



**Canadian Nuclear Society  
Soci t  Nucl aire Canadienne  
Ottawa Branch**

**CANDU Non-Proliferation and Safeguards:  
A Good Story Seldom Told**

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by

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Canada is a leader in the development and promotion of an effective and comprehensive global nuclear non-proliferation regime. Nuclear weapons proliferation is a political decision mitigated through technological (“intrinsic”) barriers and institutional (“extrinsic”) controls. CANDU technology has incorporated intrinsic proliferation resistance features since its development, derived mainly from the fundamental physics of natural uranium fuelled reactors. While these intrinsic features minimize the attractiveness of CANDU technology as a target for proliferation, extrinsic measures are still required to provide verification and deterrence through timely detection. IAEA safeguards have been successfully incorporated in CANDU reactors for decades, and continue to evolve as newer technologies are introduced.

This talk will summarize CANDU non-proliferation features and the history of Canadian involvement in the global non-proliferation regime. The current status and future direction of CANDU safeguard technology will be discussed, including AECL’s role in supporting CANDU and international safeguards.

Date: **Thursday, December 13, 2007**

Time: 7:00 p.m.

Location Air Force Mess (Control Tower, 3rd Floor)  
158 Gloucester St. (between Bank and O’Connor)

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**- ALL WELCOME -**