47th Annual
National Conference on Radiation Control

Sponsored by
Conference of Radiation Control Program Directors, Inc.

With financial assistance provided by the following:

Center for Devices and Radiological Health
Food and Drug Administration
U.S. Department of Health and Human Services

Office of Radiation and Indoor Air
U.S. Environmental Protection Agency

Office of Nuclear Material Safety and Safeguards Programs
Division of Materials, Safety, States, Tribal, and Rulemaking Programs
U.S. Nuclear Regulatory Commission

For assistance with local arrangements, we wish to acknowledge:

Staff of the Missouri Radiation Control Program
# CRCPD Board of Directors/Liaison

## 2015 Board of Directors

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>State/Location</th>
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<tbody>
<tr>
<td>Mike Snee, Ohio</td>
<td>Chairperson</td>
<td>Ohio</td>
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<tr>
<td>William Irwin, CHP, Sc.D., Vermont</td>
<td>Chairperson-Elect</td>
<td>Vermont</td>
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<tr>
<td>Joe Klinger, Illinois</td>
<td>Past Chairperson</td>
<td>Illinois</td>
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<tr>
<td>Jared Thompson, Arkansas</td>
<td>Treasurer</td>
<td>Arkansas</td>
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<tr>
<td>Aaron Gantt, South Carolina</td>
<td>Treasurer-Elect</td>
<td>Washington</td>
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<td>Earl Fordham, CHP, Washington</td>
<td>Member-at-Large</td>
<td>Member-at-Large</td>
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<tr>
<td>Lisa Bruedigan, Texas</td>
<td>Member-at-Large</td>
<td>Member-at-Large</td>
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<tr>
<td>Patrick Mulligan, New Jersey</td>
<td>Member-at-Large</td>
<td>Texas</td>
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## Federal Liaisons to the Board of Directors

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<thead>
<tr>
<th>Name</th>
<th>Organization/Agency</th>
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<tbody>
<tr>
<td>Robert Whitcomb</td>
<td>Centers for Disease Control and Prevention Control, Radiation Studies Branch</td>
</tr>
<tr>
<td>Temeka Taplin</td>
<td>Department of Energy, National Nuclear Security Administration</td>
</tr>
<tr>
<td>Rick White</td>
<td>EPA, Office of Radiation and Indoor Air</td>
</tr>
<tr>
<td>Mary Pastel</td>
<td>FDA, Center for Devices and Radiological Health</td>
</tr>
<tr>
<td>Vanessa Quinn</td>
<td>Federal Emergency Management Agency</td>
</tr>
<tr>
<td>Josie Piccone</td>
<td>NRC, Office of Nuclear Material Safety and Safeguards, Division of Materials, Safety, States, Tribal, and Rulemaking Programs</td>
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## Organizational Representatives to the Board of Directors

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<th>Name</th>
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<tr>
<td>Michael Welling</td>
<td>Organization of Agreement States</td>
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<tr>
<td>Eugenia Krimer Brandt</td>
<td>American College of Radiology</td>
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<tr>
<td>Lynne Fairbent</td>
<td>American Association of Physicists in Medicine</td>
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<td>Melissa Martin</td>
<td>American Association of Physicists in Medicine</td>
</tr>
<tr>
<td>Cindy Tomlinson</td>
<td>American Society for Radiation Oncology</td>
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## Disclaimer

The opinions and statements of individuals, agencies, or corporations, presented in the form of papers, exhibits, or any other methods of expression at this conference are not necessarily endorsed by, nor the opinion of, the Conference of Radiation Control Program Directors, Inc. (CRCPD), and CRCPD has no responsibility or liability for the contents thereof.
Welcome from CRCPD Chairperson

On behalf of the Conference of Radiation Control Program Directors, Inc. (CRCPD), it is my pleasure to welcome you to the 47th Annual National Conference on Radiation Control.

The theme of this year’s meeting is Building on Momentum: Success of Partnerships in Radiation Protection. The Planning Committee developed this year’s program under the direction of Past Chair Joe Klinger (IL). The program touches on many areas of radiation protection including proton therapy, CT, cyclotron operations, disused radioactive sources, and radiological emergency operations. 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 AAPM, The Changing Face of Radiation Protection in Medical Use of Radioactive Materials and Machines that Produce Radiation. The second session, TENORM Workshop for Bridging the Regulatory Gaps in the Oil and Gas Industry, will be presented by the E-42 Task Force.

