CRPA CARST JOINT SYMPOSIUM

BUILDING BRIDGES

Breaking Barriers

SYMPOSIUM ON RADON AND RADIATION PROTECTION

SASKATOON, SK • MAY 27-31, 2026

STRONGER TOGETHER
Collaboration across disciplines and communities

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Building Bridges: Breaking Barriers

The 2026 Symposium on Radon and Radiation Protection is a collaborative effort between the Canadian Association of Radon Scientists and Technologists (CARST) and the Canadian Radiation Protection Association (CRPA). This partnership brings together the expertise and vast networks of two leading organizations dedicated to advancing radiation safety and promoting best practices in the field.

This year's symposium is located in the traditional territory of Treaty Six First Nations and the homeland of the Métis. For thousands of years, Saskatoon has been a gathering place. Before the bridges and buildings of our contemporary cityscape, this land was a traditional travelling route and meeting ground for the Cree, Saulteaux, Blackfoot, Métis, Dene, and Nakota Sioux peoples.

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2026 Symposium of Radon and Radiation Protection, brought to you by CARST and CRPA.

CARST is Canada's radon association, working together with our members to ensure all Canadians know what radon is, and are able to protect themselves from radon induced lung cancer.
www.carst.ca

CRPA strives to ensure the safe use of radiation by providing scientific knowledge, education, expertise and policy guidance for radiation protection
www.crpa-arcp.ca

We encourage you to consider becoming a member of each association. For more information on membership check out our website or for direct information contact:

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WELCOMING MESSAGE

GRAEME COOPER
CARST PRESIDENT

Hello everyone, and welcome to a truly unique conference experience this year. This marks the first-ever symposium bringing together professionals from both CARST (Canadian Association of Radon Scientists and Technologists) and CRPA (Canadian Radiation Protection Association). Here in the beautiful, sunny city of Saskatoon, we have a fantastic opportunity to connect, learn from one another, and share knowledge across our two closely aligned organizations.

This conference also celebrates a significant milestone for our Association: our 15th anniversary. Fifteen years of steady growth and evolving goals in the field of radon has been no small achievement. It is my great honour to recognize and thank everyone—past, present, and future—for their time, energy, and dedication in building our Association into the internationally respected organization it is today.

I would like to extend a special thank you to Executive Director Pam Warkentin and Regional Director Erin Curry, along with their support staff, for another successful and demanding year both on the front lines and behind the scenes. You are truly the backbone of this Association. I also want to acknowledge our Board of Directors and the many volunteers who serve on CARST committees. Your commitment and leadership continue to guide us forward as we work to anticipate challenges, set meaningful goals, and strengthen our impact.

Finally, a sincere thank you to all members of CARST and C-NRPP. Your continued engagement, professionalism, and dedication—whether through your work in the field, your commitment to education, or your efforts within your communities—are what make this Association strong. You play a critical role in helping Canadians reduce their risk of radon-related lung cancer. This gratitude extends beyond myself; it comes from the many Canadians who rely on your expertise and professionalism.

As we begin the conference, I encourage you to take full advantage of this opportunity. Connect with new people from both associations, share your experiences, and learn from one another. Be sure to visit our vendors as well; they are an incredible resource and are eager to share the latest innovations and developments in the radon industry.

Thank you all, and I look forward to seeing you throughout the week.

Graeme Cooper,
CARST President
Owner, Point-the-Way Radon Services

WELCOMING MESSAGE

TARA HARGREAVES
CRPA PRESIDENT

On behalf of the Canadian Radiation Protection Association (CRPA), it is my great pleasure to welcome you to the CRPA–CARST Symposium. This year's theme, Building Bridges, could not be more fitting as we come together for the first joint conference between our two associations.

This symposium marks an important milestone. By bringing together professionals, researchers, practitioners, and leaders from across our communities, we are creating new opportunities for collaboration and shared learning. The challenges and opportunities in radiation protection are increasingly interconnected - spanning disciplines, sectors, and borders. By building bridges between our organizations, we strengthen our collective ability to advance safety, innovation, and excellence in our field.

Over the course of the symposium, you will engage with a diverse and dynamic program that reflects the depth and breadth of expertise within our communities. From technical sessions and panel discussions to informal networking opportunities, this event is designed to foster meaningful dialogue, spark new ideas, and cultivate partnerships that extend well beyond the conference itself.

I would like to extend my sincere appreciation to the organizing committee, volunteers, speakers, and sponsors whose dedication and hard work have made this joint event possible. Their commitment exemplifies the collaborative spirit embodied in this year's theme.

Whether you are reconnecting with colleagues or meeting new peers for the first time, I encourage you to fully embrace the spirit of Building Bridges. Let us use this opportunity to learn from one another, share our experiences, and work together toward a safer and more resilient future in radiation protection.

Thank you for being part of this historic collaboration. I wish you an engaging, productive, and inspiring symposium.

Sincerely,
Tara Hargreaves
President, Canadian Radiation Protection Association

SCHEDULE

Wednesday, May 27

6:00 - 8:00 pm	***Meet and Greet***

Thursday, May 28

7:00 - 8:00 am	**Breakfast**
8:00 - 10:00 am	***Greetings and Welcome***
	Current Lung Cancer Treatments, Dr. Bigsby
	Living with Lung Cancer, Christine Elliott
	"My Radon Risk" An Interactive Radon Platform for Risk Communication, Bethany Verma
	Building and Analyzing the Canadian Uranium Workers (CANUW) Cohort: Data Linkage, Mortality, and Cancer Incidence, Bisma Ikram, Suvadra Datta Gupta and Saiful Alam
10:00 - 10:30 am	**Break with Exhibitors**
10:30 - 12:00 pm	Radiation Protection and Radon Control in High-Grade Uranium Mining, Jason Sadowski
	Detector to Data: Inside SRC's Radon Analysis Process, Kelcey Philibert
	Tools or Toys? Evaluating Five Inexpensive Consumer Geiger Counters, Bryan McIntosh
	A Day in the Life of a Radon Mitigator, Graeme Cooper
12:00 - 1:30 pm	**Lunch with Exhibitors**
1:30 - 2:40 pm	Anthony J. MacKay Student Contest Presentations
	Feasibility Assessment of 3D Neutron Flux Reconstruction for Reactor Physics and Radiation Protection in a Graphite-Moderated Subcritical Assembly Core Using Multi-Material Scintillator Arrays and GEANT4, Ann Drakes
	Radon in the Workplace: Estimating the Effective Radiation Dose, Sid Ahmed Tiarti
	Enhancing Radiation Protection in Radioisotope Shipping Through Nested Shielding Inserts, Joe Singh
2:40 - 3:10 pm	**Break with Exhibitors**
3:10 - 4:40	NORM in the Oil and Gas Industry, Cody Cuthill
	UNSCEAR New Evaluation of Public Exposure to Ionizing Radiation, Jing Chen
	UNSCEAR 2024 Report, annex B: Evaluation of Public Exposure to Ionizing Radiation – Updated Global Assessment of Radon and Thoron, Janet Gaskin
	A Review of the Work of Jing Chen, Kelley Bush and Anne- Nicol
	Day 1 closing

SCHEDULE

Friday, May 29

7:00 - 8:00 am	**Breakfast**	
	Room 1	**Room 2**
8:00 - 8:10 am	Update	Update
8:10 - 8:30 am	Quantifying Isotope Activities Using a Gamma Spectrometer Survey Meter, Brian Bewer	Technical and Outreach updates from Health Canada's National Radon Program, Pawel Mekarski
8:30 - 8:50 am	Dangers of Using Artificial Intelligence for Regulatory Compliance and Efficiency, Josip Zic	National Radon Outreach Program Plans, Kelley Bush
8:50 - 9:10 am	A rapid measurement method for the deposition velocity of thoron progeny based on an imaging plate, Zhengzhong He	CCS Lung Cancer Action Plan, Brandon Purcell
9:10 - 9:30 am	Development of the spectral decomposition algorithm for the analysis of HPGe gamma spectra collected from low-level waste samples, Dylan Silveira	The Dose from Environmental Exposure to Radiation (DEER) Report, Kenneth Moats
9:30 - 9:50 am	Mitigating the Risk of Radiological Dust: A Multidisciplinary Challenge, Aimee MacIennan	Provincial/ Municipal Action Plans, Various presenters
9:50 - 10:20 am	**Break with Exhibitors**	**Break with Exhibitors**
10:20 -10:40 am	Ministry of Labour Relations and Workplace Safety: New or changing industry regulatory expectations and objectives, Brent Preston	A Highly Sensitive Radon Emanation Measurement System at SNOLAB for Material Screening, Dimple Chauhan
10:40 - 11:00 am	Navigating Complex End-of-Life Scenarios in Nuclear Medicine, Caroline Ménard	Reference device for calibration of radon exhalation rate measuring instruments and its performance, Detao Xiao
11:00 - 11:20 am	CNSC Presentation and Discussion	In vivo measurement of Pb-210 activity in skull to reconstruct cumulative radon exposure by the TRACE group, Yuanyuan Liu
11:20 - 11:40 am		Using AI to analyze Radon chips for faster more reliable results, Benjamin Farenhorst
11:40 - 12:00 pm		New Horizons in Radon-Related Lung Cancer Screening, Paramjit S. Tappia
12:00 - 1:30 pm	**Lunch with Exhibitors**	
1:30 - 1:55 pm	UPDATE Providing a Contamination & Clearance Whole Body Monitor Application Example for β Radiation Detection, Ralph T Bose	Cross-Canada Radon Survey: - Aaron Goodarzi - John Danforth - Dustin Pearson
1:55 - 2:15 pm	Refined Policy Approach for Part 6 (Training) of the Transportation of Dangerous Goods Regulations, Ali Shoushtarian	
2:15 - 2:35 pm	Implications of Revised Skin Contamination Dose Coefficients for High Energy Alphas, Diane Aubé	Practical Lessons Learned from Radon Exposure Assessment in Swedish Underground Mines, Vanda Jakabova
2:35 - 2:55 pm	Practical MARSSIM Application: Characterization and Final Release, Beyond Statistics, Roderick Lim	Take Action on Radon - Beyond Testing: The Next Steps to Protecting Canadians from Radon, Erin Curry
2:55 - 3:15 pm	Addressing a gap in the Transport of Radioactive Material Regulations – Surface Contamination Limits, Vivek Manickam	Radon Risk Communication: From Scientific Data to Public Understanding, Linda Aguirre

