



Conference of Radiation Control Program Directors, Inc.

# NEWSBRIEF

[www.crcpd.org](http://www.crcpd.org)

A Partnership Dedicated to Radiation Protection

February 2015

## Message from Chairperson Michael J. Snee

I have now officially entered the stretch run in my year serving as the CRCPD Chairperson. It is hard for me to believe that it has been two years now since Earl Fordham called me out of the blue and promised untold riches if I agreed to run for Chairperson. Although I have yet to see the money, luxury cars and boats that Earl mentioned, **I am certainly winding up my year as Chairperson much richer due to the people that I have met and worked with this past year.** As we finalize the slate of candidates, I can guarantee that the soon to be elected Board members will feel the same after their terms.



But there is still much to do before I turn over the gavel to Bill Irwin in St. Louis. On April 16, Bill and I will join our colleagues from the Organization of Agreement States (OAS) in the annual briefing of the U.S. Nuclear Regulatory Commission (NRC). This briefing affords us the opportunity to discuss radioactive material policy and regulatory issues with the commissioners. It is a unique experience that I am certainly looking forward to participating in.

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### Inside

Message from Chairperson .....	1	REAC/TS Posts New Course Dates.....	13
Greetings from Your Executive Director .....	3	CRCPD Welcomes New CRCPD Members.....	14
TENORM Revisited .....	3	2015 Directory.....	15
47th National Conference .....	5	CRCPD Board of Directors.....	16
Dates, Place & Reservations .....	5	CRCPD Councils.....	16
Lodging and Reservations .....	5		
Sessions .....	6		
Workshops & Events .....	8		
New Federal X-ray Guidance Published.....	10		

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## Message from Chairperson *(continued)*

### CRCPD Surveys & Questions

"I encourage the Director Members to answer these surveys and questions or forward to the appropriate staff in your programs.

We all have experienced times where the collective knowledge of our organization can be invaluable in making decisions."

Mike Snee

Over the past few months, Director Members have received a number of surveys and questions posed by either the CRCPD Board, Working Groups, or State Members. I encourage the Director Members to answer these surveys and questions or forward to the appropriate staff in your programs. **We all have experienced times where the collective knowledge of our organization can be invaluable in making decisions.**

The announcements have been sent and registration is open for the 47th Annual National Conference on Radiation Control, ***Building on Momentum: Success of Partnerships in Radiation Protection***, which will be held in St. Louis, Missouri, May 18-21, 2015. In addition there will be two special sessions on Sunday, May 17. The first of these will be a training session held by our partners at the American Association of Physicists in Medicine, ***The Changing Face of Radiation Protection in Medical Use of Radioactive Materials and Machines that Produce Radiation***. The second session, ***TENORM (technologically enhanced naturally occurring radioactive material) Workshop for Bridging the Regulatory Gaps in the Oil and Gas Industry***, will be presented by the E-42 Task Force.

Also at the annual meeting we will have the Keynote Address from NRC Chairperson Stephen Burns and the John C. Villforth lecture by Bruce Thomadsen, Ph.D., from the University of Wisconsin. **Don't delay in registering; it promises to be a great meeting.**

As always, please forward any other needs or issues that you have to the Board so that we can put the resources of the CRCPD to work for you. We are easily found at [http://www.crcpd.org/contact\\_information.aspx](http://www.crcpd.org/contact_information.aspx)



## Greetings from Your Executive Director



Ruth E. McBurney, CHP

### TENORM

“New issues and techniques such as fracking have drawn attention to radiation protection concerns with TENORM, particularly in the oil and gas industry.”

Ruth E. McBurney

### TENORM Revisited

CRCPD and several state agencies have been grappling with the regulatory issues of **technologically enhanced naturally occurring radioactive material (TENORM)** for around 30 years. In fact, I remember writing one of my *Newsbrief* articles the year I was Chairperson of CRCPD (1995-96) on the topic of TENORM (which was just called NORM in those days). However, in the last few years, **new issues and techniques such as fracking have drawn attention to radiation protection concerns with TENORM, particularly in the oil and gas industry.**

Most recently, several states, primarily those with fracking being conducted to increase oil and gas production, have been asked to address technical and policy issues involving TENORM waste from this industry. **Likewise, several organizations and groups are looking at the TENORM issue, including the:**

