



NEWSBRIEF

October 2004

CRCPD's Mission: A Partnership Dedicated to Radiation Protection

Message From Chairperson Edgar D. Bailey



By the time you read this, I am certain that you will have already heard that Ron Fraass has resigned his position as Executive Director (ED) of CRCPD. Ron has notified the Board that he has accepted a job as the Director of EPA's National Air and Radiation Environmental Laboratory in Montgomery, Alabama, effective as soon as early November 2004.

During his tenure as the ED, Ron has worked to reach the goals and objectives that many of us have envisioned for the CRCPD. His efforts in increasing the recognition and stature of the CRCPD among radiation protection professionals and governmental organizations both nationally and internationally has been exemplary. His initiative to secure official recognition of the CRCPD as a non-governmental organization by the IAEA is a signal event in these efforts. His out-reach efforts and emphasis on the Partnership concept have been greatly responsible for the CRCPD's successes in securing additional funding in support of CRCPD activities, for securing financial support and implementation of the National

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Chairperson's message

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Symposium on Fusion Imaging, and enhancing our interactions with the HPS to name just a few.

As a manager of the OED Ron has created a special award for OED staff, improved the OED offices and equipment, and recommended budgetary revisions that have brought the budget in line with actual expenses. Ron's "can do" attitude and follow through will be greatly missed. We all wish Ron every success in this new challenge in his outstanding career.

The CRCPD now faces the job of finding a new ED. This is not something that any of the present Board Members anticipated when we ran for office. Nonetheless the process is well underway, and we are confident that we will be successful in the not too distant future. The Board is committed to finding the right person to assume the job of ED for the CRCPD. We sincerely hope that this interim period will be very short and that we will have the new ED on board by early 2005. At this point a job announcement has been released and posted on CRCPD Web site www.crcpd.org and click on "Executive Director position announcement." To date we have received a number of inquiries regarding the position. The cutoff date for receipt of applications is November 20th. In the coming months we will be evaluating the applicants and interviewing prospective candidates.

To assist us in this transition phase, we are in the process of finalizing plans to have Chuck Hardin return on a part-time basis as an Interim ED to manage the OED and provide a bridge between Ron and the new ED. We hope to have this arrangement in place beginning November 8th. Chuck will be available in the afternoons and physically located at the OED (ext. 2222). On behalf of the CRCPD, the Board and staff, we appreciate Chuck's willingness to assist during this transition.

The other members of the Board and I will appreciate your input into this process and value your ideas and opinions regarding the future of CRCPD. Please let us hear from you.



Frankfort 'Fil's sidekick

By Ron Fraass (OED)
Executive Director



Just as our prognosticating groundhog Frankfort Phil left the pages of the *Newsbrief*, this will be my last article as Frankfort Phil's Sidekick. It has been an honor to work with all of you who are CRCPD members and our professional partners. With your hard work and dedication, CRCPD has made significant progress in our goal of radiation protection for the citizens of our respective states. Thank you for all you have done and are doing for the organization.

As a voluntary organization, we can only do as much as you are able to accomplish. And each of you can only do as much as your Program Directors and state agencies are willing for you to do. CRCPD is effective because of the synergistic efforts of our many volunteers. The work you do individually on regulations, inspection procedures, plans, legislation, policies, and procedures can benefit many other states. Likewise, the work done by other CRCPD members can benefit you. For either benefit to occur, we must work together. We are successful because we are: "A Partnership Dedicated to Radiation Protection."

When I accepted the position of Executive Director, I planned to complete my professional career at CRCPD. The challenges and rewards of this position are only exceeded by the quality of our many members and the dedicated OED staff. However, the opportunity to direct EPA's National Air and Radiation Environmental Laboratory in Montgomery is a rare opportunity for me to enhance national radiation laboratory capabilities. Linda and I will be moving to Montgomery to begin that new position sometime in November.

I remain dedicated to our Partnership.

Please keep in touch.



IAEA Meeting

By Ron Fraass (OED)
Executive Director

Our renewed efforts with the IAEA are bearing fruit. I attended the 48th Regular Session of the General Conference of the IAEA from September 20 to 23, 2004, in Vienna, Austria. The Conference runs through the 24th but material on the last day is of less interest to CRCPD. As always, much of the important business of the Conference is accomplished in small meetings outside of the plenary sessions.

The Conference also includes a Scientific Forum on Tuesday and Wednesday. This year's topics were on research reactors and waste management from reactors. I attended portions of the Scientific Forum and a Senior Regulators' Forum as an observer. The primary topics for the Senior Regulators' Forum were basic radiation protection and international standards.



During a reception, I was able to talk briefly with IAEA's Director General, M. ElBaradei. During breaks in the Conference, I spoke with many attendees, including Gail DePlanque, former NRC Commissioner, and James Tulenko, the current President of the American Nuclear Society (ANS.) Like CRCPD, ANS is a non-governmental organization recognized by IAEA. I also scheduled and met with Abel Gonzales (Director of the Radiation, Transport and Waste Safety Division), Ken Brockman (Director of the Nuclear Installation Safety Division), Malcolm Crick, Tom McK-

enna, and Elena Buglova of the Emergency Preparedness and Response Section.

Abel is very interested in future work with CRCPD and our members. Later, during my discussion with Malcolm, I learned that there is a reasonable chance that IAEA may provide funds to CRCPD to recruit and train state experts to assist in review missions to countries similar to the one I did in Indonesia. There may be 20 countries on the list unless they do regional events. Our state experts would ideally need to have experience in health physics and radiation emergency response. Language skills are also desired but not a requirement.

IAEA

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At the Senior Regulators' Forum, I also spoke with Warren Stern from the US Department of State. I had met with him last year prior to attending the Conference. He may provide us a list of international contacts for import and export. I also met with senior members of the French delegation and provided them a copy of our Directory. Another member of their delegation has already provided



us with appropriate contact information for the Directory. I also provided the Canadian delegation with a copy of the Directory. It is a great document for explaining CRCPD's activities.

