



Conference of Radiation Control Program Directors, Inc.

NEWS BRIEF

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A Partnership Dedicated to Radiation Protection

April 2006

Message from Debra McBaugh, Chair

Goals, Goals, and Goodbye from your Chair



This is my last message as your Chair. When next you see a newsletter, I will be your Past-Chair, Pearce O'Kelley will be in the hot seat and his smiling face will be on this page. Pearce has already put in many hours as Chair-Elect and I am confident he will do well by all of you in

the coming year. In this my last message, I have three things I want to cover. The first is to briefly review the two goals I had set for myself at the beginning.

In my first message I set the goal of "continuing and strengthening our close partnership with the Organization of Agreement States." With all the major regulatory events in the past year, this goal was easy to meet and vitally important. The signing of the Energy Policy Act giving NRC authority over some NARM, increased controls for radioactive material, the

national source tracking system, and continuing work on the National Materials Program (NMP) kept OAS and CRCPD working together closely and often.

One of the most recent joint activities was a meeting between NRC, CRCPD, and OAS regarding Pilot Project 2 (PP2). Pilot Project 2 is one of five pilot projects being worked on by CRCPD, OAS, and NRC under the NMP. CRCPD has lead responsibility for PP2 and the G-34 Committee on Industrial Radiography (chaired by Jan Endahl-TX) has been working on it for several years. The objectives are to develop a process and criteria for reviewing requests by states or organizations seeking recognition as certifying entities for radiography training. The work during the last several months has been conducted by 1-hour conference calls. Recently it became clear that there were more issues than could be worked on in that way. Janet Schlueter - NRC State and Tribal Programs, invited Barbara Hamrick (Chair of OAS) and me to meet with her, two of her staff and two attorneys from the Office of the General Counsel. The goal of the meeting was to outline any impediments to the process from state, CRCPD, and NRC perspectives and find a way to meet everyone's needs. The meeting was long, but very fruitful, and I hope we have a process that will meet our goals. The final draft proposal will be going to G-34 shortly for their review. We will report on the outcome hopefully in the next *Newsbrief*.

The second goal I chose was "to expand and make use of CRCPD's speakers bureau." This was especially directed at using the speakers bureau to present information on responding to a radiological terrorist event such as a Radiological Dispersal Device (RDD). The first CRCPD handbook dealing with this, entitled "Handbook for Response to Incidents Involving Radiological Dispersal Devices (RDD)," has just been drafted by the HS-5 Task Force (chaired by Adela Salame-Alfie, Ph.D.-NY). It is now in review and will be published soon. I am hoping to begin work on this goal in my role as Past-Chair.

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The second thing I want to mention is the excellent work done by our new Executive Director, Thom Kerr. He has been here only 14 months and in that time has been thoroughly baptized by fire, worked diligently to increase our visibility by meeting with federal agencies and professional organizations to describe the good work CRCPD Working Groups can do for them and, through these efforts, succeeded in bringing us more funding to continue that good work.

One of Thom's current efforts is exploring the possibility of purchasing a building for CRCPD's Executive Office. There are several advantages to doing this, the most notable being something we all recognize, changing from paying rent to building equity. Since we recognize rent will increase in the future and the building could be sold, looking for a permanent location that we own is something we should consider. The Board asked Thom to gather

more information on building locations and costs. This information will be presented at one of the Business Meetings at the National Conference in Detroit. So come prepared to learn more about how we could convert members' equity from liquid (checking, savings, certificates of deposit, etc.) to hard assets (real estate and building) with no loss in current value.

The third thing I want to say is what a valuable and satisfying year it has been being your chair. I am sure I have disappointed some, not responded when expected, misspoken at times, but, always, I wanted to meet your needs and represent this great organization and members to the very best of my ability. I have learned so much along the way and am very glad I will still be involved for one more year doing all I can as a member of the Board and as your Past-Chair.

* * * * * Think Thoroughly, Speak Thoughtfully, Decide Slowly * * * * *
(even in an emergency, taking that extra 10 seconds can make a difference)



Athomic Interactions #7: "Steel Blue"



Hello, all!

I am blue. I have been having a hard time finding appropriately sized Pittsburgh Steelers t-shirts for Debra McBaugh and I to settle our (ahem) wager with John P. Winston on the outcome of Super Bowl XL. I can find one in my size (XL petite, of course), but I am not sure

Debra will be pleased with the 2XL that I am looking at for her. Apparently, no one that wears smaller sizes wants a Steelers shirt (go figure)—they do not seem to be made anywhere. One more reason to anticipate the Night Out at the 38th National Conference on Radiation Control!

"Skin that'n, Pilgrim, an' I'll get ye another!"

