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IEEE OTTAWA NEWSLETTER - February 2011

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/>

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

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A. IEEE Ottawa Section News & Events

1. Beyond Engineering Series- Nontraditional Career Paths

TITLE: Beyond Engineering Series- Nontraditional Career Paths

SPEAKER(S): Various. Bios will be at
http://ottawa.ieee.ca/eit/EiT_Events.html

DATE: 6 pm - 8:30 pm, 16th of February 2011
(registration starting
at 5:30 pm)

LOCATION: Algonquin College, T Building Room T1
23 - 1385 Woodroffe
Avenue, Ottawa.

Parking: Free in parking lot 8 & 9

REGISTRATION: by email to thamelenee@ieee.org

ORGANIZED BY: IEEE Ottawa EiT Committee
CONTACT: thamelene@ieee.org
URL: http://ottawa.ieee.ca/eit/EiT_Events.html

ABSTRACT: Engineering/Science degrees can enable many career paths, some of which are non traditional paths. Through this seminar, we would like to open your eyes for other career options including law, entrepreneurship and finance.

2. Presentation: Unleashing the Power of Picocells

TITLE: Presentation: Unleashing the Power of Picocells
SPEAKER(S): Steve Rayment - Belair Networks
DATE: 8:00 pm - 9:30 pm, Wednesday, 9th of February 2011
(registration starting at 6 pm)
LOCATION: RA Centre - 2451 Riverside Dr; Courtside B Room. Directions
etc: <http://www.racentre.com/raweb/E/Assoc/info.html>
Parking: Park in the RA Centre East lot - no charge
REGISTRATION: by email to h.reekie@ieee.org (pre-registration appreciated)
ORGANIZED BY: IEEE-VTS Ottawa Chapter & IET-UK Ottawa Centre - joint
CONTACT: Hugh Reekie (h.reekie@ieee.org)
URL: <http://www3.bell.net/max-com/ottawa.vts.html>

ABSTRACT: With ever-increasing mobile traffic, mobile carriers will need to deploy smaller cells, with architectures that are usually expensive.

This presentation presents a new deployment model for outdoor metropolitan picocells - that overcomes the traditional barriers of small cell deployments.

3. IEEE SPAC 2011

TITLE: IEEE SPAC 2011
SPEAKER(S): Bruce Firestone
DATE: 6:00 pm - 11:00 pm, Thursday March 10, 2011
(registration starting at 5 pm)
LOCATION: National Arts Center (NAC) - 53 Elgin Street, Ottawa
REGISTRATION: http://www.ieeespac.ca/?page_id=26
ADMINSSION: \$10 (members)/\$15(non-members)
ORGANIZED BY: IEEE Carleton, IEEE OttawaU, IEEE Algonquin
CONTACT: spac@ieee.carleton.ca
URL: http://www.ieeespac.ca/?page_id=39

ABSTRACT: IEEE Student Professional Awareness Conference (SPAC) is a formal dinner event that aims to bridge the gap between students and their career goals. SPAC offers students and employers a unique opportunity to network with each other in a professional environment along with professionals and academics representing the field of Engineering.

4. Call for Interest - IEEE Ottawa Consultants Network (AICN)

TITLE: Call for Interest - IEEE Ottawa Consultants Network (AICN)
ABSTRACT: This is a call for interest for IEEE memb

ers who would be
interested in the AICN affinity group as volunteers
, contributors
or just interested in knowing more about Consulting
as a career,
meeting other consultants and attending events that
are of interest
to consultants including topics such as: as starti
ng your own business;
tax strategies; attracting clients; using social me
dia;
bidding on large projects; consultants database and
building your network.

These are just a starting point, I am looking for o
thers to help guide
the events for the year. You can find more details
on the AICN in
general at <http://www.ieeeusa.org/business/whatis.a>
sp
and my goal is to make IEEE Ottawa a key part of th
e AICN.

Please contact me directly at bjoshi@ieee.org with
your level of interest
and also if you are interested in being part of the
affinity group as
a volunteer or even as a presenter. I look forward
to hearing from all.

Bhagvat Joshi
Chair IEEE Ottawa AICN Affinity Group.
President ConvergedLinks Inc.

