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IEEE OTTAWA NEWSLETTER - April 2011

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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/>

Newsletter on the Web: <http://ottawa.ieee.ca/news/>

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#### A. IEEE Ottawa Section News & Events

##### 1. Presentation on Towards a New Science of Cloud Computing

TITLE: Towards a New Science of Cloud Computing  
SPEAKER(S) Shrisha Rao, Ph.D., Distinguished Professor, IIIT-Bangalore  
DATE: 2 pm - 3:30 pm, Monday, April 4, 2011  
LOCATION: Room 5084, SITE Building, University of Ottawa  
800 King Edward, Ottawa, Ontario, K1N 6N5  
Parking: Free  
Registration: By email to Rami Abielmona, [rabielm@ieee.org](mailto:rabielm@ieee.org)  
Organized By: Ottawa Computer Society Chapter  
Url: <http://ottawa.ieee.ca/cs>

Abstract: Notwithstanding the widespread hype about cloud computing,

there is a lack of clarity on its prognosis, and according to some critics, even about its very nature and purpose. Even so, there is a palpable need to identify the problems and possibilities associated with cloud computing that should be addressed by academia, industry, as well as society as a whole. In particular, there are a whole slew of research issues that arise with cloud computing and call for original insights and approaches. It is perhaps not out of place to suggest that a whole new interdisciplinary science, which takes from several hitherto unconnected fields of study, needs to be created and carefully studied. In this talk, I present my own early vision of the shape that such a science of cloud computing might take.

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2. 2011 Ottawa Photonics Week - A message from IEEE Photonics Society Ottawa Chapter

IEEE Photonics Society Ottawa Chapter invites you to join us in Ottawa, Canada from May 16-20, 2011 for an exciting week of Photonics events. There will be three major international photonics conferences in conjunction with an extensive product showcase. All events will be held in downtown Ottawa, close to major heritage, culture attractions, restaurants and entertainments. The week is set to coincide with the Ottawa Tulip Festival, an annual floral, art and entertainment event.

The three conferences are:

- Photonics North 2011

<http://www.photonicsnorth.com/>

- 2011 ICO International Conference on Information Photonics

<http://ip2011.org/>

- 21st International Conference on Optical Fiber Sensors

<http://ofs21.org/>

We look forward to meeting you in Ottawa.

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### 3. Lecture on Communications for the Smart Grid

TITLE: Communications for the Smart Grid  
SPEAKER(S): Dr. Stephen Bush, Researcher at General Electric Global Research, Niskayuna, NY.  
DATE: 7 pm - 8 pm, Tuesday, April 12, 2011  
(Registration starts at 6:30)  
LOCATION: Algonquin College, Room T129, T-Building,  
1385 Woodroffe Ave., Ottawa, Ontario, Canada  
Parking: Parking area # 9. Please respect restricted areas.  
No fee after 5:00 p.m.  
Registration: Required by email to Wahab Almuhtadi, [almuhtadi@ieee.org](mailto:almuhtadi@ieee.org)  
Organized By: ComSoc/BTS/CES Ottawa Joint Chapter, PES Ottawa Chapter & Algonquin College Student  
Url: <http://ottawa.ieee.ca/comsoc>

Abstract: Electric power grids around the world are rapidly evolving to make more extensive use of communication technology. New intelligent electronic devices are being developed and deployed in which communications is becoming a ubiquitous and natural part of power systems allowing new forms of collaborative behavior. An analogy is often made between the interconnection of personal computers many decades ago resulting in the rise of the Internet and what is happening within the power grid today. However, the power grid is a large and complex machine with many aspects; it comprises a very broad set of topics. This hour-long talk will begin with a review of power systems and focus upon emerging communications capabilities within the power grid including: metering and demand-response, distributed generation, fault detection isolation and restoration, and a brief overview of emerging standards. We will end with a discussion of more speculative innovations that may impact the smart grid further into the future.

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4. Calls for ICC 2012 - International Conference on Communications -  
Workshops, papers & volunteers.

4.a Workshop Proposals are being sought now. Please submit at  
(<http://www.ieee-icc.org/2012/cfp.html#Workshops>).  
Deadline

is May 16, 2011, with no intentions for extension.

For information on other submission calls or regarding the conference, visit [www.ieee-icc.org/2012](http://www.ieee-icc.org/2012)

This event is proudly hosted by Telus, the IEEE Ottawa Section, and many more prestigious leaders, institutions, and companies.

Since 1965 the IEEE International Conference on Communications has been one of the flagship conferences of the IEEE Communications Society. IEEE ICC brings together the world's leaders, scientists, policy makers from industry and academia. The IEEE Ottawa Section is proud to host IEEE ICC 2012 Conference and Exhibition from 10-15 June 2012 where recent advances in the field of communications will be presented.

The theme of the conference is "CONNECT • COMMUNICATE • COLLABORATE". For participants it promises to stimulate the scientific exchange of ideas, the identification of future trends in communications, and the illumination of business opportunities. The conference program will feature 12 technical symposia, 16 industrial forums, keynote presentations, several workshops, and tutorials.

