



Conference of Radiation Control Program Directors, Inc.

NEWSBRIEF

www.crcpd.org

A Partnership Dedicated to Radiation Protection

October 2022

FROM THE CHAIRPERSON



EFFORTS & ACCOMPLISHMENTS

By Patrick Mulligan

If you are like me, I am keenly aware of the dwindling daylight hours each day and am wondering what happened to summer. The 2022 holiday season will be upon us just as fast as summer flew by. The fall continues to a very busy time

for CRCPD, and our membership is consistently making progress toward improving radiation protection across all disciplines. **As new technology emerges and challenges arise, our membership is consistently ready to take them on to ensure the safety and security of the public into the future.** The commitment and passion of all of you continues to impress and amaze me every day. As I review the progress of the many CRCPD committees and task forces prior to writing these articles, I am always impressed with the significant efforts and accomplishments made across our organization. **I am deeply grateful for all your hard work.**

CRCPD's Annual Fall Board Meeting

The Board is all set to meet in Arlington, VA during the week of November 7 – 10, 2022, for the fall Board meeting. We look forward to reviewing the progress of ongoing initiatives and the

MAKING PROGRESS

"The fall continues to a very busy time for CRCPD, and our membership is consistently making progress toward improving radiation protection across all disciplines."

Patrick Mulligan

SEE PAGE 7 FOR CONTENTS



FROM THE CHAIRPERSON

(continued)

accomplishments that have been made thus far. We will begin the process of planning for the coming year and review progress toward the priorities set by the Board in June. Planning for our annual conference in May 2023 will kick off at the end of the week. **I look forward to sharing the details of this meeting with you in the next newsletter, and as always, please reach out to me or any other Board member if there is a topic you feel we should address during our meetings.** Our goal is to support the needs of our membership and represent your insights and perspectives. Please reach out to any of the Board members if you have specific initiatives or priorities that you feel CRCPD should focus on.

As the end of calendar year 2022 nears, the Office of the Executive Director (OED) staff and Lisa Bruedigan, our treasurer, will review the annual financial information and prepare a report for the Board during the fall Board meeting. CRCPD manages many grants that support our activities. OED staff and Lisa do an outstanding job of keeping track of all the commitments and deliverables under each grant. Everyone should be aware that grants are the primary source of funding that support the activities of CRCPD, so we must ensure that the deliverables tied to these grant priorities are met. **Most of the deliverables for these grants are carried out through the work of our committees and we thank our committee chairs and members for their efforts and for providing the documentation and updates necessary for our grant reporting.** We also thank our federal partners for their work to provide these grant opportunities to support our coordinated efforts.

2022 National Radon Training Event

We are very pleased that the 2022 National Radon Training Event was held in-person from October 24 through 26, 2022, in Seattle, Washington with 74 persons attending.

EFFORTS & ACCOMPLISHMENTS

GRANTS SUPPORT FOR ACTIVITIES

“OED staff and Lisa do an outstanding job of keeping track of all the commitments and deliverables under each grant.”

Patrick Mulligan

FROM THE CHAIRPERSON

(continued)

We are very grateful to be able to sponsor this very important training event with financial support from the U.S. Center for Disease Control & Prevention (CDC). In addition to the training event agenda, a special session titled Building Technical Capacity (BTC) - "Radon 101 through 499 - A Little Bit for Everybody" was held on Sunday, October 23rd for anyone wishing to attend.

Mendy and the staff at OED did another fantastic job planning, coordinating, and implementing this outstanding training event for CRCPD. Their efforts are greatly appreciated by me and all the CRCPD Board members. If you attended the training and get a chance, please thank Ruth, Mendy, and the OED team for their hard work to make sure our membership was able to have access to an excellent training opportunity for radon related information.