CRCPD's web site has reports from the USA, Japan, United Kingdom, China, European Union (by Netherlands), Iran, and the Russian Federation as examples of the national comments made during plenary sessions. A document titled *Nuclear Technology Review* will also be available on the web. It is an excellent source of general information on uses of radiation and radioactive material around the world.

The continued presence of CRCPD at the IAEA General Conference will pay dividends for our members as we gain a better understanding of the methods being used by other nations for radiation protection. We can also help influence international standards that may eventually become US standards.

**Search for new Executive Director**

It is with mixed emotions that we say "Goodbye" to Ron and Linda as they leave the CRCPD/OED family. While we understand and are happy for this tremendous opportunity afforded Ron, we are saddened for our loss. Ron and Linda have been a tremendous asset to us over the past two years and will be missed. We feel confident that the EPA/NAREL staff will be as blessed as we have been during Ron's tenure as CRCPD Executive Director.

We are currently seeking Ron's replacement. The announcement has been widely distributed and is available on CRCPD's Web site. If you know of a good candidate, please refer them to this position announcement on CRCPD's web site at www.crcpd.org. Deadline for



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receipt of applications: cob November 20, 2004.

State inquiry: final report of the NIOSH study re TSA baggage scanners

John F. Cardarelli, M.D., FSIR, FACR presented a paper at the 2004 annual meeting entitled "The Future of Radiation Protection in Medicine: Challenges and Opportunities." During this paper, Dr. Cardella referenced the final report of the NIOSH study regarding TSA baggage scanners. Stan Marshall, NV, inquired as to the status of this report and recommended this be included in our *Newsbrief*. Dr. Cardarelli provided permission for us to print his response as follows: "our report is scheduled for completion by December 2004. More information on our study can be found at www.cdc.gov/niosh/topics/airportscreener."

Funding secured for 2004-05

I am pleased to report that CRCPD has successfully been awarded funds in support of the following cooperative agreements:

- U. S. Environmental Protection Agency (EPA) Radon;
- Food and Drug Administration (FDA); and
- U.S. Nuclear Regulatory Commission (NRC).

The NRC cooperative agreement is new to this year's funding. The purpose of this agreement is to provide assistance in the disposition of orphan radioactive material and of radioactive material in imminent loss of control. The activities under this agreement will be conducted within the CRCPD National Orphan Radioactive Material Disposition Program.

CRCPD has also received new funding from the Centers for Disease Control and Prevention (CDC) to accomplish the following tasks:

- ◆ To develop a RDD flow chart and companion document containing important contact information for use by state and local response officials in the event of a radiological incident.
- ◆ To establish a database of information on the availability and type of laboratory and sampling radiological services that exist at the state government level.

CRCPD has negotiated a new five-year contract with the Department of Energy Consequence Management (CM)/Federal Radiological Monitoring and Assessment Center (FRMAC) effective October 1, 2004 through September 30, 2009. The purpose of this contract is to provide CRCPD support to CM/FRMAC. Sample activities in-

Pat's Corner (continued)

clude:

- ◆ Update "Contacts for Radiological Assistance" (published March and September)
- ◆ State participation in CM/FRMAC work groups (i.e., Health and Safety, Monitoring and Sampling, Laboratory Analysis, Assessment, Operations, Emergency Sampling and Design, and CM Mission Analysis).
- ◆ Review draft CM/FRMAC documents, plans, procedures and manuals.
- ◆ Review and schedule participation of state radiation control staff in CM/FRMAC exercises and other meetings of mutual interest.

Treasurer's visit to OED

John Winston conducted his initial visit to OED on October 5-6, 2004 for the purpose of fiscal management orientation. John spent two days of intense discussion and productive planning primarily with Twila Barnett, Fiscal Officer. Also included in specific aspects of discussion were Ron Fraass, Executive Director, and Pat Gorman, Administrative Officer. We believe that John left Frankfort with a good understanding of the fiscal operations and his responsibility as Treasurer for CRCPD.

During John's visit, he chaired his first Finance Committee conference call on the afternoon of October 6th. The purpose of the meeting was to consider a CRCPD budget proposal for October 1, 2004-September 30, 2005 and prepare a recommendation for the Board of Directors at their upcoming October 25-27, 2004 meeting. I am pleased to report that the Finance Committee will be recommending that the Board approve the proposed budget as developed by the OED staff. Following budget approval, OED will post the Board approved annual budget on the CRCPD Web/Regulatory Forum.

2005 CRCPD membership dues

The Board of Directors approved no increase in dues for 2005. The Fiscal Department has forwarded invoices for the 2005 annual CRCPD membership dues during the week of October 18th. If you need to make changes to your invoice, or if your invoice has not arrived by November 1st, please contact Denese Southgate via email (dsouthgate@crcpd.org) or by phone (502/227-4543 ext. 2225).

News about CRCPD members

Congratulations to William P. Dornsife, former CRCPD Chairperson (1996-97), on being selected by the Southeast Compact Commission for Low-Level Radioactive Waste Management to receive the 2005

Pat's Corner (continued)

Richard S. Hodes, M.D. Honor Lecture Award. The Commission is recognizing Bill for his role in solving low-level radioactive waste management problems in the United States. Bill will be presenting the special lecture during the late February/early March 2005 Waste Management Symposium in Tuscon, Arizona.

Bill is a long-time supporter and current Affiliate Member of CRCPD. CRCPD is proud of Bill and his accomplishments. CRCPD was honored to submit a letter in support of his nomination for this special award.

Congratulations to Linda Plusquellic Marson (Maine Radiation Control Program) on her recent marriage in August 04. We wish her and her husband a blessed life together, filled with much joy, peace and happiness.

Call for resolutions

If you have an issue that warrants a proposed resolution, please [click here for guidelines to "Call for resolutions" \(page 19\)](#).

If you have questions, please contact Sue smith (email ssmith@crcpd.org; phone 502/227-4543 ext. 2228).

