



Conference of Radiation Control Program Directors, Inc.

NEWSBRIEF

www.crcpd.org

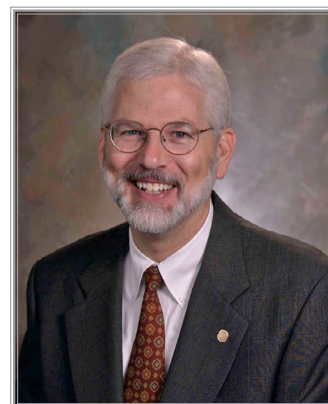
A Partnership Dedicated to Radiation Protection

October 2017

Message from Chairperson David Allard, CHP

A Time to Reflect

Early November is a good time to reflect on the important work we do every day, and to **thank all the highly skilled Radiation Protection Professionals we work with throughout the year.** I've always appreciated the CRCPD's effort to pass a resolution officially recognizing a week in early November as Radiation Protection Professionals Week (RPPW). On occasion, the Health Physics Society has joined us in promoting RPPW; we expect they will again, and this year the National Council on Radiation Protection (NCRP) has issued a similar resolution. Sue Smith recently emailed the CRCPD Resolution; if you haven't seen it, do contact ssmith@crcpd.org. Please take the time to send a message of appreciation to your colleagues.



National Radon Meeting

On the topic of appreciation, it was my honor to attend the National Radon Meeting in early October. **I was particularly pleased to be able to present the Radon Hero award to Clark Eldredge.** Clark has been involved with radon testing and mitigation in Florida for some 20

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Message from Chairperson *(continued)*

Radon Hero Award

“Clark Eldredge has been involved with radon testing and mitigation in Florida for some 20 years, and has tackled unique issues such as elevated radon levels in high-rise condos due to building materials.”

David Allard

National Radon Meeting - *continued*

years, and has tackled unique issues such as elevated radon levels in high-rise condos due to building materials. His many years of work with the Suggested State Regulations Part R Workgroup and E-25 Radon Committee clinched Clark's recognition. **Congrats to Clark for his many years of service and this award.** This was my first National Radon Meeting, and I found it very informative. There were numerous excellent presentations on the state and industry side of the meeting. I also found a walk-through of the vendor's booths to be very educational regarding products and measurement technologies. **If you or your staff members are involved with radon, I highly recommend attending the 2018 meeting.**

50th Anniversary CRCPD Meeting

Another meeting topic to keep in mind is that the planning has begun for a very special Annual Meeting. **It will be the 50th anniversary meeting of the CRCPD! Mark your calendar, for May 21-24, 2018 in Charleston, South Carolina, a wonderful venue with a history worth discovering.** If you have some research, investigation, white paper, guidance or regulatory topic you'd like to share, please send Sue Smith at ssmith@crcpd.org a title and several line abstract as soon as possible. The development of the meeting agenda will begin in early November.

NORM IX

As Ruth McBurney mentioned in this issue of the *Newsbrief*, we had an opportunity to meet with the U.S. Environmental Protection Agency (USEPA) and International Atomic Energy Agency (IAEA) regarding possibly hosting the NORM IX (naturally occurring radioactive materials) meeting here in the United States in fall 2019. The last NORM meeting was in Brazil (<http://normviii.ird.gov.br/>) and the IAEA publishes and hosts past meeting proceedings. See <http://www-ns.iaea.org/publications/norm-publications.asp>. **If you're interested in the topic of NORM, technologically enhanced naturally occurring radioactive material (TENORM) or Radon, stay tuned for more information.** This will be a lot of work for the meeting committees, but we're hoping to partner with other organizations for additional support.

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Message from Chairperson *(continued)*

ISCORS and IACRS

“These two organizations have similar roles at the national and international level to promote a consistent radiation protection framework and to coordinate on various policies and regulations.”

David Allard

ISCORS and IACRS

While we were in Washington for the meetings I’ve mentioned, **Ruth and I attended a special Interagency Steering Committee on Radiation Standards (ISCORS) and Inter-Agency Committee on Radiation Safety (IACRS) meeting at the Pan American Health Organization building.** These two organizations have similar roles at the national and international level to promote a consistent radiation protection framework and to coordinate on various policies and regulations.