5. Ottawa Section is a technical co-sponsor for the
IASTED
International Conference on Wireless Communications
2011

The IEEE Ottawa Section is a technical co-sponsor o

f the IASTED
International Conference on Wireless Communications
2011.

This conference has a paper submission deadline of
February 22, 2011.

The IASTED International Congress on Wireless Commu-
nications (WC 2011) will
be a major forum for scientists, engineers, and pra-
ctitioners throughout
the world to present their latest research, results
, ideas, developments,
and applications in all areas of telecommunication
systems, with emphasis
on wireless communications. Its aim is to strengthe-
n relations between
the telecommunication industry, research laboratori-
es, and universities.

6. 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 c-
onferences in
conjunction with an extensive product showcase. All
events will be held
in downtown Ottawa, close to major heritage, cultur-
e attractions,
restaurants and entertainments. The week is set to
coincide with the Ottawa
Tulip Festival, an annual floral, art and entertain-
ment 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.

7. New Secretary IEEE Ottawa AP/MTT Joint Chapter

The IEEE Ottawa AP/MTT Joint Chapter held an election on January 14, 2011, for the chapter secretary position. We now have a new Chapter Secretary, who is Thamelene Davarajah. Congratulations, Thamelene!

We have no doubt that she will contribute much to our AP/MTT Chapter, and to the Ottawa Section in general.

8. Brainstorming meeting for present and prospective members of Women in Engineering (WIE)

Date: Wed., Feb 16, Wednesday

Place: Room T335 in Algonquin College. From 6pm--8pm. Snacks provided.

Purpose: This is a facilitated brainstorming meeting for present and prospective members of WIE. The purpose is to identify the elements needed to shape a strong WIE identity: what purpose can WIE serve, what role(s) WIE can play, for whom and perhaps how. The information will be presented by the IEEE WIE Affinity Ottawa Section, at an upcoming WIE Canada Congress. Your input is crucial to ensure WIE provides value.

9. 9TH Annual IEEE Ottawa Robotics Competition

For June 4, 2011, full day, the Ottawa Robot Competition aims to again bring engineering awareness to students in grades 5 to 8 by presenting a fun and instructive approach to problem solving.

Using LEGO® MINDSTORMS® kits, teams of two to five members compete by demonstrating the superiority of their robot through completion of a challenge. Teams are also judged on a poster presentation, a written report, their team spirit, and their ability to answer judge's questions.

In 2010, there were 51 teams, and over 400 people participating or in attendance!
<http://ottawa.ieee.ca/robotcomp/index.php?q=AboutORC>

Those interested in volunteering, or need more information,

may contact Rob Woolley <rcwoolley@ieee.org>.

10. National Engineering Month - March 2011

In Ontario, this event is celebrated the week of February 28th. Let's make this the first year that IEEE Ottawa Section officially participates!
Your thoughts on what you would like done are welcome and volunteers will not be turned down. Keep updated on our website for what is planned.

11. Membership Development

To the few members who have yet to renew the 2011 membership, if there we may help, please contact MD Chair, Shatha Hamoudi <shatha_hamoudi@ieee.org>. A strong membership base helps the IEEE Ottawa Section provide value to its members: holding soft and hard skill development programs; conducting seminars, workshops, and symposia; attracting prestigious conferences; providing influencing improvements in IEEE; and soon, providing local financial or services benefits.

The Canadian dollar is strong, so renewing is more cost effective.
Constrained financial circumstances are accommodated; to learn more, visit the "Renew" page.

To Renew:
http://www.ieee.org/membership_services/membership/renew/index.html

To Join:

http://www.ieee.org/membership_services/membership/join/index.html

Also, please refer to the item "Individual Benefits and Services" under "IEEE News".