International Atomic Energy Agency's Topical Session on Radiation Safety of Non-Food Commodities

The CRCPD has been invited by the IAEA to attend and make a presentation at the Topical Session on Radiation Safety of Non-Food Commodities November 24th, 2022, as part of the 53rd Radiation Safety Standards Committee (RASSC) Meeting. **This is yet another example of the continued strong partnership between the CRCPD and the international radiation protection community.** IAEA has asked CRCPD to address the US experience on trade of contaminated non-food commodities during the topical session. You will note the meeting is scheduled for Thanksgiving Day in the US, and Lisa Bruedigan has graciously agreed to sacrifice her time to represent us at the meeting. We are all very grateful to Lisa for her dedication and commitment to the CRCPD. This is going well above and beyond expectations, and she deserves our deepest appreciation. Thank you, Lisa.

EFFORTS & ACCOMPLISHMENTS

NATIONAL RADON TRAINING

"...a special session titled Building Technical Capacity (BTC) - "Radon 101 through 499 - A Little Bit for Everybody" was held on Sunday, October 23rd for anyone wishing to attend."

Patrick Mulligan

FROM THE CHAIRPERSON

(continued)

EFFORTS & ACCOMPLISHMENTS

DOT Special Permits

Special DOT permits are due to expire April 2023 (DOT-SP 10656) and May 2023 (DOT-SP 11406). **To ensure that all states have continuity in the ability to issue special permits, the CRCPD has started to engage with DOT on renewal.** It is expected that the renewal will be completed so that there are no gaps in coverage

NRC Rulemaking

On September 22nd, the CRCPD Board sent a letter to NRC regarding the Radioactive Source Security and Accountability (NRC-2022-0103) rulemaking and the findings of the GAO in the July 2022 document, **"Preventing a Dirty Bomb: Vulnerabilities Persist in NRC's Controls for Purchase of High-Risk Radioactive Materials."** In response, the NRC has reached out to CRCPD to acknowledge receipt of the comments. Further collaboration on this issue and discussions about the proposed rule revisions will take place during the CRCPD's Fall Board meeting scheduled for November 8 and 9 in Arlington, VA. **This rulemaking will revise the NRC's regulations to address concerns and vulnerabilities identified in the GAO report.** A second NRC government-to-government meeting on this topic was held on October 25. The NRC has provided draft rule language and other pertinent documents related to the rulemaking and is seeking input from agreement states. **Comments and feedback are due by November 10, 2022.**

Thank you for all you do for your state and the CRCPD to protect the health and safety of the public. **I hope you all have a wonderful fall and upcoming holiday season!**

PREVENTING A DIRTY BOMB: GOA AND NRC AND CRCPD

"Further collaboration on this issue and discussions about the proposed rule revisions will take place during the CRCPD's Fall Board meeting scheduled for November 8 and 9 in Arlington, VA."

Patrick Mulligan

EXECUTIVE DIRECTOR'S
MESSAGE



ENHANCING CRCPD'S PROFILE WHILE MEETING RADIATION COMMUNITY NEEDS

by Ruth McBurney, CHP

It has been a busy start to autumn at CRCPD. Now that we are able to travel and meet again, lots of meetings have been taking place. The Radon Training Event was going on just last week in Bellevue, WA. We hope to have a good review of that event soon. Other meetings are being planned for November and later, as the work of CRCPD Board and various committees take place. **In addition to the Board meeting in November, a multi-organizational workshop is being held in Bethesda, MD, the following week to explore the feasibility of creating a compilation of medical exposure data.**

One of the key elements of CRCPD's Strategic Plan is to enhance the profile of the organization. Because of our efforts in this area over the last decade, we have been seen as a source of unique resources in radiation protection. Both nationally and internationally, CRCPD has been asked to serve on working groups outside our organization in several areas in which states play a key role in policies and regulations for use of sources of radiation and in emergency preparedness.

In this issue of the *Newsbrief*, you will find a distinctive international focus in the articles included. **In addition to the activities highlighted, CRCPD also provided a written report to the International Commission (ICRP) on Radiation Protection for their annual Meeting of the Special Liaison Organization (societies in special liaison with ICRP, which includes CRCPD).** The main focus of this year's meeting was on the Call to Action to Strengthen Radiation Protection.

