

# PROFESSIONAL DEVELOPMENT SEMINAR

## “NUCLEAR – THE NEXT GENERATION”

Sponsored by



8:30 AM – 5 PM

Sunday, June 9, 2013

Marriott Toronto Downtown Eaton Centre  
525 Bay St, Toronto, ON, M5G 2L2



The **Canadian Nuclear Society (CNS)** and the **North American Young Generation in Nuclear (NA-YGN)** are pleased to invite you to a professional development seminar\*

**8:30 AM – 9:30 AM      REGISTRATION & BREAKFAST**

**9:30 AM – 9:45 AM      OPENING CEREMONY**

**9:45 AM – 10:30 AM    OUR AGEING NUCLEAR POPULATION - HOW DO YOU MANAGE THE TURNOVER?**

The nuclear technology and infrastructure is ageing! We refurbish, decommission and new build it. But a large percentage of the nuclear industry workforce is ageing as well. As Baby Boomers begin to retire at a rapid rate, the industry must mentor the young generation to transfer the knowledge and experience. This session will provide effective methods for transfer of knowledge in Nuclear Power Plant operating organizations along with examples of proven management strategies and initiatives.

**10:30 AM – 11:30 AM    ONCE IN A LIFETIME - BRUCE POWER RESTART PROGRAM (PANEL DISCUSSION)**

The restart and refurbishment of the 4 Units at Bruce A brings online an additional 3,000 MW of new baseload capacity through 2036. This involved one of the most complex engineering challenges in Ontario's history of infrastructure. After being removed from service in the mid-90s, Units 1 and 2 synchronized to Ontario's electricity grid in September and October 2012, respectively. Soon after, they were declared commercially operational, bringing the project to an end and making Bruce Power the world's largest operating nuclear facility. This panel discussion will provide a brief overview of various challenges, hard work and determination that went into years of extensive work, with particular focus on safety and enhanced quality of work.

**11:30 AM – 12:15 PM    HOW TO CREATE AN IMAGE THAT COMMUNICATES SUCCESS  
(MODERATED Q & A)**

Are you feeling discouraged by your inability to stand out and command during this economic downturn? Whether you are a corporate leader or a high-achieving entrepreneur – everyone is looking for effective methods and fresh strategies to attract a more elite clientele. This session will provide a skilful and intentional use of the ABC's (Appearance, Behaviour and Communication skills) of professional presence.

**12:15 PM – 1:00 PM      LUNCH & NETWORKING**

**12:15 PM – 1:00 PM    SPEED DATING WITH NUCLEAR DIRECTORS & PROFESSIONALS – FOR STUDENTS**

During lunch, this session will provide an environment for students to network with Directors and Industry Professionals. This session will allow you to exchange your professional information, discuss job responsibilities, share professional goals and explain important initiatives. Don't forget to bring your business card!!

**1:00 PM – 2:00 PM**

**SMALL MODULAR REACTORS – IS THIS THE FUTURE?**

There is revival of interest in small and simpler units for generating electricity from nuclear power, and for process heat. This interest is driven both by a desire to reduce the impact of capital costs and to provide power away from large grid systems. This session will provide a brief update on the uses of small modular reactor i.e., replacing aging fossil-fuel units of similar size and power, use of SMRs in small, remote communities where diesel is currently in use, process heat applications as well as local heat applications in arctic communities. This session will also focus on why the young generation needs to have a different view of future electricity demand.

**2:00 PM – 3:00 PM**

**GLOBAL URANIUM SUPPLY**

Uranium is one of the more common elements in the Earth's crust - it is more common than tin, about 40times more common than silver and 500 times more common than gold. Still, the uranium industry remains a mystery to many in the general public and often even to industry analysts. This session gives you an overview of the framework in which uranium mining operates. It looks at the global uranium mining industry, its major players, and demonstrates how uranium fits into the nuclear fuel cycle. It also helps you understand at a basic level what uranium is, what radiation is, how nuclear energy compares to other forms of power, and how uranium is being mined safely throughout the world.

**3:00 PM – 3:30 PM**

**LEADERSHIP & GOAL SETTING - WHAT'S THE CONNECTION?  
(PANEL DISCUSSION)**

Playing a Leadership role is an urge intrinsic to humans. However, before you are considered effective in leading others, you have to find a follower and a leader within you. Without being a follower, you will find it difficult to understand and realize what leadership is. One such skill of developing and sustaining leadership position in whatever you pursue is the skill of Goal Setting. This session will focus on how to create MASTER Goals (**M**easurable, **A**ttainable **S**tretch **T**ime bound, **E**nthusiastic & **R**ealistic) that helps you achieve leadership roles.

**3:30 PM – 3:45 PM**

**COFFEE BREAK**

**3:45 PM – 4:45 PM**

**NUCLEAR ENERGY - A FINANCIAL DISCUSSION**

According to a study by the Canadian Energy Research Institute\*\*, in 2005 Canada's 18 nuclear reactors sold energy worth almost C\$5billion, contributed C\$6.3 billion to GDP, and created C\$1.4 billion in government revenue. The nuclear power industry employed, directly and indirectly, over 66,000 people. Nuclear power is cost competitive with other forms of electricity generation, except where there is direct access to low-cost fossil fuels. This session assesses the financial history of nuclear in Canada and provides a head start of what to expect in the future.

**4:45 PM – 5:00 PM**

**CLOSING REMARKS**

\*Program is subject to Change

\*\* 1. CERI, <http://www.cna.ca/english/pdf/Studies/CERI/CNAEconomicReport08.pdf> Final Report, Prepared for the CNA (June 2008)

The seminar is on the Sunday preceding the CNS annual conference and is **\$30 (including HST)** and **registration is required due to limited seating**. To register for the seminar, or for more information, please contact NA-YGN <http://conf2013.cns-snc.ca/naygn.html>. The registration deadline is **May 9, 2013**.

For information about the CNS annual conference (which runs June 10 – 12, 2013) and to register to attend the conference, please visit <http://conf2013.cns-snc.ca/>