SCHEDULE

Friday, May 29

3:15 - 3:30 pm	**Break**	
3:30 - 3:50 pm	EMF: Non-Ionizing Radiation: Health Effects and Exposure Guidelines, Athena Wang	Regulatory action and ongoing research relating to consumer-grade electronic radon monitors (ERMs), Alexander Lemieux
3:50 - 4:10 pm	Standardized Air Kerma Testing for Personal Dosimeters at the National Research Council of Canada, Richard Agbeve	Dynamic Regulation in Canada's Maturing Radon Landscape, Pam Warkentin
4:10 - 4:30 pm	Training for the Real World: Implementing Practical Incident Command Processes for Spills and Contamination Events, Clauzi Guerini	Risk-Informed Application of Radon Monitoring and Mitigation in LLRW Remediation: Port Hope Area Initiative, Adetayo Onikosi
4:30 - 4:50 pm	***Closing***	

Saturday, May 30

	Cavalier	Canadian	Starlight	West (First Floor)	South (First Floor)
8:00-9:00	NORM Course	C-NRPP Training Opportunities, Pam Warkentin	Social media and your Radon business., Dorothy Bewernick	Simple Tools for Financial Analysis and profitability, Marcel Brascoupe (in French)	
9:00 - 10:00					
10:00 - 10:30am	**Break**				
10:30 - 11:30	NORM Course	The Role of Air Cleaning in Reducing Radon Related Risk, Doug Kladder and Colin Dumais	Communication testing and design work for a commercial construction, Marcel Brascoupe (in English)	GodMode-Business fundamentals, Trent Lowenstein	
11:30 - 12:30					
12:30 - 1:30	**LUNCH in the South Ballroom (First Floor)**				
1:30 - 2:30	NORM Course	Measurement in Large Buildings with Curt Lafontaine		Mitigator Round Table – Regional Issues (EN)	Product Presentations
2:30 - 2:45pm	**Break**				
2:45 - 4:45	NORM Course	Measurement in Large Buildings with Curt Lafontaine	Mitigator Round Table-FR	Mitigator Round Table - EN	

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ANTHONY J. MACKAY
STUDENT PAPER CONTEST FINALISTS

Each year, the Student and Young Professionals Committee organizes a student paper contest in conjunction with the CRPA annual conference. This contest is open to all students enrolled full time in a Canadian college or university program related to the radiation sciences.

Entrants must submit an abstract of no more than 750 words on a topic that is related to some aspect of radiation; the topic is intentionally kept broad to encourage participation from a wide range of students.

Three finalists are selected to present their work at the conference in a plenary session. The presentations are judged at the end of the session, and the winner is announced during the awards banquet. The winner is presented with the Anothony J. Mackay trophy and receives a $500 cash prize.

All students who enter the contest are given a free one-year membership to the CRPA and CARST.

This year's finalists are:

Ann Drakes, Ontario Tech University

Ontario Tech UNIVERSITY

Ann is currently pursuing a Master's degree in Nuclear Engineering, with research experience in neutron detector development, radiation measurement, and reactor physics applications. Her work integrates experimental detector design and testing with high-fidelity computational modelling, using tools such as MCNP and GEANT4 to simulate particle interactions and complex radiation environments. With a background in astrophysics and a passion for particle physics, she brings a versatile skill set in experimental methods, simulation, and data analysis to the study of subatomic processes and radiation detection. Outside of research, I am a wife and mother of three, and enjoy snowboarding, swimming, and crafting.

Paper: *Feasibility Assessment of 3D Neutron Flux Reconstruction for Reactor Physics and Radiation Protection in a Graphite-Moderated Subcritical Assembly Core Using Multi-Material Scintillator Arrays and GEANT4*

Accurate reconstruction of spatial neutron flux distributions in subcritical reactor assemblies is essential. This work investigates the feasibility of three-dimensional neutron flux mapping within a graphite-moderated subcritical assembly through the development and simulation of a compact multi-detector system capable of simultaneously measuring thermal and fast neutron fields.

Spectral Solutions Inc.

ANTHONY J. MACKAY
STUDENT PAPER CONTEST FINALISTS

Sid Ahmed Ryad Tiarti, Université de Montréal

Université de Montréal

Sid Ahmed Ryad Tiarti is a master's research student in Environmental and Occupational Health at the health school of the university of Montreal (ESPUM). He holds a Master's degree in Occupational Health and Safety and previously worked as a specialist in this field, where he developed strong expertise in risk assessment, hazard prevention, and workplace health protection. His current research focuses on occupational radon exposure and effective dose estimation to support improved radiation protection practices. His academic interests include environmental radioactivity, occupational hygiene, and exposure assessment. He aspires to pursue a professional career in radiation protection and research.

***Paper**: Radon in the Workplace: Estimating the Effective Radiation Dose*

A long-term measurement campaign of indoor radon concentrations was conducted in various workplace environments in Quebec. The effective dose to workers was estimated using a dosimetric approach.

Joe Singh, University of Saskatchewan

University of Saskatchewan

Joe Singh has an academic background in chemical engineering and biology and holds a fifth-class power engineering certification. He is currently completing a Master of Science in Biomedical Engineering at the University of Saskatchewan, with a focus on cyclotron targetry and automated radiochemistry and peptide synthesis systems. He works as an Operations Technologist at the Fedoruk Centre, and is also a co-founder and director of General Science Inventions Inc., a Saskatoon-based company that designs and manufactures equipment for radioisotope production, synthesis, purification, radiation shielding, and decontamination.

***Paper:** Enhancing Radiation Protection in Radioisotope Shipping Through Nested Shielding Inserts*

Specialized shipping container inserts called piglets were designed, fabricated, and tested to address geometric fit and enhance radiation attenuation when shipping radioisotopes.

PRESENTATION ABSTRACTS

Thursday, May 28th

Current Lung Cancer Treatments, *Bigsby*
Dr. Bigsby will provide an update on the latest developments and the current state of lung cancer treatment in Canada.

Living with Lung Cancer, *Elliott*
Christine Elliott will share her lung cancer story.

"My Radon Risk": An Interactive Radon Platform for Risk Communication, *Verma*
Using over 12,000 anonymized radon measurements, Lung Saskatchewan, with support from partners, developed "My Radon Risk", an interactive, web-based mapping tool that translates over a decade of radon test data into an accessible public resource, fostering both individual and population-level engagement. The platform allows users to explore localized radon levels within the context of national guidelines at their own pace, with visualization and storytelling techniques to enhance interpretability and promote knowledge mobilization. The main goal is to promote increased testing in Saskatchewan and beyond, while reducing inequities in environmental health knowledge and technological literacy.

Building and Analyzing the Canadian Uranium Workers (CANUW) Cohort: Data Linkage, Mortality, and Cancer Incidence, *Ikram, Datta Gupta, Alam*
Comprehensive long-term occupational health studies require integration of diverse administrative datasets to track exposures and outcomes over time. The Canadian Uranium Workers Study (CANUWS) cohort is a large multi-source dataset of about 80,000 individuals employed in Canada's uranium industry between 1930s and 2018, created by linking seven national health and administrative data sources into a single database. This study presents the data integration process that combines radiation exposure, cancer incidence and mortality to support research on occupational health risks in Canada.

Radiation Protection and Radon Control in High-Grade Uranium Mining, *Sadowski*
High-grade uranium mining presents some of the most complex radiation protection challenges in the mining industry, driven by elevated gamma radiation fields, significant radon generation, and the presence of long-lived radioactive dust (LLRD). This presentation connects the fundamental principles of nuclear and health physics with their practical application in protecting workers in high-radon, high-radiation underground environments. Drawing on operational experience, this presentation demonstrates how an integrated radiation protection program can successfully manage radon and other radiation hazards. The session offers a real-world perspective on applying health physics principles in one of the most highly regulated and radon-intensive occupational settings.

Detector to Data: Inside SRC's Radon Analysis Process, *Philibert*

Have you ever wondered what happens to the radon detectors once they have been sent back to the laboratory for analysis? Step behind the scenes for an inside look at the world of radon analysis. From the moment detectors are ordered to the final stages of laboratory evaluation, the Saskatchewan Research Council (SRC) transforms these small devices into powerful data, revealing the invisible gas that affects so many homes.