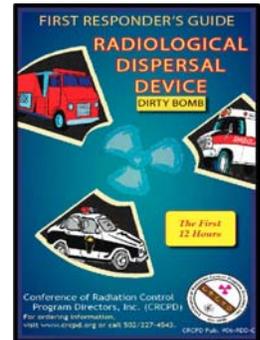
In keeping with my established tradition, I would like to share with you information on the "live grizzlies" that I am trying to skin right now or in the near future. Things are fast and furious with the upcoming National Conference and all of its attendant training courses, special interest meetings, committee meetings, and Board of Directors meetings as well as a tremendous number of financial and progress reports for all of our Federal agreements (not to mention the annual audit, tax reports, and routine business things). This is the first National Conference with which I have been involved for the entire production cycle and, frankly, I am stunned by the amount of support work that it takes. The

Technical Planning Committee and your CRCPD staff have really stepped up to the plate on this one.

In the good news department, we have also been invited to submit a final proposal to EPA for radon-related work for the next three years. All of these things are due BEFORE the National Conference, of course, so if we sound a bit hurried and harried—well, we are!

Other great news is that the new pocket guides for first responders in Radiological Dispersal Device (RDD) events are now available! Many thanks are

due to the HS-5 Task Force, advisors, and resource persons for their hard work and expertise in developing this excellent guide. For ordering, please visit: <http://www.crcpd.org/RDDGuide.htm> or call (502) 227-4543 extension 2225. They are going like hotcakes. Whew—what a lot of counting and mailing!



“...an’ another big’un!”

This one is not a grizzly at all, but rather, a joy to relate. Last time I told you that we were in the final stages of hiring a replacement for Denese Southgate in the Business and Financial Office. I am pleased to welcome Allison Fields onboard! Allison is enthusiastic and willing to help wield a very

big load of work in the office. She is a real asset to the organization and I am sure will continue to grow in her abilities. She has already shown a remarkable ability to see through my gruffness to my more



subtle inner beauty (she would probably not use those same words, however). I think she figured out on Day 1 that my bark was worse than my bite. I hope you will all be able to work with her personally over the coming years—I know that she will enjoy getting to know you as I have.

“...an’ another big’un!”

Last time I also told you that we were in the final stages of negotiations for at least two large new projects. One of them is the special training session that will take place in Detroit in conjunction with the 38th National Conference on Radiation Control on the morning of Sunday, May 7. The Department of Energy/National Nuclear Security Administration (DOE/NNSA) is sponsoring the Physical Security Assessment and Training from 8 a.m. to noon. It looks like a good one to check out. Under their sponsorship, about half of our Director Members are asked to attend this training at the National Conference in May and the other half will be invited to attend a similar training course in association with the 16th National Radon Conference in Kansas City, Missouri in September. I know “training” and “fun” are not usually used in the same sentence, but this really looks like fun training.

We are still working on the second large project so continue to stay tuned on that one—there should be more on it at the National Conference.

Lastly, I want to add my welcome to your two new incoming Board members that will be seated at the end of the National Conference on May 10: Debbie Gilley (FL), Chair-Elect, and Jim McNees (AL), Member-at-Large. I thank the terrific slate of candidates, which included Dan Hill (WV) and Cheryl Rogers (WI). Hard fought races are always a great testimony to the quality of the candidates. We will also be saying good-bye at that time to two great Board members: Ed Bailey (CA-retired!), Past Chair, and Kathleen McAllister (MA), Member-at-Large. They have been great mentors for me this past year and have served the membership of CRCPD in a consistently outstanding manner during their three-year sentences...I mean, terms on the Board. I know that you will all join with me in offering them our deepest appreciation and heartiest wishes for all the best in the future.



Live grizzlies everywhere, but ...

...I've probably gone on long enough for this time. I have to keep shopping for t-shirts (if I hear "One for the thumb" one more time, I think my beautiful hair will start to fall out). I'll see you all in Detroit!



CRCPD National Conference on Radiation Control

The 38th National Conference on Radiation Control will be held May 7-10, 2006, at the Detroit Marriott at the Renaissance Center. In addition to general radiation control subjects there will be a number of papers dealing with radon issues. You are encouraged to attend. Visit our website at www.crcpd.org for more information.

Business Cards

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Please bring an ample supply of business cards (at least 30) to deposit in our exhibitor's give-away containers so you will be eligible for some fantastic prizes given by the exhibitors. Visit every booth, leave your card, and you may be lucky and have your name drawn!



SR-C—Suggested State Regulations C: Licensing of Radioactive Materials

Monica Perez (TX), SR-C Chairperson

The SR-C committee met February 27–March 1, 2006, in Austin, Texas. The purpose of the meeting was to review and discuss all comments received regarding the 2005 Draft SR-C and make changes to the text, plus begin the Rationale for the revision of SR-C.

