



Call for Extended Abstracts

4th International Technical Meeting on Small Reactors (ITMSR-4) “Next Generation Small Reactors and Research Reactors”

2016 November 2-4

Delta Ottawa City Centre, Ottawa, Ontario CANADA

Note: In response to demand, the deadline for submission of Extended Abstracts has been extended to August 15!

Objective

Canadian Nuclear Laboratories (CNL) and Canadian Nuclear Society (CNS) are hosting the 4th International Technical Meeting on Small Reactors.

Small nuclear reactors can play an important role in addressing the energy, health, safety, security and climate change goals of the world. While the water-cooled small modular reactor technology is developing rapidly, a number of non-water-cooled advanced small reactor technologies, such as the molten salt reactor, the liquid metal reactor and the high temperature gas reactor, are being developed. These small reactors have advanced passive safety features, are resistant to nuclear proliferation, have no green house gas emissions and promoted as being economically competitive. They are suitable for niche and off-grid applications as well as connection to electric grids in slow-growing economies to increase capacity as needed.

Next-generation research reactors are considered for multiple purposes, such as radionuclide production, silicon doping, neutron activation, neutron radiography, materials research, fuel irradiation and generating data for reactor-physics-code validation activities.

This technical meeting will cover topics of interest to designers, operators, researchers and analysts involved in the design, development and deployment of small reactors for research and power generation purposes.

A technical tour of the Chalk River Laboratories, hosted by CNL, will be offered to all interested attendees on November 4. The tour will include the state-of-art Hydrogen Isotopes Technology lab, the Biological Research Facility, ZED-2 and NRU research reactors and the Fuel Development lab.

Topics of Interest

Two parallel tracks are planned on small modular reactors (SMR) and research reactors on the following topics. Abstracts not covering these topics will also be considered for presentation.

Track 1: Small Modular Reactors

- Non-water-cooled small reactors
- Licensing of prototype and demonstration SMRs
- Underground installations
- Off-grid installations
- Autonomous control and operation

- Source term and consequence evaluation
- Passive and inherent safety
- Accident tolerant fuels
- Novel concepts and applications
- Economics and Social acceptance

Track 2: Research Reactors

- Multi-purpose Research reactors
- Materials research and neutron beams
- Radionuclide production
- Operating experience
- Reactors Physics
- Thermalhydraulics and Safety

Extended-Abstract Submission

Authors should submit an extended abstract (two to four pages) via the following link: <https://www.softconf.com/h/sr2016>, which is also given on the conference website: www.cns-snc.ca/events/4tm/. Extended abstracts approved for presentation will be published in the Conference Proceedings (CD format).

Technical Meeting Organizers

Advisory Committee:

Dan Brady (NRCAN)
Paul Chan, (RMC)
Marcel de Vos (CNSC)
Roger Humphries (AMEC Foster Wheeler)
Benjamin Rouben (CNS)
Pavel Samuleev (RMCC SLOWPOKE-2)
Gina Strati (CNL)
Bhaskar Sur (CNL)
Daniel Banks (Canadian Neutron Beam Center)

General Chair..... Stephen Bushby, AECL
Technical Program Co-Chairs.....
..... Metin Yetisir and Steve Livingstone, CNL

Key Dates

Extended abstract deadline August 15, 2016
Acceptance of extended abstracts..... August 31, 2016
Early-Bird registration deadline Sep. 12, 2016

Further Information

Additional information is available from www.cns-snc.ca/events/4tm/ or Metin Yetisir, Technical Program Co-Chair, CNL, Tel: (613) 584-8811 ext. 46577; Email: metin.yetisir@cnl.ca.