



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”*

“Cosmic Radiation and the Frequent Flyer” or “The Dangers of Getting High”

The Chalk River Branch of the Canadian Nuclear Society is pleased to welcome Dr. Brent Lewis, who will speak on “Cosmic Radiation and the Frequent Flyer” or “The Dangers of Getting High”. The co-authors of the talk are Prof. Les Bennett (Royal Military College) and Dr. Harry Ing (Bubble Technology Industries).

This presentation will address aircrew and spacecrew radiation exposure that is derived from galactic cosmic radiation and solar particle events. The talk will describe the issue of cosmic radiation exposure for flight crew and frequent flyers, and details research to support upcoming regulation by Transport Canada to monitor aircrew exposure in the airline industry. Issues that have arisen for spacecrew are also addressed. This research has involved collaboration with Bubble Technology Industries, Chalk River. The talk is intended for a general audience.

Dr. Brent Lewis is a Professor of Nuclear Engineering at the Royal Military College of Canada. From 1980 to 1988 he worked at the CRL where he was responsible for an in-reactor research program on nuclear fuel. He has published over 200 papers and reports on nuclear fuel behaviour and aircrew/spacecrew radiation exposure. He sits on various committees and working groups for the American Nuclear Society, International Commission on Radiological Protection, International Organization for Standardization, and International Space Station Multilateral Radiation Health Working Group. He is a fellow of the Canadian Nuclear Society and was recently awarded an UNENE/COG/NSERC Industrial Research Chair in Nuclear Fuel.



Brent Lewis

7:30 PM

Thursday, June 26, 2008

**Bennett / Mackenzie Room, J.L. Gray
Centre**

(Entry via rear security entrance)

Refreshments will be served – ALL ARE WELCOME

Further information: Blair Bromley at 584-8811 Ext. 3676, or 613-584-1518