



Canadian Operational Research Society
Calgary Section

<http://www.corscalgary.org/>

PROFESSIONAL DEVELOPMENT SEMINAR

When: Noon to 1:30 PM, Wednesday, June 29, 2011

Room 217
TransCanada Tower
450 - 1 Street SW
(See attached map)

SPEAKER

Ming Hu, Alberta Electric System Operator

TOPIC

**Integration of Wind Power into Power Systems and Market
Operations**

Abstract:

There is significant interest in wind power development in the Alberta Integrated Electric System (AIES). Integration of large-scale wind power into the AIES presents significant challenges to electric power system operation due to the wind power variability and uncertainty and the limited flexible resources in the system. This talk will describe and explain the issue and challenges of wind power system integration and related mitigation solutions. It will also discuss related technical work done or lead by the Alberta Electric System Operator (AESO) in order to accommodate wind power development in the AIES, including wind power forecast, wind power management and the development of a new graphical electrical system operation tool.

About the Speaker:

Ming Hu graduated from China in 1988 with a B.Eng. in Electrical Engineering and in 1991 with a M. Eng. in Electric System Planning & Economics. During 1991 to 2001, Ming worked as an engineering model developer, power system planning engineer, power system and project economic analyst, and manager of project economic analysis in the China State Power Economic Research Center (now State Grid Energy Research Institute). Ming joined the operations forecasting group at the Alberta Electric System Operator (AESO) in 2002, and moved to the system performance group in 2006. From 2005-2010, Ming had been working on the analysis, modeling and mitigation of solutions to integrate wind power into system operations. Since early 2011 Ming has worked in the system engineering group.

There is no charge for attending the meeting. The room is available until 1:30 PM for those interested in staying afterwards to mingle and meet other OR practitioners.

Sketch of Location for CORS Meetings at TransCanada Tower in Conference Rooms 214 and 217.

