



**Canadian Nuclear Society  
Chalk River Branch  
Professional Engineers Ontario  
Algonquin Chapter**



## **Fukushima Dai-ichi: A Technical Assessment of the Events and Radiological Consequences** *Presented by* **Professor John C. Luxat, McMaster University**

The Chalk River Branch of the Canadian Nuclear Society and Professional Engineers Ontario, Algonquin Chapter, are pleased to welcome Professor John Luxat, who will speak on “Fukushima Dai-ichi: A Technical Assessment of the Events and Radiological Consequences.”

A nuclear safety assessment of the Fukushima Dai-ichi events will be presented based upon best available information from multiple sources and independent analysis of accident progression. The presentation covers the accident progression in the four units, reactor core heat up, core damage estimation and hydrogen generation, features of the explosions and damage to the units, fission product release and dispersion, and radiological consequences.

Dr. John C. Luxat is Professor in the Department of Engineering Physics and holds the NSERC/UNENE Industrial Research Chair in Nuclear Safety Analysis at McMaster University. He currently has a very active research program at McMaster, studying many aspects of the safety of current and future reactors and nuclear fuel cycles. He is the Principal Investigator for the Ontario funded “Nuclear Ontario” university research network, and for the recently announced Canada Foundation for Innovation (CFI) project to establish the Centre for Advanced Nuclear Systems at McMaster University. Prior to joining McMaster in 2004 he had 32 years experience working in many areas of nuclear safety and nuclear engineering in the Canadian nuclear industry, as Vice President, Technical Methods at Nuclear Safety Solutions Limited in Toronto and, prior to that, as Manager of Nuclear Safety Technology at Ontario Power Generation. He consults to numerous Canadian companies on nuclear safety and nuclear engineering issues and has provided advice to government organizations at the national and provincial level. In 2004 he was awarded the Canadian Nuclear Society/Canadian Nuclear Association Outstanding Contribution Award for his significant contributions to safety analysis and licensing of CANDU reactors.



**Professor John C. Luxat**  
Department of Engineering Physics  
McMaster University

Thursday, 2011 August 25  
7:00 p.m.

Bennett Room, J.L. Gray Building  
(Entry via Rear Entrance)



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