Other members who attended were: Cindy Becker (FL), Trudy Hill (NE), Ralph Heyer (Thermo Electron Corp.), advisor, Vivian Campbell and Jenny Tobin

(NRC), resource individuals.

The Rationale will be distributed to the meeting attendees for their review and editing by the end of March 2006. Once the Rationale is complete, it will be forwarded to Bruce Hirschler (OED) to make final formatting revisions. It will then be forwarded by mid April to the applicable individuals for peer review. Comments received from the peer review will be reviewed by committee members, advisors, and resource individuals. After the comments are discussed, any changes to the Draft SR-C will be forwarded to Bruce for the final process.

Thank you all for your cooperation and support of this committee.



ANSI N42 meetings

Jim Yusko
Pennsylvania Department of Environmental Protection



"Is that a bomb or a bar of soap?" "Is that a tripwire or some fishing line?"

Those are some of the questions the next group of advisors to the National Institute of Standards and Technology (NIST) are working on, courtesy of the Department of Homeland Security's efforts at making us safer by developing or improving the technology of detecting illicit items in containers or luggage.

The latest batch of N42 committees includes the following: N42.44 is looking at checkpoint cabinet X-ray systems; N42.45 is looking at computed tomography (CT) equipment for screening luggage and baggage; and N42.46 is looking at cargo/vehicle container screening systems. Also mentioned was the creation of a committee to look at backscatter X-ray systems, possibly for use on passengers or crew.

The purpose of the series of meetings is to establish standards for measuring and evaluating the performance of the systems, to determine the tests for (minimum) proficiency and performance of the equipment (both initially and over time); to provide

something like a "Consumer's Reports" -style evaluation for buyers of the equipment.

I was able to attend the January 2006 N42.45 meeting, whose focus is on Computed Tomography (CT) systems for screening. It seems that although the existing 2-dimensional imaging of packages, luggage, or baggage is good (and is being improved), it doesn't have the capability of imaging that a CT scan of the same item would, especially at the sides or edges of the item. In addition, the group felt that having some way of determining the effective atomic number of the item being scanned would assist the operators in trying to determine what the unknowns or concealed items were - hence, the questions above.

And while many of us are familiar with some of the parameters from the medical applications, the industrial folks use the same language (which is somewhat comforting) in discussing machine performance, such as noise, modulation transfer function, contrast, resolution, etc. This would make it easier on us who just might be called upon to assist the evaluation and performance (and the safety) of such equipment.

Stay tuned; there are more of these standards coming out so that we'll feel safer flying.



Centers for Disease Control and Prevention Broadcast

Cass Kaufman (CA), Director
Radiation Management, County of Los Angeles

On March 9, 2006, the National Center for Environmental Health and the Public Health Training Network of the Centers for Disease Control and Prevention (CDC) produced a simultaneous satellite broadcast and web cast entitled "Preparing for Radiological Population Monitoring and Decontamination." The panel members for the Broadcast were Robert Whitcomb, Ph.D., CHP; Gregg Dempsey, US EPA; and Cass Kaufman, Los Angeles County Radiation Management. Some of the objectives of the broadcast were to define radiological population monitoring, describe examples of previous radiological population monitoring projects, describe challenges in planning for population monitoring, describe basic procedures in population monitoring,

and to describe CDC's current resources for planning population monitoring. CDC estimates that over 1000 people across the United States and Canada watched the broadcast live, either via satellite television or over the internet. Since then, several hundred more people have viewed the archived broadcast via the CDC internet, and this number is continuing to grow daily.

Some of the key informational points presented included:

- Registering potentially impacted people as soon as practicable. Those responding to the Chernobyl accident regretted not establishing a registry early-on.
- In the Goiania, Brazil incident, 249 people were found to be contaminated, and 49 individuals required medical treatment. But out of a population of about one million people, 112,800 asked to be surveyed for contamination. The

decontamination operation required more than 730 emergency workers, and generated about 3500 cubic meters of radioactive waste.

- The Strategic National Stockpile stocks KI, Prussian Blue, DTPA, and Neupogen to treat acute radiation syndrome.
- Public Health agencies will be responsible for monitoring workers' and the public's health and safety, ensuring safe shelters are available, ensuring healthy food and water supplies, monitoring people who may have been contaminated or exposed, developing criteria for entry and operations within the incident site, and recommending disease and prevention control measures.
- Plans need to be able to be scaled up or down, based on the number of people involved. If there are only 100 people involved, a thorough survey can be performed, and run-off can be captured. But if there are 100,000 people involved, a less thorough survey can be performed and water run-off need not be captured.
- Those with life-threatening injuries should be treated without regard for contamination.
- Los Angeles County has 13 portal monitors. The poles of the monitors are wrapped with plastic wrap, and the walk through area will have several layers of thick plastic, so that contamination can be easily removed and controlled.
- The soon-to-be published CRCPD "Handbook for Response to Incidents Involving Radiological Dispersal Devices (RDD)" was recommended as guidance to cover 0-12 hours after an RDD. CRCPD's web address was provided on the broadcast.
- People should not be corralled and held for surveys. It's more important to get the contamination off of people than it is to measure it. If there are large numbers of people, and they could get decontaminated quicker by going home, it is advisable to let them go. (The CRCPD Handbook noted above includes a handout that gives instructions for performing decontamination at home.) It is acceptable to let them leave with contamination levels of 10,000 cpm with a pancake probe, or 0.1 mR/hr. If necessary, those numbers could be increased to 100,000 cpm or 1 mR/hr.