The conference will be held at the newly Ottawa Convention Centre which is located on the scenic banks of the Rideau Canal and embedded in the cultural center of Ottawa, the Canada's beautiful capital city.

The Ottawa region is an ideal location for ICC 2012. It is not only the hub of the Canadian government but it is also a core Canadian centre for high technology and sometimes referred to Silicon Valley North. There are more than 1800 companies in the area of software, telecommunications, photonics, semiconductors, defence and security, wireless technology, and many other. It boasts the highest level of R&D spending per capita in Canada.

Come early and enjoy your stay in the National Capital and Canada's hub of technology innovation and creativity.

Executive Conference & Organizing Committee Chair  
Wahab Almuhtadi, Professor, Algonquin College, Canada  
almuhtadi@ieee.org

#### 4.b Proposals, papers and notifications deadlines

Tutorial Proposal: 6 September 2011  
Contact email: Azzedine Boukerche (boukerche@site.uottawa.ca) or  
Abbas Jamalipour (a.jamalipour@ieee.org)

Industry Forum Proposal: 29 August 2011  
Contact email: Adam Drobot (Adam.Drobot@2M.com)  
or  
Chi-Ming Chen (chimingchen@att.com)

Paper Submission: 6 September 2011  
Papers are submitted to the particular symposia listed below.  
Accept. Notification: 9 January 2012

Camera-Ready Paper: 10 February 2012

Selected Areas in Communications Symposium

SAC - Access Networks

SAC - E-Health

SAC - Powerline Communications

SAC - Satellite and Space Communications

SAC - Smart Grid

SAC - Tactical Communications and Operations

Wireless Communications Symposium

Wireless Networking Symposium

Communication Theory Symposium

Signal Processing for Communications Symposium

Optical Networks and Systems Symposium (click for C fP pdf)

Next-Generation Networking Symposium

Communication QoS, Reliability & Modeling Symposium

Ad-hoc and Sensor Networking Symposium

Communication Software Services, and Multimedia Applications Symposium

Communication and Information Systems Security Symposium

Cognitive Radio and Networks Symposium

#### 4.c Expressions of interest in volunteering.

If you wish to have an experience of a lifetime, and would like to

exercise your technical, people or other soft skills, then consider

volunteering for ICC2012! We need individuals in, for example, marketing

& publicity including website support, local organization including event

coordination and entertainment development. ICC2012 planning is going

well and execution needs your support! Contact Raed Abdullah@ieee.org with

your statement of interest.

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## 5. TISP Workshop - last call - April 28-29, 2011

Deadline for registering is April 7th.

This reimburseable workshop is open to all teachers, members, and non-members that wish to learn and apply how to introduce fun, inexpensive science, mathematics, engineering and technology projects to those interacting with pre-university students of all ages and abilities. The workshop begins the evening of Thu., Apr. 28th, and continues through Fri., Apr. 29th, in Mississauga, ON. For further detail, contact Janet Davis, IEEE Ottawa Section TISP Chair Janet.Davis@ieee.org

URL: <http://ottawa.ieee.ca/attachments/TISP.pdf>

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## 6. IEEE Ottawa Section Celebrates National Engineering Month

IEEE Ottawa Section, Ottawa Section's Teachers in Service Program (TISP) Committee along with All Saints Robotics actively participated in celebrating Engineering Month event at the Museum of Science and Technology on Mar 20th. A booth was set up in the Museum of Science and Technology where All Saints Robotics team proudly exhibited their working robot model. TISP exhibited its program and couple of projects using snap circuits that were suitable for school kids. It was a great day with several parents and kids attending the joint booth of the Section, TISP

and All Saints Robotics. Watching the little kids in awe of the robot was a great experience for all.

IEEE Ottawa Section Volunteers and the All Saints Robotics team got to talk to a lot of people and spread the word about what is available for students that are interested in Science and Engineering. Thanks to Ms. Janet Davis (TISP chair), Mr. Raed Abdullah, the past IEEE chair and the All Saints Robotics team for making this happen.

Thanks to several volunteers who spent the day for the cause of Engineering.

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## 7. IEEE Ottawa Robotics Competition

Heads up ... details on the 9th Annual IEEE Ottawa Robotics Competition will be coming soon!

The Ottawa Robot Competition aims at bringing engineering awareness to students in grades 5 and 8 by presenting a fun and instructive approach to problem solving.

Using Robolab LEGO MINDSTORMS kits, the students have around 10 weeks to design and build an autonomous robot. In teams of five to ten, they learn engineering concepts with the help of a mentor and come together to produce a working prototype.

Last year's results are at: <http://ottawa.ieee.ca/robotcomp/?q=node>

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## B. IEEE News

### 1. Member Benefits & Services

1.a Air Canada Travel: up to 10% off any fare to Toronto OR Japan.