Nominating Committee seeks input for CRCPD officer candidates

The Nominating Committee, consisting of Richard Ratliff (TX), Cindy Cardwell (TX) and Debra McBaugh (WA), seeks input from the CRCPD membership relative to qualified candidates interested in being nominated to run for election to the following two Board positions:

- ◆ Chairperson-Elect (3 year term beginning April 28, 2005 -- 1st year of term is Chairperson-Elect, 2nd year is Chairperson, and 3rd year is Past Chairperson); and
- ◆ Member-at-Large (3 year term beginning April 28, 2005).

If you know of a good candidate who might be interested in having their name included on the ballot, contact the nominating committee. [Click here for duties of each position \(page 20\)](#)

Annual Meeting poster requirements

To enhance the quality of the Poster Session, and in keeping with practices of other organizations regarding poster presentations, all proposals for posters to be presented at the CRCPD Annual Meeting must be submitted to the Poster Review Committee. The committee members are the Past Chairperson (Richard Ratliff (TX), phone 512/834-

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6679, email: richard.ratliff@dshs.state.tx.us, fax: 512/834-6716) and the Chairperson-Elect (Debra McBaugh (WA), phone: 360/236-3251, email: debra.mcbaugh@doh.wa.gov, fax: 360/786-1730).

The Board policy addresses two categories:

1. Working Group chairpersons seeking financial support to the annual meeting for presenting a poster, and
2. All others desiring to present a poster but not seeking financial support.

[Click here for the Board policy and instructions regarding poster presentations \(page 22\).](#)

Meetings in Conjunction with the CRCPD Annual Meeting

If a working group desires to meet in conjunction with the CRCPD annual meeting, the working group chairperson shall contact the council chairperson and obtain approval to hold the meeting. The approval must be obtained at least 60 days prior to travel date (i.e., February 15, 2005) so that travel authorizations may be issued and flight arrangements obtained in order to get the lowest fares available. Exceptions may be approved by the CRCPD chairperson or designee.

- Per July 2004 Board Policies and Procedures (Section V. COMMITTEES/#17-Financial Support of Working Groups at Annual Meetings): “For those persons financially supported to attend a working group meeting held in conjunction with the annual meeting, CRCPD shall only pay those expenses necessary to cover the cost of the working group meeting. This cost shall include obtaining the lowest airfare available. Should those persons desire to attend the annual meeting, such additional cost shall be incurred by the state or the individual. (For more information refer to COMMITTEES/#7-Length of Working Group Meetings and Section X. TRAVEL/#7-Annual Meeting Travel.).



Mini-grants

By Curt Hopkins (OED)
Manager, Radon Program
and Newbrief Editor

2003-2004 program concludes

Eight radon mini-grants were completed and two additional ones are in the process of completion. The E-25 Committee felt these mini-grants were innovative and contributed to overall risk reduction from radon. The reports can be viewed at www.crcpd.org/radon.asp. Click on the Radon Bulletin.

Two of the recipients will be presenting their finding at the 14th National Radon Meeting in Newport, Rhode Island, to be held November 7-10, 2004.

Mini-grants

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Trip to Washington, D.C.

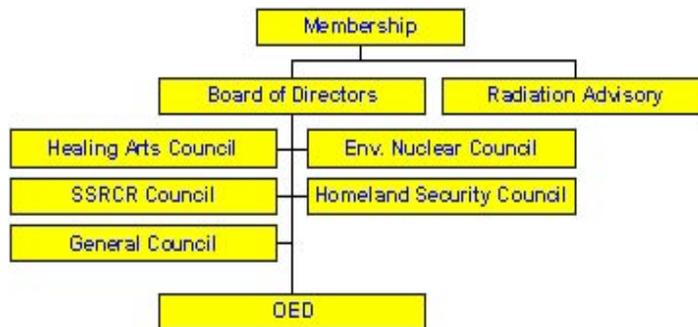
By Debra McBaugh (WA)
Chairperson-Elect

2004-2005 program begins

Seven mini-grants for \$2000 each will be awarded to state radon partners for innovative projects that seek to achieve radon risk reduction. The E-25 Committee on Radon will review the applications and recommend projects to the CRCPD Board for funding. Following Board approval, the mini-grant awards will be sent to the selected applicants in December. The announcement and application can be viewed at <www.crcpd.org/radon.asp>. If you have questions, contact Curt Hopkins, 502/227-4543, ext. 2233.



As part of my chairperson-elect duties I spent nearly a week in the other Washington (Washington, D.C.). While there I met with three federal agencies. One of my goals was to increase recognition and respect for the activities of CRCPD members and describe the value we provide when we are involved in their work. Therefore, for each meeting I presented the CRCPD Organizational Chart showing the members at the top.



I described the structure of CRCPD and then focused on the Homeland Security Council, being the newest Council and the one I am Board representative for. I passed out many copies of the Organization Chart, the 4-fold describing CRCPD, pins and the directories. Everyone appreciated getting them.

I spent one day with each of the federal agencies. The overarching factor for each of these visits was people's willingness to take time out of their busy days to meet with me. We had many worthwhile discussions and I was repeatedly surprised by the efforts taken to provide me with information and to listen to what I had to say. [Click here for a brief summary of each of the days \(page 23\)](#)



Previous Board Member



Clough Toppan
Maine

Member-at-Large
1988-1989
1990-1993

E-25 Committee on Radon

By Adrian Howe (NV)
Chairperson

I have been employed by the Maine Bureau of Health since October 1972. In June 1984 I was fortunate to be chosen to be the Director of the Maine Radiological Health Program until January 1994 at which time I was asked to be the Director of the Division of Health Engineering, the same unit where the RHP was located. During that time in the RHP I had the opportunity to be elected to the Board of Directors of the CRCPD. My initial placement on the Board was a result of a resignation of one of the existing Board members who changed employment. I served out that term and then that same year another resignation occurred and I was asked to fill that term. At the end of that term, I was finally placed on the Board for one of the staggered terms as provided for in the newly amended bylaws. Boy did we spend a lot of time on bylaw changes! During all of those many long meetings I fondly remember the long hard hours but the fun we also enjoyed. I left the Board on April 1993, and stayed the voting member of the CRCPD until January 1994, when I left to take over as Director of the Division of Health Engineering.