"Pets should be handled just like their owners—they can be washed."

- It was recommended that first responders contact their State or local radiation control programs before an event, and noted that these folks can provide assistance both in planning for an event, and during an event. Instructions on how to access every state program by going to CRCPD's web site was provided.
- The role of Federal agencies was described. The Nuclear/Radiological Annex of the National Response Plan calls for the Department of Homeland Security to coordinate the Federal response to a radiological terrorist event. The coordinating agency will be determined by the type of incident; it could be the NRC, DOD, DOE, NASA, or EPA. DOE's goal is to have a plane off the ground in 4-5 hours, and in some locations, EPA may also provide early assistance. The HHS is charged with coordinating public health aspects of the federal response, including organizing subject matter experts, assisting in establishing a registry, performing dose reconstructions, and long-term population monitoring.
- It was suggested that there be a series of "greeters" at a monitoring center, who could answer quick questions, and try to pull people with special concerns out of the line. (Note that the CRCPD Handbook noted above also includes a handout that can be given to people waiting in line that explains what's going to happen.) The suggestion was one greeter should be able to pass 500 people by his/her point in an hour. It's important to at least have the perception of a moving line. People should be able to perform gross decon with paper towels or disposable wipes while waiting.

- Staff should walk the line with a survey instrument looking for individuals who are highly contaminated, have small children, have medical problems or are pregnant, or are underage with no adult supervision.
- Red Cross shelters typically will not accept individuals with contamination, so people may have to be monitored prior to entering a shelter.
- The most important areas of the body to monitor are the head/shoulder areas (because that may indicate internal contamination concerns), the hands, and feet. If these three areas aren't contaminated, it's unlikely the rest of the individual is contaminated.
- It's best to use warm water for showers, and families shouldn't be separated, particularly children from a parent. People will need to be re-monitored after a shower, and dry clothing must be provided. Agencies should consider establishing contracts with large retailers, like Wal-Mart or Target, who have lots of clothes in varying sizes.
- Pets should be handled just like their owners—they can be washed.
- It's probably not feasible to collect nasal swipes, or any type of biological sample, in the first 24-48 hours of a local response.

CDC is preparing Radiological Population Monitoring Guidelines, and hopes to have a final version within a year. The broadcast can be viewed, and answers to questions from the broadcast are also available, by going to www.bt.cdc.gov/radiation.



Congratulations to Debra McBaugh!

CRCPD Chair Debra McBaugh (WA) was nominated to serve on the National Council of Radiation Protection and Measurements (NCRP), and was subsequently elected to this prestigious organization. The Council members number 100 and are elected to six-year terms with the terms of approximately 14 members expiring each year. They are selected on the basis of their scientific expertise. They are entitled to vote on all matters acted upon by the members and are thus sometimes identified as voting members. Thanks to Jill Lopoti (NJ) for nominating Debra to this important position.



NRC Chairman Diaz's Retirement Message

Over the past decade it has been my honor and privilege to serve the nation, first as a member of the Nuclear Regulatory Commission and, for the past three years, as Chairman of this important body.

In that time, the Commission and the dedicated men and women of the NRC have been instrumental in significantly raising the level of safety and security in the industry we are charged with regulating.

Together, we have prepared the NRC for the coming submission of a significant number of requests for new nuclear power plants. We reacted swiftly after the terrorist attacks of September 11, 2001. We have substantially improved the oversight of existing nuclear plants and all other significant aspects of ensuring safety in the civilian uses of nuclear materials. And we have broadened the level of international cooperation on nuclear issues. It is a record of protecting the American people of which we can all be proud.

It is with deep appreciation for the work of the talented individuals of the NRC that I announce that I am not seeking a third term on the Commission. I plan to return to Florida after my second term expires on June 30, and enjoy time with my family.



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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: Curt Hopkins, 205 Capital Avenue, Frankfort, KY 40601 (fax: 502/227-4928; e-mail: <chopkins@crcpd.org>). The deadline for contributions is the 15th of the month before an issue is to be published.

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