SMRs and our ecosystem

Date: May 27 – May 29, 2025

Location: Crescent House, McMaster University

If Small Modular Reactors (SMRs) are to be widely dispersed in Canada as the government plans, what protections, policies, and regulations are necessary to develop?

With support from our NSERC Alliance collaborative SMR grant with the Canadian Nuclear Safety Commission (CNSC), we are hosting a small workshop to discuss the scientific, environmental, and social issues involved in the development of SMRs.

Please join us to engage in discussions on the scientific issues and challenges in the development and placement of SMRs. We invite workshop participants to submit papers to our special issue in the International Journal of Radiation Biology.









Biology

Program

Day 1 - Tuesday May 27

8:30 – 9:30 am	Registration & Refreshments
9:30 – 9:45 am	Welcome Remarks
	Carmel Mothersill
9:45 – 10:00 am	A note from the Department of Biology, Chair
	Marie Elliot
10:00 – 10:15 am	Opening & Land Acknowledgement
	Joanne Webb
10:15 – 11:15 am	Theme 1: What are the engineering and technical challenges
	involved in design and development of SMR projects in Canada?
	Perspectivists
	Dave Novog
	Soohyun Byun
	Jim Cotton
11:15 – 11:25 am	Coffee Break
11:10 – 12:10	Theme 2: What are the environmental and radiobiological challenges?
	Perspectivists
	Kentaro Ariyoshi
	Trevor Stocki
	Carmel Mothersill
12:10 – 12: 30	General Discussion of Morning Topics
	Rhea Desai
12:30 – 1:30	Lunch
1:30 - 2:30	Theme 3: What are the social, public perception & ethical
	challenges?
	Perspectivists
	Rhea Desai & James LeMoine, Challenges and strategies for Indigenous
	engagement

	Colin Seymour, Larissa Shasko, SMRs and the politics of public engagement: navigating division, disinterest, and decision making Barry Hill, Creating awareness in Indigenous communities
2:30 – 2:45 pm	General Discussion Chair: Paul Schofield
2:45 – 4:00 pm	 Guided breakout discussion on the three themes Theme 1, Chaired David Novog Theme 2, Chaired Carmel Mothersill Theme 3, Chaired Larissa Shasko
4:00 – 5:00 pm	Discussion Debrief
5:30 pm	Dinner

Day 2 - Wednesday May 28

9:30 – 10:00 am	Light Breakfast
10:00 – 10:30 am	How do we ensure we protect the environment around nuclear projects?
	Adrienne Ethier, Environmental Risk Assessment Specialist, CNSC
10:30 – 11:00 am	Natural Background Radiation Compared to Nuclear Energy Radiation and the Relative Impacts on Human and Environmental Risks
	Doug Boreham, Professor & Division Head of Medical Sciences, Northern Ontario School of Medicine
11:00 - 11:30 am	Title TBA
	Deborah Oughton, Norwegian University of Life Sciences
11:30 – 12:00 pm	Empowering Stakeholders and the Dangers of Normative Science and Stealth Advocacy.
	Larry Kapustka, LK Consultancy, Diamond Valley, Alberta

12:00 – 1:00 pm	Lunch
1:30 – 3:00 pm	Guided Breakout Discussion
	 Theme 1, Chaired by Doug Boreham
	 Theme 2 Chaired by CNSC Representative
	Theme 3 Chaired by Rhea Desai
3:00 – 3:30 pm	Discussion Debrief
3:30 – 4:30 pm	Position Paper Brief
4:30 - 5:30	Reception followed by dinner at The Buttery

Day 3 - Thursday May 29

9:00 – 9:30 am	Light Breakfast
9:30 – 11:00 am	Guided Breakout Discussion
	Theme 1, Chaired by Soohyun Byun
	 Theme 2, Chaired by Andrea Bonisoli-Alquati
	Theme 3, Chaired by Deborah Oughton
11:00 – 11:30 pm	Discussion Debrief
	Chair: Paul Schofield
11:30 – 12:30 pm	Lunch
12:30 – 2:30 pm	Position Paper Discussion & Development
2:30 – 3:00 pm	Closing Remarks by Adrienne Ethier, CNSC
3:00 – 5:00 pm	McMaster Nuclear Reactor Tours