

**IEEE NORTHERN  
CANADA SECTION  
NEWSLETTER  
2008 JUN  
IN THIS ISSUE .....**

**IEEE  
IAS/PES  
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GOLD  
WIE**



1. GOLF TOURNAMENT --JULY 24<sup>TH</sup>
2. SYNCHROTRON TOUR -SEPT 2008
3. IAS ANNUAL MEETING – OCT 5 TO OCT9
4. AWARDS AND RECOGNITION
5. CHAPTER TECHNICAL PRESENTATIONS – Completed
  - Objective code
  - Minimizing Plant Interruption Caused by Line Disturbances Using Active Voltage Conditioners

**JUN 26 – ARC FLASH PRESENTATION**

**JUL 5 – BARBEQUE at Hawrelack park**

**JULY 23 – GOLD EVENT**

**@ GERMAN CULTURAL CENTRE**

**JUL 24 – GOLF TOURNAMENT**

**OCT 5 – IAS ANNUAL MEETING**

**NOV 2008 -Electrical Safety Technical and Mega Projects Workshop**



The WIE affinity group is working together with WISEST (Women in Scholarship, Engineering, Science, and Technology) to raise money for the WISEST Summer Research program. This program allows high school students finishing their grade 11 year to gain exposure to the fields of science and engineering. Each participating student will spend 6 weeks working as a member of a research group within disciplines less traditional to their gender. WIE is coordinating the silent auction that will take place at the 2nd Annual WISEST Golf Tournament on July 24th at the Millwoods Golf Course.

For more information on the Golf Tournament please visit <http://www.wisest.ualberta.ca/news.cfm?story=77009>.

### **Canadian Synchrotron Tour - Get Your Name in Now**

The section's GOLD (Graduates of the Last Decade) Affinity Group is organizing a tour to the Canadian Light Source Inc. synchrotron in Saskatoon, Saskatchewan, to take place in September 2008. The exact tour date is to be announced. Please send an e-mail to express your interest to GOLD Chair Patrick Baltazart, [pbaltazart@gmail.com](mailto:pbaltazart@gmail.com). Only about fifteen seats are available, you can secure yours with a \$25 deposit. Contact Patrick for details. Canadian Light Source home page: <http://www.cls.usask.ca/>

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***Industry Applications Society IEEE-IAS 2008 Annual Meeting  
October 5-9, 2008  
The Weston, Edmonton, Alberta, Canada***

***Organized by  
The IEEE Industry Applications Society***

**<http://www.ieee.org/ias2008>**

**Preliminary Overview of Conference Sessions**

The IEEE-IAS 2008 Annual Meeting is a gathering of experts who work and conduct research in the industrial application of electrical systems. The 2008 Annual Meeting will have a full program of tutorials, technical papers, and working group meetings during the five days of the conference. Sunday, the first day of the conference, will feature Industry-specific tutorials. On Monday through Thursday, nearly 400 technical papers will be presented by a wide variety of international authors. These presentations will span a broad range of industrial applications including lighting, mining, metals, appliances, electric machines, power electronics, variable speed drives, power systems, and many others.

These presentation forums will focus on product applications, industry standards, manufacturing and production strategies and techniques, and research advances. In addition, we will also have special targeted sessions where manufacturers and vendors will discuss specific solutions to application problems.

The papers will be organized into approximately 65 technical sessions with titles similar to those shown below. Each paper in each session will be scheduled for a particular day and time to allow attendees to select the discussions and presentations that they find most interesting. Group-level and one-on-one interactions between the conference attendees, discussion leaders, and presenters are strongly encouraged. Time is allocated for these discussions during each session and during break periods.

The final program will be available by mid-summer. Please monitor the conference web site for updates to the technical program and for further information about the location of the conference.

## **Awards & Recognition**

### **Math Kangaroo Award**

### **TELUS World of Science**

IEEE award of excellence was given to

Alex Abraham of Aurora School for "Microbial fuel cells"

Kyle Schole of Richard F Staples Secondary, School, for "More to Light than meets eye Phase II"

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**IEEE Award to Taban Rizvi,**

IEEE Canadian Foundation

scholarship is "In recognition of valued service and contribution to the IEEE Student Branch at University of Alberta", May 3, 2008 by Bob Alden, President of the IEEE Canadian Foundation and Feriel El Hawary,

President of IEEE Canada

Math Kangaroo Award Ceremony on May 22, 2008 at Concordia University College of Alberta.

IEEE NCS is a sponsor of the contest and James Brown presented awards on behalf of the section.



**Senior Member Upgrades**

The following members were upgraded to Senior Member status at the March and April 2008 IEEE Admission and Advancement Panel meetings. **Congratulations!** Rohit Thaker

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## **IEEE NCS: Minimizing Plant Interruption Caused by Line Disturbances Using Active Voltage Conditioners**

This presentation was on “Active Voltage Conditioning solutions”, which keep critical equipment running, avoid process upset and provide very attractive financial payback. It included case studies covering installation for active voltage conditioners in Petro-Chemical and other industries for low voltage and medium voltage up to 36 KV. In addition, presented samples of actual field measurements of electrical power disturbances at various voltage level.

