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## A message from the Chair

I write this in late December - a time to look back on all of the events of the past year; and to gaze forward, and plan for the next year.

The Vancouver Section is very active. We have about 1400 members, about 600 students, 175 senior members, and 32 Fellows. During the past year, we held over one hundred meetings! These meetings and other Section/Chapter activities were supported by almost that many dedicated volunteers (thanks to all of them!).

We received generous support from many local companies and educational institutions (thank you). We gave out many awards at the Section level, including our student scholarships.

Our support for student activities did not end there – the Vancouver Section, through its close cooperation with our IEEE Student Branches, helped to organize or sponsor many student activities.

We were local hosts for many conferences including: PES AGM, ICASSP, IPST, IGIC, EDOC, SMARTGRIDCOMM, PRDC, RTSS, IECEE, and more. We installed a permanent monument in a prominent location near Science World. Plus too many other things to list here... we had a busy year!

We will review the accomplishments in more detail, and honour those who contributed to the success of the Vancouver Section in 2013, at our Annual General Meeting and Gala, coming up in March. I hope you will join us for this very significant event. Please read Contact and the Vancouver Section Website for AGM details and registration info.

As I begin my term as Vancouver Section Chair, I am looking forward to many exciting events in 2014:

- Our Section AGM and Gala in March, which will be of general interest to all our Section members (watch for the announcement of our keynote speaker!).
- An interesting variety of technical events from almost every society in the IEEE

- Several major (and exciting) conferences to be held in Vancouver during the next year including: INTELEC, HPSR, IAS, VTC, ICCSE, CCC, and SIGGRAPH!
- Dedication of our fourth local IEEE Milestone.

There will be many more activities taking place. So for the Vancouver Section, the next year promises to be as full as the last! To learn more about all of our upcoming events, please subscribe to our Contact newsletter, and check out the Vancouver Section website.

On a personal level, I am also looking forward to representing Vancouver at the region meetings and at the triennial world IEEE Sections Congress. I also look forward to hearing from you, the members of the Vancouver Section. If you have comments, suggestions or concerns, please get in touch. (StevenMcClain at IEEE.ORG) During the coming year I encourage you to take advantage of your membership, and get involved in your Section! In the mean time, I wish you a happy and peaceful holiday season, and a terrific new year.

Steven McClain  
Chair, IEEE Vancouver





Hansong Su

12:00 Noon - 1:00 PM  
Friday 10 January

BC Hydro  
Edmonds A0  
Sky train Auditorium



Ravi P. Mutukutti  
BC Hydro

**Information**

Joint Power & Energy Chair  
Rama Vinnakota  
Rama.Vinnakota@bchydro.com

# Advances in power system stability through new approach to applying power system stabilisers

This presentation discusses power system stability issues in real world physical terms. The intent of the presentation is to fill the gap between complex mathematics and real world physical quantities and open the stability issues and concepts to the general audience. Stability basics and typical methods of improving power system stability will be covered. Specific stability concepts that will be covered include transient stability (briefly) and oscillatory stability (in depth). Voltage and frequency stability are outside the scope of this presentation. Synchronous generator excitation system basics will be presented. Dual input Exciter Power System Stabiliser will be discussed in detail including a case study at a BC Hydro generating station.

**Speakers:** Hansong Su obtained his Master of Science Degree in Electrical Engineering from University of Manitoba. His special interests are generating station protection and control system, exciters and power system transient analysis. His employment experience includes BC Hydro, EPCOR Utilities Inc., Teshmont Consultants LP and Central Southern China Electric Power Design Institute. He

has been active in PES Excitation Systems Subcommittee since 2013

Ravi P. Mutukutti is with BC Hydro Generation engineering. He worked in different departments within Hydro and currently the Engineering Team Lead for P&C design department. His department is responsible for designing protection and control systems for the BC Hydro generating station fleet. His special interests are hydro turbine governors, exciters and generator control systems. He carried out number of power system modeling and stability studies, governor retrofits, power system stabilizer and excitation system designs. He has over 20 years of experience in the hydro power generation. Prior to BC Hydro, he worked in Yukon Energy, ABB Generation, and Ceylon Electricity Board. He has been an active member of IEEE Excitation Systems Committee since 2008. He has published number of papers in excitation systems, governing systems and HVDC systems. He obtained his Master's Degree in Electrical Engineering from the University of Windsor, Ontario. Ravi is a registered Professional Engineer in Australia, Sri Lanka, Ontario, Yukon and British Columbia



WebEx Broadcast  
Meeting number: 808 842 063  
To join the online meeting (Now from mobile devices!)  
1. Go to

<https://powerex.webex.com/powerex/j.php?ED=242390957&UID=1694627482&PW=NOGQyOGNIODE0&RT=MIM0>  
2. If requested, enter your name and email address. 3. If a password is required, enter 2Attend 4. Click "Join".