ENHANCING CRCPD'S PROFILE

"Both nationally and internationally, CRCPD has been asked to serve on working groups outside our organization in several areas in which states play a key role in policies and regulations for use of sources of radiation and in emergency preparedness."

Ruth McBurney

**EXECUTIVE
DIRECTOR'S MESSAGE**

(continued)

**ENHANCING CRCPD'S PROFILE WHILE MEETING
RADIATION COMMUNITY NEEDS**

As you may know, we have a working group dedicated to determining ways we can strengthen the health physics workforce.

This shows how active we have become, both nationally and internationally. **As we participate and collaborate with other organizations in the United States, we are also strengthening our own organization and the radiation control programs that make it up.**

One of the other goals of our Strategic Plan is to produce radiation protection solutions that meet community needs. By getting ideas from other scientific and radiation protection organizations, we are able to improve on the guidelines we produce for our membership.

Meanwhile, back at the Office of the Executive Director in Frankfort, we have exciting news—we're moving! We have located a really nice office space for the staff that is quite accessible to all of them and provides a nice work environment, including a conference room and library where we can host committee meetings and other events when needed. The move took place over the weekend, so we are now at our new address:

201 Brighton Park Boulevard, Suite 1
Frankfort, KY 40601

We hope to provide pictures of the new office in the next edition, following some painting and arranging.

Happy Halloween!

**RADIATION
PROTECTION
SOLUTIONS**

“ By getting ideas from other scientific and radiation protection organizations, we are able to improve on the guidelines we produce for our membership.”

Ruth McBurney

CONTENTS

CONTRIBUTORS

LEADERSHIP MESSAGES

FROM THE CHAIRPERSON

- 1 *CRCPD's Annual Fall Board Meeting*
- 2 *2022 National Radon Training Event*
- 3 *International Atomic Energy Agency's Topical Session on Radiation Safety of Non-Food Commodities*
- 4 *DOT Special Permits*
- 4 *NRC Rulemaking*

EXECUTIVE DIRECTOR'S MESSAGE

- 5 *Enhancing CRCPD's Profile While Meeting Radiation Community Needs*

PARTNERS: INTERNATIONAL ATOMIC ENERGY AGENCY AND INTERNATIONAL LABOUR ORGANIZATION

- 8 *CRCPD Extends Practical Arrangements With International Atomic Energy Agency*
- 9 *The 3rd International Conference on Occupational Radiation Protection*

CRCPD MEMBERS PARTICIPATE IN REVISION OF IAEA SAFETY STANDARDS REPORT

- 11 *Ruth McBurney and David Allard Consultancy to IAEA*

NEW RESOURCE CORNER

- 12 *Reference Materials for Nuclear Medicine*

CRCPD WELCOMES NEW MEMBERS

- 13 *New Director, Associate and Affiliate Members*

Auggie Ong

Chair, H-47 Committee on Nuclear Medicine

Augustinus.Ong@dhhs.nh.gov

David Allard

Life Member (PA), CRCPD

Debbie Gilley

(FL) Life Member of CRCPD

The Newsbrief is published in February, April, June, August, October, and December by the Office of Executive Director, Conference of Radiation Control Program Directors, Inc., 201 Brighton Park Boulevard, Suite 1, Frankfort, KY 40601. Telephone: 502/227-4543, fax: 502/227-7862; Website: <www.crcpd.org>.

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PARTNERS: INTERNATIONAL ATOMIC ENERGY AGENCY

CRCPD EXTENDS PRACTICAL ARRANGEMENTS WITH INTERNATIONAL ATOMIC ENERGY AGENCY

On October 19, 2022, CRCPD extended and amended an agreement, known as Practical Arrangements, with the International Atomic Energy Agency (IAEA), on cooperation in the area of radiation safety and monitoring. A special signing ceremony was held at the IAEA headquarters in Vienna, Austria, where the amended Practical Arrangements were signed by Ms. Lydie Evrard, Deputy Director General and Head of the Department of Nuclear Safety and Security, IAEA, and Ms. Ruth McBurney, Executive Director, CRCPD.

