



## **CNS Nuclear-101 Course Sheraton Hamilton Hotel 2014 May 4-6**



The CNS Nuclear-101 course is a general-level background outreach course for people working in the Industry as well as anyone interested in obtaining a good understanding of Nuclear issues.

**Instructors: Doug Boreham, Jason Donev, Benjamin Rouben**

### **Course Summary**

The course includes three modules:

#### Nuclear Fuel Cycle (JD)

Basic introduction to energy flow, nuclear theory and how nuclear power stations work. An overview of the nuclear fuel cycle (exploration, mining, processing enrichment and nuclear power generation), nuclear waste storage and reprocessing.

#### Nuclear Myths and Reality (BR)

Review of nuclear history of nuclear power, nuclear accidents, and nuclear benefits to society. Common public misperceptions and how to deal with them. Frequently-Asked-Questions about nuclear technology, and effective ways to answer them to a non-technical audience.

#### Radiation and Risk (DB)

Ionizing radiation and its affect on the environment and the human body. Overview of safety, particularly in the context of nuclear accidents. Risk and the public perception of radiation.

## **Timetable**

***Note: A small “get-to-know-one-another” reception is planned for 6 pm on Sunday May 4. If you can make it, reserve your attendance at the reception when you register.***

***Note: A Continental Breakfast will be available on both days of the course (May 5 and 6) from 7:45 am onwards.***

Day 1 8:30 – 8:45 am Course overview. Introduction of Instructors

8:45-12:00 Introduction to Nuclear Theory and the Nuclear Fuel Cycle  
(Coffee break 10:00-10:15 am)

12:00-12:45 pm Lunch

12:45-4:15 pm Radiation and Risk  
(Coffee break 2:15 – 2:30 pm)

Optional Tour of McMaster Reactor Tour 4:30 – 5:45 pm

Day 2 8:45-12:00 Nuclear Myths and Reality  
(Coffee break 10:00-10:15 am)

12:00-12:45 pm Lunch

12:45-4:00 pm Demonstrations / Question Period / Panel Discussion

4:00-4:30 pm Course Wrap-up / Return of Evaluation Forms