

**IET Toronto Local Network**  
**IEEE Hamilton Section – Power Chapter**

**Younger Members Event Presentation**

**“The Integration of Wind and Solar Generation into  
Ontario’s Power System”**

**Speaker: Gordon Drake, Supervisor, Market Development, IESO.**

**Date: 3<sup>rd</sup> December 2015**

**Time: Arrive at 18:30, presentations starts at 18:45 for approx. 1 hour**

**Venue: Engineering Technology Building (ETB). Room ETB 535**

**Abstract:**

The Independent Electricity System Operator (IESO) works at the heart of Ontario's power system – ensuring there is enough power to meet the province's energy needs in real time while also planning and securing energy for the future. As part of its mandate, the IESO is tasked with the reliable and efficient integration of wind and solar generation into Ontario’s power system and wholesale electricity market. It does so through:

- State of the art forecasting of renewable generation output
- Enhanced visibility displays for real-time control room operations
- Economic dispatch of renewable generation to maintain system reliability

**The Speaker**

Gordon Drake, Supervisor, Market Development, Independent Electricity System Operator (IESO), Ontario. In this position, Mr. Drake is responsible for the evolution of Ontario’s physical and financial energy markets to promote efficiency and facilitate competition from a wide range of sectors. Prior to his current role, he served as Supervisor of the IESO’s Renewables Integration Initiative, tasked with the reliable and efficient integration of an expected 10,000 MW of wind and solar generation into Ontario’s electricity market.

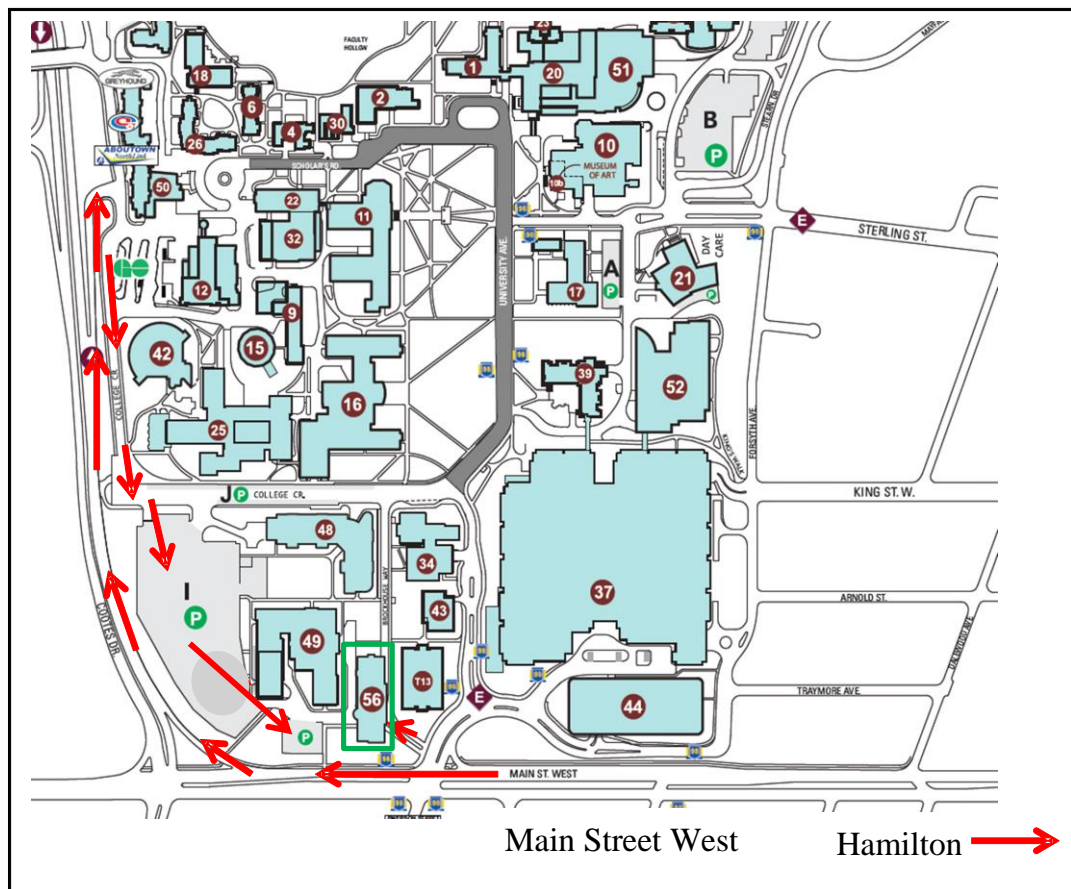


He joined the IESO in 2006 and has held a number of positions related to both market and system operations. Before joining the IESO, he was an advisor on transmission policy to the Canadian Electricity Association. Mr. Drake earned a B.A.Sc. in mechanical engineering from the University of Toronto.

## The Venue

McMaster University, 1280 Main Street West, Hamilton, ON, L8S 4K1

Room: Engineering Technology Building (ETB), building 56. Room **ETB 535**



## Attendance

Attendance is free, but please confirm in advance via email to Prof. Nigel Schofield at: [nigels@mcmaster.ca](mailto:nigels@mcmaster.ca)