Tools or Toys? Evaluating Five Inexpensive Consumer Geiger Counters, *McIntosh*
An increase in public interest in radiation and radioactivity, combined with the ease of purchase online, has led to a growth in the availability of inexpensive radiation detectors. These low-cost Geiger counters are often available for less than $100, and while there is some discussion of their quality in online forums, there is little to no published work analyzing how accurate the dose rate readings from these devices are. This work will present measurements using a CNSC-approved detector calibration setup to evaluate the dose rate accuracy of five Geiger counters purchased online, along with notes on user experience.

Day in the Life of a Radon Mitigator, *Cooper*
CARST President Graeme Cooper will share some of the challenges that make up a typical day in the life of a radon mitigation professional.

Thursday Afternoon

Anthony J. MacKay Student Contest Presentations
See the dedicated section of this program for detailed abstracts.

NORM in the Oil and Gas Industry, *Cuthill*
The presentation will outline how NORM in the oil and gas industry is formed, detected, transported and disposed as well as current regulations and health and safety requirements.
See abstracts for Anthony J. MacKay Student Contest Presentations on pages 7 & 8.

UNSCEAR New Evaluation of Public Exposure to Ionizing Radiation, *Chen*
The United Nations Scientific Committee on the Effects of Atomic Radiation (UNSCEAR) was established by the UN General Assembly resolution in 1955. Exposure of the public to ionizing radiation from natural and human-made sources is an important topic that the Committee has evaluated since 1958. In 2024, the Committee approved the updated new evaluation on public exposure to ionizing radiation.

UNSCEAR 2024 Report: Evaluation of Public Exposure to Ionizing Radiation – Updated Global Assessment of Radon and Thoron, *Gaskin*
The United Nations Scientific Committee on the Effects of Atomic Radiation (UNSCEAR) publishes scientific evaluations concerning the exposure of the population to ionizing radiation from natural and human-made sources. Following its 2008 report, UNSCEAR launched an update to incorporate new data and methodological advances to revise global estimates of public exposure to ionizing radiation from natural and human-made sources. New studies evaluating national public exposures and new peer-reviewed literature were assessed to examine any changes occurring over time and resulting from different uses and practices involving natural and human-made sources.

A Review of the Work of Dr. Jing Chen, *Bush and Nicol*
Dr. Jing Chen is one of Canada's leading radon researchers. Her retirement from Health Canada in 2025 marked the end of an era, but she has continued to be involved in radon and radiation issues through UNSCEAR. In this presentation, Kelley Bush and Anne-Marie Nicol will look back on Dr. Chen's career and share some of the highlights of her groundbreaking research.

Friday, May 29th - Room 1

Quantifying Isotope Activities Using a Gamma Spectrometer Survey Meter, *Bewer*
During the operation of high energy accelerators activated materials are commonly created. The activity and isotopes present in these materials must be characterised for their clearance and release from the facility, or to ascertain their duration of stay in a radiological storage area. An activity estimate method using a gamma spectrum collecting survey meter is presented.

Dangers of Using Artificial Intelligence for Regulatory Compliance and Efficiency, *Zic*
Regulatory requirements and industry standards are evolving to address new and expanding nuclear technologies. These regulatory changes must be evaluated by existing licensees to confirm compliance or identify gaps. Many organizations have turned to using Artificial Intelligence platforms to evaluate how to implement new

regulations, perform gap assessments and prepare licensed documents or applications. Organizations implementing publicly available Artificial Intelligence platforms should be aware of challenges, potential errors and confidentiality associated with the use of these tools for regulatory compliance and efficiency gains. This presentation evaluates the retrieval component of a Retrieval-Augmented Generation system in the context of nuclear licensing.

A rapid measurement method for the deposition velocity of thoron progeny based on an imaging plate, *He*

The study of the deposition behavior of 220Rn progeny is crucial for the assessment of public and occupational radiation doses and for controlling progeny concentration in a thoron chamber. To address the difficulty of maintaining stable environmental conditions over long durations when studying deposition velocity variations, a rapid and accurate method for the deposition velocity measurement is proposed in this study. Compared to traditional techniques, multi-sample, large-area measurements of deposition velocity can be completed within 8 hours using the proposed method, thereby providing an new efficient approach for the study of the deposition of 220Rn progeny and other radionuclides.

Development of the spectral decomposition algorithm for the analysis of HPGe gamma spectra collected from low-level waste samples, *Silveira*

Gamma-ray spectrometry is the gold standard for the identification and quantification of radionuclides in low-level waste (LLW) samples. Owing to their excellent energy resolution, high-purity germanium (HPGe) detectors are the most widely used. Conventional gamma spectral analysis typically focuses on the peak regions of the spectrum. However, for weak gamma emitters, counting statistics are often poor and therefore, analyzing the full detector response function is highly beneficial. This presentation will cover the development of a linear decomposition algorithm implemented in MATLAB for the low-level analysis of HPGe gamma spectra.

Mitigating the Risk of Radiological Dust: A Multidisciplinary Challenge, *Maclennan*

Airborne particulates present significant health hazards due to their ability to penetrate deep into the pulmonary system and enter the bloodstream, potentially resulting in respiratory infections, cardiovascular disease, and a range of other adverse health effects. When such particulates are radiological in nature, they introduce additional risk. The Health and Safety department at the Canadian Light Source recently encountered a situation in which the repair of activated equipment was expected to produce radiological dust. This presentation will outline the CLS hazard assessment process and how it was applied for this task.

Ministry of Labour Relations and Workplace Safety, *Preston*

An update from the Ministry of Labour Relations and Workplace safety Radiation Safety Unit.

Navigating Complex End-of-Life Scenarios in Nuclear Medicine, *Ménard*

Nuclear medicine is rapidly expanding, particularly with the emergence of new radiopharmaceutical therapies. A growing number of treated patients may pass away following these treatments while the administered nuclear substance is still present in a significant amount, thus raising radiation safety considerations. This presentation is based on experience following a patient treated with Lu 177 who passed away shortly after a treatment and was cremated before the isotope had decayed significantly. While this situation did not result in any radiological risk, it created a perception of risk, which we needed to manage.

LIGHTLink® – Advances in Plastic Scintillation Detector Technologies – UPDATE Providing a Contamination & Clearance Whole Body Monitor Application Example for β Radiation Detection, *Ralph T. Bose*

The advantages of Mirion's uniquely featured, state-of-the-art LIGHTLink® SiPM-based plastic scintillation detector technologies were discussed at the previous CRPA Conference and in that presentation, the first application example was shown for hand-held frisker probes known as the CSPevo® AB-100 (100 cm² sized alpha/beta detector). At that time, it was mentioned that applying this technology to Contamination & Clearance Surface Contamination Monitors was possible but not yet available. This presentation discusses the first application of the LIGHTLink® technology of its kind to a Whole Body Surface Contamination Monitor known as the Argos™ Evo.

Friday Afternoon Room 1

Refined Policy Approach for Part 6 (Training) of the Transportation of Dangerous Goods Regulations, *Shoushtarian*

This presentation will walk through the events that led to the development of a refined policy approach for Part 6 (Training) of the Transportation of Dangerous Goods Regulations (TDGR), summarize the upcoming proposal and inform next steps and future policy development.

Implications of Revised Skin Contamination Dose Coefficients for High Energy Alphas, *Aubé*

Regulatory attention on high energy alpha emitters (HEAs) has led to the adoption of revised skin dose coefficients that exceed those for beta emitters by multiple orders of magnitude. These dose coefficients could substantially alter the assessment and control of alpha skin contamination in Canada, and have substantially impacted Canadian Nuclear Laboratories' activities. This presentation addresses the scope and scale of the problem, discusses unique operational challenges at Chalk River Labs as a result, and identifies the need for scientific research to validate tissue effects and obtain alignment on an interim approach to high energy alpha skin contamination dose assessments.

Practical MARSSIM Application: Characterization and Final Release, Beyond Statistics, *Lim*

This presentation delivers practical, scenario-based lessons from Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM) applications. Using contrasting case studies, we demonstrate how historical information, characterization data, and professional judgment are crucial components and essential drivers—rather than mere supplements to statistically generated sampling points—for achieving defensible survey design.

Addressing a gap in the Transport of Radioactive Material Regulations – Surface Contamination Limits, *Manickam*

Radioactivity limits provided in transport regulations are based on limiting the dose received, following radioactivity release due to failure of a package from an accident. The dose received for a given amount of radioactivity released is based on the radionuclides involved in the release, as different radionuclides can have different characteristics and consequently different dose implications. Existing surface contamination limits in the transport regulations do not allow for individual radionuclides consideration. This gap, potential problems posed to the CANDU nuclear industry due to the gap, and recommendations on addressing the gap are presented.

Non-Ionizing Radiation: Health Effects and Exposure Guidelines, *Wang*

Non-ionizing radiation, particularly EMF, has been making headlines in recent years. There is no shortage of speculative material on the subject online, and offers of ancillary services aimed at detection and mitigation abound. As a result, radiation protection professionals may face the challenge of addressing EMF-related concerns Drawing from field experience across Canada, the session will examine common client concerns, investigation challenges, instrumentation selection, and survey strategies for both low-frequency and radiofrequency environments. Practical mitigation approaches and professional reporting considerations will be discussed, equipping radiation protection practitioners with evidence-based tools to conduct rigorous EMF assessments and confidently address stakeholder concerns.

