



Deep River Science Academy

Summer Lecture Series

Co-sponsored by
Canadian Nuclear Society
Chalk River Branch



“Wolsong Tritium Removal Facility”

The Deep River Science Academy and the Chalk River Branch of the Canadian Nuclear Society are pleased to welcome Dr. Hugh Boniface of Atomic Energy of Canada Limited (AECL), who will speak on the Wolsong Tritium Removal Facility (WTRF).

Hugh will share his personal experience during the commissioning of the WTRF. The talk will be in two parts: technical and social. In the technical overview, Hugh will provide a brief introduction to the properties of tritium and the technology for its separation from other hydrogen isotopes. The basic design and arrangement of the WTRF will then be described, with minimal technical detail and many illustrations and photographs. Hugh will also try to describe a little of what it was like to live and work in Korea. This social segment will be based entirely on photographs.

Hugh Boniface came to Canada from his native New Zealand in 1980 to further his education at the University of New Brunswick, Fredericton. Four years later, after receiving his PhD in Chemical Engineering from the University of New Brunswick, he joined the Chemical Engineering Branch at AECL, Chalk River. Since that time he has developed a career in processes for the separation of hydrogen isotopes. From his work on developing new heavy water production processes, Hugh took on the role of technical lead for the design, construction and operation of a full industrial demonstration of the first Combined Industrial Reforming and Catalytic Exchange (CIRCE) process. After a successful two years of operation of the Prototype CIRCE Plant in Hamilton, Ontario, Hugh was ready to move on to another large project. In the related area of tritium separation, he took on the role of technical adviser for the commissioning phase of the WTRF. Hugh was part of AECL's site support team for this large project and spent nearly 2 years based in Wolsong, Korea. The WTRF began operation 2007 July and is currently reducing Wolsong Unit 1 tritium content in preparation for refurbishment in 2009.

Hugh Boniface, PhD

Thursday, 2008 July 24, starting at 6:30 p.m.

J.L. Gray Engineering Centre -- Bennett/Mackenzie Room,
(Please come to the rear entrance of the building)

Refreshments will be served – ALL WELCOME!