



Wire



IEEE London Section



The London Section of the Institute of Electrical and Electronics Engineers

Newsletter

Inaugural Issue

Major Events

- EPEC-2012, London Convention Center, London, ON, October 10-12, 2012.
- IEEE Canada Board Fall Meeting, London Delta Armouries Hotel, London, ON, October 10-12, 2012
- IEEE London Section AGM, Windermere Manor, November 15, 2012

Inside this issue:

Historical milestones of IEEE London section	2
IEEE UWO Student branch report	2
TISP at London Regional Children's Museum	3
EMBS Report	3
IEEE UWO Student branch report	4
News from WIE	4
News from LIFE	4

Brief Report of EPEC 2012, October 10-12, 2012

This year's EPEC Conference held in London presented a theme of Resilient Green Energy Systems for a Sustainable Society. This theme was superbly reflected by a strong and broad technical content which included workshops covering Smart Grid issues and FACTS controller selection; a wide range of presentations on Smart Grid, Power Quality, Renewables, Micro Grid, Wind Energy, Energy Storage, Protection, Modeling, Control, and more. We were incredibly privileged to gain the invaluable insights into the challenges and evolution of the modern grid through two Industry Plenary Panels on the impacts of customer consumption patterns and renewable energy sources; Lunch Keynote Addresses by Norm Fraser, COO of Hydro Ottawa, and Ivano Labricciosa, VP Asset Management of Toronto

Hydro; and the highlight Banquet Keynote Address by Paul Murphy, President & CEO of IESO. Our attendees were representatives of 15 countries, and included academics, utility and industry participants, including nearly a dozen Exhibitors! The success of our Conference was due in large part to the stellar efforts of our Organizing Committee, and in particular the tireless efforts of our Conference Chairperson Dr. Maik Luiken, London's past Section Chair. Our success was also attributed to the special Sponsorship and participatory support from London Hydro and the support from IEEE Canada who held their Annual General Meeting in London immediately following the Conference. Our deepest Gratitude is extended to all who contributed to this success.
By Trevor Grant, Life Members Chair

Message From the Section Chair

Welcome to the inaugural issue of the IEEE London Section Newsletter— *Wire*.
Our section belongs to Region 7 of the IEEE that is better known as IEEE Canada. There is only one IEEE London Section which in Canada rather than in UK! Our section has a history of 68 years. The London Section represents more than 350 individual members and serves to promote local events significant to Electrical, Computing, and Software Engineering. We offer great networking opportunities through the events that our section, chapters, and affinity groups organize. If you are interested in the rapidly evolving and exciting fields of computer systems, communications, electronics, smart power grids and energy, you are very welcome to join the IEEE and be part of the IEEE London Section.
Under the leadership of our past Section Chair Dr. Maik Luiken and due to the tremendous efforts of section volunteers, our IEEE London Section had great achievements during the past couple of years. Our section

won the 2011 IEEE Canada Exemplary Small Section Award and 2011 IEEE Member and Geographic Activities Board Outstanding Small Section Award. Our section treasurer Ashfaq (Kash) Husain is the winner of the IEEE Canada Read Outstanding Service Award and our past chair Maik Luiken is the winner of the IEEE Canada Broughton Service Award. Dr. Jin Jiang has been elected to be Fellow of EIC.
While the PES chapter and EMBS chapter have been very active with monthly seminars, a new CS/SMC joint chapter has been approved and launched recently.
All section activities are organized by volunteers. Therefore, we need more volunteers. Please consider joining the existing team of volunteers and gaining leadership roles as part of your professional development. If you are interested or need more information, please contact any of the Section Executive members.
Weiming Shen
PhD, P.Eng, SMIEEE



London
CANADA

Awards

- 2011 IEEE MGA Board Outstanding Small Section Award
- 2011 IEEE Canada Exemplary Small Section Award
- 2011 W.S. Read Outstanding Service Award - Ashfaq Husain
- 2011 Central Canada Merit Award - Maike Luiken
- 2011 EIC Fellow - Jin Jiang
- 2010 EIC Fellow - G. S. Peter Castle
- 2009 Outstanding Engineer Award - Rajnikant Patel
- 2009 EIC Fellow - Maike Luiken
- 2009 IEEE Fellow - Kazimierz Adamiak
- 2009 IEEE Fellow - Terence Peters
- 2008 IEEE Canada Exemplary Small Section Award
- 2007 EIC Fellow - Tarlochan S. Sidhu
- 2005 EIC Fellow - Rajni Patel
- 2004 RAB 2004 Section Membership Growth Award
- 2004 IEEE Fellow - Tarlochan Singh Sidhu
- 2003 IEEE Fellow - William Duncan Greason
- 2003 Section Membership Growth Award
- 1992 IEEE Fellow G.S. Peter Castle - London Section