The ISCORS - IACRS Meeting Attendees

Pan American Health Organization Building September 14, 2017

There were presentations by the ISCORS members [e.g., USEPA, U.S. Nuclear Regulatory Commission (USNRC), U.S. Department of Energy (USDOE), U.S. Department of Transportation (USDOT), U.S. Food and Drug Administration (USFDA), and U.S. Occupational Safety and Health Administration (OSHA)] and as one of two state observer members on the ISCORS, I provided an overview of how the states implement the vast majority of radiation protection requirements here in the U.S.A. Clearly, the work of having consistent regulations between agencies at the federal level continues to have its challenges. **Another point of discussion was, at the federal and state level, the numbers of expected radiation protection staff retirements continues to be of concern.** In a future *Newsbrief*, I hope to have more news on the G-55 Training Workgroup efforts to build a CRCPD web site for open source training webinars and materials.

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Message from Chairperson *(continued)*

Board Work Continues

“Your Board continues to work for consistent regulations and is working closely with our federal and organizational partners.”

David Allard

Continuing Board Work

Your Board continues to work for consistent regulations and is working closely with our federal and organizational partners. Our fall Board meeting will be in late October, and we'll begin our one-on-one agency/organization meetings at that time. The feedback on the Monthly X-ray Call continues to be very positive. **This is a great forum for important issues such as cone beam computed tomography (CBCT) phantoms and whole-body x-ray security scanners.** We continue to discuss the potential impact of the USFDA's use of International Electrotechnical Commission (IEC) Standards for performance standards with manufacture of new x-ray equipment. On the radioactive materials side, **we worked with the Organization of Agreement States (OAS) to provide USNRC with two nominations for an Agreement State representative for the Advisory Committee on the Medical Uses of Isotopes (ACMUI).** Keep an eye out for notifications from U.S. Federal Emergency Management Administration (FEMA), the Centers for Disease Control and Prevention (CDC) and Bill Irwin regarding Radiological Operations Support Specialist (ROSS) emergency response courses being offered in the coming months.

Lastly, I would encourage everyone to get actively involved with CRCPD's many committees and workgroups. They can be professionally rewarding and often fun!

And, mark your calendar for a very special CRCPD 50th anniversary meeting next May!

Dave



Greetings from Your Executive Director



Ruth E. McBurney, CHP

Roles

“One of the priority strategies from CRCPD’s strategic plan is to ‘Assume a leadership role on radiation protection and public policy issues.’”

Ruth E. McBurney

Leadership in Radiation Protection and Public Policy

One of the priority strategies from CRCPD’s strategic plan is to “Assume a leadership role on radiation protection and public policy issues.” The CRCPD Board of Directors and others have been very focused recently on broadening CRCPD’s role and expanding awareness and collaboration in several areas.

Radon

The 27th National Radon Training Conference was held earlier this month in New Orleans, Louisiana. In addition to the great line-up of presentations, the E-25 Committee on Radon provided a Building Technical Capacity Workshop. **As part of our Practical Arrangement with the International Atomic Energy Agency (IAEA), Dr. Tony Colgan from IAEA made a presentation at the conference and met with our Chairperson Dave Allard and me to discuss radon issues that the two organizations could work on together.** More about the conference is found in this edition of the *Newsbrief*.

In addition, one of our state radon contacts, Richelle Tolton (South Carolina), has been selected for a one-year consultancy on radon issues at IAEA in Vienna. This is exciting to have continuing international collaboration in this area.

NORM

CRCPD has been asked by IAEA to host the 9th International Symposium on Naturally Occurring Radioactive Material (NORM) in the fall of 2019. **The NORM Symposium has never been held in the United States, so this will be a great opportunity for state and federal regulators, researchers and those in NORM industries to meet with others from across the globe and exchange experiences.** Since the international definition of NORM covers not only the material that the states consider technologically enhanced naturally occurring radioactive materials (TENORM), but also uranium and uranium tailings, as well as radon, the symposium will cover a broad range of issues. This will take a lot of work and collaboration with other sponsors and organizational support, but it should be well worth it for CRCPD.

