



Women in Nuclear - Canada

A world-wide association of women working professionally in various fields of nuclear energy and radiation applications

Canadian Nuclear Society / Société Nucléaire Canadienne

“Supporting nuclear science and technology for over 25 years”

“plus de 25 ans de promotion de la science et de la technologie nucléaires”

“An Overview of Fuel Development Work”

The Fuel Development Branch is generating the science and technology necessary to expand the current limits of fuel utilization, to deploy alternative fuel cycles, to increase fuel flexibility and to improve the environmental sustainability of nuclear technologies. This can only be done with a strong capability base. Rosaura Ham-Su's talk will give an overview of what is done in the Fuel Development Branch, supplying the background in which a number of initiatives recently undertaken by the Branch can be understood and discussed.

The speaker, Rosaura Ham-Su, graduated with a degree in Engineering Physics from the Universidad Iberoamericana. She then went to McMaster University, where she obtained her doctorate in Materials Science under the supervision of Prof. David Wilkinson (now Dean of the Faculty of Engineering at McMaster) on the “Processing and Creep Properties of Alumina/Silicon Carbide Composites”. During this time she also worked at the Technical University of Dresden, Germany, on the Modeling of Internal Strains in Heterogeneous Materials.

Rosaura then moved to Halifax, Nova Scotia, where she was a Research Scientist at Nova Crystals Ltd. While at Nova Crystals, she developed light protective composite armour for use against multiple armour-piercing rounds. From there, Rosaura became a Defence Scientist and Group Leader of the Functional Materials Group at Defence Research and Development Canada – Atlantic. Her work there included consulting for our Navy and developing magnetic shape memory alloys and composites for missiles, sonars and energy harvesting devices. Recently, Rosaura also won an international team award for work on Friction Stir Processing of Nickel Aluminum Bronze, an alloy used in submarines. She has been with AECL since 2007 in the Fuel Materials Properties and Behaviour Section of the Fuel Development Branch. In 2010 she was appointed acting Branch Manager.



Dr. Rosaura Ham-Su

Manager

Fuel Development Branch

Talk : 5:00 pm, Tuesday April 12, 2011

There will be pizza!

Bennett / Mackenzie Room, J.L. Gray Centre

(Entry via rear security entrance)