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IEEE OTTAWA NEWSLETTER - June 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. Ottawa Mayor declares June 10-15, 2012 as IEEE week

Mr. Jim Watson, the Mayor of the City of Ottawa proclaimed June 10th to June 15th IEEE Week! So, take advantage of it by participating in the following wonderful activities organised for your enjoyment and fulfillment. To read more about the "Proclamation", please go to http://ieee-icc.org/2012/visit_51_1094417776.pdf.

2. Celebration of IEEE Week in Ottawa: IEEE Ottawa Section conducts special event

IEEE Week in Ottawa - Special Event
Dialog with Industry Leaders - Breaking Barriers to Innovation

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PANEL PARTICIPANTS: Leaders from Industry (Telus, Open Tech Works, IBM, Huawei, Ericsson) and Amanda Lang, CBC's Senior Business Correspondent for the National and Co-Host of the CBC's Lang & O'Leary Exchange

DATE: Tuesday, June 12, 2012
TIME: 18:00 - 19:30

PLACE: Ottawa Convention Centre, 55 Colonel By Drive, Ottawa, (613) 563-1984

ADMISSION: \$50 (free if registered for IEEE ICC 2012, www.ieee-icc.org)

REGISTRATION: On-line preregistration required at https://www.beanstream.com/secure/IEEECCECE2006/bb_register.asp

LIMITATION: 500 participants from outside ICC 2012 conference attendees

ORGANIZED BY: IEEE Ottawa Section

CONTACT: For more details, please contact <grefford@ieee.org> or <branislav@ieee.org>

3. First workshop of IEEE Humanitarian Initiatives Committee: Solution for the next billion people

The Humanitarian Initiatives Committee (HIC) is pleased to invite you to the first ever IEEE Humanitarian Initiative Committee workshop: Solutions for the next Billion People. The Workshop format intersperses expert presentations with roundtable discussion, designed to encourage interaction between participants and speakers. This historic workshop, which is collocated with the IEEE International Conference on Communications (ICC2012) showcase a wireless network deployed in the Peruvian Amazon to aid in medical treatment of patients in remote rural communities. So exciting!

A portion of your workshop registration fee, will support the HIC activities

Presentations

. Unlicensed spectrum and Carrier WiFi: Stephen Rayment, CTO Ericsson

Carrier WiFi

- . Making Rural Communications Work: André Brandão, CRC; Michael Christensen, Industry Canada
- . The Peru experience - an IEEE HTC solution: Martin Murillo, IEEE HTC
- Data Connectivity technical lead.
- . Roundtable on appropriate wireless technology
- . Considerations for humanitarian uses of technology (tbd)
- . Roundtable on humanitarian context
- . Business model for telemedicine in Peru David Wright, Telfer School of Business, U. of Ottawa
- . Roundtable on business model

The event details are as follows:

Date: Monday, June 11 2012
Time: 8:00 to 17:00 p.m
Location: Ottawa Convention Centre (OCC), 55 Colonel By Drive, Ottawa,
Cost: \$250.00

For more info please visit:

<http://www.ieee-icc.org/2012/program/hic/>

Promotional flyer available at:

<http://oc.ieee.org/usercontent/1/3/338070001/386/HICottaw%2B2012flyerf.jpg>

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4. Deployment of Key Smart Grid Technologies in Power Transmission Systems

Speaker(s): Dr. Farnoosh Rahmatian, P. Eng, Sr. Director Measurement Devices at Quanta Technology, Vancouver, BC, CANADA

Date/Time: June 8, 2012/ between 11:00am -12:00pm
Location: National Research Council, 1200 Montreal
Road, Ottawa, Building M-36, Kelvin Room
Parking: Free at the visitor parking
Registration: started at 10:40 am
Organizer: Dr. Mahmoud ABou-dakka joint with NRC, M
SS, EPG
Organizer e-mail: mahmoud.abou-dakka@nrc.ca
Organized by: (chapters, branch...) DEIS Ottawa/Mon
treal Joint Chapte

Abstract: Synchrophasor systems are considered to
be the corner stone of the "smarter power transmis
sion" system.

They provide time synchronized measurements across
large geographically distributed power grids. Sy
nchrophasors

provide an effective snapshot of the state of the
power system at a defined instant in time. They en
able several

valuable Wide Area Monitoring, Protection, and Con
trol (WAMPAC) functions including situational awar
eness and wide

area visualization functions, enhanced state estim
ation (enhanced SE), voltage stability monitoring,
islanding

detection, fault location, remedial action schemes
, congestion management, system restoration ... and
ultimately

minimizing the probability of blackouts.

5. IEEE EMC Distinguished Lectures

Speaker: Professor Wen-Yan Yin, Qiu Shi Distinguish
ed Professor,

Centre for Optical and Electromagnetic Res
earch, Zhejiang University, China.

