

# Preliminary Programme

7 August 2025

ICRP-World Nuclear Association Workshop

**ENABLING SUSTAINABLE DEVELOPMENT  
THROUGH THE SYSTEM OF PROTECTION:  
PRACTICALITY AND ALIGNMENT**

**11 - 12 September 2025**  
Hamilton, Ontario, Canada

In Collaboration With

## Session 1: Alignment of the RP System with the UN Sustainable Development Goals

All Times Local (EST)

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**9:00 - 10:30**

### Part 1: Introductory Session

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Welcome and Opening Remarks

TBD (ICRP)

TBD (World Nuclear Association)

ICRP Perspective

Nicole Martinez (ICRP & Clemson University, USA)

IAEA Initiatives for Supporting the UN Sustainable Development Goals

Miroslav Pinak (IAEA)

Academic Initiatives for Alignment of the RP System with the UN Sustainable Development Goals

Josip Zic (McMaster University, Canada)

The Role of RP System in Enabling Sustainable Development of Nuclear Energy: Industry Perspective

Sameh Mehem (World Nuclear Association)

Discussion and Q&A

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**10:30 - 11:00**

### Coffee Break

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**11:00 - 12:30**

### Part 2: Practical Examples of Sustainable Development Goals & Areas of Interest Related to the Radiological Protection System

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Sustainable Development, SDGs and Radiation Protection

Kari Toews (Cameco, Canada)

Optimizing Low-Level Waste Management: Clearance as a Practical Tool for Sustainable Development: SDG 12 (Responsible Consumption and Production) and SDG 9 (Industry, Innovation and Infrastructure)

Ryan Cooke (Laurentis Energy Partners, Canada)

Environmental Radiological Protection BUZZwords in Practice: An Ecosystem Services Case Study with Clade Anthophila (Bees)

Sarah Donaher (University of Tennessee, USA)

Creating a Sustainable Talent Pipeline

Julie Burt (Canadian Nuclear Safety Commission, Canada)

Development of Population Level Biomarkers for Low Dose Radiation: The Importance of Non-targeted Effects

Rhea Desai (McMaster University, Canada)

Discussion and Q&A

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Session 2: Strengthening Talent Pipelines

All Times Local (EST)

12:30 - 13:30 Lunch Break

13:30 - 15:00 Part 1: Introductory Session

Addressing the Decline of Academic HP Programs: Challenges, Solutions and Opportunities for the Future

Jeff Caudill (University of Alabama, USA)

Securing the Future of the RP Profession Through Collaboration of Academic Institutions on Health Physics Training and Development

Chris Malcolmson (McMaster University, Canada)

ICRP Vancouver Call for Action

Christopher Clement (ICRP, Canada)

IAEA Initiatives for Supporting the Growth of the Radiological Protection Workforce

Miroslav Pinak (IAEA)

TBC - Industry Perspective

Raquel Silva (World Nuclear Association)

Discussion and Q&A

15:00 - 15:30 Coffee Break

15:30 - 17:00 Part 2: Practical Solutions, Best Practices, Policies and Strategies to Address the Radiological Protection Skills Gaps

Lessons Learned in Delivering Lasting RP Competence

Natalia Mozayani (Radiation Safety Institute of Canada, Canada)

International Radiation Safety Course Development

Josip Zic (McMaster University, Canada)

Combining Training in Radiation Biology with Teaching Programming Languages

Tatjana Paunesku (Northwestern University, USA)

Building a Lasting Workforce for Nuclear: An Exploration of How Nuclear Companies Can Attract, Retain, and Develop a Resilient Workforce

Emily Hill and Sam Taylor-Woods (PA Consulting, UK)

Nuclear Workforce Study - Industrial Perspective

Megan Janecka (Canadian Nuclear Association, Canada)

Discussion and Q&A

**Session 3: The Promotion of Practical, Proportional and Effective  
RP Regulations and Transitioning ICRP Recommendations into Practice**

All Times Local (EST)

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**9:00 - 10:30**

**Part 1: Introductory Session**

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**ICRP Perspective**

Christopher Clement (ICRP, Canada)

**Promotion of the Global Acceptance and Use of IAEA Safety Standards in Radiation Protection and Safety**

Miroslav Pinak (IAEA)

**Industry Perspective on Low Dose Decision Making**

Kari Toews (Cameco, Canada)

**Operational Quantities for External Radiation from ICRU Report 95 in the Nuclear Industry**

Thomas Otto (ICRU, Switzerland)

Discussion and Q&A

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**10:30 - 11:00**

**Coffee Break**

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**11:00 - 12:30**

**Part 2: Practical Session - Regulators**

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**Regulatory Perspective: Ensuring Protection of the Environment for New Nuclear Projects**

Verena Sesin (Canadian Nuclear Safety Commission, Canada)

**US NRC New Perspective on Managing Low Dose Exposure**

Mike Smith (Nuclear Energy Institute, US)

**Updating Health Canada's Drinking Water Guidelines**

Debora Quayle (Health Canada, Canada)

**Advancing Radiation Protection: IAEA Approach Towards Stakeholder Engagement in the Decision on Adoption of ICRU/ICRP Report 95**

Edward Waller (Ontario Tech University, Canada)

Discussion and Q&A

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**12:30 - 13:30**

**Lunch Break**

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**Session 3: The Promotion of Practical, Proportional and Effective  
RP Regulations and Transitioning ICRP Recommendations into Practice**

All Times Local (EST)

13:30 - 15:00

**Part 3: Practical Session - Industry**

**Individual Sensitivity at Low Dose**

Masanori Tomita (Central Research Institute of Electric Power Industry, Japan)

**Implementation of Changes to ICRU Dose Quantities at a Large Nuclear Facility**

Ephraim Schwartz (Ontario Power Generation, Canada)

**Holistic approach to managing RP operations and regulatory requirements,**

Zach Brajuha and John Zoll (Bruce Power, Canada)

**Application of ALARA in Uranium Mine Design and Operation**

John Takala (Cameco, Canada)

**Building Trust from the Frontlines: The Radiographer's Role in Enhancing Social Licence  
and Ethical Coherence for Radiological Protection**

Khadra Abdulkadir (Jomo Kenyatta University, Kenya)

Discussion and Q&A

15:00 - 15:30

**Coffee Break**

15:30 - 16:00

**Closing**

TBD

TBD (ICRP)

TBD

TBD (World Nuclear Association)