We are excited to continue to have a lineup of renowned presenters. Many of these presenters represent CRCPD Working Groups and Task Forces who will update us on the work that our members have done over the past year. We are honored this year to have the Keynote Address from NRC Chairman Stephen Burns and the John C. Villforth lecture by Bruce Thomadsen, Ph.D. from the University of Wisconsin.

Our appreciation goes out to our friends in the “Gateway to the West” for all of their work making this meeting a success, and to our host, John Langston, and the Missouri Radiation Control Program, who helped arrange what promises to be a memorable array of social events.

I must also say thank you to our Executive Director, Ruth McBurney, Sue Smith, our Executive Office Manager, and our dedicated staff from the Office of the Executive Director. Without their hard work this meeting and much of the work accomplished by the CRCPD would be next to impossible.

Remember, this is your meeting so take full advantage of the training and technical sessions, the vendor exhibits, and the posters. As always, the meeting will be a great opportunity to see old friends and meet new ones.

Mike Snee
CRCPD Chairperson
Awards

CRCPD AWARDS

Gerald S. Parker Award of Merit

Gerald S. Parker was one of the founding fathers of the Conference of Radiation Control Program Directors, Inc. (CRCPD), and many will say the chief founding father. He served as CRCPD’s first Secretary/Treasurer and continued in that position for over six years. During these embryonic years of the organization, it was basically a “one man operation” and that one man operation was Jerry Parker. He was responsible for managing the budget, planning the annual programs, running the committees, giving testimony to Congress, and on behalf of the CRCPD and the states, providing state input at a variety of forums during the development of the Federal Radiation Control for Health and Safety Act of 1968. Upon leaving his position as Secretary/Treasurer, he was immediately elected as Chairman of the CRCPD, and served on the Board of Directors for another three years. Because of Jerry’s enthusiastic dedication to assist these beginning state radiation control programs and his strong desire to have a national organization to represent these new programs in a unified manner, the CRCPD and the individual state radiation control programs have become a strong force in protecting the public from unnecessary radiation exposure. It is because of these attributes that CRCPD has established this most prestigious award in his name.

Recipients

1984 – E. Frank Wilson
1985 – James W. Miller, DDS
1986 – Thomas M. Gerusky
1987 – Albert J. Hazle
1988 – David K. Lacker
1989 – B. Jim Porter
1990 – John C. Villforth
1991 – Eddie S. Fuente
1992 – Heyward G. Shealy
1993 – Charles M. Hardin
1994 – Ruth E. McBurney
1995 – Aubrey V. Godwin
1996 – Mike Mobley
1997 – Diane Tefft
1998 – Ray D. Paris
1999 – Thomas E. Hill
2000 – Jill Lipoti, Ph.D.
2001 – Donald A. Flater
2002 – Steven C. Collins
2003 – Greta Joy Dicus
2004 – Roland G. Fletcher
2005 – Cynthia C. Cardwell
2006 – Paul J. Merges, Ph.D.
2007 – Edgar D. Bailey
2008 – Richard A. Ratliff
2009 – Russell S. Takata
2010 – Kathleen “Cass” Kaufman
2011 – Debbie B. Gilley
2012 – Thomas Cardwell
2013 – John P. Winston
2014 – Adela Salame-Alfie, Ph.D.
2015 – Julia A. Schmitt
Awards

Gerald S. Parker Award for Merit for 2015
Presented to Julia A. Schmitt

For her significant contributions in the field of radiation protection, and in particular to the mission and goals of the Conference of Radiation Control Program Directors.

Ms. Schmitt is a long-time member of CRCPD and served on the Board of Directors for four years as a Member-at-Large and several working groups, including serving as Chair of the Mammography Committee during the implementation of the Mammography Quality Standards Act.

Ms. Schmitt’s contributions to CRCPD are focused primarily in the areas of healing arts and source security, and include: Leading the development and ensuring the success of the first mammography training in conjunction with the U.S. Food & Drug Administration; and serving as CRCPD representative to the U.S. Nuclear Regulatory Commission’s Source Security Working Group, which developed the regulatory framework for increased controls, a unique groundbreaking effort that was the beginning of enhanced source security for the nation. As exemplified by her collective outstanding impact on the profession and her contributions to CRCPD, Julia Schmitt is hereby recognized as a true leader in the field of radiation protection.
Awards

James W. Miller Award

Dr. James W. Miller, who retired from the Food and Drug Administration after more than 30 years of service, was the leader among federal personnel who assisted in the establishment of CRCPD in 1968. Dr. Miller provided guidance and direction in the early developmental stages of the organization and, most importantly, assisted CRCPD in obtaining the federal government support needed to sustain the operation of the newly formed organization. He developed and coordinated the first meeting of CRCPD held in Montgomery, Alabama. For at least 20 years after the formation of CRCPD Dr. Miller was an invaluable federal resource person to the CRCPD Board of Directors. Many of the accomplishments of the organization can be traced to the wise direction provided by Dr. Miller. It is because of his significant impact on CRCPD that an award in his name has been established.

