, they learn

engineering concepts with the help of a mentor and come together to

produce a working prototype.

We will have 4 challenges this year: Drag Racing, Sumo, Hockey, and da

Vinci Challenge. The public is welcome to come and watch the competition.

For more information please visit <http://orc.ottawa.ieee.ca/>

3. Fifth IEEE Symposium on Computational Intelligence for Security and Defense Applications

We would like to invite you to submit Full Regular or Special Session papers to the Fifth IEEE Symposium on Computational Intelligence for Security and Defense Applications (IEEE CISDA 2012) with the theme of "Creating Intelligent Surveillance".

<http://ieee-cisda.org/>

Ottawa, Canada
11-13 July 2012

Sponsored by the IEEE Computational Intelligence Society (CIS)
Technically Co-Sponsored by the IEEE Ottawa Section, the IEEE Computer Society Ottawa Chapter and the IEEE CIS Ottawa Chapter

Important Dates:

- Special Session/Tutorial Proposals Submission: April 2, 2012
- Full Regular or Special Session Paper Submission: April 23, 2012
- Notification of Acceptance/Rejection: May 14, 2012
- Submission of Camera-Ready Submission: June 4, 2012

4. Reaching the Limits of the Physical Layer: Evolution of the Air Interface from 2G to 4G and Beyond

Speaker: Frank Rayal, BLiNQ Networks, Kanata, Ontario, Canada

Date/Time: Wed May 2nd 2012 ; Registration, Refreshments and Networking: 06:30 p.m.;

Talk: 07:00 p.m. - 08:00 p.m. Time for networking after the event.

Location: Room P215 P-Building, Algonquin College,
1385 Woodroffe Ave., Ottawa, Ontario
, Canada K2G 1V8

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

Registration: Free. Pre-Registration requested. To ensure a seat, please register by e-mail contacting:

bjoshi@ieee.org or h.reekie@ieee.org
. Please use "IEEE AICN May2 event" as Subject Line

Organizer: Bhagvat Joshi, Hugh Reekie

Organizer e-mail: Bhagvat Joshi (bjoshi@ieee.org),
Hugh Reekie (h.reekie@ieee.org)

Organized by: IEEE Ottawa Alliance of IEEE Consultants' Networks (AICN) and IEEE Ottawa Vehicular Technology Society

Contact: Bhagvat Joshi - Chair AICN, Hugh Reekie - Chair VTS

url: <http://www.ieeeottawa.ca/aicn/events/upcoming-events/rayal/>

Abstract : We all hear of the latest and greatest smartphones and networks - 2G/3G/4G/LTE and beyond, but are you curious to know how they evolved and what may be the next new interface? Frank Rayal of BLiNQ Networks/TSI will present the evolution story in this interactive presentation.

Frank brings over 18 years of experience in the wireless industry where he held leadership positions with vendors to pioneer radio access and backhaul solutions as well as to provide design ser

vices to network operators. In his current role as VP, Product Management at BLiNQ, Frank is responsible for defining scalable wireless backhaul solutions for small cell base stations. He's also principal at TS I, a management consulting firm focused on broadband wireless networks and applications. Frank held product management positions at Redline, Metawave and Ericsson. He holds a BS in Electrical Engineering from Case Western Reserve University, Cleveland, OH, and a MASc in Electrical Engineering and an MBA from the University of Toronto, Canada.

5. "Consulting as a Career"

Speaker: John Leggat, Consultant and Senior Advisor at CFN Consultants, Ottawa

Date/Time: Tues May 29th 2012 ; Registration, Refreshments and Networking: 06:30 p.m.;

Talk: 07:00 p.m. - 08:00 p.m. Time for networking after the event.

Location: T335 in T-building, School of Advanced Technology Algonquin College,

1385 Woodroffe Ave., Ottawa, Ontario, Canada K2G 1V8

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

Registration: Free. Pre-Registration requested. To ensure a seat, please register by e-mail by contacting: bjoshi@ieee.org ;

Please use "IEEE AICN May29 Event" as

Subject Line

Organizer: Bhagvat Joshi (bjoshi@ieee.org)

Organized by: IEEE Ottawa AICN (Alliance of IEEE Consultants' Networks), IEEE Ottawa EIT (Engineers in Transition) Committee

url: <http://www.ieeeottawa.ca/aicn/events/upcoming-events/leggat/>

Abstract: Dr. John Leggat is a consultant and Senior Advisor at CFN Consultants in Ottawa. Seven years ago he retired from the Public Service of Canada and joined CFN to help the partnership with the science and technology dimensions of the practice. His presentation will describe the challenges associated with a transition from the public to the private sector and the dimensions of providing consulting services to companies that are interested in winning government contracts.

He will talk about what has and what has not contributed to success the key steps in making the transition to consulting and briefly discuss what the future might hold for defence contracting in future years

6. Polarization in Fiber Optics

Speaker: IEEE PS Distinguished Lecturer, Prof. Lianshan Yan, Southwest Jiaotong University, Chengdu, China.

Date/Time: Tuesday, May 8, 2012 / 1:00pm - 3:00pm.

Location: Room CBY D207, Colonel By Hall, University of Ottawa.

Registration: Free, please send e-mail to qingsheng.zeng@crc.gc.ca to ensure a seat.

Organizer: Dr. Kexing Liu and Dr. Qingsheng Zeng

Organizer e-mail: kexing.liu@ieee.org, qingsheng.zeng@crc.gc.ca

Organized by: IEEE Photonics Society Ottawa Chapter, and IEEE Ottawa AP/MTT Joint Chapter

Url: <http://ottawa.ieee.ca/leos>

Abstract: Polarization is a paradoxical parameter in optical fiber, as it provides flexibilities in various applications, such as advanced modulation formats in optical fiber communication systems, polarization-assisted fiber sensor applications, sensitivity-enhanced biomedical applications, etc. On the other hand, polarization is difficult to control and even associated with signal degradations due to random and dynamic polarization evolutions along the fiber. Currently polarization-related impairments are among major hurdles for high performance fiber systems.