CRCPD has had Practical Arrangements with IAEA since 2016. The first agreement set forth the framework for non-exclusive cooperation between IAEA and CRCPD in three areas of radiation safety and monitoring, those being:

- naturally occurring radioactive material (NORM);
- reduction of radiation exposure from radon; and
- radiation protection of patients, especially where new radiation source technologies are used.

The Practical Arrangements were extended in 2019 for another three years to 2022.

The scope of the Practical Arrangements for the next three years are still focused on the original areas of radiation safety, but have been modified slightly to include:

- working collaboratively in the area of contaminated or radioactive materials (including NORM and TENORM) containing non-food consumer goods or commodities; and
- working collaboratively in the area of preparation of guidance and other relevant materials addressing exposures from radionuclides in food in non-emergency situations.



Ms. Lydie Evrard, Deputy Director General and Head of the Department of Nuclear Safety and Security, IAEA, and Ms. Ruth McBurney, Executive Director, CRCPD

David Allard, Life Member (PA), CRCPD

Debbie Gilley, Life Member (FL), CRCPD

THE 3RD INTERNATIONAL CONFERENCE ON OCCUPATIONAL RADIATION PROTECTION

As a follow-up to similar conferences in 2002 and 2014, the International Atomic Energy Agency (IAEA) and International Labour Organization (ILO) recently organized the 3rd International Conference on Occupational Radiation Protection, with the theme **Strengthening Radiation Protection of Workers – Twenty Years of Progress and the Way Forward**. The meeting was hosted by the Government of Switzerland and held in Geneva, September 5-9, 2022. It brought together some 700 radiation protection experts from 105 countries. Objectives of the conference included the following:

- exchange of information and experience;
- review of challenges;
- technical and regulatory advances;
- review the global situation on radiation protection of workers;
- identify priority actions and future needs; and,
- formulate conclusions and recommendations.

SESSION THEMES

The increasing use of ionizing radiation in medical procedures has resulted in an increase in the number of occupationally exposed workers over the years, with certain interventional fluoroscopy procedures being a continuing challenge.

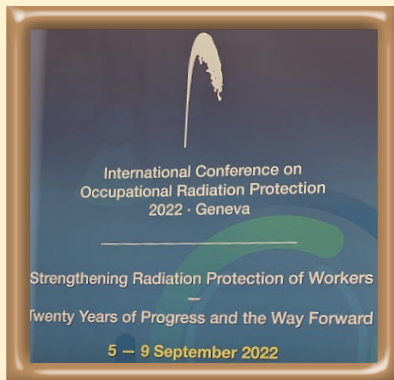
There is a need to protect workers in industries involving NORM and to apply a graded approach by regulators and facility operators. Continued NORM experience exchange is needed to establish the balance for radiation protection and other safety aspects. Regulation and control of radon exposure in workplaces remains an important topic.

Nuclear power plants (NPPs) used in Member States may grow to meet the rapid increase in carbon-free energy demand. Countries building new NPPs with new reactors designs is giving rise to some challenges for occupational radiation protection. NPPs that come to the end of their operating life, and in need of decommissioning activities, will affect the radiation protection of workers.

Experience and feedback from the implementation of the IAEA's Basic Safety Standards will be important for international harmonization and future revision of radiation protection standards. In particular, the reduction of the dose limit for the lens of the eye has presented practical challenges in implementation. The first author of this article presented on the significant disconnect between radiation protection regulations and basis standards in the USA. There was consensus on efforts to develop safety culture in radiation protection that should continue in order to prevent incidents/accidents.