As Director of DHE I was able to oversee my predecessor, Bob Schell (now in Illinois and doing well), and his predecessor, Jay Hyland – who is now on the CRCPD Board.

My two children are on their own (with jobs, their own kids - 4 total) and Peggy and I are enjoying the outdoors, skiing, hiking, and paddling. Work is very busy, and as all can attest, being driven by budgets leaving few survivors. I will be 60 in 3 years with a decision at that time. For now, all thoughts are on working as I do really enjoy my work.



The E-25 Committee on Radon met in Providence, Rhode Island on July 12, 13 and 14, 2004. In attendance were Adrian Howe, Chairperson, committee members Michael Pyles (PA), Bill Bell (MA), Bob Stilwell (ME), Conrad Weifenbach (WI), Mike Gilley (FL), and Curt Hopkins (OED); and resources Dan Burke, (EPA Region 1), Lou Witt (EPA, Indoor Environments Division (IED)), and Dave Hill, (AARST).

The primary goal of the meeting was to finalize the agenda for the 14th National Radon Meeting to be held in Newport, RI in November 2004. The agenda was reviewed; comments and suggestions from EPA IED were discussed. After discussion, all of the EPA suggestions were incorporated in the agenda, which required some adjustment of dates and times. The committee agreed that the changes resulted in an improved grouping of topics and improved

E-25 Committee

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flow of the meeting. Two additional proposed papers were added to the agenda. The committee discussed confirmed speakers and set a deadline of August 15 for committee members, resource persons and AARST representatives to confirm their assignments. The committee also reviewed the speaker confirmation letter and requested OED to utilize the letter and send out to speakers as soon as possible. The final agenda includes topics pertaining to EPA updates, AARST updates, Synergies in Awareness Outreach, Protecting the Consumer, Radon in Water Lab Proficiency, Creative In-Kind-Match Opportunities, Interstate Cooperation on Radon, Minigrant Updates, Creative Outreach, Tribal Presentations on Cultural Factors That Must be Considered in Program Outreach Efforts, Risks from Radon Decay Product Standpoint, New Jersey Rn-In-Water Attitude Survey, etc.

The committee took a tour of the meeting site in Newport, Rhode Island, and surrounding area to be able to assist attendees and envision the flow of the meeting as well as the interaction of the joint sessions with AARST.

The committee also reviewed work assignments, initial progress, established deadlines and work methods on two projects. The work methods were established to include advisors input and product.

Two projects that should provide improved information to State Radon Programs are:

- ▶ the anecdotal history of State Programs and CRCPD involvement in Radon as a public health issue, and
- ▶ Review of EPA documents for update and revision.

The EPA document list was reviewed and this list was prioritized for individual document revision. This list is subject to change in the future as additional resource lists are updated and unforeseen needs arise. The first document selected for review at the request of EPA is the Radon in Schools Measurement document. The due date for comments from advisors and the sub-committee is December 1, 2004. Comments will be compiled, and then discussed and finalized at the next committee meeting in January 2005.

The committee also discussed the current Region 4 EPA policy placed on SIRG grants pertaining to measurement criteria in Karst geology areas and if CRCPD should be involved. The committee felt that CRCPD should consider involvement as it pertains to EPA establishing policy testing criteria via the grant process. This and one

E-25 Committee

(continued)

other issue has been very eloquently expressed by James McNees, Alabama in an email to EPA headquarters. The committee will continue to monitor the situation.

The committee also discussed a potentially emerging issue regarding radon measurement laboratory quality assurance failure and the lack of standardization in the industry. This issue may evolve into a potential work project for the committee in cooperation with the radon industry. Further discussions will be held in the future among the committee and AARST.

**Karst meeting**

By Ron Fraass (OED),
Executive Director

The Environmental Protection Agency, Region 4 Office held a stakeholders meeting in Atlanta, Georgia on September 15th and 16th. The meeting was held to discuss guidance to states in Region 4, where the combination of Karst geology and a strong radon source combine to cause radon measurements to fluctuate widely over the course of a year. Short-term tests in homes may vary by two orders of magnitude depending upon time of year, outside air temperature, and wind conditions. This extreme variability makes it difficult to obtain appropriate radon measurements on which to base decisions on mitigation. The stakeholders were brought together to obtain general consensus on the best methods to recommend to homeowners for testing their homes, whether or not the testing is during a real estate transaction. Members of CRCPD's E-25 Committee on Radon participated as well as appropriate Region 4 states.

[Click here for viewpoints from the E-25 Committee and the Karst states of Alabama and Kentucky \(page 29\).](#)

**Technical White Paper**

By Mike Gilley (FL)

Radon in Drinking Water Regulations: A Brief History

Developed by CRCPD's Liaison to the Association of State Drinking Water Administrators and the American Water Works Association
Approved by CRCPD's Board of Directors.

In the 1986 amendment of the Safe Drinking Water Act (SDWA), the U.S. Environmental Protection Agency (EPA) was directed to promulgate regulatory standards for radon and other radionuclides and radon are recognized as cancer causing substances. Consequently their maximum contaminate levels (MCL) in water are automatically set to a goal of zero additional cancers. Due at least in part to the number of comments received on the radon in water standard, the rule was not promulgated, and because of delays in its implementation, the EPA was sued. In the following consent decree, the

Technical White Paper

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EPA agreed to publish radionuclide in drinking water rules by April 1993.