Dr. Miller was a strong supporter of radiation control programs nationwide and he worked very closely over the years with state and local officials in these programs. One of Dr. Miller’s best qualities was to encourage and nurture the career advancement of individuals in radiation control programs who were performing the routine day-to-day tasks. The James W. Miller Award was established to recognize these hardworking professionals.

Recipients

1994 – Kathleen Kaufman
1995 – Linda Plusquellic
1996 – G. Wayne Kerr
1997 – Cindy Cardwell
1998 – Bernie Bevill
1999 – Joe Klinger
2000 – Thomas Cardwell
2001 – David Walter
2002 – Jan Endahl
2003 – John Winston
2004 – Debra McBaugh

2005 – Mary Ann Spohrer
2006 – Cheryl K. Rogers
2007 – Cindy Becker
2008 – Jack Ferruolo
2009 – Frieda Fisher-Tyler
2010 – Patricia Gardner
2011 – Jennifer Elee
2012 – Patrick Mulligan
2013 – Isabelle Busenitz
2014 – Patrick Daniels
2015 – Shanna Farish
Awards

James W. Miller Award for 2015
Presented to Shanna Farish

Shanna Farish has made significant contributions to national efforts toward the optimization of diagnostic imaging and reduction of unnecessary radiation in the healing arts. Shanna has served the Conference of Radiation Control Program Directors as a member of the H-11 Committee on Mammography and the H-7 Committee on Quality Assurance in Diagnostic X-ray. She currently is Chairperson of the H-11 Committee on Mammography, successfully volunteering countless hours toward bettering the awareness of inspectors and technologists alike through training and education. Her dedication and willingness to work through challenges has earned the respect of CRCPD’s federal and professional society partners as well as her counterparts in state radiation control programs.

Shanna Farish’s determination and expertise as a leader in radiation protection have been exemplary. Her assistance to the State of Arizona and to all state radiation control programs is to be praised, and for her efforts and dedication to the mission and goals of CRCPD, she is recognized as this year’s recipient of the James W. Miller Award.
**Awards**

**Board of Directors Outstanding Achievement Award in the Field of Radiation Protection**  
**Presented to:**  
Shanna Farish (AZ, Chairperson)  
Beverly Jo Bodiford (AL, Member)  
Margaret Foster (MA, Former Member)  
Warren Freier (ND, Member)  
Joji Ortego (LA Co., CA, Member)

The H-11 Committee on Mammography is presented the Board of Directors Award for Outstanding Achievement for their extraordinary efforts in the area of Mammography Quality Standards Act (MQSA) continuing education. The Committee developed and held MQSA training in conjunction with the 46th National Conference on Radiation Control.

The development of these training courses required many months of planning, organization, and commitment. The Committee on Mammography’s continuing endeavors support the mission of CRCPD and the goals of its Strategic Plan by providing training opportunities for CRCPD members.

**Board of Directors Award for Meritorious Service**  
**Presented to:**  
Jennifer Elee (LA, Chairperson)

Jennifer Elee, Chairperson, H-38 Committee on Radiation Medical Events, has successfully volunteered countless hours toward bettering the awareness and quality in radiation protection, and has represented CRCPD on national panels to address the tracking and awareness of adverse medical events.

Jennifer is to be commended for her dedication and expertise as a leader in radiation protection. Her assistance to the state radiation control programs is to be praised.

**Board of Directors Award for Meritorious Service**  
**Presented to:**  
John Winston (PA, Chairperson)

John Winston is hereby duly recognized for his lengthy meritorious service in leading the working group on the Suggested State Regulation for the Control of Radiation, Part F: Medical Diagnostic and Intervventional X-ray and Imaging Systems. This group just recently completed its revision of this suggested state regulation. John’s dedicated and focused leadership was instrumental in the two year process required to bring this effort to the CRCPD Board of Directors and our federal partners for concurrence. He
organized many conference calls and several face-to-face meetings to bring this diverse group of stakeholders to an agreement on the many divisive issues. He maintained critical momentum during difficult working group discussions among the various parties with interest in this area.

John’s passionate leadership and cooperative comments and efforts has yielded an outstanding document. The document will benefit the citizens in the states choosing to adopt Part F.