Executive Director

Greetings *(continued)*

Next Annual Meeting

“ We are planning some exciting activities for our 50th Meeting in Charleston May 20-24, 2018, so save the date for this conference and training. ”

Ruth E. McBurney

Leadership in Radiation Protection and Public Policy

Radiation Protection Professionals Week

CRCPD is once again celebrating Radiation Protection Professionals Week during November 5-11, 2017. In addition to the resolution passed by the Board, as described in this issue of the *Newsbrief*, this year the National Council on Radiation Protection (NCRP) also adopted a resolution recognizing professionals in radiation protection. The momentum is growing for this annual event. **I hope that you will also take some time that week to thank the professionals in your workgroup for all that they do to keep the uses of radiation in this country safe.**

Sharing of Information with Federal Partners

As in the past few years, the Board Chairperson, Chair-Elect and Past Chair, and I will be visiting several of our federal partners and other organizations in the Washington, DC area, both next week after the fall Board meeting, and in early December, to discuss areas of concern to both groups and to build on the relationships we have established over the years.

Speaking of “over the years”, it is hard to believe that CRCPD has been an organization for nearly 50 years. We are planning some exciting activities for our 50th Meeting in Charleston May 21-24, 2018 so save the date for this conference and training.

I hope this season is productive and exciting—thank you for all you do!



CLARK ELDREDGE 2017 RADON HERO



Dave Allard and Clark Eldredge

Clark Eldredge is recognized for his leadership and dedication to increasing radon awareness, radon testing and mitigation rates in the state of Florida for over 20 years. Clark has worked on various programs and initiatives during his tenure including a study on elevated radon levels on the

20th floor of a condominium. Clark has served as a member of the E-25 Committee on Radon and the Suggested States Regulations – Part R: Radon for many years. His invaluable guidance and incomparable expertise helped shape the Florida radon program and that has contributed extensively to radon activities at the state, regional and national level. He is an expert in risk communications by naturally engaging and motivating individuals on the importance of testing for the number one environmental carcinogen. As a science-driven leader, his unwavering commitment is demonstrated by his years of sustained exemplary leadership.

For his accomplishments in radon research, radon risk reduction, his consistently helpful and supportive guidance for the state radon program and radon industry, and leadership and mentorship to his staff, Clark Eldredge is recognized as our 2017 Radon Hero.

27th National Radon Training Conference

NATIONAL RADON TRAINING CONFERENCE

The 27th National Radon Training Conference was held October 1-4, 2017 in New Orleans, Louisiana, at the Hilton Riverside. Three full days of plenary sessions and an additional (optional) day of hands-on training entitled "Building Technical Capacity Training: Radon Measurement Devices" were presented. The first day of the meeting was a joint meeting with the American Association of Radon Scientists and Technologists (AARST). AARST assisted with the planning of the first day joint meeting.

There were 93 registrants for the three-day conference, with attendees from 38 states, tribal nations, international, U.S. Environmental Protection Agency (USEPA), and partners from both USEPA and coalitions.

Critique sheets from the 27th National Radon Training Conference are being analyzed and will be used in planning the 28th National Radon Training Conference.

The Committee on Radon (E-25) is to be commended for their efforts of putting together another outstanding conference.



Call for Papers for the 28th National Radon Training Conference

CALL FOR PAPERS RADON CONFERENCE

You are invited to present a paper at the 28th National Radon Training Conference that will be held at the Hyatt Regency Lexington, Kentucky, September 9 – 12, 2018.

*Presentations are generally 15 minutes in length. Once a paper is accepted, CRCPD will provide presenters with guidelines for the presentation to assure their readability from the back of the room. If you are interested in presenting a paper, please submit a brief four or five sentence abstract to Sue Smith at ssmith@crcpd.org at the Office of Executive Director **no later than December 1, 2017** for consideration by the E-25 Committee on Radon. The E-25 Committee will be meeting in December 2017 to begin planning the 28th National Radon Training Conference.*

Acceptance of a submitted paper does not imply that CRCPD will pay the travel expenses of the speaker to give the paper.



Radiation Hazard Scale Workshop Held in New Jersey

by Jenny Goodman (NJ) and Nancy Stanley (NJ)

How many of you have ever found yourselves at the joint information center at a nuclear power plant exercise and struggled to tell the press what a millirem means and why you think evacuating through a plume is the best thing to do? Or what about a real event, like Fukushima, when misinformation is all over the internet and you are trying to explain that there is no health risk to the citizens of your state from an event half-way around the world. Throw in the use of SI units with the media trying to explain what they mean, and you have a public relations nightmare.

