

Preliminary Programme

30 July 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)

9:00 - 10:30

Part 1: Introductory Session

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

10:30 - 11:00

Coffee Break

11:00 - 12:30

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

Sustainable Development, SDGs and Radiation Protection

Kari Toews (Cameco, Canada)

TBC - 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)

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

Rhea Desai (McMaster University, Canada)

Discussion and Q&A

12:30 - 13:30

Lunch Break

Session 2: Strengthening Talent Pipelines

All Times Local (EST)

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)

9:00 - 10:30

Part 1: Introductory Session

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)

TBC - HERCA Perspective

TBD

Discussion and Q&A

10:30 - 11:00

Coffee Break

11:00 - 12:30

Part 2: Practical Session - Regulators

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)

TBC - 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

12:30 - 13:30

Lunch Break

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)