



Next Event: **Alberta Energy Management System
(EMS/ SCADA System)**

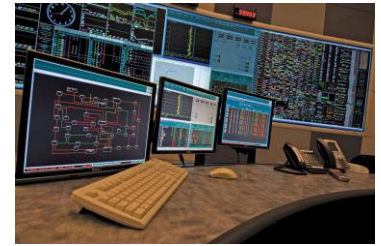
Organized by: **IEEE Control Systems & Instrumentation**

Date: Thursday May 2nd from 5:30 to 9:30 PM

Speaker: **Mr. Raymond (Ray) Wensley, P.Eng.**

Location: 110 – 12 Ave SW, Room T1-Auditorium (Trans Alta Building)

Registration: **SOLD OUT**



Abstract:

Electricity is the lifeblood of modern society and the North American Power electric system is the largest in the world.

In Alberta, the supply of energy and many ancillary services are managed through deregulated markets. The AESO's System Control Centre is the brain that directs the Alberta System and the nervous system that feeds it is made up of thousands of SCADA points. It is from these SCADA points that advanced applications analyze the reliability and stability of the electric system and provide System Controllers with the Situation Awareness to run the system. This talk will describe the interplay of Markets and control systems and the role of SCADA in "keeping the lights on".

- How the Alberta Electric System fits inside the North American System
- How the Markets interact with the AESO Control Centre
- SCADA and the data provided to the Control Centre
- The communication system that allows control of the Grid
- The control of generation and transmission
- Supply and demand balance
- Situational Awareness





Biography:

Raymond (Ray) Wensley, P.Eng. graduated from the University of Saskatchewan in 1979 with a major in Power Systems and a minor in Electronics. After graduating he joined Calgary Power Ltd. (later becoming TransAlta Utilities). In 1982 he became part of the team to build the first Energy Management System (EMS) in the province. Over the next 17 years Ray was involved in the development of the EMS's Automatic Generation Control, State Estimator, Dispatcher's Load Flow, Contingency Analysis and Dispatcher's Training Simulator. In 1998, he joined the PowerPool of Alberta (later becoming the Alberta Electric System Operator) and was part of the team that built the first provincial EMS. In 2007 Ray became Project Engineer on the AESO's EMS replacement project that went operational in 2009. Since 2012 he has been part of the Operations Business Solution group as an EMS Business Solution Analyst.



Evening's Program:

- 5:15 Doors open Registration, Snack/light Dinner (Networking)
- 6:20 Introduction & Announcements
- 6:30 Presentation
- 7:15 Break
- 7:30 Continue with Presentation
- 8:15 QA
- 8:30 End (Networking)
- 9:00 Doors closed

Background:

The idea for a local Control Systems/Automation/Instrumentation chapter was presented at November 2011 AGM for the IEEE Southern Alberta section. Subsequently, monthly meetings have been organized to promote the formation of a new chapter in Southern Alberta. The intent of such a chapter is to use the umbrella of the IEEE to:

- foster networking within the profession,
- to advance the knowledge of the local technical community,
- to bring together a wide breadth of knowledge across all aspects of our specialty,
- to take advantage of local expertise within academia, industry and government,
- to interact with the resources of the wider IEEE organization, and
- to interact with other local activities of the IEEE and other technical organizations.

A formal application has been submitted to officially form this chapter. The Chapter is expected to be official in operation in 2013.

Please feel free to pass along this invitation to your colleagues and friends.

For further information, please contact Matt M. Eskandar at matt.eskandar@mrpsi.com.

If you would like to have your e-mail address removed from IEEE Control Systems/Automation & Instrumentation distribution list, please reply back to IEEE_CSS_Dist@shaw.ca.