In 1992, Congress extended the promulgation deadline and requested a reevaluation of the earlier radon health risk assessments and the creation of an action plan to address the regulation of radon. This action plan was to account for exposure pathways from both water and air. The publication of the radon in drinking water rule was further delayed by controversy over assessments of the extrapolation of risks, nature of the risks and the mitigation cost analysis. During 1996, congressional amendments to the SWDA permitted the EPA to establish an alternative MCL (AMCL) that allows a higher concentration of radon in water than the lower MCL. The AMCL was set at a radon concentration at which the indoor radon risk from waterborne radon is equal to the average risk from exposures to radon in outdoor air. In situations where a water systems radon concentration exceeded the MCL, but not the higher AMCL, the EPA could allow risk reduction through focused, indoor air radon reduction programs for the populations served by those water systems. Mitigating radon in air may achieve greater risk reduction than mitigating radon in water. EPA approval of the less stringent AMCL option requires the state or local water provider to implement a multimedia mitigation (MMM) plan that obtains a risk reduction equivalent to the adoption of the MCL. Required elements of a MMM plan include:

- Involvement of the public in the careful review of the plan;
- Setting quantitative goals for reducing radon in existing and new homes;
- Establishing strategies for achieving quantitative goals; and
- Carrying out a plan for tracking and reporting results.

Additionally, the 1996 SWDA amendment required the EPA to contract with the National Academy of Sciences (NAS) to 1) study and report on health risks associated with exposure to radon in drinking water, 2) assess various radon mitigation measures, 3) summarize contradictory advice among various advisory organizations and 4) evaluate the technical and scientific bases for their disparities. The 1999 NAS report has estimated that about 20,000 lung cancer deaths occur in the United States (US) each year from indoor exposures to radon produced in soils, rock formations and water. It also concluded that using techniques to reduce indoor airborne radon and its related lung-cancer risk does make good public health

Technical White Paper

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sense. The NAS committee concluded: “evaluating whether a multimedia approach to radon reduction will achieve an acceptable risk reduction in a cost effective and equitable manner will be a complex process.” It also noted MMM implementation will require significant cooperation between the partners, the EPA, state agencies, water providers and local communities.

In November of 1999, EPA released the currently proposed radon in water rule (MCL/AMCL) separate from the overall radionuclides rule. During late 1990’s and early 2000, EPA held several regional facilitated workshops with representatives of state drinking water and radon programs to gather information and to discuss states’ implementation issues. After the 2000 election, changes in federal executive administration and agency administrative management caused consecutive delays in the radon in water rule promulgation. During Fall 2003, at congressional request, EPA’s radon and drinking water programs held additional information gathering meetings with select state drinking water and radon program officials regarding consideration of a single MCL. No additional, official EPA actions have taken place since these sessions were held.



CRCPD members serving on non-CRCPD Working Groups

By Sue Smith (OED)
Executive Secretary/
Meeting Specialist

OED has compiled a list of CRCPD members who are serving on non-CRCPD working groups. CRCPD members are requested to advise Sue Smith of additions or deletions via e-mail (ssmith@crcpd.org) or by phone 502/227-4543, ext. 2228. Should you have any questions or information to share, you are encouraged to contact these individuals.

Note: This list will be updated periodically in the *Newsbrief* and on the CRCPD Web under main menu item “**Working Groups.**” The direct link is <http://www.crcpd.org/Working_Groups/MbrsOnNon-CRCPD_WGs.htm>. [Click here for the full list \(page 26\)](#)



The following document is provided by Ed Bailey, CRCPD Chairperson, with permission of Todd Lovinger.

LOW-LEVEL RADIOACTIVE WASTE FORUM, INC.

1619 12TH Street, N.W. - Washington, D.C. 20009

(202) 265-7990 * (202) 265-7995 FAX.

September 28, 2004

Edgar D. Bailey
Chairperson
Conference of Radiation Control Program Directors
205 Capital Avenue
Frankfort, KY 40601

Dear Mr. Bailey:

At its recent meeting in Buffalo, New York, members of the Low-Level Radioactive Waste Forum, Inc. (LLW Forum) were presented an overview of proposed legislation, S. 2763, to amend the Atomic Energy Act of 1954 to expand the definition of radioactive "byproduct material" to include: (1) discrete sources of radium-226 from commercial, medical, or research activities; (2) material made radioactive by particle accelerators; and (3) any discrete source of naturally occurring radioactive material (other than source material) that the U.S. Nuclear Regulatory Commission (NRC) determines would pose a threat similar to that posed by discrete radium-226 sources. Officials from several federal agencies-including NRC, the U.S. Environmental Protection Agency (EPA) and the U.S. Department of Energy (DOE)-participated in the discussion, as did state and compact officials and members of the waste management and disposal industry.

The LLW Forum is an independent, non-profit organization established to facilitate state and compact implementation of the Low-Level Radioactive Waste Policy Act of 1980 and its 1985 amendments and to promote the objectives of low-level radioactive waste regional compacts and unaffiliated states. Directors that serve on the Board of the LLW Forum are appointed by Governors and compact commissions as the designated liaisons of states and compacts on low-level radioactive waste disposal and management issues. The LLW Forum provides an opportunity for state and compact officials to share information with one another and to exchange views with officials off federal agencies, members of the industry and other interested parties.

At the conclusion of the discussion on the proposed legislation, the Board of Directors of the LLW Forum passed the attached resolution. The resolution identifies what we believe to be some

unintended adverse consequences of the proposed legislation and asks Congress to work with states, compacts and federal agencies to resolve the concern.

If you have any questions about the attached resolution or any other matters related to this issue, please feel free to call me at (202) 265-7990.

Thank you.

Todd Lovinger
Executive Director
LLW Forum

Enclosure

LLRW FORUM RESOLUTION RE SENATE BILL 2763

WHEREAS there is a legitimate interest in providing for the federal regulation of discrete radium sources, accelerator-produced radioactive material, and similar materials that may pose a threat to homeland security;

WHEREAS currently, disposal managed under the low-level radioactive waste compact system provides a safe means of disposing all such materials;

WHEREAS S. 2763 as introduced and referred to the Senate Environment and Public Works Committee would define such material as “by-product material” to initiate federal regulation of these materials; and

WHEREAS S. 2763 as introduced, by changing the definition of such materials, would create unintended adverse consequences including, but not necessarily limited to the following:

- Potential elimination of the only disposal outlet for the majority of high-activity discrete radium sources in the nation; and,
- Potential roll back of Congressionally approved compact regulation of these materials that has provided for the safe disposal for nearly two decades;

THEREFORE the Low-Level Radioactive Waste Forum encourages the Senate Environment and Public Works Committee to work with the Congressionally approved compacts, states, and federal agencies to refine S. 2763 so that the unintended adverse consequences are avoided.