Standardized Air Kerma Testing for Personal Dosimeters at the National Research Council of Canada, *Agbeve*

The Canadian Nuclear Safety Commission (CNSC) licenses dosimetry services under the Nuclear Safety and Control Act, with requirements detailed in the Radiation Protection Regulations. Licensed dosimetry services must monitor radiation doses for nuclear energy workers. According to CNSC REGDOC-2.7.2, licensed dosimetry providers must pass independent testing (IT) for each dosimeter design. As the Canadian National Metrological Institute, the NRC's Ionizing Radiation Standards (IRS) group offers this testing. This presentation will highlight the service's importance for radiation protection programs, summarize the testing process at NRC, and discuss CNSC acceptance criteria.

Training for the Real World: Implementing Practical Incident Command Processes for Spills and Contamination Events, *Guerini*

Effective response to personnel contamination and radioactive spills relies not only on well-written procedures, but on the ability of workers and supervisors to apply Incident Command Processes under operational conditions. Traditional classroom-based training often falls short in preparing staff for the time pressure, communication challenges, and clarity of roles

required during real radiological incidents. This presentation describes the development and implementation of a hands-on, scenario-based training program focused on Incident Command Processes. The training was designed to translate existing procedures into practical exercises that reflect real operational constraints, using realistic scenarios, defined roles, and facilitated debriefs.

Friday, May 29th - Room 2

Technical updates from Health Canada's National Radon Program, *Mekarski*

Health Canada leads the National Radon Program in an effort to reduce indoor radon exposure to the Canadian public. Central to this, Health Canada consistently reviews and updates national radon risk guidance and resources. Many core components of this guidance have recently changed to address knowledge gaps and adapt to the evolving radon landscape in Canada. Health Canada will present these updates, along with the evidence driving them. Most notably this includes the operations and research studies supporting the modernization of its radon testing guidance, where significant changes have been introduced to make testing easier and more accessible for Canadians.

National Radon Outreach Plans, *Bush*

An update on our National Radon Program. Kelley will share progress, challenges and future plans to continue to raise awareness and promote radon reduction action in Canada.

Canada's first lung cancer action plan, *Purcell*

Lung cancer remains the leading cause of cancer-related death in Canada, claiming nearly 21,000 lives in 2024. In response, the Canadian Cancer Society (CCS) has launched the 2026–2035 Pan-Canadian Lung Cancer Action Plan, a bold national roadmap to reduce lung cancer mortality in Canada by 30% over the next decade. The plan advances a coordinated, equity-focused approach across prevention, early detection and diagnosis, person-centred care, and research and data. By aligning governments, health systems, clinicians, and communities, it aims to deliver measurable, life saving impact nationwide.

The Dose from Environmental Exposure to Radiation (DEER) Report, *Moats*

In the past, Health Canada's Radiation Protection Bureau has published several Environmental Radioactivity in Canada (ERIC) reports to share data on background radiation from their monitoring networks. Health Canada is currently writing the next version of the ERIC report, renamed the Dose from Environmental Exposure to Radiation (DEER) report. This presentation outlines the goals of the DEER report and summarizes the data, assumptions and methodology for the following exposure pathways: inhalation, external radiation, and ingestion. Doses to residents of a number of Canadian cities are presented, as well as various scenarios with different characteristics of the exposed person.

A Highly Sensitive Radon Emanation Measurement System at SNOLAB for Material Screening, *Chauhan*

At SNOLAB, a highly sensitive radon emanation counting system has been developed to study radon release from materials used in low-background experiments. The system consists of a low-radioactivity acrylic emanation chamber, a gas handling manifold and a low-background scintillation cell to detect the radon decays. This setup can also be applied to measure radon emanation from building materials. This presentation describes the radon transfer mechanism from the emanation chamber into the scintillation cell, along with the system's sensitivity and measurement efficiency.

Reference device for calibration of radon exhalation rate measuring instruments, *Xiao*

Environmental radon emanates from the exhalation and release of soil, rocks, and building materials. Environmental radon contamination tracing and radon pollution prevention and control require the measurement of the radon exhalation rate on media surfaces. Reliable measurements of the radon exhalation rate cannot be achieved without regular calibration of the measuring instrument with a high-performance reference device. In this study, a reference device for the calibration of radon exhalation rate measuring instruments was developed. This presentation will explore the performance of the reference device under different environmental conditions.

In vivo measurement of Pb-210 activity in skull to reconstruct cumulative radon exposure by the TRACE group, *Liu*
Evaluating the health effects of low-dose ionizing radiation exposure in humans remains one of the major challenges in radiation protection. In particular, assessing health risks associated with chronic low-dose radon exposure is a key issue. The accurate assessment of cumulative radon exposure remains challenging because related factors such as radon concentration, breathing rate, and residence time carry significant uncertainties. Since skeletal Pb-210 has been proposed as a potential biomarker of chronic radon exposure, in vivo measurement of Pb-210 in the skull is being investigated as a promising approach to reconstruct cumulative radon exposure.

Using AI to analyze Radon chips for faster more reliable results, *Farenhorst*
Benjamin's presentation will explore how the changing face of AI will allow us to improve radon detection and analysis.

New Horizons in Radon-Related Lung Cancer Screening, *Tappia*
Radon accounts for approximately 3,200 lung cancer deaths annually in Canada, yet current low-dose computed tomography (LDCT) screening programs rely almost exclusively on age and smoking history, thereby excluding radon-exposed, COPD, wildfire smoke–exposed, and other environmentally at-risk populations. Radon has a long latency period, during which cumulative DNA damage, metabolic dysregulation, and malignant transformation occur below LDCT detection thresholds, with no established early detection pathway. BioMark has developed and clinically evaluated a blood-based metabolomic panel for early lung cancer detection and nodule malignancy assessment in large Canadian cohorts and in the HANSE German trial.

Friday Afternoon Room 2

Cross-Canada Surveying of Radon Exposure in the Residential Buildings of Urban and Rural Communities from 2026 to 2030, *Goodarzi*
The "Cross-Canada Survey of Radon Exposure in the Residential Buildings of Urban and Rural Communities" defines contemporary radon exposure in Canada across different regions, communities and building types. The initial 2024-2025 survey was released in late 2024 at www.crosscanadaradon.ca, and will be updated biennially for the foreseeable future thanks to new funding from CIHR and the Canadian Cancer Society. In his talk, Dr. Goodarzi will outline the planned updates to the 2026-2027 version of the national survey of radon.

Understanding health risks from radon gas inhalation that are experienced by Canadians whose jobs occur in other people's houses, *Danforth*
People whose jobs take place in residential buildings experience greater radon exposures relative to those whose jobs occur mostly in non-residential buildings. While we have gained a strong understanding of radon risks experienced by people working from their own home, we do not yet understand this sufficiently for people whose work takes place fully or partly within other people's homes. From 2026-2028, Evict Radon National Study teams are assessing these occupational risks to gain insight into radiation dosimetry from radon. Dr. Danforth will present the early outcomes of the research, and outline new digital tools we have developed.

2023-2028 Canadian national trial for measuring radon decay products in toenail clippings as a personalized radon exposure dosimetry, *Pearson*
In late 2025, Evict Radon National Study teams published the successful outcomes of the pilot project carried out determine whether measuring the radon decay product 210-Pb in toenail clippings might be a useful readout of a person's long term radon exposure. The original trial involved ~40 people mostly living in Alberta with known, long-term household radon exposure. Next, we are recruiting up to 10,000 Canadians which spans all provinces, and includes metrics such as job-types, housing types, balanced gender representation, smoking history and cancer history. This will update the research community on progress on recruitment and early outcomes.

Practical Lessons Learned from Radon Exposure Assessment in Swedish Underground Mines, *Jakabova*
Radon can be a relevant source of occupational exposure in Swedish non-uranium underground mines. This presentation outlines how radon exposure assessment and dosimetry are practically performed in Sweden, from measurement strategy to follow-up and communication.
The presentation will also share experiences and lessons learned from ongoing work in

Sweden, including common challenges such as representativeness of measurements, operational constraints, and communicating results to workers and management. Where possible, perspectives from world largest underground iron mines operated by LKAB will be included, highlighting how radon exposure management is implemented in day-to-day operations and what has made it work.

Beyond Testing: The Next Steps to Protecting Canadians from Radon, *Curry*

Currently wrapping up its eighth year, the 100 Radon Test Kit Challenge program has distributed over 30 000 radon test kits in more than 200 communities. For homeowners and communities, testing for radon is the first step, but what comes next? Erin's presentation will explore what happens next for participants in the 100 Radon Test Kit Challenge.

Radon Risk Communication: From Scientific Data to Public Understanding, *Aguirre*

Communicating radon risks in a way that people not only understand but act on remains a central challenge in our field. In this presentation, I'll discuss why effective risk communication is essential and how people's psychological perception of risk often influences their decisions.

I'll walk through common obstacles and focus on practical ways to translate complex radon science into clear, relatable messages that make sense to homeowners and other non experts.

The goal is simple, to show how better communication can lead to more testing, more mitigation, and ultimately healthier homes.

Regulatory action and ongoing research relating to consumer-grade electronic radon monitors (ERMs), *Lemieux*

Consumer-grade electronic radon monitors have surged in popularity in recent years, yet Canada remains the only country that regulates these devices and provides public-facing guidance on their use. This presentation will outline Canada's approach, highlighting key achievements and emerging priorities. It will explain the science behind how electronic radon monitors operate, summarize findings from performance testing, and identify indicators of poor-quality devices. The talk will also describe the current regulatory framework and how it is evolving and will conclude with an overview of ongoing research initiatives

Dynamic Regulating in Canada's Maturing Radon Landscape, *Warkentin*

Changing building codes, updated federal guidance, and new technology that is changing the radon-testing paradigm while flooding the market with unregulated devices; these are a few of the features of the maturing radon landscape in which Canada's National Radon Proficiency Program navigates. This presentation will provide an update on the vital work of C-NRPP, and how the program continues to evolve to better serve the needs of its growing body of trained professionals as well as those of Canadian homeowners.