**Board of Directors Award for Meritorious Service**

Presented to:
- Bradley Grinstead (AL, Member)
- Mary Ann Spohrer (IL, Member)
- Russell Takata (HI, Member)
- Herbert Mower (MA, Advisor)
- Laura Pring (NC, Former Advisor)
- Tracey Luty (CO, Advisor)
- Thalia Mills (FDA/CDRH Resource)
- Donald Miller (FDA/CDRH Resource)
- Kyle Jones (AAPM Resource)
- Melissa Martin (AAPM Resource)

(Individual name) is recognized for his long and meritorious service in revising the Suggested State Regulations for the Control of Radiation, Part F: Medical Diagnostic and Interventional X-ray and Imaging Systems. As an advisor of SR-F, he worked diligently, attending numerous conference calls and several face-to-face meetings over a two year period to complete the needed changes and delivering its updated version to the CRCPD Board of Directors. Through the diligent effort of the members, advisors, and resource persons, the Working Group was able to develop consensus on an extremely high quality document. The Working Group’s attention to detail and comprehensiveness resulted in federal concurrence very quickly.

The outstanding efforts, achievements and comments for further work by this working group will be a benefit to citizens in states choosing to adopt Part F.
John C. Villforth Lecture Series

On May 10, 2000, the CRCPD Board of Directors unanimously approved an ongoing guest lecture series in honor of Mr. John C. Villforth, former Director of the Food and Drug Administration’s Center for Devices and Radiological Health (FDA/CDRH). This annual lecture, which began at the 2001 annual meeting, is intended to honor Mr. Villforth’s steadfast support of state radiation control agencies as a working partner with the FDA/CDRH in the protection of the American people from unnecessary exposure to electronic product radiation, radioactive materials (especially radium), and protection of the environment from radioactive contamination. It also recognizes his strong support of the CRCPD in its early years of development. Mr. Villforth has long recognized the capacity of state radiation personnel to make valuable contributions to the success of national programs to protect the public health of our citizens. The CRCPD has the utmost respect, admiration, and appreciation for the unceasing friendship and support Mr. Villforth has extended to our organization and state radiation control programs over his many years of public service. By establishing this lecture series, the CRCPD is paying tribute to a man with impeccable integrity, a person with outstanding leadership credentials, and a giant in the field of radiological health.

**John C. Villforth Lecturers**

2001 – John C. Villforth
2002 – Joel O. Lubenauf, CHP
2003 – Robert M. Hallisey
2004 – Charles B. Meinhold
2005 – Keith J. Strauss
2006 – Jill Lipoti, Ph.D.
2007 – John R. Frazier, Ph.D.
2008 – Melissa Martin, M.S.
2009 – Richard J. Vetter, Ph.D.
2011 – J. Thomas Payne, Ph.D.
2012 – Katherine Uranek, M.D.
2013 – Priscilla Butler, M.S.
2014 – Michael T. Ryan, Ph.D.
2015 – Bruce Thomadsen, Ph.D.
Dr. Bruce Thomadsen, Ph.D. 2015 Villforth Lecture Series Speake
Opening Remarks and Welcome
- John Langston (MO)
- Dean Linneman, Deputy Director, Division of Regulation & Licensure, Missouri Department of Health & Senior Services

CRCPD Highlights
- Mike Snee (CRCPD Chairperson)

Keynote Address
Remarks of NRC Chairman Stephen G. Burns to the 47th Annual National Conference on Radiation Control
- NRC Chairman Stephen G. Burns (U.S. Nuclear Regulatory Commission)

John C. Villforth Lecturer Series
Regulatory Challenges of Evolving Concepts of Safety in Medical Applications of Radiation
- Bruce Thomadsen, Ph.D. (University of Wisconsin, Madison) [Abstract]

EPA – Progress Through Partnerships
- Michael Flynn (Director, Office of Radiation and Indoor Air, U.S. Environmental Protection Agency)

Update on FDA Activities
- Mary Pastel, Sc.D. (Deputy Director for Radiological Health, Office of In Vitro Diagnostics and Radiological Health (CDRH/FDA)

FEMA’s Update
- Andrew Mitchell (Federal Emergency Management Agency)
### Topical Training Session

**AAPM – What State Regulators Should Know About Proton Facilities**
- Lynne Fairobent (Coordinator)
- Mary Pastel (FDA)

This training addressed the different types of proton facilities, the shielding analysis performed prior to licensing and the safety surveys conducted prior to operation.