- **CRCPD;**
- **Health Physics Society;**
- **Low-Level Waste Forum; and**
- **National Council on Radiation Protection.**

As a result, several of our members are being asked to present information at meetings of these groups and serve on committees to develop solutions to some of the issues of concern. Because of the recent regulatory activity in some of the oil and gas states, **the state regulatory folks are in high demand as experts in the field.**

**The CRCPD’s E-42 Task Force to Review the TENORM Aspects of the Oil and Gas Industry, chaired by Jared Thompson (AR), is working on a report on TENORM with recommendations for a path forward to address the regulatory issues involved. It is expected to be completed and published sometime this spring.**

## Executive Director

### Greetings *(continued)*

#### Meeting Opportunities

##### TENORM Workshop

*Bridging the Regulatory Gaps in the Oil and Gas Industry,*

Sunday, May 17, 2015

St. Louis, Missouri

***“Plan to stay for the National Conference on Radiation Protection, May 18-21.”***

***Ruth E. McBurney***

In addition, you will have the opportunity to participate in a special TENORM Workshop entitled ***Bridging the Regulatory Gaps in the Oil and Gas Industry***, on Sunday, May 17, 2015, in conjunction with the National Conference on Radiation Control in St. Louis, Missouri.

The workshop will feature presentations from representatives from state, national and international radiation control agencies, as well as the oil and gas industry.

#### **Topics to be covered include:**

- **international recommendations;**
- **federal and state regulations;**
- **disposal options for TENORM; and**
- **potential changes to the Suggested State Regulations for TENORM (Part N).**

**Presentations will be followed by a roundtable discussion to develop findings and recommendations from the workshop.**

If TENORM is a concern in your state or may become a regulatory issue on the horizon, I encourage you to participate in the upcoming workshop. **While you are in St. Louis, plan to stay for the National Conference on Radiation Protection, May 18-21.** You will find information about the meeting in this copy of the *Newsbrief*.

We have a lot of exciting technical sessions, training, and networking opportunities planned.

***Hope you can “Meet me in St. Louis!”***



## 47th National Conference on Radiation Control

***Building on Momentum:  
Success of Partnerships in Radiation Protection*****47th National Conference  
Dates, Place & Reservations**

The 47th National Conference on Radiation Control will be held at the **St. Louis City Center Hotel and Suites, 400 South 14th Street, St. Louis, Missouri, May 18 – 21, 2015.** This year's theme is ***Building on Momentum: Success of Partnerships in Radiation Protection.***

**Lodging and Reservations**

The St. Louis City Center Hotel and Suites  
St. Louis, Missouri

Rates: ***single/double \$108 plus 15.29% sales tax***

Cut-off date for making hotel reservations: ***April 10, 2015***

A block of rooms has been reserved in the name of "CRCPD" at the St. Louis City Center Hotel and Suites.

Call: ***toll free at 855/537-4770***

Book on-line: <https://gc.synxis.com/rez.aspx?Hotel=63407&Chain=17225&group=GT2LQC1V>

If calling the hotel to make your reservations please indicate that you are part of the CRCPD. You may guarantee your reservation with either a credit card or one night's deposit. ***If you need to cancel your reservation, you must call and cancel within 24 hours of your arrival date or your deposit will be forfeited/credit card charged.***

NOTE: Guaranteed reservations are held for one night only – not for the entire stay.

## 47th National Conference on Radiation Control

*The Technical Program Planning Committee is to be commended for establishing an outstanding agenda.*

### 47th National Conference Sessions

The **Opening Session** will begin Monday morning, May 18th. During this session you will hear the **John C. Villforth Lecturer Series presented by Bruce Thomadsen, Ph.D.**, University of Wisconsin, Madison, and the current Chairman of the Nuclear Regulatory Commission's (NRC) Advisory Committee on the Medical Use of Isotopes (ACMUI). The **Keynote Address will be presented by the Honorable Chairman Burns (NRC)**.

#### Monday

Monday afternoon following the Opening Session, **Topical Training Sessions** will be held:

- **Web-based Licensing** – presented by U.S. Nuclear Regulatory Commission (NRC);
- **Waste Estimation Support Tool** – presented by the U.S. Environmental Protection Agency (EPA); and
- **What State Regulators Should Know About Proton Facilities** - presented by the American Association of Physicists in Medicine (AAPM).