Risk-Informed Application of Radon Monitoring and Mitigation in LLRW Remediation: Port Hope Area Initiative, *Onikosi*

Within the Port Hope Area Initiative (PHAI), which is one of Canada's largest environmental remediation programs addressing historic contamination associated with elevated radium-226, radon monitoring and mitigation are implemented as integral elements of a risk-informed radiation protection framework. The presentation describes PHAI's structured radon management approach, encompassing baseline characterization, continuous and task-based monitoring in both indoor and outdoor environments, and trend-based data evaluation.

Saturday CE Courses

NORM Course:

This NORM Course offers an overview of Naturally Occurring Radioactive Material (NORM), including its definition, sources, and challenges. It outlines Canadian guidelines for handling NORM safely, health risks, effective management strategies, and transportation requirements. Participants will gain key knowledge to manage NORM responsibly in line with Canadian standards.

Social Media and Your Radon Business, *Bewernick*

This presentation explores how social media can be used as a powerful, low-cost tool to grow a service-based business while increasing public awareness within specialized industries such as radon testing and mitigation. The session focuses on practical strategies for using social platforms to educate the public, build trust, and generate consistent business opportunities through authentic, community-focused engagement. Attendees will learn how to create effective content using

everyday jobsite activities, client education, and real-world project examples, along with simple tools that make content creation fast and manageable for busy professionals.

The Role of Air Cleaning in Reducing Radon-Related Risk, *Kladder and Dumais*
Increasing awareness of the health risks associated with airborne particulate exposure that exacerbate respiratory complications such as asthma or allergies has led to the incorporation of particulate reduction measures in both homes, schools and workplaces. The application of air cleaning devices dramatically increased with COVID concerns where whole building filters were employed to reduce airborne pathogens. A collateral benefit of these air cleaning systems can significantly reduce radon decay products, which represent the primary risk of indoor radon.

This course will take a deep dive into the impact of air cleaning devices on dose reduction from radon progeny as it relates to both attached and unattached fraction and how this technology can aid in reducing radon risks in difficult-to-mitigate situations as well as provide a holistic approach to improving indoor air quality by reducing both particulates and radon decay products.

Measuring Radon in Large Buildings, *Lafontaine*
This course will cover conducting radon surveys in large buildings, including a review of Health Canada and C-NRPP guidelines, sampling strategies and understanding ventilation.

"GodMode" Business Fundamentals, *Lowenstein*
The "GodMode" growth framework focuses on turning operators into elite leaders—building not just revenue, but scalable systems, high-performing teams, and enterprise value.

A gamified approach to business that reframes entrepreneurship as a system to be engineered, optimized, and ultimately mastered. This philosophy is rooted in a simple belief: business is a game—and the winners are the ones who learn how to design it.

Mitigator Round Table, *various facilitators*
A perennial favourite – the mitigator's roundtable is a facilitated discussion that gives each participant the maximum amount of group input on a given subject of common interest in a short amount of time. Hear of issues that others have faced and how they dealt with them, and share your own experience! The first hour of this discussion will focus on a series of regional issues from across the country. The last two hours will be broken into English and French-speaking groups.

Night Out

Gather Local Market, May 28th

Join us Thursday evening for a fun night at Gather Market. Your dinner is included as part of your Conference registration, with drinks and additional food available for sale on site. CRPA will present the awards that would normally be part of their banquet dinner. Shuttle buses will be available from the main entrance of the hotel starting at 5:30, but the venue is within walking distance for those looking to stretch their legs.

We look forward to seeing you there!

SUNDAY FIELD TRIPS

This year we have two full-day field trip options: the Mine Tour and the Radon Mitigation Field Trip.

MINE TOUR *(registration full)*

A rare opportunity to tour an active high-grade uranium mine!

This trip runs all day Sunday and includes flights to the north of Saskatchewan and lunch.

Sponsored by Cameco.

Cameco

RADON MITIGATION FIELD TRIP *(pre-registration required)*

The mitigation field trip is an opportunity to gain some hands-on experience with our trainers.

The field trip runs from 8:30 through 4:30.

Includes lunch and snacks.

PLAN YOUR SUNDAY – TWO INCREDIBLE EXPERIENCES!

Spots are limited – check registration details for more information.

PRESENTATION SPEAKERS

RICHARD AGBEVE

Richard Agbeve is a Technical Officer at Canada's National Research Council (NRC) with experience spanning medical, industrial and research environments. His work within the Medical and Industrial dosimetry group of the NRC focuses on the calibration of health physics equipment used in radiation protection and radiotherapy programs, as well as standardized testing of personal dosimetry systems. Richard holds graduate training in public health and radiation safety, with professional interests in radiation measurement science, ionizing radiation standards and public health protection.

LINDA AGUIRRE

Linda Aguirre is a Business Developer at the Eurofins Global Competence Center for Radon in Sweden. She holds a Master of Science in Business and Economics with a major in Marketing and is responsible for marketing and communication initiatives for Eurofins Radon Testing Sweden. With four years' experience in the radon industry, Linda has developed a deep understanding of the challenges associated with risk communication and public awareness. Her work focuses on translating complex information into clear, accessible messages that inspire action among homeowners, municipalities, and environmental professionals. She is particularly passionate about how strategic communication can increase radon testing.

SAIFUL ALAM

Saiful Alam, MD, MPH, MSc, PhD is a public health epidemiologist. Currently serving as an Epidemiologist at Algoma Public Health in Ontario, Canada, he leads surveillance, analytics, and evidence generation across infectious diseases, chronic conditions, and emerging public health priorities to inform real-world decision-making. Dr. Alam's scholarly and applied work spans cancer epidemiology, occupational and environmental health, mental health, and health systems strengthening, including collaborations on major international and national initiatives. He is committed to strengthening public health programs, informing policy, and advancing health equity to improve population well-being locally and globally.

BRIAN BEWER

Dr. Bewer has nine combined first author publications in the Review of Scientific Instruments, Journal of Synchrotron Radiation, Journal of Radiological Protection, and Nuclear Instruments and Methods in Physics Research. He has worked in scientific research positions and radiation protection and control for a combination of 19 years.

DOROTHY BEWERNICK

Dorothy Bewernick is a co-founder of Great West Radon in Calgary, dedicated to raising awareness about radon and its health impacts. C-NRPP certified in measurement, she combines technical expertise with a strong education background, holding a Master of Teaching and a communications degree from the University of Calgary. Dorothy is passionate about supporting small businesses, advocating for sustainable growth and collaboration within the industry. Committed to continuous improvement, she aims to inspire others to embrace change, pursue excellence, and foster a culture of progress as a Board Member.

RICHARD BIGSBY

Dr. Richard Bigsby attended medical school at the University of Saskatchewan and interned in Victoria BC. He has general surgery training from the University of Saskatchewan, with thoracic surgery training in Exeter UK and in Winnipeg. Dr. Bigsby is currently an associate professor of surgery and division head of Thoracic Surgery at the University of Saskatchewan. He has been practicing Thoracic Surgery for 32 years in Saskatoon, and has held many leadership roles locally and nationally. He has chaired Surgical Operations for over 15 years and has served as the interim area department lead for all of surgery in the Saskatoon Health Region.

RALPH T. BOSE

Ralph Bose is a CRPA[R] with more than 30 years' experience in the nuclear industry. He holds a B.Sc. in Medical & Radiation Physics from McMaster University and was awarded the CRPA Richard V. Osborne Founders' Award in 2016. He is currently the Product Manager – Contamination & Clearance Monitors designed and manufactured at Mirion's Concord, Ontario, Canada facility.

MARCEL BRASCOUPÉ

A founding member of CARST, Marcel Brascoupé is a certified general contractor specializing in the installation of radon mitigation systems since 2008. Marcel is a bilingual C-NRPP national certified trainer for radon measurement, mitigation and CRNCH courses, and participated in the development of Health Canada's guideline document for radon mitigation. Marcel has also participated in or co-authored several scientific papers on radon mitigation.

KELLEY BUSH

Kelley has been the manager of the National Radon Outreach Program since 2008 at Health Canada's Radiation Protection Bureau. The overarching objective of the National Radon Program is to reduce the incidence of radon-induced lung cancer in Canada by providing evidence-based guidance and promoting risk reduction behaviour change. Prior to joining Health Canada, Kelley worked in the private sector as a marketing and sales management professional in the IT industry. Kelley holds a Bachelor of Commrce with honours in Marketing from Concordia University.

DIMPAL CHAUHAN

Dimpal Chauhan completed an M.Sc. in Physics from D.A.V. College, Jalandhar in 2002. In 2006, she joined Laurentian University in Sudbury, Canada, to pursue a second M.Sc. in Physics, where her research focused on the Nobel Prize–winning Sudbury Neutrino Observatory (SNO) experiment. Dimple joined SNOLAB in 2017 as a Staff Scientist and is currently a member of the Low Background Team. Her work includes environmental monitoring with a focus on radioactivity measurements in lakes and rivers, air monitoring, and radon studies. She has collaborated with Health Canada to evaluate radon monitors available to the general public.

