

## AGENDA September 27, 2023

<b>08:30 - 09:00</b>	<b>Registration and poster session</b>
09:00 - 09:10	Welcome, Karen Huynh, Director Strategic Programs and Partnerships, Atomic Energy of Canada Ltd
09:10 - 09:20	Remarks from Amy Gottschling, Vice President, Science and Technology and Commercial Oversight, Atomic Energy of Canada Ltd,
09:20 - 09:30	Remarks from co-chair of sub-committee, Daniel Brady, Deputy Director Nuclear Science and Technology, Natural Resources Canada

<b>Guest Speakers</b>		
09:30 - 10:00	Overview of CANDU Owner's Group (COG) Small Modular Reactor (SMR) Program	Sonia Iqbal, Program Manager - SMRs, CANDU Owners Group
10:00 - 10:30	TBD CEA or Speaker on Industrial application of SMRs	To be confirmed
10:30 - 11:00	Advanced Reactor Deployment	William Higgins, Technical Manager, New Brunswick Power
<b>11:00 - 11:30</b>	<b>Break and Poster Session</b>	

<b>SESSION 1 – Advanced and Small Modular Reactors Development</b>		
11:30 - 12:00	Sub-Theme Overview: Advanced Reactors and Hybrid Energy Systems	Ali Siddiqui, Head of Directorate – Advanced Reactors, Canadian Nuclear Laboratories
12:00 - 12:30	Fuels and Materials Research for Advanced Reactors	Catherine Thiriet, Acting Technical Manager, Advanced Fuels & Materials, Canadian Nuclear Laboratories
<b>12:30 - 1:30</b>	<b>Lunch and Poster Session</b>	

<b>SESSION 2 – Safety and Energy Systems for SMRs and Advanced Reactors</b>		
1:30 - 2:00	Reactor Safety Modelling and Experiments for Advanced Reactors and SMRs	Andrew Morreale, Acting Technical Manager - Reactor Safety, Canadian Nuclear Laboratories
2:00 - 2:30	Decarbonisation for Today & Opportunities Tomorrow	Megan Moore, Acting Technical Manager of Energy Systems and Emerging Technologies, Canadian Nuclear Laboratories
<b>2:30 - 3:00</b>	<b>Break and Poster Session</b>	

<b>SESSION 3 – Specific Experimental and Modelling Capabilities</b>		
3:00 - 3:30	Deep Dive on Green Mining Project	Travis Pettigrew, Operations Research Analyst, Canadian Nuclear Laboratories
3:30 - 4:00	Deep Dive on Passive Heat Transport	Chuk Azih, Research Scientist, Canadian Nuclear Laboratories
<b>4:00 - 4:05</b>	<b>Closing Remarks and Adjourn</b>	

## POSTER SESSION

### Advanced Reactors

Poster Title	Lead Presenter
Development of Capabilities and Tools for Assessment of SMR Safety and Heat Transport	AZIH, Chukwudi
Development of Novel PIE Techniques for Innovative Fuels Powering Small Modular and Advanced Reactors	HARRISON, Noel
Experimental and Modelling Supported Evaluations of ZED-2 for SMR Physics	ATFIELD, Julian
Technical and economic study of nuclear-renewable hybrid energy systems for sustainable development	SANONGBOON, Pronnapa
Establishment of Characteristics of Advanced Technology Fuels	ONDER, Nihan
Fission Product Release and Thermal Conductivity of SLOWPOKE Fuel Irradiated at Low Temperature	BELL, Stuart
Next generation SMR safety analysis toolset and system modelling capability development	AYDEMIR, Nusret
Advanced Thermalhydraulic Experiments for Novel SMR Cores, Coolants and Geometries	BOWDEN, Robert
SLOWPOKE Capability Maintenance	SPENCER, Justin
Development of Actinide Molten Salt Fuel Synthesis and Purification Methods	Wu, Huali
Development of Canadian Capability in Solid Nuclear Fuel Fabrication for Small Modular Reactors	HAMILTON, Greg
Surrogate and data analytics methods to accelerated SMR experimental programs	TROTTIER, Alexandre
Economic Fuel and Fuel Cycle Sustainability and Energy Independence	BROMLEY, Blair

## Supporting safe, secure and responsible use and development of nuclear technologies

Online Health Monitoring of Nuclear Process & Structural Components for Existing and Small Modular Reactors	EL BOUZIDI, Salim
Environmental Effects on Structural Materials and Graphite for Advanced Reactors	LI, Wenjing
Assessment of New Polymers, Alloys and Concrete Material Formulations for Next Generation Reactors	GUEROUT, Fabrice
Methodologies to Assess Activity Transport and Reduce Radiation Source Terms in Advanced Reactors	QIU, Liyan
Molten Salt Corrosion Experiments using a Demonstration Natural Circulation Loop	HA, Hung Manh
Ongoing GenIV Leadership, Participation and Exploitation	NAVA DOMINGUEZ, Armando
Development of an innovative approach for modelling and simulation of advanced micro-reactors for safety and licensing	PODILA, Krish
Investigate Material Behaviours of High Temperature Alloys in High Temperature Gas-Cooled Reactors (HTGRs)	LI, Wenjing
Investigation of SCWR and Advanced Water-Cooled Reactor Technologies	NAVA DOMINGUEZ, Armando
Development of State-of-the-Art Modelling and Experimental Capabilities to Study High-Temperature Gas Reactor Safety	HUMMEL, Dave
Framework for Validation of Analysis Codes for Water-Cooled and Advanced Reactor Applications	WADDINGTON, Geoffrey
Investigate Pathways to Apply SMR Technologies for Power Production in Space - Follow-on	SPENCER, Justin
High Temperature Thermal Properties and Modelling of Molten Salts	Wu, Huali
Development of modeling and experimental capabilities to fabricate, characterize, and study the performance of TRISO-based fuel	Spencer, Madalena
North American Fuel Supply for the Emerging Fleet of Advanced Reactors – Definition Project	DIMAYUGA, Ike
Reactor Core Instrumentation Control and Safety System Issues and Development Pathways for Advanced Reactors – Definition project	SUR, Bhaskar