#### Tuesday

Tuesday is **Healing Arts** day. You will hear presentations from:

- International Atomic Energy Agency (IAEA)
- Food and Drug Administration (FDA)
- American College of Radiology (ACR)
- American Society for Radiation Oncology (ASTRO)
- American Association of Physicists in Medicine (AAPM)
- CRCPD Working Groups

## 47th National Conference on Radiation Control

### Wednesday

Wednesday morning, **Training/Radioactive Materials Session** includes presentations from:

- the states;
- NRC; and
- CRCPD working groups.

## 47th National Conference Sessions

### Wednesday

Wednesday afternoon, **Radioactive Materials/Source Security Session** includes presentations on:

- Project Aim;
- Part 37; and
- Safety Culture.

### Thursday

Thursday morning, **Homeland Security/Emergency Response/Closing Session** includes presentations on:

- security scanners;
- Southern Exposure;
- Nuclear Radiological Incident Annex;
- radiological operations support for radiological and nuclear emergencies; and
- state incidents.

**Online registration is available at** <https://crcpd.portal.daxko.com>.

## 47th National Conference on Radiation Control

Sunday

### 47th National Conference Workshops & Events

#### *TENORM Workshop for Bridging the Regulatory Gaps in the Oil and Gas Industry – Sunday, May 17, 2015*

The **TENORM Workshop** is a one-day comprehensive discussion among representatives from federal, international, and state regulatory agencies, and the oil and gas industry, on the regulatory gaps in the regulation of **technologically enhanced naturally occurring radioactive material (TENORM)**. It will include presentations from the international, national, and industry perspective and on current state issues, as well as a roundtable discussion of the workshop findings and a recommended path forward to address the regulation of TENORM. **The program was planned by CRCPD's E-42 Task Force to review the TENORM aspects of the oil and gas industry.**

Sunday

#### *The Changing Face of Radiation Protection in Medical Use of Radioactive Materials and Machines that Produce Radiation – Sunday, May 17, 2015*

This training will provide information on how changing regulations, safety culture, and the requirement for accreditation of practice impacts or presents challenges to the licensees, regulators and healthcare in general. This training course is presented by the American Association of Physicists in Medicine (AAPM).



## 47th National Conference on Radiation Control

### *Special Interest Meetings*

The dates and times reserved for *Special Interest Meetings* are:

## 47th National Conference Workshops & Events

Tuesday, May 19, 5:00 p.m. – 6:00 p.m.

Wednesday, May 20, 8:00 a.m. – 9:00 a.m.

Thursday, May 21, 8:35 a.m. – 9:35 a.m.

### Tuesday, Wednesday & Thursday

To schedule a *Special Interest Meeting* prior to the conference or on-site, contact Sue Smith. *Special Interest Meetings* will be announced during the General Session and posted on the CRCPD message boards, and flyers will be placed outside the General Session meeting room.

### Wednesday

#### **Social Events**

The *CRCPD Chairperson's Reception* will be held on Monday evening, May 18th at the St. Louis City Center Hotel and Suites.

The *Night Out* will be aboard the Becky Thatcher Riverboat on Wednesday evening, May 20th.

***We hope you make plans to join us in St. Louis for the 47th National Conference on Radiation Control.***



## FGR - 14

Federal  
Guidance  
Report No.  
14: Radiation  
Protection  
Guidance for  
Diagnostic and  
Interventional  
X-Ray  
Procedures  
(FGR-14)

January 15, 2015

A multiyear,  
interagency  
effort to update  
federal x-ray  
guidance

## New Federal X-ray Guidance Published

By Mike Boyd, U.S. EPA; Sam Keith, U.S. DHHS, and Donald Miller, MD, U.S. FDA

On January 15, 2015, U.S. Environmental Protection Agency (EPA) Administrator Gina McCarthy signed ***Federal Guidance Report No. 14: Radiation Protection Guidance for Diagnostic and Interventional X-Ray Procedures (FGR-14)***, finalizing a multiyear, interagency effort to update federal x-ray guidance. While not binding on any agency or facility, incorporating the best practices defined in this guidance will improve the safety of diagnostic and interventional imaging.