The Presenters:

Dr. Robert Hanna (FIEEE, P.Eng), President and Founder of RPM Engineering Ltd.

Mr. David Ezer (MIEEE), President and Founder of Omni Power Inc.

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EMBS  
CCSSC  
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## CHAPER SPONSORED LECTURES/PRESENTATIONS

The following lectures were presented At **May 15<sup>th</sup>, 2008** IEEE NCS IAS/PES Meeting and IEEE members and guests had opportunity to discuss future of this new developments.

Topic: Objective Based Industrial Electrical Code (OBIEC)

Speakers: **George Morlidge** and **Marty Cole**

- **Better Control of Electrical Systems Safety (For The Life of the Facility) Through:**
  - **Management Systems Approach**
    - **Integration With Other Internal Management Systems**
    - **Personnel Management (Education & Training)**
    - **National Recognition**
    - **Mechanism For Continual Improvement**
  - **Leads to Better Design**
  - **Improved Access To Global Technologies**
  - **Focussed Spending on Real Safety Issues**

### Upcoming Events – Edmonton

#### Conferences

#### **Electrical Safety Technical and Mega Projects Workshop**

Edmonton, November 19-20, 2008  
Sponsored By: IEEE IAS, 1, Southern  
Alberta and Northern Canada Sections

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***PROGRAM HIGHLIGHTS***

The IEEE Industry Applications Society **Electrical Safety Technical & Mega Projects Workshop** is to be held November 19 to November 21, 2008 in Edmonton, Alberta, Canada. The IEEE IAS TMP Workshop provides a forum for exchanging and advancing industry knowledge in the areas of engineering design, system reliability and the implementation of large projects. The Workshop focus will be to share innovative concepts, successes as well as lessons learned in the areas of: 1) advancing the application of state of the art knowledge and practices, 2) stimulating innovation in creating the next generation of technology and 3) design and implementation of Mega Projects.

For 2008, the Technical & Mega Project Workshop participants have a unique opportunity to get additional value from their Workshop experience. This year, in addition to the very beneficial presentations, a panel discussion and tutorials are being planned.

***ACCOMMODATIONS***

A block of rooms at the Mayfield Inn and Suites, which is the prime conference hotel, have been set aside for this Workshop. The reservation number for the Mayfield Inn and Suites is 1-780-484-0821. Workshop attendees shall make their reservations directly with the hotel. A limited number of rooms have been reserved, so book early. When making your reservations, please indicate you are attending the IEEE Electrical Technical and Mega-Projects Workshop in order to obtain the conference rate.

***VENUE***

The workshop is held at Mayfield Inn and Suites, Edmonton, Alberta, Canada. Edmonton is one of Canada's most important business centers for engineering and Alberta is home to many of the country's mega-projects. The Edmonton International Airport accommodates convenient air transportation to domestic and international locations. The hotel is moments away from shopping, entertainment and fine dining. There is free parking at the hotel. Hotel rooms must be booked before completing registration. See the accommodations section for additional information.

***MEGA-NETWORKING EVENING***

On the Tuesday night preceding the technical sessions, there will be a networking evening from 7pm to 10pm. This is a prime opportunity to meet and greet your peers in a casual setting. Whether you're an industry leader or new graduate, networking is an important part of everyone's career. There will be 2 drink tickets included, however, more can be bought at the cash bar. More details on this evening are

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IEEE  
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CCSSC  
GOLD  
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available at [www.ieee.org/estmp](http://www.ieee.org/estmp)

***WHO SHOULD ATTEND***

This Workshop is not a training course, but a forum for exchanging ideas and practical experiences involving knowledge, work practices, philosophies, electrical technology, and mega-projects experience that are changing the electrical discipline in industry. Targeted audiences include but is not limited to people involved in electrical in these areas of interest:

- Facilities construction, operation and maintenance
- Facilities and process design
- Engineering services
- Training and continuing education
- Regulations, codes and standards
- Forensics
- Risk management
- Temporary Power
- Human error and human factors
- Project management
- Project Engineering

***TECHNICAL PRESENTATIONS, PANEL DISCUSSION, AND TUTORIALS***

There is still an opportunity to make a presentation, propose a panel discussion or provide a tutorial at this event. Draft presentations are due June 30, 2008.

- Three panel discussions are planned:
1. Owners Implementation of Safety Programs
  2. Mega Projects Technical Step-outs, Successes & Failures
  3. Equipment Approaches to Arc Flash Hazard reduction. Individuals or companies interested in participating are asked to submit a 15 minute presentation related to one of the topics.

Any individual or company that is interested in presenting a tutorial should submit it to the ESTMP Technical Committee. See [www.ieee.org/estmp](http://www.ieee.org/estmp) or contact Ron Derworiz ([ron.derworiz@shell.com](mailto:ron.derworiz@shell.com)) 780 997 6546 for more details.

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CCSSC  
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Manufacturer's presentations are planned in future with technical presentations.

**Northern Canada Section Executive Officers**

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