



Canadian Nuclear Society
Société Nucléaire Canadienne



13th International Conference on CANDU Fuel
“CANDU Fuel: Evolution towards Optimal Performance”
“Combustible CANDU: Évolution vers la performance optimale”

Holiday-Inn Waterfront Hotel and Conference Centre,
Kingston, Ontario, 2016 August 15-18

CALL FOR PAPERS

The highly successful 12th International CANDU Fuel conference held at Kingston in 2013 brought together participants from over 8 countries and sponsorship from 15 prominent organizations in the nuclear community. The 13th International Conference on CANDU Fuel will once again bring together international experts in the nuclear industry involved in design, R&D, fabrication, operation, modelling, safety analysis and regulation. Under the theme of *CANDU Fuel: Evolution towards Optimal Performance*, papers are solicited for the following categories:



- A. **Fuel Performance:** PIE studies/techniques, fuel behaviour (normal operating conditions and extended burnup), station experience.
- B. **Fuel Safety:** Licensing issues, accident studies, fission-gas release, fuel behaviour, LOCA initiative and experimental simulation, fuel acceptance criteria, and fuel deformation, dry-out.
- C. **Fuel Design & Development:** Modifications to fuel designs and quality assurance in fuel design and development, MOX, inert matrices, DUPIC, slightly enriched uranium (SEU), recovered uranium (RU), thoria-based fuels, SCWR fuel, economical and societal implications of fuel cycles.
- D. **Fuel Code Development:** Predictive capability for thermal, mechanical, irradiation and fission-gas release behaviour under normal operating and accident conditions, predicting aerosol behaviour.
- E. **Fuel Manufacturing:** Fuel manufacturing experience, advances in manufacturing & inspection technologies, blending Recycled Uranium (RU) & Depleted Uranium (DU), fuel manufacturing issues and improvements.
- F. **Fuel Management:** Fuel management schemes, load following, fuel physics analysis, specific operational problems, fuel handling
- G. **Fuel & Fuel Channel Thermalhydraulics:** CHF and CCP assessment and enhancement, reactor aging, crept pressure tube, fuel simulation and testing.
- H. **Spent Fuel Management:** Fuel handling technology, spent fuel storage, in-storage fuel behaviour.
- I. **Advanced Code Development:** Development of models that support fuel performance and safety assessments



We are also accepting nominations for the CNS Fuel Technology award to recognize senior or retired individuals who have contributed greatly to the field of **Nuclear Fuel**. Please send your nomination letters to Dr. Paul K. Chan at Paul.Chan@rmc.ca by 2016 May 31. For further details on this award, please visit our website.

Abstract and full paper must be prepared and submitted to www.softconf.com/h/cns_fuel_2016/ according to guidelines in the conference website www.candufuel2016.ca. The following are important deadlines for paper submission. Late submissions may not be accepted.

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| • 2015 October 2 | Early Bird Registration (2015 Oct 2 -2016 June 30) |
| • 2016 February 12 | Extension of On-line submission of Abstracts |
| • 2016 March 31 | Notification of the Acceptance of Abstracts |
| • 2016 May 01 | Deadline for Submission of Draft Papers |
| • 2016 May 01 | Nominations for Fuel Technologies Award is due |
| • 2016 May 30 | Notification of Acceptance of Full Papers |
| • 2016 June 30 | Early Bird Registration Closes |
| • 2016 June 30 | Deadline for Final Version of Papers |

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