Toronto, ON: travel between April 21, and May 08, 2011, and receive up to 10% off on the base rate. This deal is brought to you by the IEEE Canada weekend of events, and Air Canada as the official airline.

Tokyo, Japan: travel between May 28, and June 16, 2011, and receive 10% off any air fare rate. This deal is brought to you by the ICC2012 Team, and Air Canada as the official airline.

For more detail visit <http://ottawa.ieee.ca/attachments/IEEEICCToJapan.pdf>,  
<http://ottawa.ieee.ca/attachments/IEEECanadaWeekend.pdf> or to take advantage of these deals, contact Can Air World Tra

vel and ask for the  
"IEEE ICC to Japan" or "IEEE Canada" promotion.

Office. (613) 738-8888, or 1-877-408-8530 (Toll Free,  
North America)

Fax. 613-521-1998                      canairworld@rogers.com

3320 McCarthy Rd, Unit 5, Ottawa, ON K1V 0X3

Hours (EST):            Monday - Wednesday 9:00AM - 5:30PM

Thursday- Friday 9:30AM - 7:00PM

Saturday 10:00AM - 4:00PM

Phone has voicemail 24/7

Contacts: Willy Lee, and Dina Farah

1.b                      Featured Benefit: New! HP introduces  
web site for IEEE Members in Canada

Members in Canada can now shop at [www.hp.ca/ieee](http://www.hp.ca/ieee) and  
receive their IEEE

member discounts on eligible HP desktops, notebooks  
and workstations.

Members also have the option to call HP directly at  
1-877-231-4351 to

order. Please remember to mention HPIEEE to receive  
your discount. The

program offers shoppers a low price guarantee, so members  
can be assured

that their site offers them the best possible pricing.  
Members with

questions can call HP at 1-877-231-4351. Thank you!

En exclusivité! HP introduit un site web pour les membres  
de l'IEEE au Canada.

Les membres IEEE au Canada peuvent maintenant magasiner  
au site web

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que vous utilisez tous les jours, y compris des ordinateurs de bureau, blocs-notes, imprimantes, encres, serveurs, unités de stockage et autres. Des rabais sur les produits sont offerts exclusivement par l'entremise de ce site Web ou en appelant au 1-888-202-4465 (veuillez mentionner le mot de passe HPIEEE pour obtenir le rabais).

#### 1.c 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](http://www.engineergoodlife.ca) (username = eic and password = goodlife) for details.

#### 1.d NEW one-stop place for finding all discount programs for IEEE members

IEEE members can take advantage of a myriad of discount opportunities, either in the form of core IEEE products OR from IEEE sponsored programs that are offered at reduced rates as a benefit of membership. However, member awareness of IEEE discount programs is low, such that 50% of all

members do not know about them or where to find them.

Thus, IEEE is now presenting information on all programs in a new centralized location, the "IEEE Member Discounts" Web page, and retiring the brand "Financial Advantage Program."

The URL is:

[http://www.ieee.org/membership\\_services/membership/discounts/index.html](http://www.ieee.org/membership_services/membership/discounts/index.html)

or in short, <http://www.ieee.org/go/discounts>

Categories are: Insurance, Travel, Technology and Home/Office Discounts.

An FAQ clarifies geographic availability of each program, and how sponsored programs are developed and vetted."

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## 2. Call for Grant Applications

The IEEE Foundation accepts grant applications for new and innovative projects three times per year. 2011 deadlines are 3 January, 22 April and 12 September. Grant applications are reviewed by a committee of the IEEE Foundation Board of Directors or the IEEE Life Members Committee.

The IEEE Foundation considers projects that:

- \* Use technology for humanitarian causes;
- \* Improve math, science and technology education from pre-college through continuing education;
- \* Introduce pre-college students to engineering and science;
- \* Support professional development and conference participation

on for university students; \* Preserve and promote the history of IEEE associated technologies; and \* Recognize major contributions to IEEE associated technologies.

Grant applications can be submitted through a simple-to-use online form.

Before submitting an application, please review the IEEE Foundation's grant guidelines. Direct your questions to foundation-office@ieee.org.

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3. Call for Nominations: IEEE Educational Activities Board Awards

The IEEE Educational Activities Board (EAB) is requesting your assistance in making the 2011 IEEE EAB Awards the most successful year ever.

Presently, the IEEE EAB is seeking nominations for 2011 awards in the following categories:

- \* Meritorious Achievement Award in Accreditation Activities
- \* Meritorious Achievement Award in Continuing Education
- \* Meritorious Achievement Award in Informal Education
- \* Major Educational Innovation Award
- \* Pre-University Educator Award
- \* Meritorious Service Citation
- \* Standards Education Award
- \* Employer Professional Development Award
- \* Society/Council Professional Development Award
- \* Section Professional Development Award

The deadline for nominations is 30 April. Please visit  
<http://www.ieee.org/about/corporate/nominations/index.html>.

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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](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](mailto:a.hahn@ieee.org)) for more information.

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## C. Non-IEEE News and Events/Announcements

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