THE 3RD INTERNATIONAL CONFERENCE ON OCCUPATIONAL RADIATION PROTECTION - CONTINUED

USA DELEGATION OF PRESENTERS



The USA delegation of presenters and attendees included [L to R]: Melissa Martin (AAPM), Dori Willis (NRC), Dave Allard (CRCPD), Cathy Ribaud (NIH), Rusty Lorenzen (Boston Children's Hospital), Debbie Gilley (CRCPD), Donna Newman (ISRRT), Vince Holahan (NRC), Mahadevappa Mahesh (AAPM), and Kathy Modes (NRC).

INVITED PRESENTATIONS

TOPIC AREAS

- *Review of international standards and recommendations on occupational radiation protection*
- *Progress over the past twenty years and existing challenges*
- *Radiation effects and health risks from radiation exposure at the workplace*
- *Monitoring and dose assessment of occupational radiation exposures*
- *Occupational radiation protection in medicine*
- *Occupational radiation protection in the workplaces involving exposure to naturally occurring radioactive material (NORM), radon and cosmic rays*
- *Occupational radiation protection in industrial, research and educational facilities, nuclear power plants and nuclear fuel cycle facilities*
- *Radiation protection in emergency exposure situations and subsequent transition periods*
- *Radiation protection of workers in special cases (itinerant workers, apprentices, female workers)*
- *Optimization in occupational radiation protection*
- *Technical service providers in occupational radiation protection*
- *Education and training in occupational radiation protection*
- *Probability of causation of occupational harm attributable to radiation exposure, health surveillance, and compensation*
- *Management systems, radiation protection networks*
- *Occupational exposure levels and dose registries*
- *Safety culture in occupational radiation protection*

LINKS

[CONFERENCE](#)

[TAILORED APPROACHES KEY TO OPTIMIZING OCCUPATIONAL RADIATION PROTECTION](#)

CRCPD MEMBERS PARTICIPATE IN REVISION OF IAEA SAFETY STANDARDS REPORT

by Ruth McBurney

Ruth McBurney and David Allard from CRCPD recently participated in a consultancy to the International Atomic Energy Agency (IAEA) to develop a revision to Safety Reports Series #34, “Radiation Protection and the Management of Radioactive Waste in the Oil and Gas Industry.” The committee assigned to this revision have been working on it virtually since 2020 but had its first in-person meeting during the week of October 17-21, 2022. The document covers not only the use of sealed and unsealed radioactive material in the oil and gas industry, but also covers the production and management of incidental naturally occurring radioactive material in the industry.

Revision of IAEA Safety Standards Report



Ruth E. McBurney, CHP and
David J. Allard, CHP

Reports on safety and protection in nuclear activities are issued in the IAEA Safety Reports Series, as informational publications. Safety Reports may describe good practices and give practical examples and detailed methods that can be used to meet safety requirements. They do not establish requirements or make recommendations.

NEW RESOURCE CORNER

Contributed by Auggie Ong, Chair, H-47 Committee on Nuclear Medicine

The H-47 Committee Charge includes providing information and guidance as needed to state programs regarding nuclear medicine issues. In this Resource Corner, the Committee is announcing that IAEA has recently released the following reference materials that radiation control materials programs may find useful:

[“Production, Quality Control and Clinical Applications of Radiosynovectomy Agents”](#)

[“QUANUM 3.0: An Updated Tool for Nuclear Medicine Audits”](#)

Recent publications for those who had taken courses in clinical research:

[“Radiotheranostic Agents in Hematological Malignancies”](#) (Frontiers in Immunology, 2022; 13: 911080.)