Historical milestones of IEEE London section

The IEEE London Section is located in South West Ontario, Canada. It is a Section in IEEE Canada (IEEE Region 7) and within IEEE Canada belongs to the Central Area.

The IEEE London Section was founded as an IRE (Institute of Radio Engineers) Section / Chapter in 1944. In 1964 this IRE Section / Chapter became the IEEE London Section with the first IEEE London Section Chair, Ray J. Brulé. In 2004, the Section celebrated its BIG Anniversary: 60 successful years.

Membership:

In the later years, the Section membership has been between 300 and 400 members; this includes the student members.

Activities:

The Section is active at the Regional and Area levels: it has co-hosted, with other Central Area Sections, the Canadian Conference on Computer and Electrical Engineering (CCECE) in 2004, 2008, 2011; and the annual Electrical Power and Energy Conference in 2012.

Since the Fall of 2006, the London Section has made a significant effort to provide information and a discussion forum to the members and the public about Sustainable Development through its Seminar Series on Sustainability.

Affinity Groups:

In 2009, the Section received approval for a Life Member Affinity Group.

In 2010, the Section received approval for a GOLD and a WIE Affinity Group.

Chapters:

In 2000, the Section received approval for a Joint DEIS (Dielectrics and Electrical Insulation Society) Chapter with Toronto, London, Hamilton, Kitchener-Waterloo, Kingston sections.

In 2009, the Section received approval for an EMBS (Engineering in Medicine and Biology Society) Chapter.

In 2010, the Section received approval for a PES (Power & Energy Society) Chapter.

In 2012, the Section received approval for a joint CS (Computer Society) /SMCS (Systems, Man, and Cybernetics Society) Chapter.

Student Branches:

Of special interest is the close link between the University of Western Ontario Student Branch and the London Section. Since 2006, the UWO Student Branch Chair is a member of the Section as the Student Representative for all student members in the Section. In 2008, the Branch received an IEEE Foundation award to help create a McNaughton Resource Centre.

As well, at the University of Western Ontario, there is an active EMBS Student Chapter.



London Section Executive Members receiving MGA Outstanding Small Section awards



TISP Outreach at London Regional Children's Museum

For Canadian Engineering Month last March, the London IEEE Section and our Section TISP project has a last minute opportunity to put a program together. After contacting a number of London businesses, most of whom could not put together a display on such short notice, we had two displays. Weiming Shen at NRC came up with a "mummy display" showcasing imaging and prototype fabrication technology based on a mummy. This evidently was popular at the museum where they had schools visiting Egyptology themed displays. The second display was from a local business, Sun Tap. They provided a sample of a solar collector panel and informative posters. Such an energy themed display was also of interest. Both of these displays were available at the museum for the full month of March.

On Saturday March 31, the TISP London lead, Murray MacDonald presented two activities. During both, a PEO video, "Take a Look at Engineering" was running on a laptop for viewing by interested participants and parents.

The morning activity was based on TISP lesson plan "Build a Candy Bag". Participants were to design a candy bag and then build and test it for weight of candy held and then test the safety margin with gravel. The younger age group skipped the "design phase", and jumped right into fabricating. The testing was then very entertaining. After noon, the second activity was another TISP lesson plan, "Building a Windmill", modified to provide a "propeller" as the basis of the design. Again "design" did not get much focus and many did the hair drier testing twice with an adjustment step between tests. We even had a few parents building their own wind mill until we eventually ran out of material.

In post event analysis, London Children's Museum is interested in repeating this next March. With more planning time, we'd like to target 4 displays showcasing local businesses in engineering and then have two weekends with activities. I am looking for volunteers for this work.

- Report by Murray MacDonald 519-859-8723, murraymacdonald@ieee.org



PHOTOGRAPHS OF TISP EVENT:



Members Discount

Insurance, Travel, Technology, Home/Office, Risk Management Resources,

<http://www.ieee.org/discounts/>

What is the Teacher In-Service Program (TISP)?

