Canadian Nuclear Society / Société Nucléaire Canadianne
998 Bloor St W., #501, Toronto, Ontario, Canada M5G 1X6

https://www.cns-snc.ca
Tel./Tél.: 416-977-7620
E-mail/Courriel: cns_office@cns-snc.ca

Durham Region Branch of the CNS presents:

Guaranteed Shutdown States – Tradition and Innovation

*A presentation by **Constantin Banica** and **Aaron Sullivan** of OPG*

with opening remarks by

***Steve Goodchild**, Manager of Restart Engineering, Darlington Refurbishment.*

The usage of Operating Policies and Principles (OP&P) in the Canadian licensing process for nuclear power plants was followed by the development of the concept of Guaranteed Shutdown States (GSS) in the 1980s. Although there were no regulatory requirements prescribed by the AECB at the time, Ontario Hydro experts worked with the regulator in defining the conditions for GSSs. The Overpoisoned GSS and Drained GSS were the only two options until the 2000s when Rod-Based GSS (RBGSS) was introduced at Pickering and Darlington. Moderator-drained RBGSS is the most recent addition to the "GSS family." The presentation will also briefly address the differences between CANDU and LWR "shutdown modes."

Date/Time: **Thursday, June 21, 2018, 12:00 – 12:30 pm**
Location: Darlington Energy Complex – Auditorium
1855 Energy Drive, Courtice, ON L1E 0E7

For OPG employees, CNS members & interested members of the public

Brief Speaker Biographies

Constantin Banica, BSc, MEng, P.Eng.

Constantin holds a degree in Engineering Physics (Nuclear Reactors) from University of Bucharest (Romania), and a MEng degree from University of Toronto. He started his career at Cernavoda NPP Unit 1 in 1992 and enjoyed reactor physics commissioning tests. He supervised the Reactor Physics team for the start-up of Qinshan CANDU units 1 and 2 (2002-2003, China). In Canada, he worked for CNUS, AECL, NSS and OPG (Pickering A Restart, IMS, Darlington Reactor Physics) and is currently working in OPG's Projects and Modifications division. Constantin wrote papers for the CNS Conferences on physics tests, flux detectors, adjuster aging, etc., and delivered many technical presentations to nuclear professionals.

Aaron Sullivan, BSc, BESc, P.Eng.

Aaron holds degrees in Physics and Chemical Engineering from The University of Western Ontario. He started with OPG in 2005, when he joined the Fuel and Reactor Physics section at Darlington Nuclear; there he dealt with operating and regulatory matters associated with Guaranteed Shutdown States. In 2017, Aaron moved into his current role in Nuclear Refurbishment as Engineering Lead for Return to Service Physics, applying his knowledge of GSSs to Unit 2 restart activities.

Bring your lunch and join us for this talk!

And find out more about the Canadian Nuclear Society, and its local Branch!

Questions: contact Nick Preston at nick.preston@opg.com