And since the Doomsday Clock was moved forward 30 seconds this year, radiation professionals are once again thinking about the messages that must be conveyed to the public in a very, very short period of time, should anything bad happen.

While the U.S. Environmental Protection Agency (USEPA) handy book *Communicating Radiation Risks: Crisis Communications for Emergency Responders* (EPA-402-F-07-008) is an excellent resource, there seems to be something missing. Something that would distill all this information we have on health effects and cancer risk and make it easy for the public to understand without even mentioning those pesky millirems, sieverts, grays, or becquerels.

Enter the Centers for Disease Control and Prevention (CDC). If you haven't seen it already, the Radiation Hazard Scale (Figure 1) seems to be the answer to our dilemma. But is it really going to be able to be used in an actual emergency? How would emergency response professionals (health physicists, public information officers, public health officers, emergency managers, etc.) use it along with

other products from the Federal Radiological Monitoring and Assessment Center (FRMAC)?

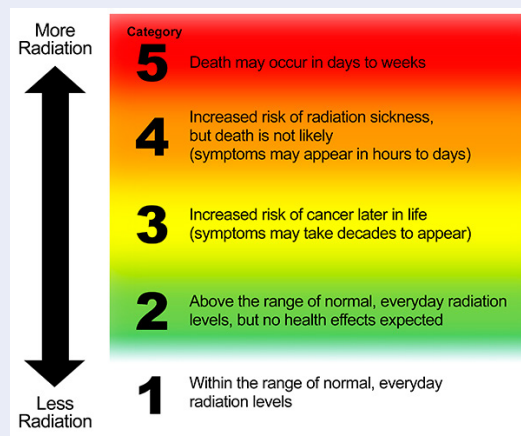


Figure 1. Radiation Hazard Scale
<https://emergency.cdc.gov/radiation/radiationhazardscale.asp>

The Radiation Hazard Scale is structured to mimic other scales that we all know – the Fujita Scale (tornados), the Saffir-Simpson Scale (hurricanes), etc. We all know a Category 5 hurricane or tornado is a bad thing. These scales work. Being able to remove the mystery surrounding esoteric units and terms that radiation protection professionals use allows us to better communicate risk to the public during an emergency, in a manner that the public already understands.

Having a consistent message across agencies is a key concern during any emergency, but arguably more so when it is a nuclear emergency. Getting the right mix of government responders together to shape and test that message before an accident or incident occurs is a critical step that states should consider taking.

Radiation Hazard Scale Workshop Held in New Jersey - *continued*

That was one of the purposes of a workshop that was held in Sayreville, New Jersey on September 7th of this year (Figure 2). Adela Salame-Alfie of the CDC contacted the Bureau of Environmental Radiation to see if New Jersey would be interested in hosting the workshop. It didn't take long to find a place and get a group of emergency managers, health physicists, public information officers, disaster crisis counselors, and public health officers together to participate. The group of presenters included Adela Salame-Alfie and Armin Ansari of the CDC; Jessica Weider of the USEPA Center for Radiation Information and Outreach; and Brooke Buddemeier, Maureen Alai, and Amanda Askin, of the Lawrence Livermore National Laboratory (LLNL).

The presenters prepared LLNL data products which integrated the Radiation Hazard Scale for three specific scenarios:

- a radiological dispersal device (RDD);
- an improvised nuclear device (IND); and
- a nuclear power plant (NPP) accident.

Workshop participants were divided into groups and, using the data products, asked to come up with three key messages for each scenario for a specified audience (the press, elected officials, or emergency responders).

During the workshop, participants were asked for feedback on the products and their usefulness for the audiences selected. New Jersey participants were not shy about providing this feedback! But this is exactly what the CDC, U.S. Department of Energy (USDOE) and USEPA wanted to hear. How could the scale be used effectively and how could they improve the data products that they drafted for this workshop?

Overall it was a very successful workshop for both the participants, who can go back to their respective agencies and think about their messaging while incorporating the Radiation Hazard Scale, and the presenters, who will use the feedback to improve and build upon these products. The CDC plans on holding additional workshops throughout the country. If you are contacted about hosting a workshop, it is a very worthwhile endeavor.