**EPA – Waste Estimation Support Tool**
- Paul Lemieux (Coordinator)
- Timothy Boe (Coordinator)
- Daniel Schultheisz (Coordinator)

Management of waste resulting from a radiological incident represents a significant challenge that is often not addressed in emergency response plans or exercises. The ongoing situation in Fukushima illustrates the difficulty in preparing a waste management strategy after an incident has occurred, and the legacy of waste management at Chernobyl demonstrates the dangers of crisis-driven decision-making. Participants in this training will receive an introduction to EPA’s Waste Estimation Support Tool (WEST), which utilizes plume modeling, GIS, satellite imagery, and databases of building stock to generate first-order estimates of waste volumes resulting from a radiological incident. Participants will work with several pre-defined scenarios to demonstrate the capabilities and different components of the tool, including the influence of selected decontamination strategies on waste volumes and characteristics. Discussion context includes US policy framework for managing incident-related waste (e.g., as presented in the 2013 Protective Action Guides Manual), strategic considerations for effective waste management, and the usefulness of tools such as WEST in planning and preparedness.

**NRC – Web Based Licensing Overview**
- Angela Randall (Coordinator)

As a key component of the Integrated Source Management Portfolio (ISMP), the Web-Based Licensing (WBL) system is a materials licensing system that supports the U.S. Nuclear Regulatory Commission (NRC) and Agreement States in managing the licensing information of businesses that use radioactive materials. Deployed on August 2012, WBL provides an up-to-date repository of all licenses nationwide, a web-based license system for NRC licensees, and an avenue for Agreement States to use the same licensing and information platform as the NRC. Designed to maintain information on materials licensees, WBL supports the entry of licensing information and license images that enables the
NRC and Agreement States to manage the licensing lifecycle from initial application through license issuance, amendment, reporting, and termination.

The training session will be an overview of the functionality of the WBL including:

- How to request access WBL
- How an Agency can configure WBL to their specific program
- How to use WBL to track license actions
- How to use WBL to track inspections
HEALING ARTS SESSION
Moderator: Lisa Bruedigan (CRCPD Member-at-Large)

Bonn Call for Action
- Ola Holmberg (IAEA) [Abstract]

Clinical and Technical Considerations in CT Screening for Lung Cancer
- David Gierada, M.D. (Washington University School of Medicine)

Low Dose CT Lung Screening Guidelines for Registration
- Lisa Bruedigan (TX, Chairperson, H-32 Committee on Computed Tomography)

Minnesota’s CT Self-Referral Screening Program Journey [Manuscript]
- Teresa Purrington (MN, Department of Health) [Abstract]

Screening Mammography: The Science, the Debate
- Susan Holley, M.D., Ph.D. (Washington University School of Medicine) [Abstract]

- Karen Farris (MA, Co-chair, H-4 Committee on NEXT)
- David Spelic, Ph.D. (FDA/CDRH)

Rock, Paper, Laptop and/or Tablet – A Survey of How Radiation Control Programs Manage the Collection and Evaluation of Inspection Outcomes [Abstract]
- Christopher Boyd (NYC, G-59 Chairperson, Task Force for the Use of Electronic Technologies During X-Ray Inspections)
HEALING ARTS SESSION  (Continued)
Moderator:  William Irwin, CHP, Sc.D.  (Chair-Elect)

Issues of Regulatory Concern for the AAPM and its Members
- Bruce H. Curran, MEng., FAAPM, FACMP (President, AAPM)

CRCPD’s Committee on Radiation Medical Events 2014 Summary
- Jennifer Elee (LA, Chairperson, H-38 Committee on Radiation Medical Events)

Analysis of CRCPD Medical Events Reports for 2014
- Kathleen M. Hintenlang, Ph.D. (Mayo Clinic)

RO-ILS: A Way to Learn from the Community and Improve Patient Safety
- Lakshmi Santanam, Ph.D. (Washington University School of Medicine)
- Cindy Tomlinson, MPP (American Society for Radiation Oncology)

DRH Updates
- Mary Pastel, Sc.D. (Deputy Director for Radiological Health, Office of In Vitro Diagnostics and Radiological Health (CDRH/FDA)

An NRC Licensee’s Experience with ViewRay
- Olga L. Green, Ph.D. (Washington University School of Medicine)

Patient Release Panel:
- Robert Dansereau (NY, Chairperson, H-43 Task Force on Consistency of Application of Release Criteria for Iodine Therapy)

Patient Release Projects
- Donna Beth Howe, Ph.D. (NRC)

Patient Release – Problem or Not?
- Bette W. Blankenship, MS (Sharp Memorial Hospital)