Tremendous efforts to effectively and efficiently manipulate polarization have been spent within the research and industry community. Starting from basic introduction about polarization, the lecture reviews different perspectives of polarization in fiber optics, including the polarization division multiplexing, polarization-related degrading effects and their mitigations, polarization based fiber sensor and biomedical applications, as well as polarization in nonlinear signal processing schemes. Practical issues will be highlighted.

7. IEEE International Conference on Communications
- 2012

CONNECT • COMMUNICATE • COLLABORATE

NEW:

- i. Amanda Lang will host the "Dialogue with Industry Leaders" session on Tuesday evening.
- ii. Sir Terry Matthews will be the keynote address at the Wednesday evening banquet.
- iii. Special showing for IEEE of the award winning Mosaika Sound and Light Show on Parliament Hill - there is a new ending!
- iv. Organised tours of Ottawa and activities in the area: trip to Upper Canada Village, white water river rafting, biking tours, canoeing and kayaking, etc.

ICC 2012 Conference Preview Webinars are available online. To view them at your convenience, please visit our Media Center:

<http://www.ieee-icc.org/2012/media.html>

ICC2012 will be a PAPERLESS+ conference, the first of its kind for IEEE. All conference participants with full conference participation (Full, three-day and one-day category) will receive a complimentary BlackBerry Playbook.

To register please follow <http://ieee-icc.org/2012/registration.html>

The advanced program for the ICC 2012 is now available online.

http://ieee-icc.org/downloads/ICC2012_AP.pdf

Featured keynote and plenary speakers:
Eros Spadotto (EVP, TELUS)
Ian Akyildiz (Georgia Tech)
Matt Bross (CTO & Vice Chairman, Huawei)
H. Vincent Poor (Princeton)
Lucy Hood (ED, CTM)
Mike Hill (VP, IBM)
P. R. Kumar (Texas A&M University)

Marcus Weldon (CTO, Alcatel-Lucent)
Victor Bahl (Microsoft)
Raj Jain (Washington University)
Sir, Terry Matthews (Wesley Clover)

The conference will offer 17 technical symposia, 16 industry forums, 10 keynote and plenary presentations plus one Banquet keynote, 27 peer reviewed technical workshops and one special interest Humanitarian Initiatives workshop, and 12 tutorials.

For exhibition information please visit:
<http://www.ieee-icc.org/cfe.html>
Exhibitor Information

For patronage information, please visit:
<http://www.ieee-icc.org/2012/patrons.html>

B. IEEE News

1. IEEE 2013 President-Elect

There is an opportunity to support petition candidacy to get on the ballot for IEEE 2013 President-Elect. In order to support a person to become a candidate, one has to either physically or electronically sign the petition. Please go to <http://www.ieee.org/petition> to sign the petition by June 8, 2012.

Every Graduate Student Member and above are eligible to sign the petition.

For details about the candidate for whom the petition needs to be signed, please go to <http://www.howardmichel.net>

2. Senior Member Elevation

The following Ottawa members were elevated to Senior Member grade in April 2012. The A and A panel met at Panama City, Panama.

* Abdulkareem Adinoyi

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>

3. 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.

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

IEEE Member Group Insurance Program - Life, Professional 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.

5. 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 oppor

tunities, 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, typically 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 information.

C. Non-IEEE News and Events/Announcements

1. High-Speed Digital Design with Dr. Howard Johnson

Speaker(s): Dr. Howard Johnson
Date/Time: June 4-5, 2012 8:30 AM to 5:00 PM
Location: Brookstreet Hotel, 525 Legget Drive, Ottawa
Parking: At the hotel
Registration: www.sigcon.com
Organizer: Liz Johnson
Organizer e-mail: info03@sigcon.com
Organized by: (chapters, branch...) : Signal Consulting, Inc.
Url: www.sigcon.com

Abstract: This popular and practical two-day workshop covers the important and timely issues involving high-speed digital design and

signal integrity. Developed specifically for engineers and designers who work with high-speed digital signals, this workshop will give you the power to instantly recognize and solve many of today's high-speed design problems.

The course is taught by Dr. Howard Johnson, IEEE Senior Member, EDN Signal Integrity columnist, Oxford University lecturer, and author of "High-Speed Digital Design", which is considered to be the definitive work on the subject.

2. High-Speed Noise and Grounding with Dr. Howard Johnson

Speaker(s): Dr. Howard Johnson
Date/Time: June 6-7, 2012 8:30 AM to 5:00 PM
Location: Brookstreet Hotel, 525 Legget Drive, Ottawa
Parking: At the hotel
Registration: www.sigcon.com
Organizer: Liz Johnson
Organizer e-mail: info03@sigcon.com
Organized by: (chapters, branch...) : Signal Consulting, Inc.
Url: www.sigcon.com

Abstract: This two-day class focuses on mixed-signal applications involving high-speed digital electronics used in conjunction with sensitive analog circuits such as radio receivers, GPS devices and cell phones. This course addresses the critical issues of noise and grounding that are seen in many advanced signal processing ap

plications today,
including avionics, telemetry and guidance systems.

The course is taught by Dr. Howard Johnson, IEEE Senior Member, EDN Signal Integrity columnist, Oxford University lecturer, and author of "High-Speed Digital Design", which is considered to be the definitive work on the subject.

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