[“¹⁷⁷Lu-PSMA Therapy”](#)

CRCPD WELCOMES

NEW MEMBERS

DIRECTORS

Anthony Chu (CA)

Jerry Lang (LA)

Nathan S. Saunders (ME)

Dwight Shearer (PA)

ASSOCIATES

Abdurahman Ablimit (MD)

Caitlynn A. Couch (TN)

Savanna Ezernack (VA)

Robert Fisher (TX)

Juan Garcia (CA)

Callie Hargrove (CA)

Mitchell Hemesath (MI)

Adam Horne (MI)

William Jackson (MD)

Vattoly Majo (NY)

Giovanna Manning (FL)

Nava Rastegar (MD)

Rae Walker (TX)

AFFILIATES

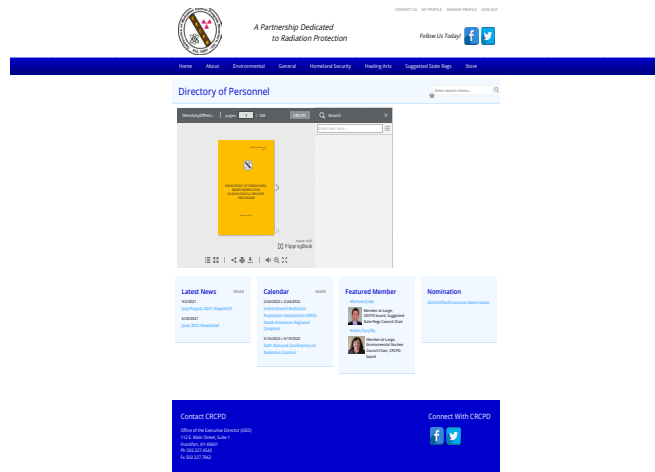
Chris Black (TX)

Meredith Check (MD)

Har’O Fisher (GA)

DIRECTORY INFORMATION

The Directory of Personnel Responsible for Radiological Health Programs is available online for members and our federal partners and is updated regularly. Visit [CRCPD](#).



CALL FOR NEWS

CRCPD is interested in what you are doing and would like to share your knowledge and experiences with other CRCPD members through a feature article in the *Newsbrief*.

If you would like to submit an article, please contact Ruth McBurney (rmcburney@crcpd.org) suggesting a topic you’d like to present.

The *Newsbrief* is published six times a year, in even numbered months. Deadline for submission is the 15th of the month of publication.

BOARD OF DIRECTORS AND COUNCILS

CHAIRPERSON

Patrick Mulligan (NJ)
609/984-7701
patrick.mulligan@dep.nj.gov

PAST CHAIRPERSON

Angela Leek (IA)
515/281-3478
angela.leek@idph.iowa.gov

CHAIRPERSON-ELECT

Rikki Waller (ID)
208/334-0549
Rikki.waller@dhw.idaho.gov

TREASURER

Lisa Bruedigan (TX)
512/834-6629
lisa.bruedigan@dshs.texas.gov

TREASURER-ELECT

Cynthia A. Costello, MS, MPH, CHP
518/402-7556
cynthia.costello@health.ny.gov

MEMBERS AT LARGE

Becki Harisis (NE)
402/471-0385
becki.harisis@nebraska.gov

Michael Snee (OH)
614/644-2732
michael.snee@odh.ohio.gov

MEMBERS AT LARGE - CON'T

Tanya Ridgle (LA County, CA)
213/351-7385
tanya.ridgle@cdph.ca.gov

ENVIRONMENTAL NUCLEAR COUNCIL

Rikki Waller (ID)
208/334-0549
Rikki.waller@dhw.idaho.gov

GENERAL COUNCIL AND LIAISONS

Becki Harisis (NE)
402/471-0385
becki.harisis@nebraska.gov

HEALING ARTS COUNCIL

Lisa Bruedigan (TX)
512/834-6629
lisa.bruedigan@dshs.texas.gov

HOMELAND SECURITY/EMERGENCY RESPONSE COUNCIL

Tanya Ridgle (LA County, CA)
213/351-7385
tanya.ridgle@cdph.ca.gov

SUGGESTED STATE REGULATIONS COUNCIL

Michael Snee (OH)
614/644-2732
michael.snee@odh.ohio.gov