Management of Radionuclide Therapy Patients: A Systematic Approach to Patient Releasability and Post-Release Precautions
- Pat Zanzonico, Ph.D., DABR (Memorial Sloan-Kettering Cancer Center)
Tuesday, May 19

SPECIAL INTEREST MEETINGS

**Patient Release**
- Robert Dansereau (*Facilitator*)
- Donna Beth Howe (*Facilitator*)
- Pat Zanzonico (*Facilitator*)
- Bette W. Blankenship (*Facilitator*)

Recent concerns regarding iodine 131 patient release – are they perceived or real? How should we assess these concerns, coordinate efforts, engage stakeholders and implement change where needed?

**Machine Testing Evolving Issues**
- Mary Pastel (*Facilitator*)
- Scott Gonzalez (*Facilitator*)

This special interest session continues the discussion held at the 2014 CRCPD Annual Meeting regarding the trend of increasing reliance on voluntary consensus standards (e.g., published by the International Electrotechnical Commission). FDA discussed opportunities for states, medical physicists, FDA, and industry to ensure device safety through conformance to the most up to date performance standards. Topics included access to standards, development and maintenance of testing procedures, and the contents of device labeling.
Wednesday, May 20

SPECIAL INTEREST MEETINGS

NRC Revision of 10 CFR 20 – ANPR Issue Discussion
- Cindy Flannery (Facilitator)

The U.S. Nuclear Regulatory Commission published an Advance Notice of Proposed Rulemaking (ANPR) on issues for possible revision of the Standards for Protection Against Radiation, 10CFR Part 20, in July 25, 2014. The comment period has been extended twice, and now closes on June 22, 2015. The issues include updating methodology and terminology for dose assessment, the dose limit for the lens of the eye, the dose limit for the embryo/fetus of a declared occupational worker, addition to provisions for As Low As Reasonably Achievable, use of metric units, and reporting of occupational exposure. The NRC staff will provide a brief overview of the ANPR issues and questions, and then engage with attendees in a discussion on the issues, as a mechanism for further interacting with the States during the comment period.

The Rad/Nuc Toolbox for Rad/Nuc Emergency Response and Recovery
- William Irwin (Facilitator)

Members of HS/ER-4 will describe the Rad/Nuc Toolbox as it may be found on the CRCPD website, and how it can be a one-stop shop for all the help you need when an emergency strikes. Using three rad/nuc emergency scenarios (an improvised nuclear device, a radiological dispersal device and a transportation accident) the audience should see the value of the resources efficiently obtained using the toolbox.

Fueling the Future of Nuclear Medicine
- Sally W. Schwarz (Facilitator)
- Fred Fahey (Facilitator)

The supply of technetium-99m for the United States has been unstable for decades and with no stable United States supply, the future of nuclear medicine could be in jeopardy. This lecture will discuss the current status of HEU-235, LEU, non-HEU supplies of technetium-99m in regards to reactor statuses, availability and amount of LEU, and efforts within the United States to create its own stable supply.
Wednesday, May 20

TRAINING/RADIOACTIVE MATERIALS SESSION
Moderator: Earl Fordham, CHP (CRCPD Member-at-Large)

State Presentations:
- **Ohio – Too Much Fun, Part 2**
  - Mike Snee (OH)
- **Michigan - TENORM Issues**
  - Ken Yale (MI)
- **Mississippi – MS Radiation Response: Volunteer Corps JIT Training Development**
  - B.J. Smith (MS)
- **Arizona - Super Bowl XLIX**
  - Aubrey Godwin (AZ)

The Evolution of Workplace Training and Where It is Headed
- James Stokes (FL, Chairperson, G-55 Training Committee) [Abstract] [Manuscript]

NRC Training Transitions
- Henry Lynn (NRC)

A Case Study of a Non-Compliant Low-Level Radioactive Waste Licensee
- Kelly Horn (IL)

Financial Surety – The Next Generation
- Anine Grumbles (WA, Chairperson, Suggested State Regulations – Part S: Bonding and Surety)
RADIOACTIVE MATERIALS/SOURCE SECURITY SESSION
Moderator: Joe Klinger (CRCPD Past Chairperson)

NRC Project Aim 2020 – Positioning the Agency for the Future
- Cindy Pederson (NRC)