**Figure 2. Workshop at the
Middlesex County Fire Academy**

For more information, contact:

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Radiation Protection Professionals Recognized

RADIATION PROTECTION PROFESSIONALS WEEK

The Conference of Radiation Control Program Directors, Inc. (CRCPD) today announced the celebration of **National Radiation Protection Professionals Week November 5 - 11, 2017.**

The weeklong event to honor radiation protection professionals is set in November to celebrate the discovery of x-rays by Wilhelm Conrad Roentgen on November 8, 1895.

Radiation protection professionals provide leadership in protecting the public from the hazards of radiation. **These dedicated individuals work diligently to ensure that radiation and radioactive materials are used safely and beneficially in thousands of different ways.**

According to David Allard, Chairperson of the CRCPD Board of Directors, "Radiation protection professionals are a vital safety net; they help to make sure that medical, industrial, government and academic uses of radiation are safe, and that our homes, environment and country are safe and secure. Their selfless professionalism ensures that people are able to safely enjoy the tremendous benefits of the uses of radiation in our highly technical society."

CRCPD is approaching its 50th year as a nonprofit organization that has members in radiation control programs in all the states, the District of Columbia, and U.S. territories, as well as internationally. **The mission of CRCPD is to promote consistency in addressing and resolving radiation control issues, to encourage high standards of quality in radiation protection programs, and to provide leadership in radiation safety and education.** More information on radiation can be found at www.CRCPD.org





CONFERENCE OF RADIATION CONTROL PROGRAM DIRECTORS, INC.

RESOLUTION

Relating to: National Radiation Protection Professionals Week

- WHEREAS:** Wilhelm Conrad Roentgen discovered X rays on November 8, 1895; and
- WHEREAS:** Soon after, natural radioactivity was discovered in March of 1896 by Henri Becquerel, and
- WHEREAS:** Radioactive Materials and Radiation are a useful and necessary part of our modern world; and
- WHEREAS:** Radiation exposure is potentially harmful to people; and
- WHEREAS:** Man-made and concentrated natural radioactivity can cause environmental contamination; and
- WHEREAS:** Protection of the homeland involves radiation safety, security and response capabilities; and
- WHEREAS:** Radiation Protection Professionals work with government, industry, medical, educational, and private entities to serves as sources of information and bring the benefits of X rays, radiation and radioactivity to the public while minimizing the hazards of radiation exposure; and
- WHEREAS:** Radiation Protection Professionals provide scientific expertise, training, support, coordination and information to national and international communities regarding prevention of, responses to, and recovery from radiation accidents; and
- WHEREAS:** The Conference of Radiation Control Program Directors, Inc. supports efforts to encourage all citizens to recognize the importance of Radiation Protection Professionals who provide necessary leadership in protecting the public from the hazards associated with radiation.

NOW BE IT RESOLVED:

That November 5 - 11, 2017 is National Radiation Protection Professionals Week.

That the weeklong observance is dedicated to recognizing Radiation Protection Professionals for their contributions to public safety.

On behalf of the members of the Conference of Radiation Control Directors, Inc., I am pleased to recognize November 5- 11, 2017 as National Radiation Protection Professionals Week.

David J. Allard, CHP

Approved by the CRCPD Board of Directors October 17, 2017.



Call for Papers: Joint Conference on Applicability of Radiation Response Models to Low Dose Protection Standards



The American Nuclear Society and Health Physics Society are co-sponsoring a scientific conference on “Radiation Response Models to Low Dose Protection Standards,” September 30 October 3, 2018 in Pasco, Washington. The program will address:

- Scientific foundations for radiation protection standards and emergency action guidelines
- Molecular basis of radiation response at low dose
- Applicability of linear no-threshold dose-response models
- Public perceptions of radiation risk
- Implementation of radiation protection regulations
- Opportunities for beneficial changes to radiation protection regulations

The Technical Program Committee is preparing the program and is looking for interest from participants who would like to speak at the conference. All conference speakers must submit a title and abstract to the conference website <http://www.lowdoserad.org> by December 1, 2017. The website provides complete instructions for preparing and submitting abstracts.

For additional information contact Alan Waltar, conference chair, at alan.waltar@gmail.com, or Darrell Fisher, technical program co-chair, at darrell.fisher@versantphysics.com.