IEEE Vancouver member  
Gordon Dobson-Mack  
has been recently elevated to  
Senior Member

2014 IEEE Canadian Conference on Electrical and Computer Engineering

May 5-8, 2014, Toronto, Ontario, Canada, <http://www.ieee.ca/ccece14>

## ***Call for Papers***

Original Full Length Papers due December 20, 2013 via on-line submission at  
<http://www.ccece2014.org/>

The 2014 Canadian Conference on Electrical and Computer Engineering will be held in  
Toronto, Ontario, Canada from May 5th to 8th, 2014 at Ryerson University.

CCECE 2014 provides a forum for electrical and  
computer engineering research and development from Canada and around the world.

All accepted (peer-reviewed) and presented papers  
will be submitted for publication in IEEE Xplore.

Please, share this Call For Papers widely with your colleagues  
and those who may be interested.

Tutorial and Workshop Proposals Submission Proposals for half-day tutorials and  
workshops should be submitted before December 06, 2013 to the Tutorials Chair at  
[tutorials@ccece2014.org](mailto:tutorials@ccece2014.org)



# “Humanitarian advancement through technology”

June 1-4, 2014, Montreal, Canada  
OMNI Hotel, Mont-Royal, Montreal

*Cosponsored by: IEEE Canada, Montreal Section, Ottawa Section, Toronto Section, Vancouver Section, Northern Canada Section, and Newfoundland and Labrador Section*



## Call for Papers

The 2014 IEEE International Humanitarian Technology Conference (IHTC) will be held in Montreal, Canada from June 1-4, 2014. The conference will focus on humanitarian applications of technology in the general areas of technologies for improving the lives of underserved peoples (including aboriginal/indigenous peoples), technologies for the disabled, health-related technologies, humanitarian engineering educational programs, and technologies to assist in disaster situations. The conference will feature outstanding keynote speakers, workshops, a student paper competition and peer-reviewed papers. Technology-oriented papers and papers describing social and economic factors related to humanitarian technology implementation are welcome for the conference.

The technical program committee for the 2014 IEEE IHTC invites you to submit a 200-300 word abstract of a paper in any of the following track areas:

1. Mobile Health (mHealth), Medical Technology, and Telemedicine
2. Operations, supply chain and logistics in humanitarian aid and disaster response
3. Water and Agricultural Technologies
4. Off-grid Power, Renewable Energy and Resilient Power Grids
5. Connectivity and Communications Technologies
6. Humanitarian and/or Sustainable Engineering Programs, Educational Technologies, Course Materials, and Curricula
7. Data and Personal Security Technologies for Humanitarian Applications
8. Underwater Wireless Communications for Humanitarian Applications
9. Underwater Robotics for Humanitarian Applications
10. Community Engagement and Social and Economic Factors in Humanitarian Engineering

## Paper Submission

The format of the paper should follow the IEEE conference papers style. IHTC 2014 will only accept the electronic submission of a full paper in English with maximum six pages on line by uploading the PDF-format file to <http://www.bytematters.com/veda/ihtc.aspx>. Detailed information on paper format and submission procedure can be found on the conference website. IHTC 2014 proceedings are included in IEEE Xplore.

Technical Co-Chairs Contacts at Emails:  
[pripal.singh@villanova.edu](mailto:pripal.singh@villanova.edu)  
and [mohamad.sawan@polymtl.ca](mailto:mohamad.sawan@polymtl.ca)

## Important Dates

Deadline for Abstract Submission ..... January 20, 2014  
Notification of Abstract Acceptance ..... January 31, 2014  
4-page IEEE format Full Paper Due ..... February 28, 2014  
Reviewer's Feedback to Authors ..... March 31, 2014  
Camera-Ready Papers and Copyright Forms Due April 30, 2014

## Exhibitions

There will be an exhibition site at the conference. Companies and institutions who are interested are encouraged to contact the exhibition chair for further information.

For more information on IHTC'2014, please contact: Ferial El-Hawary, General Chair c/o Dept of Electrical and Computer Engineering, Dalhousie University Halifax, NS, Canada B3H 4R2  
Tel: +1(902) 494-3911 Fax: +1(902) 422-7535  
E-mail: [F.El-Hawary@ieee.org](mailto:F.El-Hawary@ieee.org)

For detailed up-to-date information, visit the IHTC2014 Conference  
Web site: [www.ihtc.ieee.ca](http://www.ihtc.ieee.ca)

## PES Vancouver Chapter held their 2013 banquet on 25th November

The event was well attended by over 125 guests from industry and academics. Keynote speaker Dr. Edmund O. Schweitzer, III made an excellent and captivating presentation on “Protection, and Automation of Modern Electric Power Systems”.

Chapter Chair Rama Vinnakota briefed the audience regarding various activities of the PES chapter and achievements of the members during the year. Rama also presented the PES Chapter Outstanding Engineer Award to 2013 Recipient Ebrahim Vaahedi.



Guests having great time in the evening