Source Security Panel
- Lessons Learned on the Implementation of Part 37
  - Adelaide Ginatelli (NRC)
- Enhancing Cradle-to-Grave Security of Radioactive Material in Eastern Europe
  - Earl Fordham, CHP (WA)
- Report on the CRCPD and Disused Source Working Group Survey of State Directors
  - Ray Fleming (TX, Chairperson, Disused Source Working Group)
- A Licensee’s Perspective
  - Susan M. Langhorst, Ph.D., CHP (Washington University, St. Louis)

ALARA Considerations for PET Cyclotron Engineers
- Frank Costello, CHP (PA)

Regulatory Considerations and Lessons Learned from the Decommissioning of a Nuclear Pharmacy Cyclotron
- Kim Anderson (OH)

U.S. NRC Safety Culture Policy Statement Outreach Effectiveness Survey
- David Solorio (NRC)
Thursday, May 21

SPECIAL INTEREST MEETINGS

Environmental Data Sharing During Radiological Emergencies: Progress Report and Forging into the Future
- Patrick Mulligan (Facilitator)
- Sara DeCair (Facilitator)

The E-43 Committee for Interagency Environmental Data Sharing and Communication has been actively working toward increasing the data sharing capabilities between radiation programs for routine environmental monitoring and for emergency events. The Committee is currently engaged in developing a pilot program for volunteer state and local agencies to test data sharing capabilities and assist in the development of additional pathways to share radiological data. The special interest session will focus on a discussion of the milestones achieved during the past year, the current status of the project, the path forward and the work that still needs to be accomplished to meet the goals of the committee.

TENORM Follow-up
- Jared Thompson (Facilitator)

Discussion on the recommendations from the E-42 Task Force Report - Review of TENORM in the Oil and Gas Industry and to solicit possible changes for the SSR Part N.
Security Scanners:
- **Regulation of X-ray Security Scanners in Michigan** [Abstract]
  - Donald E. Parry, CHP (MI)
- **Personnel Security Scanners Florida’s Path to Acceptance** [Manuscript]
  - Yvette Forrest (FL)
- **The Sheriff Is Always Right**
  - Mike Snee (OH)

**Southern Exposure**
- Patricia Gardner (DHS/FEMA)

**Nuclear Radiological Incident Annex**
- Luis Garcia (DHS/FEMA)

**Radiological Operations Support for Radiological and Nuclear Emergencies**
- William Irwin, CHP, Sc.D. (VT)

**The Incident That Wasn’t**
- Mike Snee (OH)

**Closing**
- Mike Snee (CRCPD Chairperson)
1. **10 CFR Part 61: Proposed Rule and Guidance**
   - Priya Yadav, Project Manager, U.S. Nuclear Regulatory Commission, Office of Nuclear Material Safety and Safeguards, Division of Decommissioning, Uranium Recovery, and Waste Programs, Mailstop T-8F8, Washington, DC 20555

2. **2015 NRC-Sponsored Training Courses**
   - Henry S. Lynn, Senior Health Physicist, U.S. Nuclear Regulatory Commission, OCHCO/Human Resources Training and Development, Technical Training Center, 5745 Marlin Road, Suite 200, Chattanooga, TN 37411

3. **Byproduct Material Financial Assurance (Sealed Sources)**
   - Donald Lowman, Project Manager, U.S. Nuclear Regulatory Commission, Two White Flint North, 11545 Rockville Pike, Rockville, MD 20852
   - Coauthor: Joan Olmstead

4. **Clarification on the Determinations of Regulatory Jurisdiction on Non-Federal Entities Conducting Cleanup Activities on Federal Property in Agreement States**
   - Stephen Poy, Program Manager, U.S. Nuclear Regulatory Commission, Two White Flint North, 11545 Rockville Pike, Rockville, MD 20852
   - Joan Olmstead, Attorney, U.S. Nuclear Regulatory Commission, Two White Flint North, 11545 Rockville Pike, Rockville, MD 20852

5. **Fundamental Health Physics Online Course Overview**
   - Henry S. Lynn, Senior Health Physicist, U.S. Nuclear Regulatory Commission, OCHCO/Human Resources Training and Development, Technical Training Center, 5745 Marlin Road, Suite 200, Chattanooga, TN 37411

6. **GMS-Domestic Radiological Security**
   - Maegon Barlow, Director, Office of Radiological Security, National Nuclear Security Administration, 1000 Independence Ave, SW, Washington, DC 20585

7. **Greater-Than-Class C (GTCC) Waste Disposal**
   - Gregory Suber, Chief, Low-Level Waste Branch, U.S. Nuclear Regulatory Commission, Office of Nuclear Material Safety and Safeguards, Division of Decommissioning, Uranium Recovery, Waste Programs, Mailstop T8-F8, Washington, DC 20555
## Posters

