



In Conjunction With  
National Science and Technology Week



## You Are Invited to a Seminar on **Canada's Nuclear Technology**

**Thursday 2009 October 15, 7-9 pm**

**University of Ontario Institute of Technology, Room UL9**

**Note: Space is limited. Please come early to ensure attendance.**

**7:00 pm - Light Refreshments**

**7:30 pm - “Splitting Atoms, Canadian Style” by Jeremy Whitlock, PhD, FCNS**

Where was the world's first nuclear reactor built, and by whom?

If you didn't say “downtown Ottawa” and “George Laurence”, you're among millions of other Canadians who aren't aware of this Canadian scientific milestone. Take a journey through over 100 years of nuclear achievement in this country of wood-hewers and water-drawers.

It is a time of great uncertainty and great promise for the Canadian nuclear industry. To clearly face the issues and challenges today, it is helpful to know where we came from. The plans to provide tomorrow's electricity must meet environmental, economic, and performance expectations that severely limit the number of realistic options. Among these, nuclear power is one of the few options for large-scale baseload electricity production.

This presentation will briefly cover the history of Canada's nuclear program, its current status, and its promise for the future.



**8:15 pm - “Turning Rocks into Gold – Electric Gold” by Dan Meneley, PhD, PEng, FCAE, FCNS**

This presentation briefly outlines the available sources of energy in the universe -- especially the potential energy in uranium -- that can be converted to satisfy human needs. Changing uranium potential energy into electrical energy is a major engineering task including mining and purification of fuel, construction of fission chain reactors and associated equipment for capturing the heat released in the process.

The several steps involved in “winning” useful energy from uranium ore are addressed by separating them into four categories: science (learning nature's laws), engineering (using nature's laws to meet society's needs), environment (establishing electricity production plants), and finally society (governance of the process by community laws and practice).



It is known that sufficient uranium deposits exist around the world, to supply all of the world's energy needs for thousands of years.

**Directions to the University of Ontario Institute of Technology**

**Driving from Toronto:**

Hwy. #401 east to Thickson Road.

North on Thickson Road to Taunton Road.

East on to Taunton Simcoe Street North.

North on Simcoe about 2 km to Durham College and UOIT (on West side, South of Conlin Road)

The University is located on the South-West corner of Simcoe and Conlin.

**From Ottawa:**

Hwy # 401 West to Simcoe Street.

North on Simcoe Street past Taunton Road.

The University is located on the west side of Simcoe 2 km north of Taunton Road.



UOIT Campus Map. Note: Building UL is South of Founders Lot 3, North of Library