JING CHEN

Dr Chen is a research scientist who retired from Health Canada in 2025. She has been part of the Canadian delegation to UNSCEAR since 2011, where she served as the vice-chair of the Committee for the 66th to 68th sessions and as the Chair of the Committee for the 69th and 70th sessions.

GRAEME COOPER

Graeme is currently the president of CARST, as well as being the owner/operator of Point-The-Way Radon Services in BC. While working as a home inspector, he discovered a growing radon awareness amongst both home buyers and sellers. With his years of experience in the residential and commercial renovation industry, it was an easy decision in 2020 for Graeme to transition into becoming a full-time, certified radon mitigator. Graeme also continues to be actively involved in the Summerland Fire Department where he has been a structural firefighter for 20 years.

ERIN CURRY

A Mechanical Engineer who previously ran her own building inspection and radon measurement firm, Erin is Regional Director at CARST, and also serves as Project Lead for the Take Action on Radon (TAOR) project.

CODY CUTHILL

Cody's experience with radioactive materials dates back to the first oilwell identified to contain Naturally Occurring Radioactive Materials (NORM) in Alberta (1988). At the time Provincial Regulators were not familiar with NORM or radioactive materials. This instigated the development of the Western Canadian NORM Guidelines (1995), released two years prior to the first IAEA NORM Symposium. Cody has worked with industry and regulators developing radiation safety programs and providing waste management experience. Cody was involved in licensing of Canada's first provincially licensed decontamination facility in 1997 and Canada's first provincial NORM Landfill in 2006.

JOHN DANFORTH

John Danforth, PhD is a postdoctoral scholar at the University of Calgary's Charbonneau Cancer Institute. His research focuses on radon biomarkers, alpha particle radiobiology, population health, and systematic analysis of epidemiological information and knowledge translation. His work spans disciplines, and is currently focused on evaluating lung cancer risks from exposure to radioactive radon gas for a wide variety of groups, including people whose jobs are associated with increased exposure to residential buildings.

SUVADRA DATTA GUPTA

Suvadra Datta Gupta is a Postdoctoral Fellow in the Department of Community Health and Epidemiology at the University of Saskatchewan. Her work focuses on large-scale population health research and advanced epidemiologic analysis. She is currently involved in two major research initiatives. The first involves integrating 15 large administrative and survey datasets to develop Canada's Social Determinants Urban Laboratory, aimed at advancing the measurement and analysis of urban health inequalities. The second examines the long-term health effects of occupational radiation exposure using national cohort data. Her research interests include food insecurity, occupational epidemiology, social determinants of health, and school food programs.

CHRISTINE ELLIOTT

Christine Elliott is a Saskatchewan-based speaker, bestselling author, and two-time cancer survivor of both lung and breast cancer. She volunteers with Lung Saskatchewan as a Lived Experience Ambassador and is a passionate advocate for lung health and radon awareness. Drawing from her own journey, Christine brings urgency, insight, and a powerful voice to conversations around prevention, early detection, and saving lives.

BENJAMIN FARENHORST

Benjamin Farenhorst earned his BSc in Physics from Wilfrid Laurier University, his MBA in Generative AI from the Golden Gate University, and is presently working on his PhD from Golden Gate University in Generative AI. Ben is married to his amazing wife Karina, and has four kids. He is very active in his church, and has a black belt in Goju Karate and enjoys sparring with his sons (although they are bigger and faster than he is). In his spare time Ben likes to focus on using AI for bettering society while trying to mitigate some of its negative effects.

JANET GASKIN

Dr. Janet Gaskin is an Associate Research Officer in the Ventilation and Indoor Air Quality Group at the National Research Council of Canada. Her research includes population health risk assessment and evaluating the impact of interventions to reduce adverse indoor environmental exposures and associated health effects These studies have been used to help inform the work of task groups for the Canadian Board for Harmonized Construction Codes and of standards development for the Canadian General Standards Board. Dr. Gaskin is also a member of the United Nations Scientific Committee on the Effects of Atomic Radiation expert group on radon.

AARON GOODARZI

Aaron Goodarzi, PhD is a professor at the University of Calgary and Associate Director of the Arnie Charbonneau Cancer Institute, where he runs a transdisciplinary research program in radiobiology and radiation epidemiology. He is the Scientific Director of the Evict Radon National Study, a pan-Canadian program investigating radon gas exposure, lung cancer, and radiation-induced disease.

CLAUZI GUERINI

Clauzi Guerini is an operational radiation safety professional with approximately 20 years of experience supporting radiation protection programs in research and operational environments. He holds a Bachelor's degree in Physics and has extensive experience in incident response, personnel contamination control, radioactive spill management, and the development of practical, hands-on training programs. His work focuses on translating written procedures into realistic, scenario-based training that improves worker confidence, decision-making, and preparedness during radiological incidents.. Clauzi is a CRPA(R) member and currently serves on the CRPA Recruitment Subcommittee, contributing to initiatives that support the growth and sustainability of the radiation protection profession.

ZHENGZHONG HE

Zhengzhong He, PhD, is an associate professor and head of the Department of Radiation Protection and Nuclear Safety. He is a member of the Youth Committee at the Chinese Society of Radiation Protection(CRPS).

BISMA IKRAM

Bisma Ikram is a Research Analyst at the University of Saskatchewan with graduate training in Community and Epidemiology and a Master of Public Health (MPH). Her research portfolio spans Indigenous health, ophthalmological studies, and her current work in lung cancer research. Bisma has extensive experience applying epidemiological methodologies, conducting population-based surveys, and supporting data-driven decision-making. She has also contributed to monitoring and evaluation initiatives in maternal and child health programs, strengthening program assessment and health outcomes analysis. Her work integrates rigorous research methods with a commitment to improving population health and advancing equitable healthcare solutions.

VANDA JAKABOVÁ

Vanda Jakabová, MSc, serves as the Measurement Service Responsible at Radonova Laboratories AB in Sweden. With a background in Environmental Science from Uppsala University, she brings valuable expertise to her role. Vanda is an inspiring addition to the Radonova team, where she aims to contribute as a Radon Specialist in the US and Canadian market. Prior to joining Radonova in 2024, she gained experience working with radiocaesium, further enhancing her understanding of radiation-related issues.

DOUGLAS L. KLADDER

Mr. Kladder has been involved with the development of radon measurement and mitigation technology since 1984, from both a research standpoint as well as practical field experience in assessing and addressing radon challenges throughout North America, Europe and the Pacific Rim. He is the author of several curricula that provide the basis for radon professionals but also environmental health professionals and consumers. He is well known for the book Protecting Your Home from Radon, now in its third printing, and is Technical Advisor to the Center for Applied Radon Research and the Center for Environmental Research and Technology.

CURT LAMONTAGNE

Curt has managed indoor environmental consulting projects for all levels of business and government in both Canada and the US, shifting more in recent years to a focus on quantitative IAQ and indoor environmental quality for large office towers. Curt is an active member of the BOMA BEST national technical committee, the Alberta Society of Health and Safety Professionals, and CARST.

ALEXANDER LEMIEUX

Alex Lemieux joined the Radon Technical Operations Section of Health Canada's National Radon Program in 2023. Alex leads several projects relating to electronic radon monitors and assessing environmental factors affecting radon in homes. Prior to joining Health Canada Alex worked in the nuclear industry for five (5) years as an environmental geoscientist at Canadian Nuclear Laboratories and the Canadian Nuclear Safety Commission. Alex holds a bachelor's degree in environmental science and a master's degree in geology from the University of Ottawa, and is a licensed professional geoscientist (P.Geo.) in the province of Ontario.

TRENT LOWENSTEIN

Trent Lowenstein is a business strategist, operator, and one of the leading growth coaches in the home services and trades industry. As President of Next Level Pros, he architects high-performance systems that help entrepreneurs scale companies from early-stage operations to eight-figure enterprises. Known for blending real-world execution with strategic frameworks, Trent has personally helped scale multiple businesses to 8-figure revenue, with deep expertise in HVAC, plumbing, electrical, and service-based industries.

RODERICK LIM

Roderick (Ric) Lim is a Health Physicist at Canadian Nuclear Laboratories (CNL) – Whiteshell Laboratories (WL) in Manitoba. He graduated from the University of Ontario Institute of Technology (Ontario Tech) with a Bachelor of Science and has been a member of CRPA since 2014. His recent work includes radiological characterization, final status and clearance surveys, and various decommissioning and regulatory compliance projects. Ric has previously presented on the commissioning of radiation monitoring equipment for clearance of decommissioning waste at the CRPA conference. His current focus remains on practical, defensible applications of MARSSIM that balance regulatory requirements with project realities.

AIMEE MACLENNAN

Aimee Maclennan is a Health and Safety Technician at the Canadian Light Source with over 10 years of synchrotron experience. She was introduced to synchrotron studies during her Master's degree in Chemistry and continued working in the Science Division after graduation. Her experience within the science group enabled a smooth transition into the Health and Safety department, where she now focuses on bio/chemical and radiological protection.

VIVEK MANICKAM

Vivek Manickam is the Radiation Safety Officer for Energy Solutions Canadian operations. He is a Certified Health Physicist with expertise in licensing, commissioning, and compliance management of low-level radioactive waste management facilities. He has been with Energy Solutions Canada since 2009 and has a BS in Engineering and a MS in Health Physics. Prior to his time with Energy Solutions Canada, he worked in the USA for Thermo Fisher Scientific's Radiation Measurements and Protection group.