CRCPD Board of Directors

Board position	Name	State	Work Phone	Email address
Chairperson.....	Edgar Bailey	California	916/440-7899.....	ebailey@dhs.ca.gov
Chairperson-Elect...	Debra McBaugh	Washington	360/236-3251.....	debra.mcbaugh@doh.wa.gov
Past Chairperson....	Richard Ratliff	Texas	512/834-6679.....	richard.ratliff@dshs.state.tx.us
Treasurer	John Winston	Pennsylvania	814/332- 6135....	jwinston@state.pa.us
Member-at-Large.....	Kathleen McAllister	Massachusetts .	617/427-2944.....	kathleen.mcallister@state.ma.us
Member-at-Large.....	Jay Hyland	Maine	207/287-5677.....	jay.hyland@maine.gov
Member-at-Large.....	Debbie Gilley	Florida	850/245-4545.....	debbie_gilley@doh.state.fl.us

Abbreviations, acronyms, and initialisms

Below is a list of abbreviations, acronyms, and initialisms that may appear in this issue:

- CDCCenters for Disease Control and Prevention
- CDRHFDA’s Center for Devices and Radiological Health
- DOEDepartment of Energy
- DOTDepartment of Transportation
- DODDepartment of Defense
- DOJDepartment of Justice
- EMFelectric and magnetic fields
- EPA.....Environmental Protection Agency
- DHSDepartment of Homeland Security
- FBIFederal Bureau of Investigation
- FDA.....Food and Drug Administration
- FEMA.....Federal Emergency Management Agency
- FRMACFederal Radiological Monitoring and Assessment Center
- HHSDepartment of Health and Human Services
- MQSAMammography Quality Standards Act of 1992
- NEXT.....Nationwide Evaluation of X-Ray Trends
- NIST.....National Institute of Standards and Technology
- NRCNuclear Regulatory Commission
- OEDCRCPD’s Office of Executive Director
- ORAFDA’s Office of Regulatory Affairs
- SSR/SSRCR.....Suggested State Regulations for Control of Radiation
- USDA.....U.S. Department of Agriculture

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The NEWSBRIEF is written with regard to 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.

Contributions 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 fifteenth of the month before an issue is to be published.

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AND NOW FOR THE FULL STORY.....**Call for resolutions**

(continued from page 8)

The 2005 annual meeting will soon be upon us. It's time to begin formulating ideas that might result in a proposed resolution before the CRCPD membership at the upcoming business meeting. If you have an issue that warrants a proposed resolution, there are two ways to submit a proposed resolution to the CRCPD membership:

- (1) The originator may submit a proposed resolution to the OED by March 25, 2005. The Board will review and submit the proposed resolution to the CRCPD Director Members during the annual business meeting (April 24) and include one of the following statements:
 - Recommends passage as submitted.
 - Recommends that the proposed resolution not pass unless amended as recommended by the Board.
 - Recommends that the proposed position or resolution not pass.
 - Makes no recommendation
- (2) The originator may submit the proposed resolution directly to the CRCPD Director Members at the annual business meeting, in which case *the originator is to have 100 copies available for distribution at the business meeting.*)

All proposed resolutions should be prepared in the following format:

<p>Conference of Radiation Control Program Directors, Inc.</p> <p>PROPOSED RESOLUTION</p> <p><i>Relating to:</i> (This is a concise statement on the subject of the proposed resolution).</p> <p><i>Whereas:</i> (Any number of "Whereases" may be entered. A "Whereas" is a statement of facts or information that supports the final recommendation of the resolution).</p> <p><i>Now Be It Resolved:</i> (The major recommendation of the resolution is entered here).</p> <p><i>Be It Further Resolved:</i> (This is used when multiple recommendations are made).</p> <p>CRCPD Chairperson</p> <p>Date Accepted by CRCPD Membership</p>
--

If you have questions, please contact Sue Smith (email ssmith@crupd.org; phone 502/227-4543 ext. 2228).

Nominating Committee seeks input for CRCPD officer candidates

(continued from page 8)

The Nominating Committee, consisting of Richard Ratliff (TX), Cindy Cardwell (TX) and Debra McBaugh (WA), is seeking input from the CRCPD membership relative to qualified candidates interested in being nominated to run for election to the following two Board positions:

- ❑ Chair-Elect (3 year term beginning April 28, 2005 -- *1st year of term is chairperson-elect, 2nd year is Chairperson, and 3rd year is Past Chairperson*); and
- ❑ Member-at-Large (3 year term beginning April 28, 2005).

Below is a brief outline of the duties for each position. Following your review of the brief outline of officer duties, please contact the Nominating Committee if you know of a good candidate who might be interested in having their name included on the ballot.

- ❑ Richard Ratliff (email richard.ratliff@dshs.state.tx.us)
- ❑ Cindy Cardwell (email cindy.cardwell@dshs.state.tx.us);
- ❑ Debra McBaugh (email debra.mcbaugh@doh.wa.gov).