The new federal x-ray guidance updates the 1976 guidance in *Federal Guidance Report No. 9 (FGR-9)*. Since 1976, two related trends in x-ray technology have emerged:

1. **Digital technology has largely replaced x-ray film.** With digital technology, overexposure does not degrade the image. This is different from film where an overexposure blackens the film, making the overexposure obvious as soon as the film is developed.
2. **The availability and use of interventional fluoroscopy and computed tomography (CT) scanning have increased rapidly.** Associated with this increase, there have been several reports of unnecessarily high radiation doses given to children because equipment exposure settings were not properly “dialed down” from adult settings.

**Trends and reports from the National Council on Radiation Protection and Measurements show a sharp increase in imaging studies resulting in a doubling of the average annual radiation dose to the U.S. population from diagnostic and interventional x-ray procedures over the past 20 years.** In response to these findings, the federal Interagency Steering Committee on Radiation Standards asked EPA to consider revising *FGR-9*. As a result, the Interagency Working Group on Medical Radiation was formed, which

## FGR - 14 Coverage

Includes facility  
guidance for:

radiography

CT

interventional  
fluoroscopy

bone densitometry

Covers a range of  
important matters:

radiation shielding

training and  
credentialing

providing options  
for practitioners  
who refer patients  
and order studies

managing  
informatics of  
patient records

## New Federal X-ray Guidance Published - *continued*

included medical and radiation protection professionals from the:

EPA;

Department of Health and Human Services;

Department of Veterans Affairs;

Department of Defense (Departments of the Army, Navy, and Air Force);

Occupational Safety and Health Administration; and

Commonwealth of Pennsylvania.

**The EPA's Federal Guidance authority allows the Agency to provide advice to federal agencies with respect to radiation matters that directly or indirectly affect public health.** While

most of the recommendations in *FGR-14* can be applied to any type of medical, dental or veterinary facility using radiological diagnostic and interventional imaging equipment, there are some considerations unique to certain federal facilities, such as military field hospitals.

FGR-14 includes facility guidance for each modality:

- radiography;
- CT;
- interventional fluoroscopy; and
- bone densitometry.

**The guidance covers a range of important matters, such as radiation shielding; training and credentialing; providing options for practitioners who refer patients and order studies; and managing informatics of patient records.** Some of the key aspects of the update include:

- Agencies should ensure that all radiation use in medical, dental, and veterinary imaging **is justified and optimized.**
- Agencies should **promote the development of national diagnostic reference levels** for use as quality assurance and quality improvement tools in each type of examination.

## FGR - 14

A reminder to all medical professionals who use radiological diagnostic and interventional imaging equipment to keep patient doses *as low as reasonably achievable* without compromising patient care

New Federal X-ray Guidance Published - *continued*

- Facilities should ensure that **sufficient staffing is maintained and trained to appropriately** address radiation safety issues.
- Facilities should **image only the area of anatomy in question, acquire only the necessary sequences, and select and adjust the protocol** to ensure that the patient is examined using the appropriate techniques and dose.
- Facilities should use the dose information from individual patient imaging procedures that is provided by imaging equipment as part of the **quality assurance program for identifying opportunities to reduce dose**.
- Facilities should **have adequate quality assurance and quality control programs** for each of their modalities.
- Facilities should ensure that advances in **techniques and technology that reduce radiation dose are used**, and used properly.
- Facilities should **establish infrastructure for collecting, storing, reporting, and analyzing dosimetry data** from patient examinations.

Private health care facilities may already be familiar with the recommendations in this document. **Many of the recommendations have been identified as best practices by international and U.S. radiation protection organizations and professional medical organizations.** This guidance should serve as a reminder to all medical professionals who use radiological diagnostic and interventional imaging equipment to keep patient doses as low as reasonably achievable without compromising patient care.

FGR-14 and supporting information are available at <http://www.epa.gov/radiation/federal/fgr-14.html>.



## REAC/TS Posts New Course Dates

**REAC/TS Courses**

The Radiation Emergency Assistance Center/ Training Center (REAC/TS) **course dates for FY2015** have been posted on the REAC/TS website.