AAPM Virtual Library

AAPM Training Program/ CRCPD Annual Meeting VIRTUAL LIBRARY PRESENTATIONS



Presentations posted in the Virtual Library include:

- **AAPM Training at CRCPD - Digital Radiography & Cone Beam CT** | Scottsdale, AZ - 2017
- **AAPM Training at CRCPD - CT: A Refresher**
Lexington, KY - 2016
- **AAPM Training at CRCPD - The Changing Face of Radiation Protection in Medical Use of Radioactive Materials and Machines that Produce Radiation**
St. Louis, MO - 2015
- **AAPM Training at CRCPD - Real Time Imaging in a Real Time World Fluoroscopy** | Atlanta, GA 2014
- **AAPM Training at CRCPD - Radiation Therapy Inspector Training/Safety Culture in the Clinical Environment**
Portland, OR 2013
- **AAPM Training at CRCPD - Radiation Therapy Inspector Training/Update on New Technology**
Orlando, FL 2012
- **AAPM Training at CRCPD - Brachytherapy**
Newport, RI 2010
- **AAPM Training QA/QC for CR/DR Systems for Medical Imaging and Overview of Proton Therapy: Technical and Clinical Perspective** | Columbus, OH 2009
- **Radiation Dose and Quality Control for SPECT/CT and PET/CT Clinical Studies** | Greensboro, NC 2008
- **Dose Management in CR, DR and other imaging modalities; Adult and Pediatric Considerations and Topical Training Session** | Spokane, WA - 2007
- **Model Quality Assurances (QA)/Quality Controls (QC) for Medical Modalities** | Detroit, MI
- **Current Topics in Clinical Radiation Protection**
Kansas City, MO



www.aapm.org/education/VL/



Call for News

Call for News

Would you like to share some information about your work, or some project or issue that you're involved in?

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.

We welcome your news and photographs, too, if you'd like to share.



CRCPD Welcomes New Members

New Members October

ASSOCIATE MEMBERS

Daniel Erickson (TN)

Colin Shumake (TN)

Jana West (TN)

EMERITUS MEMBERS

Jerry Hensley (KY)

Directory Changes

Directory Changes October

Page 22 - DE - remove LaDon Terry Graham and insert Vacant.

Page 40 - LA - remove Bryan Riche and insert Vacant.

Page 41 - ME - remove Steve Sprengel and insert Vacant.

Page 81 - PA - remove Carl Livermore and insert Vacant.

Page 102 - VA - remove Kristi White and insert Vacant; and remove Douglas Carver and insert Vacant.



CRCPD Board of Directors

<i>Board position</i>	<i>Name</i>	<i>State</i>	<i>Work Phone</i>	<i>E-mail address</i>
Chairperson.....	David Allard, CHP.....	Pennsylvania.....	717/787-2480.....	djallard@pa.gov
Chairperson-Elect	Karen Beckley, MPA, MS.....	Nevada	775/687-7540.....	kbeckley@health.nv.gov
Past Chairperson	Jared Thompson.....	Arkansas.....	501/661-2173.....	jared.thompson@arkansas.gov
Treasurer	Cindy Becker.....	Florida.....	850/245-4266.....	cindy.becker@flhealth.gov
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Member-at-Large.....	Jennifer Elee.....	Louisiana	318/362-5367.....	jennifer.elee@la.gov
Member-at-Large.....	Jeff Day.....	LA Co./CA.....	213/351-7387.....	jsday@ph.lacounty.gov

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General Council and Liaisons	Cindy Becker 850/245-4266 cindy.becker@flhealth.gov
Healing Arts Council	Jennifer Elee (LA) 318-362-5367 jennifer.elee@la.gov
Homeland Security/Emergency Response Council	Jeff Day (LA Co./CA) 213/351-7387 jsday@ph.lacounty.gov
Suggested State Regulations Council	Angela Leek (IA) 515/281-3478 angela.leek@idph.iowa.gov

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., 1030 Burlington Lane, Suite 4B, Frankfort, KY 40601. Telephone: 502/227-4543; fax: 502/227-7862; Web site: <www.crcpd.org>.

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.

The opinions and statements by contributors to this publication, or attachments hereto, are not necessarily the opinions or positions of CRCPD. The mention of commercial firms, services, or products in the Newsbrief is not to be construed as either an actual or implied endorsement of such firms, services, or products by CRCPD.

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