The Teacher In-Service Program (TISP) provides a forum for IEEE volunteers to demonstrate the application of engineering, science and mathematics concepts by sharing their real-world experiences with local pre-university educators. TISP functions essentially as a professional development workshop aimed at helping teachers bring exciting hands-on engineering lessons into their classrooms. Once trained, IEEE volunteers can connect with pre-university schools in their local communities to deliver the hands-on program.

SECTION EXECUTIVE

Chair

Dr. Weiming Shen

Past Chair

Dr. Maike Luiken,

Vice Chair

Murray L Macdonald

Secretary

Navid Golbon

Treasurer

Ashfaq Kash Husain

Technical Society Chapter Chairs

EMBS Chapter Chair

Dr. Terence M Peters

EMBS Student Chapter Chair

Mariam Afshin

PES Chapter Chair

Dr. Maike Luiken

Joint CS/SMC Chapter Chair

Dr. Weiming Shen

Affinity Group Chairs

Graduates of the Last Decade (GOLD) Chair

Omid Alizadeh

Life Members Chair

Trevor Grant

Women in Engineering (WIE) Chair

Sanny Huang

Student Branch Counselor

Dr. Xianbin Wang

UWO Student Branch Chair

Kyle De Gannes

Newsletter Editor

Dr. Chintan Modi

Webmaster

Dennis Michaelson

IEEE Member Discounts

See the advantage ▶

IEEE members enjoy reduced rates on many proprietary products and services including IEEE books and ebooks, journals and articles, conferences and proceedings, standards, Society memberships, and continuing education courses.

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

Dell Member Purchase Program
<http://www.dell.ca/mpp>

**For
GOLD**

ieee.tv

IEEE Groups



What is IEEE GOLD?

IEEE GOLD (Graduates of the Last Decade) is a peer group among IEEE membership formed to help bridge the transition from student to career professional and to also develop IEEE activities of interest for this group. This forms a group of IEEE members who have received their first professional degree in the last ten years. For more information

please visit <http://www.ieee.ca/gold/en/gold.htm>

GOLD mission: To inspire, energize, empower, and engage young professionals to envision and realize their dreams.

In the London section GOLD affinity group, we are trying to introduce GOLD along with its variety of possibilities and benefits for the young professionals, provide the opportunity for young professionals to meet and greet in the networking events, and hold student transition and elevation programs (STEP) and graduation social events. The GOLD events planned for this year include a GOLD-STEP event along with the EPEC 12 conference and a social event and tour at the John Labatt brewery in London.

Past London section GOLD-STEP events:

Welcome to the world O' work, by Lee Anderson, March 2011

Loading a great job and making it stick, by Vicky Smith, October 2011

For more info please contact: Omid Alizadeh, IEEE London Section Acting GOLD Chair, at oalizade@uwo.ca

News from EMBS

During 3rd week of August EMBS held a Summer School on Surgical Robotics at Western (Co-chaired with Rajni Patel). Since this was a specialized event aimed at students in the field, and we wished to cap the attendance at ~60, this was not advertised widely on IEEE sites. Rather groups known to us were asked to participate. This event was sponsored by multiple agencies including IEEE Robotics Society and the local EMBS chapter. The event was very Successful. Over 60 participants plus 13 international speakers and 10 local participants were there. More details can be found on <http://robotics.imaging.robarts.ca/content/program>. Next month we will be commencing our EMBS /BIRC Seminar series with a visit of Dr Richard Robb from Mayo Clinic. Details can be found on https://meetings.vtools.ieee.org/meeting_view/list_meeting/13813

Report by Terry Peters ,
tpeters@robarts.ca

News from GOLD

On September 14 – 16, 2012, Omid Alizadeh attended the IEEE Canada GOLD Congress in Mississauga, ON. It was a great opportunity to meet and exchange experience with other GOLD chairs from IEEE Sections in Canada. On October 12, 2012, a GOLD-STEP event was held along with the EPEC 12 conference. A brief introduction to GOLD and benefits was presented and two speakers addressed career development and job hunting. On October 30, 2012, the GOLD group organized a tour to the Labatt Brewery Facility in London with 10 members attended, another networking opportunity for GOLD members .