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<td>David J. Allard, CHP, Director, Pennsylvania Department of Environmental Protection, Bureau of Radiation Protection, Rachel Carson State Office Bldg., P.O. Box 8469, Harrisburg, PA 17105-8469</td>
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<td><strong>Introducing the New National Radon Action Plan</strong></td>
<td>Patrick Daniels, Chairperson, E-25 Committee on Radon, Illinois Emergency Management Agency, Radon Program Manager, 1035 Outer Park Drive, Springfield, IL 62704</td>
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<td><strong>NORM</strong></td>
<td>Ola Holmberg, Head, Radiation Protection of Patients Unit, International Atomic Energy Agency, 5 Vienna International Centre, P.O. Box 100, A 1400, Vienna, Austria</td>
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<td>Richard Chang, Project Manager, U.S. Nuclear Regulatory Commission, 11545 Rockville Pike, MS T8F5, Rockville, MD 20850</td>
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<td>Michelle Ryan, Project Manager, U.S. Nuclear Regulatory Commission, Region III, 2443 Warrentville Road, Suite 210, Lisle, IL 60532</td>
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<td><strong>On-Line and On-Demand</strong></td>
<td>James Stokes, Chairperson, G-55 Training Committee, Division of Emergency Preparedness and Community Support, Bureau of Radiation Control, 26605 S.W. 124 Court, Homestead, FL 33032</td>
</tr>
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<td><strong>Overview of IAEA Activities in Radiation Protection of Patients</strong></td>
<td>Ola Holmberg, Head, Radiation Protection of Patients Unit, International Atomic Energy Agency, 5 Vienna International Centre, P.O. Box 100, A 1400, Vienna, Austria</td>
</tr>
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16. **Radon**  
- Ola Holmberg, Head, Radiation Protection of Patients Unit, International Atomic Energy Agency, 5 Vienna International Centre, P.O. Box 100, A 1400, Vienna, Austria  
Authors: Tony Colgan, Unit Head, Radiation Protection Unit, Division of Radiation, Transport and Waste Safety

17. **Radon Risk Analysis: A Comparison of Self-Selected and Radon Testing Data**  
- Jorge Laguna, Florida Department of Health, Bureau of Epidemiology, 4052 Bald Cypress Way, Bin A12, Tallahassee, FL 32399-1720

18. **Targeting the Medical Community: The Health Professional’s Guide to Radon**  
- Susie Shimek, Program Analyst, U.S. Environmental Protection Agency, Indoor Environments Division, William Jefferson Clinton EPA West Building, Room 1212C, 1301 Constitution Avenue NW, Washington, DC 20004

19. **VARSKIN 5: A Software Package to Estimate Dose Resulting from Skin Contamination**  
- Mohammad Saba, Health Physicist, U.S. Nuclear Regulatory Commission, Office of Nuclear Regulatory Research, Division of Systems Analysis, Radiation Protection Branch, 11555 Rockville Pike, Mail Stop CSB-C03A7M, Rockville, MD 20852-2738

20. **What’s the Latest on the Revision to NUREG-0654/FEMA-REP-1 Emergency Preparedness Guidance?**  
- Robert E. Kahler, Branch Chief, U.S. Nuclear Regulatory Commission, NSIR/DPR/IRIB, Three White Flint North, 3WFM-09D16, 11601 Landsdown St., North Bethesda, MD 20852
American College of Radiology – Booth #24
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Website: www.acr.org
Presented by: Pamela Platt

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Shaemus Gleason

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Presented by: Dr. Richard Oswald
Tom Kraus

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Fax: (865) 220-8532
Website: www.bionomics-Inc.com
Presented by: John McCormick
Karen McCormick

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Centers for Disease Control and Prevention – Radiation Studies Branch – Booth #23
4700 Buford Hwy., MS-F-58
Atlanta, GA 30341
Phone: (770) 488-3753
Website: www.cdc.gov
Presented by: Alicia Randolph

The Centers for Disease Control and Prevention, Radiation Studies Branch, has developed two Radiation Emergency Tool Kits to assist state and local officials plan for and respond to radiation emergencies. These kits provide guidance and resources for pre and post event. For more information go to: http://emergency.cdc.gov/radiation or stop by booth #23 and find out how to order a free kit.

Conference of Radiation Control Program Directors, Inc. Booth #2
1030 Burlington Lane, Suite 4B
Frankfort, KY 40601
Phone: (502) 227-4543
Fax: (502) 227-7862
Website: www.crcpd.org
Presented by: Russ Meyer

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