Chair Position*

❑ Chair-Elect

- o Preside at all meetings of the CRCPD or of the Board in the absence of or at the direction of the chairperson and carryout the duties of the chairperson when the Chairperson becomes ineligible to serve or otherwise is unable to act
- o Member of the Membership Committee
- o Member of the Nominating Committee
- o Member of the Annual Meeting Poster Review Committee
- o Member of the Finance Committee
- o Appointed to chairpersonj one of the following councils:
 - ♦ Environmental Nuclear Council
 - ♦ General Council
 - ♦ Healing Arts Council
 - ♦ Homeland Security Council
 - ♦ Suggested State Regulations Council
 - Note: As council chairperson of any of the above listed councils, provide bi-annual reporting information for the *Newsbrief* regarding activities of the working groups within council (Refer to Operations Handbook for detailed listing of council chair duties)

Nominating Committee

(continued)

□ Chairperson

- Chief Executive Officer of the CRCPD
 - ◆ On behalf of the Board, negotiate the Executive Director agreement
- Preside at all meetings of the CRCPD
- Chairperson of the Board
- Prepare *Newsbrief* articles for each issue of the *Newsbrief*
- Upon approval by the Board, appoint such working groups as are authorized or necessary
- Member of the Annual Meeting Poster Review Committee
- Member of the Program Planning Committee
- Designate mentors for new Board Members
- Appoint Parliamentarian for Board and Business meetings
- Represent CRCPD at various meetings

□ Past Chairperson

- Member of the Finance Committee
- Chairperson of the Membership Committee
- Chairperson of the Nominating Committee
- Chairperson of the Annual Meeting Poster Review Committee
- Chairperson of the Program Planning Committee
- Accept such other duties as may be assigned

Member-at-Large*

- Accept such duties as may be assigned by the Chairperson
- One Member-at-Large appointed as a member of the Membership Committee
- Each Member-at-Large is appointed to chair one of the following councils:
 - Environmental Nuclear Council
 - General Council
 - Healing Arts Council
 - Homeland Security Council
 - Suggested State Regulations Council
 - ◆ Note: As council chair of any of the above listed councils, provide biannual reporting information for the *Newsbrief* regarding activities of the working groups within council (Refer to Operations Handbook for detailed listing of council chair duties)

*Upon approval of the Board, the Chairperson may delegate duties

Nominating Committee

(continued)

Poster presentations

(continued from page 9)

of the officers to other Board members, or the Executive Director. The Executive Director may further delegate these duties to his/her staff.



To enhance the quality of the Poster Session, and in keeping with practices of other organizations regarding poster presentations, following is the Board policy for poster presentations:

All proposals for posters to be presented at the CRCPD Annual Meeting must be submitted to the Poster Review Committee. The Poster Review Committee consists of the following Board members:

- ◆ Past Chairperson: Richard Ratliff (TX), phone 512/834-6679, email: richard.ratliff@dshs.state.tx.us, fax: 512/834-6716
- ◆ Chairperson-Elect: Debra McBaugh (WA), phone: 360/236-3251, email: debra.mcbaugh@doh.wa.gov, fax: 360/786-1730

(Note: In the event that the Past Chairperson and the Chairperson-Elect cannot agree on a proposed poster, the Chairperson, Edgar Bailey, will cast the deciding vote.)

Steps for working group chairpersons seeking financial support to the Annual Meeting for presenting a poster.

1. Prior to February 1, 2005, the chairperson must demonstrate to their council chairperson that significant progress has been made in addressing the working group's assigned charges. The council chairperson will make recommendations to the Board of Directors. The Board will respond by February 1.
2. If approved for financial support, the working group chair person must then submit the poster proposal to the Poster Review Committee for review and approval at least two months prior to the Annual Meeting (February 25, 2005).
3. Poster proposals are to include the concept, ideas, and structure layout.
4. Approval will be made within two weeks of submission. Both the poster presenter and the OED will be notified of the decision.
5. Once approval is received, and at least 30 days prior to the meeting (March 25, 2005), the author is to provide the following information to Curt Hopkins at the OED:
 - a. Table requirements, if any.
 - b. Electrical requirements, if any.
 - c. AV requirements, if any.
 - d. Other special requirements.

Poster presentations (continued)

(Note: CRCPD will provide a poster board and a table, if needed. Other costs such as AV/special needs must be paid by the presenter. For clarification, this includes those persons who are financially supported by the CRCPD to attend the meeting for purposes of presenting a poster.)

Steps for all other individuals desiring to present a poster at the Annual Meeting (but not seeking financial support to the Annual Meeting to present a poster):

1. At least one month prior to the meeting (March 25, 2005), submit the poster proposal to the Poster Review Committee.
2. Refer to steps 3 and 4 above. (Note: If space is available, the Poster Review Committee can approve posters as late as two weeks prior to the meeting, April 11, 2005).
3. Requirements as stipulated in #5 above will need to be provided to Curt Hopkins immediately upon approval, but no later than one week prior to the meeting (April 18, 2005.)



Below is a brief summary of each of the days.

Trip to Washington, D.C.

By Debra McBaugh (WA)
Chairperson-Elect

(continued from page 10)

August 17, 2004: NRC Headquarters

The Organization of Agreement States had their annual briefing with the NRC Commission. As chair and chair-elect of CRCPD, Ed Bailey and I were invited to join them. The full briefing can be found on the NRC website at www.nrc.gov. Look for Public Meetings and then Commission. One of the topics discussed was the NRC proposed rulemaking for Disposition of Solid Materials. As a first step, they are currently proposing to do restricted release for specific uses. Ed and I both indicated this was difficult for states and that we would prefer a rule for unrestricted release. We discussed the value to states of NRC preparing guidance, using lessons learned at facilities, that could be used for release of material on a case-by-case basis. The Commission wanted to know if this would be helpful if an unrestricted rule is not proposed.

August 18, 2004: EPA Headquarters

Many thanks must be given to Mary Clark for setting up a jam-packed, very worthwhile day of meetings with several groups on different topics.

- Deborah Kopsick gave me a briefing of the Clean Materials Pro-

Trip to Washington, D.C.

(continued)

gram activities in 2004. She mentioned the CD they had made for training scrap yard operators. They are now doing one for training demolition contractors with the intention of helping to keep material from getting to scrap yards. The CD will be sent to CRCPD at the end of October and two copies will be sent to each state.