Please Note: local events are sometimes confirmed after the e-newsletter is published. More current information may be found on our website
www.ottawa.ieee.ca

B. IEEE News

1. Senior Member Elevation

The following members were elevated to Senior Members with support from the Ottawa Section:

- * Mr. Bashar Abdullah

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. Membership Development and Benefits News

2.1 IEEE has launched an upgraded IEEE Xplore Mobile. Users can now conveniently search over two million technical documents with any mobile device connected to the Internet. Basic search from the IEEE Xplore Mobile home page can then be refined by searching within the results or by using subject filters. A predictive type-ahead feature, that suggests searches as you type, is available for mobile devices that are JavaScript-enabled. All results you would find on the classic IEEE Xplore for abstracts and citations are displayed ten at a time by relevance. You can then decide to read or e-mail the abstracts to a remote computer.
<http://ieeexplore.ieee.org/Xplore/guesthome.jsp>

2.2 Learning to Play Games - A new IEEE eLearning Library Tutorial Like playing Ms. Pac-Man or Othello? A new IEEE eLearning Library Tutorial, Learning to Play Games, by Simon Lucas, teaches game strategy learning functions used in developing these types of games. The tutorial will cover the two main approaches to learning game strategy: evolution (including co-evolution) and temporal difference learning. It also discusses some ways of hybridizing both. Each method will be demonstrated with reference to some simple fragments of software, illustrating how the learning algorithm is connected with the game and with the function approximation architecture. Example games will include Othello, Simulated

Car Racing, and Ms. Pac-Man. To learn more about this new tutorial, please visit the IEEE eLearning Library <https://ieee-elearning.org/login/index.php> (need to login).

Find over 160 other available eLearning tutorials by viewing the full catalogue today <http://ieee-elearning.org/course/index.php>

2.3 Electronics Discounts - Compare to Back-to-School Specials Check out for deals from Mozy, HP, and Dell at www.ieee.org/membership_services/membership/financial_advantage/index.html

2.4

Career Planning Don't Let Job Training Leave You Obsolete By Peter Weddle

Job retraining is a waste of time. That's the conclusion of study

conducted by the US Department of Labour. After studying the experience

of 160,000 laid-off workers who went through DOL-subsidized training

programs, it found that the education neither helped them land a job nor

hang onto one if they were able to get hired.

You may read the article at

<http://www.jobjournal.com/thisweek.asp?artid=3058>

2.5 Free e-Books Free E-book Titles and Access to Archived Webinars to

All IEEE Members at <http://www.ieeeusa.org/careers/gpa/> (the free eBooks

are classified under "Classics")

3. IEEE's Teacher In-Service Program (TISP) Training

g Workshop

TITLE: IEEE's Teacher In-Service Program (TISP) Training Workshop
DATE: 28-29 April 2011
LOCATION: Delta Meadowvale Resort & Conference Centre,
6750 Mississauga Road
Mississauga, Ontario, Canada
REGISTRATION: <http://guest.cvent.com/d/mdqtbm/1Q> (by April 7, 2011)
ADMINISTRATION: free of charge for all IEEE members and invited educators
ORGANIZED BY: IEEE Educational Activities Board
IEEE Region 7 TISP Committee
CONTACT: Lynn Bowlby, l.bowlby@ieee.org

ABSTRACT: The purpose of this workshop is to help IEEE members improve the teaching of engineering and engineering design in pre-university schools (primary schools, middle schools and high schools). In this workshop, IEEE members will learn how to work with teachers of pre-university schools, and how to conduct hands-on sessions for these teachers on engineering topics. The teachers will then use these sessions on a regular basis with their own students.

The workshop is held for one and a half days, and it provides attendees with examples of lesson plans, suggestions on the best way to contact and work with the pre-university school system, and description of successful management of a TISP program in an IEEE Section. The event is free of charge for all IEEE members and invited educators. IEEE will reimburse

all reasonable travel-related expenses for this workshop. Travel-related expenses include up to a one night hotel stay and transportation to and from the workshop location.

4. Engineer Wellness Corporate Program GoodLife Fitness:

Staying fit is the key to reducing stress, feeling healthy, increasing your energy and enjoying an excellent quality of life. IEEE Ottawa Section members and students can access the benefits of exercise and healthy living at discount of more than 55% off regular prices for GoodLife Fitness (Energie Cardio in Quebec, Nubody in BC).

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

5. 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 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.

6. Call for Nominations-IEEE Service Awards

For nearly a century, the IEEE Awards Program has paid tribute to technical professionals whose exceptional achievements and outstanding contributions have made a lasting impact on technology, society, and the engineering profession.

The IEEE Richard M. Emberson Award (<http://www.ieee.org/about/awards/emberson.html>) is presented to an IEEE member for distinguished service to the development, viability, advancement, and pursuit of the technical objectives of IEEE.