BRYAN MCINTOSH

Bryan is a Health Physicist and Assistant RSO at CancerCare Manitoba, supporting Class II radiotherapy equipment. He is also the chair of the CRPA(R) Registration Sub-Committee and the Healthcare Working Group for the Federal-Provincial Radiation Protection Committee. He has previously worked in animal imaging research and x-ray compliance, and received CRPA(R) designation in 2023. When he's not working, Bryan enjoys biking, running, playing with his son, and tweaking computer hardware.

PAWEL MEKARSKI

Dr. Pawel Mekarski heads the Radon Technical Operations Section at Health Canada's Radiation Protection Bureau, where he co-leads the National Radon Program. Since joining Health Canada in 2009, he has advanced environmental radioactivity research, focusing on both natural sources and human-derived nuclear activities. His work addresses critical questions about radon exposure risks in Canadian homes, supporting action to reduce this public health hazard. Dr. Mekarski's initiatives prioritize strengthening building codes, modernizing radon testing guidance, and enhancing our national understanding of radon risks to ensure Canada follows an evidence-based approach in its radon reduction activities.

CAROLINE MÉNARD

Caroline Ménard is a certified nuclear medicine technologist with more than 15 years of clinical experience, including a decade in positron emission tomography (PET), where she contributed to research initiatives and served as a clinical instructor. Caroline has played an active role in harmonizing radiation safety practices across Quebec, notably by creating a collaborative Teams channel that connects nuclear medicine radiation safety professionals. She has also developed recognized training programs and gained specialized expertise in internal auditing.
For nearly two years, she has been a Licensing Specialist in the Nuclear Substances and Radiation Devices Licensing Division at CNSC.

KENNETH MOATS

Dr. Kenneth Moats is a physical scientist at the Health Canada Radiation Protection Bureau. He received a Bachelor of Science degree in Physics from the University of Saskatchewan and a Masters degree and PhD in Particle Physics from Carleton University. He has 10 years of experience working in radiation protection. His work at Health Canada includes radiological risk assessment and developing radiation protection guidance. In particular, he is the lead on the DEER report, as well as lead on the Canadian Guidelines for the Management of NORM, and is a member of the CRPA NORM Working Group.

ANNE-MARIE NICOL

Le Dr Nicol est titulaire d'un doctorat de l'École de santé publique et des populations de l'Université de la Colombie-Britannique (UBC) et d'une maîtrise en sciences de l'environnement de l'Université York. Elle est chercheuse en évaluation des risques, en application des connaissances et en santé environnementale au BCCDC, et professeure agrégée à la Faculté des sciences de la santé de l'Université Simon Fraser. Ses recherches portent sur la communication d'informations scientifiques et de santé publique complexes à divers publics. Elle s'intéresse plus particulièrement aux expositions environnementales et professionnelles ayant un impact sur la santé, et fait partie de l'équipe Occupe-toi du radon.

ADETAYO ONIKOSI

Adetayo Onikosi is a Radiation Protection Manager for CNL's PHAI. He has 13 years in radiation sciences specializing in radiation protection and health physics. He holds a BSc in Biochemistry, an MSc in Medical Biochemistry, and a CRPA(R) designation. Outside work, he enjoys soccer and table tennis.

DUSTIN PEARSON

Dustin Pearson, PhD is the Research Operations Manager of the Evict Radon National Study, managing and analyzing participant data.
Dustin's research focuses on the biological and epidemiological impacts of radon gas exposure, utilizing transdisciplinary approaches that span across biology, population health, architecture, geology and atomic physics.

KELCEY PHILIBERT

Kelcey Philibert is the Radiochemistry Lead Technologist for the Saskatchewan Research Council (SRC) Environmental Analytical Laboratories, one of the largest, most well-equipped environmental laboratories facilities in all of Canada and Canada's second largest research and technology organization. Kelcey obtained her chemical technology diploma from Saskatchewan Polytechnic and has over 15 years of radiochemistry experience. Kelcey has obtained

her Qualified Person Designation from the Ministry of Environment, is a certified radon measurement professional with CNRPP, and holds memberships with both CARST and CRPA.

BRENT PRESTON

Brent Preston is the Director of Health Standards for the Occupational Health and Safety Branch within the Ministry of Labour Relations and Workplace. In this role, he oversees the radiation safety and occupational hygiene units which enforce The Saskatchewan Employment Act, The Occupational Health and Safety Regulations, 2020 and The Radiation Health and Safety Regulations, 2024. Mr. Preston is also the Saskatchewan member of the Federal Provincial Territorial Radiation Protection Committee. This committee serves to advance the development and harmonization of practices and standards for radiation protection within Canadian jurisdictions.

BRANDON PURCELL

Brandon is the Advocacy Manager for Prevention and Early Detection at the Canadian Cancer Society (CCS). He advocates for policies to reduce cancer cases across Canada, and that will improve and expand access to life saving cancer screening programs. Brandon has a decade of experience in politics, working with both Federal and Ontario politicians.

JASON SADOWSKI

Jason Sadowski is Manager of Occupational Safety at Cameco Corporation, based in Saskatoon, Saskatchewan. In his role with Cameco, he is responsible for ensuring the effective implementation of radiation protection programs that manage radon, gamma radiation, and long lived radioactive dust through disciplined operational controls, engineering design integration, and performance monitoring in highly regulated environments.
Jason's professional experience spans uranium mine operations, technical safety oversight, and applied industrial hygiene in complex, high hazard environments. He holds a Master of Science degree and is a Professional Engineer (P.Eng.) and Certified Industrial Hygienist (CIH).

ALI SHOUSHTARIAN

Ali obtained an Honours BSc in biochemistry from the University of Ottawa and a graduate certificate in forensic science from Mount Royal University. Currently, he is a senior radiation safety specialist with the Ottawa Hospital; his portfolio includes monitoring the radiation safety of the departments of clinical nuclear medicine and the hospital's research laboratories. He is both a Registered Radiation Safety Professional and a certified Radon Measurement Professional. He is the past president of Canadian Radiation Protection Association (CRPA).

DYLAN SILVEIRA

Dylan Silveira completed his undergraduate degree in Medical and Biological Physics at McMaster University, where he developed a strong interest in nuclear science. Inspired by his professor Dr. Byun during his radioisotope methodology course, he pursued graduate studies and worked with him as a research assistant on the spectral decomposition method; the focus of his master's project. His research centers on low-level gamma-ray spectrometry using HPGe detectors, with an emphasis on spectral decomposition techniques to improve radionuclide identification and quantification at low counts. Dylan is interested in pursuing a career in the field of radiation protection as a Health Physicist.

PARAMJIT S. TAPPIA

Dr. Paramjit S. Tappia has over 30 years of research experience, with particular interest on nutrition, biomarkers and subcellular and molecular mechanisms of human disease. Dr. Tappia received his B.Sc. (Honors) in Pharmacology from the University of Sunderland, U.K. in 1985 and Ph.D. in Biochemistry from the University of Wolverhampton, U.K. in 1992. He received postdoctoral training in the Institute of Human Nutrition, University of Southampton, U.K. from 1992-1995.

BETHANY VERMA

Bethany Verma (B.Sc.Kin) is the Health Promotion Manager at Lung Saskatchewan, a charity at the forefront of improving lung health in Saskatchewan. In her role, she focuses on radon awareness, action, and advocacy, and chairs the Take Action on Radon Saskatchewan Coalition. Additionally, she manages other lung health programs related to prevention and health promotion, specifically around tobacco and vaping education and support.
Bethany enjoys the multi-sectoral partnerships that arise as a result of her work in health promotion, and loves collaborating with individuals and organizations to support healthy communities.

ATHENA WANG

Athena Wang is a Radiation Scientist at the Radiation Safety Institute of Canada. She is a C-NRPP certified Radon Measurement Professional. She is also the resident surveyor, responsible for conducting radiation surveys, contamination surveys, and EMF surveys. She assists in training and education and consulting services as well as responding to public inquiries about radiation safety through the Institute's free information service. Ms. Wang's background is in physics and education.

Her undergraduate studies focused on math and physics with an emphasis on quantum mechanics. Her master's degree in physics focused on classical electromagnetism. She speaks English, French, and Mandarin Chinese.

PAM WARKENTIN

A founding member of CARST and a C-NRPP certified measurement professional, Pam Warkentin is the Executive Director of both CARST and C-NRPP, and Project Manager of the Take Action on Radon (TAOR) program.

DETAO XIAO

Detau Xiao, PhD, is a professor and Director of the Hunan Key Laboratory of Radon, a member of the ICRU working group on radon, standing director of the China Radiation Protection Society(CRPS), Vice Chairman of the Ionizing Radiation Metrology Branch of the Chinese Nuclear Society(CNS), and Vice Chairman of the Solid State Nuclear Track Professional Committee of the Chinese Nuclear Physics Society. Detau has developed a thoron chamber and a radon exhalation rate device, a simultaneous measurement method of radon and thoron concentrations by a scintillation cell, a continuous radon and thoron monitor, and various other radon devices.

JOSIP ZIC

Josip is the President-Elect of the CRPA and Interim Chief Nuclear Officer at McMaster University, providing radiation safety and licensing support for the safe operation of their 10 MW research reactor, Class II Facilities and more than 1,200 individuals that perform radiological work activities under the 40 regulatory licenses used on and off campus. Josip has been working in the Radiation Safety and Regulatory Affairs field for >20 years, along with being a RRSP with the CRPA and Certified Health Physicist with the American Board of Health Physics.