Date/Time: Friday June 15, 2012 / 4:00 PM to 7:00 P
M

Location: FIDUS SYSTEMS Inc., 900 Morrison Drive, Suite 203, Ottawa, Ontario, K2H 8K7

Parking: Free

Registration: Free and Required, please email to qingsheng.zeng@crc.gc.ca or Syed.Bokhari@fidus.ca

Organizer: Dr. Qingsheng Zeng and Dr. Syed Bokhari
Organizer e-mail: qingsheng.zeng@crc.gc.ca, Syed.Bokhari@fidus.ca

Organized by: (chapters, branch...) IEEE Ottawa AP /MTT Joint Chapter and IEEE Ottawa EMC Chapter

Topic 1: Multiphysics Method for High-Power Electromagnetics

Abstract 1: We are now facing considerably concerns on intentional and non intentional electromagnetic interferences (EMI & EMI) issues related to various communication platforms, which can cause serious degradation in reliability of devices, circuits and systems. In this seminar, multiphysics based time domain finite element method will be introduced and implemented for fast capturing transient electro thermo mechanical responses of various on chip interconnects, devices and circuits under the impact of an (I)EMI signal, such as double exponential high power EMP and electrostatic discharge(ESD), etc.

Topic 2: Multiphysics Method for Nanoelectronics

Abstract 2: More recently, significant progress has been achieved in the development of carbon nanotube (CNT)- and graphene-based interconnects and field effect transistors (CNTFET&GFET). In order to thoroughly understand signal transmission characteristics of s

single-, double-, multi-walled carbon nanotube (SWCNT & DWCNT & MWCNT) and few-layer graphene transmission lines together with input-output responses of both CENTFET and GFET, we have to take quantum effects into account appropriately.

In this talk, multiphysics solutions to various SWCNT, DWCNT, MWCNT, few-layer graphene nanoribbon transmission lines and active devices will be presented, and both frequency- and temperature-dependent quantum effects will be treated in detail. Also, CNT- and graphene-based shielding structures for EMC applications will be addressed and discussed.

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

We would like to invite you to register 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:

- Submission of Camera-Ready Submission: June 11, 2012

7. IEEE International Conference on Communications
- 2012

CONNECT • COMMUNICATE • COLLABORATE

Canada's beautiful capital city of Ottawa has proclaimed June 10 - 15, 2012 as IEEE Week to coincide with the IEEE International Conference on Communications (ICC 2012), which will be held on the same dates at the newly, opened, \$170 million Ottawa Convention Centre. Themed "CONNECT - COMMUNICATE - COLLABORATE," IEEE ICC 2012 is expected to host thousands of industry professionals, scientists, academics and government officials, who will attend nearly 1,500 presentations highlighting the entire range of communications technologies, while touring Canada's beautiful capital city and participating in wide-ranging local festivities.

Ottawa offers the perfect venue for celebrating IEEE ComSoc's 60th anniversary and exploring the newest advances in communications technology research. The City's history of innovation and accomplishment will certainly provide the ideal motivation for inspiring the development and implementation of the next wave of global interactive applications

that will cross every demographic, time zone and geographic boundary.

According to Invest Ottawa, a not-for-profit organization with the mandate to facilitate the economic development of the region, Ottawa's knowledge-based sectors employ over 75,000 people within 1,922 companies and also boasts the highest level of research and development spending per capita in the country. In addition, Ottawa is one of North America's fastest growing economies as well as one of the world's most progressive centres of innovation.

Held with the support of Invest Ottawa, Ottawa Tourism, Invest Ottawa and IEEE Ottawa Section, IEEE ICC 2012 will commence on Sunday, June 10, IEEE ICC 2012 will open with a special workshop titled "Telecommunications: From Research to Standards." Over the next five days, the conference will then feature a full agenda of keynotes, panel discussions and technical symposia offered by leading industry experts representing nearly every field of communications.

Key to this year's event are also the 18 Industry Forums featuring topics related to "Social Networks: Impact on Quality of Life," "India's eGovernance," "Cloud Communications Security & Networking," "End-to-end Ethernet Management," "Heterogeneous (HeNet) Network Deployment," "Multi-screen IPTV," "Future Home Gateway Services," "True Green Data Centers" and "Enabling Your Cloud."

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. 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.

2. 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 p
lans, available
exclusively to IEEE members, can help make sure you
have adequate
financial resources as your life changes and respon
sibilities grow. I
think you will agree, the time invested will be wor
thwhile.

3. New members orientation webinars

All new higher grade IEEE members are invited to pa
rticipate 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 ove
rview 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, 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 information.

C. Non-IEEE News and Events/Announcements

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IEEE, 445 Hoes Lane, Piscataway, NJ 08854 USA
<<http://www.ieee.org/>>