



Canadian Nuclear Society / Société Nucléaire Canadienne

Chalk River Branch, c/o Dr. Blair P. Bromley, AECL-Chalk River Laboratories, Chalk River, ON K0J 1J0

<http://www.cns-snc.ca/branches/ChalkRiver/> e-mail: webmaster@cns-snc.ca

*“Supporting nuclear science and technology for over 25 years”
“plus de 25 ans de promotion de la science et de la technologie nucléaires”*

Energy Challenges and Nuclear Opportunity

The Chalk River Branch of the Canadian Nuclear Society is pleased to welcome Professor John Luxat of McMaster University, and President of the CNS, who will speak about the potential energy crisis that North America faces in the near future, and the role that nuclear energy could play in its mitigation.

The energy situation in North America is reviewed, with a particular focus on security of supply. Based upon this review, a case is made that both Canada and the United States are in the midst of a major crisis with a marked level of insecurity in the supply of fossil fuels, with the exception of coal. This crisis is not impending but is currently in process. Based upon available proven resources and rates of consumption the time frame for rational decision-making is rapidly shrinking.

The ability of environmentally acceptable options for electricity generation to meet the developing energy needs in North America is critically assessed and the capability of fission power to help alleviate the challenges will be discussed. It becomes abundantly clear that there is a unique opportunity for nuclear fission power to play a major role, which is already recognized in some quarters. To bring this opportunity to fruition will require a number of important decisions in the short term. The role that the CNS and its members can play in facilitating these decisions will be discussed.

John Luxat is the NSERC/UNENE Industrial Research Chair in Nuclear Safety Analysis in the Department of Engineering Physics at McMaster University in Hamilton, Ontario. Before joining McMaster he was Vice President, Technical Methods, at Nuclear Safety Solutions Ltd. in Toronto. Prior to that he was Manager of Nuclear Safety Technology at Ontario Power Generation. Dr. Luxat has over 34 years of experience in the nuclear industry, the majority of which was with Ontario Hydro, and Ontario Power Generation. He has participated in nuclear safety, nuclear technology and R&D projects, both within Canada and internationally and has represented Canada in activities of international organizations, such as the IAEA and the OECD.

**Professor John Luxat, CNS President
Engineering Physics, McMaster University**

7:30 PM

Monday, February 20, 2006

The Bear's Den, Deep River

Dinner at 6:30 pm

To purchase tickets, contact Blair Bromley before Feb. 17, 2006

584-1518, or 584-8811 (ext. 3676)

CNS Member tickets \$10. Others \$18.

Please purchase your dinner ticket early to guarantee a seat.

Further information: Dr Blair P. Bromley at 584-8811 Ext. 3676, or 584-1518