**The on-line registration is now available.**

**Website:** <http://orise.orau.gov/reacts>

For further information, contact:

***Gail Mack-Bramlette***

***Course Registrar, REAC/TS***

[Gail.Mack@orau.org](mailto:Gail.Mack@orau.org)

***(865) 576-3132 - Telephone***

***(865) 576-9522 - Fax***



January & February

## CRCPD Welcomes New Members

### *Director Members*

Travis Cartoski (GA)  
 Geoffrey Korir (NY)  
 Jennifer Opila (CO)  
 Santiago Rodriguez (NM)

### *Associate Members*

Michelle Andershon-Moore (WA)	David O’Hehir (NY)
Megan Barrow (OH)	Amy Pegram (TN)
Nick Dorrell (CO)	Christopher Smith (WA)
Karen Hays (GA)	Bryony Stasney (WA)
Mursaleen Iqal (WA)	Mary Stiker (IN)
Trevor Jackson (TN)	Kaci Studer (IN)
Ramon Li (CO)	Chris Timmerman (TX)
Lisa Mechem (UT)	Erick Ziegler (OH)
Jayson Moak (MS)	

### *Affiliate Members*

Bradley Kraai (MI)  
 Leigh Ing (TX)  
 Katie Neal (GA)  
 Michael Perla (NJ)  
 Jean Staton (TX)  
 Brandy Toft (MN)  
 Kwame Ulmer (UT)



CRCPD Directory Available Now

2015 Directory

*2015 Directory  
of Personnel Responsible  
for  
Radiological Health Programs*

The 2015 directories have been mailed to the CRCPD members. If you want any extra copies, they can be ordered from the Office of the Executive Director for \$55.00 each. You may purchase the 2015 director hard copy or CD at the same price.

To purchase your copy please go to the our website at [www.crcpd.org](http://www.crcpd.org).



## CRCPD Board of Directors

<i>Board position</i>	<i>Name</i>	<i>State</i>	<i>Work Phone</i>	<i>E-mail address</i>
Chairperson.....	Michael J. Snee.....	Ohio.....	614/644-2727.....	michael.snee@odh.ohio.gov
Chairperson-Elect .....	William Irwin, Sc.D., CHP.....	Vermont.....	802/865-7730.....	William.irwin@state.vt.us
Past Chairperson .....	Joseph G. Klinger.....	Illinois.....	217/785-9868.....	joe.klinger@illinois.gov
Treasurer .....	Jared Thompson.....	Arkansas .....	501/661-2173.....	jared.thompson@arkansas.gov
Treasurer-Elect.....	Aaron Gantt.....	South Carolina.....	803/545-4420.....	ganttaa@dhec.sc.gov
Member-at-Large.....	Earl Fordham.....	Washington.....	509/946-0234.....	earl.fordham@doh.wa.gov
Member-at-Large.....	Lisa Bruedigan .....	Texas.....	512/834-6770.....	lisa.bruedigan@dshs.state.tx.us
Member-at-Large.....	Patrick Mulligan.....	New Jersey.....	609/984-7700.....	Patrick.mulligan@dep.nj.gov

## CRCPD Councils

<b>Environmental Nuclear Council</b>	<b>William Irwin, Sc.D., CHP (VT) 802/865-7730</b> <b>William.irwin@state.vt.us</b>
<b>General Council and Liaisons</b>	<b>J. Thompson (AR) 501/661-2173</b> <b>jared.thompson@arkansas.gov</b>
<b>Healing Arts Council</b>	<b>L. Bruedigan (TX) 512/834-6770, Ext. 2701</b> <b>lisa.bruedigan@dshs.state.tx.us</b>
<b>Homeland Security/Emergency Response Council</b>	<b>P. Mulligan (NJ) 609/984-7700</b> <b>Patrick.mulligan@dep.nj.gov</b>
<b>Suggested State Regulations Council</b>	<b>E. Fordham (WA) 509/946-0234 earl.fordham@doh.wa.gov</b>

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*The Newsbrief is written to address the needs of all radiation control program personnel. Readers are encouraged to contribute newsworthy or informative items for the Newsbrief, with neither charges nor stipends for the items that are selected. News of state radiation control programs is especially sought.*

*Articles should be sent to CRCPD, Attn: Sue Smith, 1030 Burlington Lane, Suite 4B, Frankfort, KY 40601 (fax: 502/227-7862; email: <ssmith@crcpd.org>). The deadline for contributions is the 15th of the month before an issue is to be published.*

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