The IEEE Haraden Pratt Award (<http://www.ieee.org/about/awards/pratt.html>)

is presented to an IEEE member for outstanding service to IEEE.

Please help IEEE recognize and celebrate the accomplishments of your colleagues. Nominations for these awards are due 1 July 2011. E-mail IEEE Awards Staff (awards@ieee.org) with questions and completed nominations.

Please also visit
http://www.ieee.org/societies_communities/geo_activities/awards/index.html
for other MGA awards and Recognition Program.

7. Call to support IEEE Foundation

Message from Mr. Bob Alden, P. Eng, LFIEEE, President, IEEE Canadian Foundation (email: r.alden@ieee.org)

Dear Canadian IEEE Member

The IEEE Canadian Foundation is the philanthropic arm of the IEEE in Canada and I ask for your financial support. Together we can advance the IEEE core purpose to foster technological innovation and excellence for the benefit of humanity. I am often asked - Why should I give to this organization? Here is my answer. Our country needs skilled innovative engineers and computer scientists. The IEEE Canadian Foundation supports attracting good young students into engineering programs with Section-based outreach programs in Public and High Schools, supports the development of entrepreneurial skills in engineering

g students by funding
McNaughton Learning Resource Centres in over 30 Universities and Colleges
across Canada and awards special grants to enable innovative projects and
field trips. The foundation supports peer recognition at the highest
level in Canada by endowing IEEE Canada Medals. Unfortunately, we have to
turn down or only partially fund excellent grant applications due to
limited funds. You can make a real difference with a generous gift now.
Suggested minimum gift is \$25, more if you can afford please. We accept
online donations, donations by mail, or using the annual IEEE membership
renewal process. If you select the online method, you have the option of
a one-time gift or a monthly gift using Visa, MasterCard, AmEx, Interac
or PayPal. Our website has a recently expanded section for donations -
where all the options are explained, including our donor recognition
program.

Our URL is <http://www.ieeecanadianfoundation.org/EN/index.php>

Please write to me if you have any questions, concerns or suggestions.

Thank you for your attention and please give as generously as you can.

If you already donated this year, thank you very much.

Sincerely,

Bob Alden P.Eng, LFIEEE
President, IEEE Canadian Foundation
Email: r.alden@ieee.org

8. Individual Benefits & Services

As an IEEE member you not only get a subscription to the valuable Spectrum magazine, you also have access to the many benefits and services as listed in http://www.ieee.org/membership_services/index.html#sect2 and also www.ieee.org/membership_services/membership/join/membership_savings.html

We would like to hear your feedback on how well these individual benefits and services have helped you or not, and thoughts on what else IEEE may pursue providing.

Contact: RaedAbdullah@ieee.org and add "IB&SC" to the subject line.

C. Non-IEEE News and Events/Announcements

1. Volunteers sought for the following competitions :

What: Animation Challenge and Robotics Challenge (second challenge - similar in scope to IEEE Sumo Challenge, if you familiar with this one)

Where: Glebe High School (Ottawa-Carleton District School Board)

When: 9:00am - 3:00pm, 5th Feb, 2011

Who: Judges - professionals in the robotics and/or digital animation sector with the following requirements from an email this week from

the lead teacher:

For the Animation Challenge, the Judge(s) should be individuals with some experience in digital animation. The students would be working on their animation throughout the day, and the judges would arrive at Glebe High School at about 3:00 PM to judge the entries based on a rubric (provided) and assist in presenting the awards. The judges should expect to be finished before 4:00 PM. Below is a link to the Challenge Scope from the Skills Canada website, which is the same scope we will be using.

http://www.skillsontario.com/images/pdf/scopes2010/character_animation_challenge_scope_2010_final

For the Robotics Challenge, the Judges should have some experience either as computer programmers or as engineers. In the AM the students will be testing their robots on the course area (calibrating light sensors, etc.) The Judges would need to arrive at Glebe High School after lunch by 1:00 PM. They could arrive earlier and enjoy the lunch provided to oversee the "sumo challenge" round-robin. The judges would also evaluate the robot designs and coding.

Again, an "in-depth" knowledge of robotics and associated programming techniques is not required.

Contact: Nancy Cote <NCote@ocri.ca>, if interested.

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If you are not IEEE member please visit: <http://ottawa.ieee.ca/news/about.html#subscribe>

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