



# Preliminary Call for Papers



## **“Helping the Environment with Advances in Thermalhydraulics”**

### **14<sup>th</sup> International Topical Meeting on Nuclear Reactor Thermalhydraulics (NURETH-14)**

September 25-29, 2011

Hilton Toronto Hotel, Toronto, Ontario, Canada

Conference Website: <http://cns-snc.ca/events/nureth-14/>

#### **Objective**

Canada is the hosting country for the 14<sup>th</sup> International Topical Meeting on Nuclear Reactor Thermalhydraulics (NURETH-14). Continuing the tradition of the highly successful series of thirteen conferences, NURETH-14 will gather an international group of leading academic and industry researchers and practitioners engaged in engineering and scientific work focused on nuclear reactor thermalhydraulics. This is the only major conference series devoted solely to the advancement of knowledge in the nuclear reactor thermalhydraulics field. NURETH-14 is a unique opportunity for researchers and practitioners in the field to present results of their work and discuss challenges and new ideas.

#### **Key Deadlines**

Abstract submission ..... Nov. 11, 2010  
Acceptance/author notification ..... Jan. 10, 2011  
Draft paper submission ..... Mar. 07, 2011  
Comments to authors ..... May 23, 2011  
Final paper submission ..... July 10, 2011

#### **Initiating Conference Organizers**

**Honorary Chair:** .....M. Ishii (Purdue U.)  
**General Chair** ..... J. Luxat (McMaster U.)  
**General Co-Chair** .....F.B. Cheung (Penn. State U.)  
**Technical Program Chair** ..... J. Riznic (CNSC)  
**Technical Program Co-Chair** ..... C. Oh (INL)  
**Steering Committee Chair** ..... L.K.H. Leung (AECL)  
**Local Organizing Comm Chair** .....Y. Parlatan (OPG)  
**Technical Program Committee** ..... To be announced  
**Local Arrangements** .....B. Rouben(12 & 1 Consulting)  
**Registration** ..... CNS Office (cns-snc@on.aibn.com)

#### **Abstract and Full-Paper Submission**

Abstracts and full papers must be submitted via an on-line submission link, posted on the Conference website:

<http://cns-snc.ca/events/nureth-14/>

#### **Topics of Interest**

Papers related to the following topics are of interest to this conference:

- Two-Phase Flow and Heat-Transfer Fundamentals
- Boiling and Condensation Phenomena
- Rod Bundle Thermalhydraulics
- Subchannel Analysis
- Thermalhydraulics and Safety for Nuclear Reactor Plant and Core
- Computational Methods, Modelling, Verification/Validation
- Applications of Computational Methods to Nuclear Systems
- Advanced Code Development and Validation/Verification/Applications
- Experimental Methods and Instrumentation
- Severe Accidents, Phenomena, Modelling and Experiments
- Thermalhydraulics in Accident Management
- Thermalhydraulics in Power Up-rating/Life Extension
- Neutronics/Thermalhydraulics Coupling
- Fluid-Structures and Materials Interactions
- Thermalhydraulics and Materials Degradation Issues
- Generation IV and Future Innovative Nuclear Reactors Thermalhydraulics
- Thermalhydraulics of Small Modular Reactors
- Nano-Fluid Applications in Nuclear Technology
- Micro-Channel Flow and Heat Transfer Phenomena in Nuclear Thermalhydraulics
- Thermalhydraulics of Non-Electricity Generating Nuclear Equipment
- Thermalhydraulics of Waste Disposal
- Others

#### **Further Information**

Additional information may be obtained by contacting the Technical Program Chair: Jovica Riznic, Canadian Nuclear Safety Commission, 280 Slater, Ottawa, Ontario CANADA K1P 5S9, Tel: (613) 943-0132; Fax: (613) 943-1292, E-mail: [jovica.riznic@cnsccsn.gc.ca](mailto:jovica.riznic@cnsccsn.gc.ca).