



**Canadian Nuclear Society
Société Nucléaire Canadienne
Ottawa Branch**

The CNS Ottawa Branch, with kind support of CNSC Staff, is pleased to present

Tooling Development at the Chalk River R&D Laboratories in Support of the NRU Vessel Leak Repair Project

**Dr. Gina Strati
Manager, Mechanical Equipment Development Branch
AECL Chalk River Laboratories**

In addition to producing the majority of the world's supply of medical isotopes, the NRU (National Research Universal) reactor is also a versatile research reactor that is used for materials and fuel research to support Canada's fleet of nuclear reactors, and home to the Canadian Neutron Beam Centre. In May 2009, a heavy water leak was discovered in the NRU reactor at the Chalk River Laboratories. Assessing the source and extent of the leak and moving forward with repair strategies required the development of a series of customized tools. The Mechanical Equipment Development (MED) Branch, part of the R&D division of AECL, was heavily involved in the design, development and testing of tooling for NRU vessel wall inspections, inner vessel wall cleaning, laser profilometry of the inner vessel wall and foreign material exclusion. This talk will focus on the MED-designed tooling and the inherent challenges faced by the talented engineers and technologists.

Date: Friday, January 29

Time: 12:00 pm for lunch; talk starts at 12:30 pm.

**Location: Canadian Nuclear Safety Commission Building
280 Slater Street, 14th floor.**

Special: CNS will provide a light lunch. There is no charge for this event, but please, e-mail Thexton@rogers.com to let us know if you are coming so we can order the lunch.

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- ALL WELCOME -