POSTER PRESENTATIONS

OpenRadiation, a collaborative network of ambient dose rate measurements by and for the citizen, *Jean-Marc Bertho*

Citizen measurements of radioactivity first appeared in the aftermath of the Chernobyl accident supporting the development of a practical radiation protection culture. Rapidly after the Fukushima accident, citizen led measurements developed strongly, thanks to the availability of internet and social media. Such measurements have two major interests, to enable everyone to assess his own risk and to provide "real time" data from the field at various locations. OpenRadiation offers the public the opportunity to perform dose-rate measurements in the environment.

Optical Conditioning of OSLDs: Implications for Eye Lens Monitoring in Medical and Nuclear Radiation Protection, *Minahil Manzoor*

Optically stimulated luminescence dosimeters (OSLDs) are widely used in radiation protection; however, their reuse is limited by uncertainties associated with signal resetting and sensitivity stability. This work builds on previous development of an optical annealing system by presenting experimental evidence on the performance of OSLDs subjected to repeated irradiation and optical conditioning cycles. Design enhancements to the optical annealer are discussed in the context of improving conditioning consistency and operational practicality. Results demonstrate the feasibility of optical conditioning for repeated OSLD use and highlight implications for eye lens dosimetry and routine monitoring in medical and nuclear radiation protection programs.

Emission Laminography for Radiological Assessment of Concrete Slabs, *Viridiana Borjas Padilla*

Concrete is widely used as a radiation shielding material. Its high density and hydrogenous composition facilitates the absorption and scattering of particles. This material is versatile, cost-effective, and structurally stable, making it a preferred choice in nuclear facilities and repositories that store high-radiation substances. Thus, concrete structures may become activated or contaminated. In such cases, characterization of the internal activity distribution is required for safety assessment, decommissioning planning, and waste classification. Non-destructive techniques (NDT), such as, emission tomography allows internal activity profiles while maintaining structural integrity. This work considers an emission tomography system based on a modified limited-angle approach.

An economic evaluation of the costs of radon testing and mitigation weighed against the healthcare system savings associated with lung cancer prevention, *David Griffin*

Lung cancer is the leading cause of cancer mortality in Canada, with high treatment costs in the era of personalized cancer treatments. While tobacco usage and tobacco-associated lung cancers continue to decrease, lung cancer among people who do not smoke tobacco is rising. Fortunately, radon exposure can be reduced by implementing proven and effective reduction strategies largely carried out by C-NRPP certified professionals. Mr. Griffin and Macqueen will jointly present ongoing work to develop a decision analytic model to simulate the effect of radon reduction strategies (compared to no action) on cost and quality-adjusted life years for lung cancer.

Parametric Shielding Analysis of a Flexible Accelerator-Driven Subcritical System,

Michelle Denny

Applications of accelerator-driven sub-critical systems have garnered significant interest in the last few decades. Due to their ability to maintain net negative reactivity (i.e. keff<1) under all operating conditions, these assemblies are proven to be inherently safe and hence prove to be fantastic testbeds for a variety of instrumentation, neutron field spectra analyses, shielding and criticality testing. In anticipation of such a facility being built at Ontario Tech University, this work mainly focuses on conducting a parametric analysis of current shielding strategies within a variable configuration subcritical assembly that can accommodate multiple neutron generator configurations or alternative accelerator-based neutron sources.

Potential for Raman spectroscopy in rapid and cost-effective in-vivo biodosimetry,

Quinn Eng

Recent reductions in ICRP recommended eye dose limits from 150mSv per year to 20 mSv per year have emphasized the importance of accurate ocular dosimetry. To date, there are no commercially available, in-vivo biodosimetry tools for the eye. Raman biodosimetry is promising due to its specificity, non-invasiveness, and potential for sample-free analysis of the eye lens. However, eye-safe power densities have not been determined, nor has Raman biodosimetry been attempted for organ cultures of the entire eye lens. An experimental campaign to excise and irradiate rainbow trout eye lenses for Raman analysis is underway.

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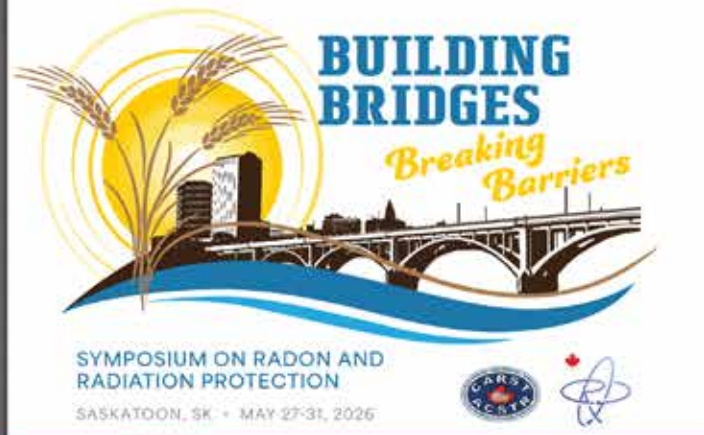

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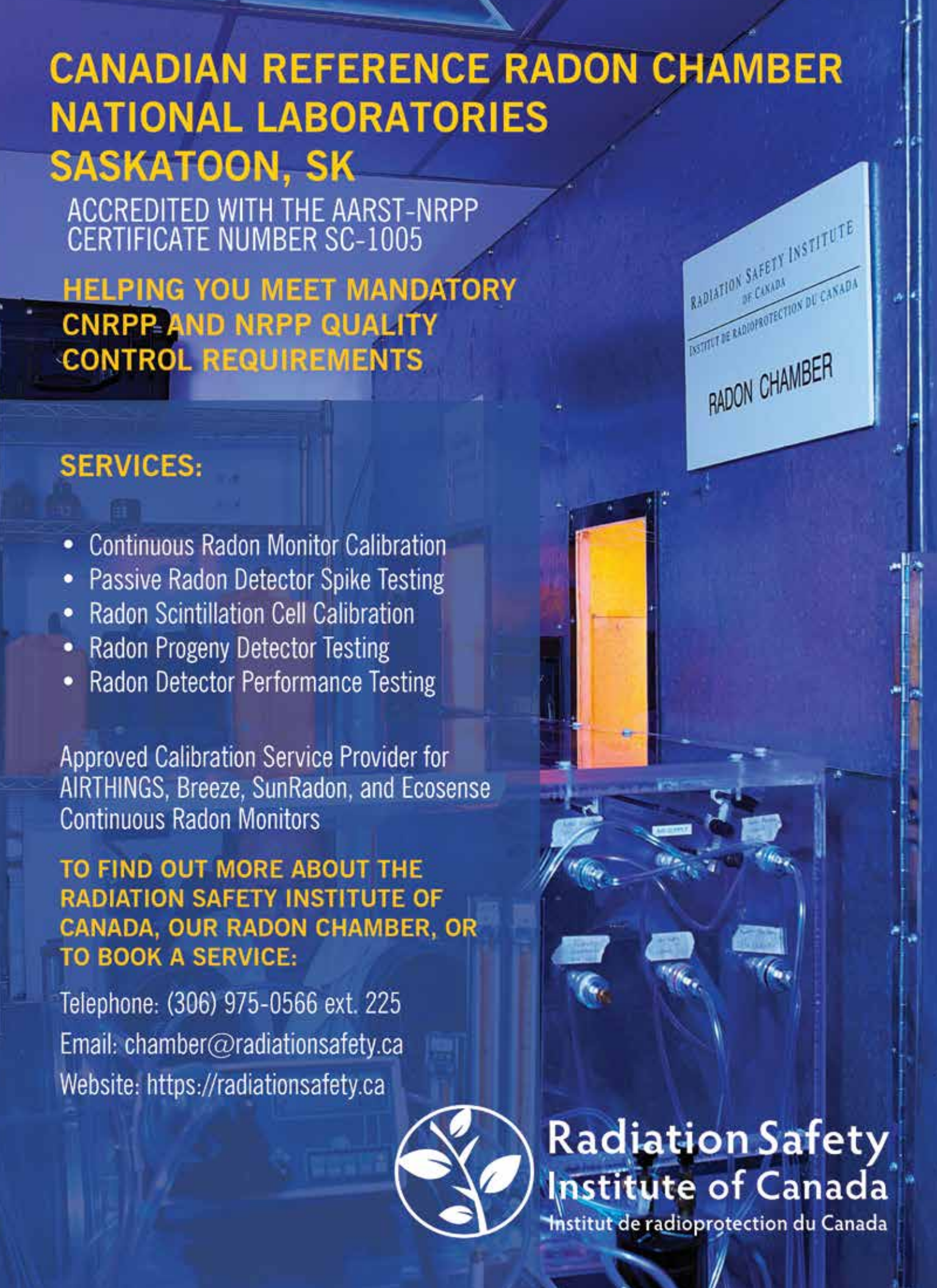

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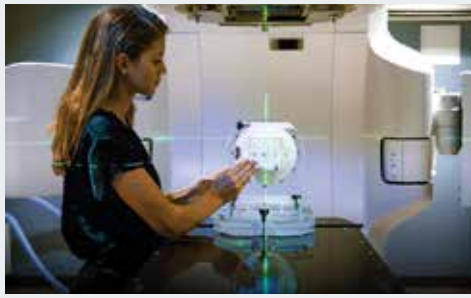

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