- Carl Pavetto, Ed Tupin, and John MacKinney met with me for a couple hours. We discussed protective action recommendations for RDDs/INDs, PAGs, DHS Response and Recovery document (that may come out soon), and tabletops/drills for testing optimization (if that is what comes out of the document). EPA has an interest in doing several types of tabletops. Three possibilities for them:
 1. Deployable air samplers – do an exercise where they deploy them for real and test the system.
 2. Large exercise with real players at all levels of government who would be making the decisions in recovery phase - Test optimization process.
 3. Smaller version testing optimization. Any group where some are environmental activists, some are business owners, some are “realists,” some are health physicists. Find out if we can come to a decision through the optimization process.
- Meeting with Barnes Johnson, who is the Deputy Director for the Office of Radiation and Indoor Air. The main topic of discussion was the expanded ERAMS, now being called NMS (National Monitoring System). The information learned was passed on to CRCPD’s newly created HS-3 Task Force for Expansion of the EPA Environmental Radiation Ambient Monitoring System.
- Meeting with Bonnie Gitlin and several staff discussing several topics: (I’ll list them in case any readers are working with these folk)

Dan Schultheisz: Low activity waste – disposed in Title C Land fills and portal monitoring systems across the US.

Ben Hull: Environmental Radiation Monitoring Information System (ERMIS).

Trip to Washington, D.C.

(continued)

Reid Rosnick: Alternate uses of phosphogypsum roadbeds, artificial reefs and radon flux standard.

Betsy Forinash: Director Federal Regulations Center – Deals with Yucca and WIPP – Doing the 5-year license renewal for WIPP.

Mike Boyd: Federal Guidance for General Public. They will remove 500 mrem and I think there will be a source limitation number. **(Will go out for public comment September-January sometime)**

Loren Setlow: ORIA - Part N liaison. He mentioned non-concurrence by EPA. He is dealing with implementation of MCL for U and Ra in drinking water.

- Videoconference between the members of the NMS workgroup, including those in the Montgomery, Alabama lab. This information will also be transmitted to the HS-3 Task Force.

August 19, 2004: DOE headquarters

- Meeting with Alan Remick and A.J. Gipson of NNSA. I asked about cytogenetic testing for exposed individuals. DOE is working on getting money for it. They are also working with HHS to get them to support it since it is deemed outside the mission scope for DOE.
- We discussed the need for training first responders and I mentioned our thoughts for a training manual that would cover types of equipment and what they can detect. They have interest and knowledge in this area and offered to provide a resource individual for the task force when we create it.
- I met with Andy Wallo and Steve Domotor of the Office of Environment, Safety and Health. We discussed the work being done by a federal work group on operational guidelines for response and recovery for an RDD/IND. They would very much like CRCPD to provide them with support from the states and local governments perspective in the following areas:
 1. Review the documents/guidance in a part at a time (2 state people could do this)

Trip to Washington, D.C.

(continued)

CRCPD Members Serving on Non-CRCPD Working Groups October 2004

(continued from page 15)

2. Ground truth it by using the method for a scenario in one state or one area
3. A complete technical/implementation peer review

I think this would require an HS-5 task force if we do it. It is worthwhile.

- I was introduced to Andy Wallo's boss, Andrew Lawrence – Deputy Assistant Secretary for Environment, Office of Environment, Safety and Health. Andy wanted him to know the good work CRCPD does.

.....

Alliance for Quality Medical Imaging and Radiation Therapy

Jill Lipoti, New Jersey
Debbie Gilley, Florida
Jennifer Elee, Louisiana

American National Standards Institute (ANSI)

N42.HSI Homeland Security Instrumentation

James Yusko, Pennsylvania

N13. Radiation Protection

Roland Fletcher, Maryland

N43.9 Standard Revision

Mike Henry, Louisiana

N43 Body Scanners

Ed Bailey, California

TC-5 Source Term Release Fractions for Accident Conditions at Nuclear Facilities

Aubrey Godwin, Arizona

Food Drug Administration (FDA)/Center for Devices and Radiological Health FDA/CDRH

Technical Electronic Product Radiation Safety Standards Committee (TEPRSSC)

Jill Lipoti, New Jersey

Federal Radiological Monitoring and Assessment Center (FRMAC) Post Emergency Working Group

Steve Woods, California (CRCPD's E-6 Chairperson)

TEG

Aubrey Godwin, Arizona

Health Physics Society

Ruth McBurney, Texas, President-Elect

**Non-CRCPD
Working Groups**
(continued)

Interagency Steering Committee on Radiation Standards (ISCORS)

Cleanup Subcommittee

Debra McBaugh, Washington

Mixed Waste Subcommittee

Paul Merges, New York

NORM Subcommittee

Walter Cofer, Florida

Recycle Subcommittee

Steve Collins, Illinois

Risk Harmonization Subcommittee

Jill Lipoti, New Jersey

Sewage Sludge Subcommittee

Jenny Goodman, New Jersey

National Council on Radiation Protection and Measurements (NCRP)

NCRP Board

Jill Lipoti, New Jersey

**Scientific Committee 1-14, Public Dose Limits for Ionizing
Radiation**

Ed Bailey, California

Nuclear Regulatory Commission (NRC)

10 CFR 40.13(a) and 40.22

Jurisdiction/Source Material

Ken Weaver, Colorado

Part 40 Rulemaking Activity

Steve Collins, Illinois

Advisory Committee on the Medical Uses of Isotopes (ACMUI)

Ed Bailey, California

Assured Isolation

Bob Owen, Ohio

Susan Jablonski, Texas

Control of Solid Materials

Kathleen McAllister, Massachusetts (Guidance)

Debra McBaugh, Washington (Guidance)

Alice Rogers, Texas

Michael Whalen, Massachusetts (EIS)

Control of Solid Materials Steering Committee

Steve Collins, Illinois

IMPEP Non-Common Performance Indicators

Sealed Source and Device Evaluation

Joe Klinger, Illinois

**Non-CRCPD
Working Groups**
(continued)

Low-Level Radioactive Waste Disposal

Dane Finerfrock, Utah

Uranium Recovery Program

Ken Weaver, Colorado

Materials Security Working Group

Barbara Hamrick, California, Co-chairperson

Julia Schmitt, Nebraska

Materials Security Steering Committee

Cindy Cardwell, Texas

Pearce O'Kelley, South Carolina, Co-chairperson

**National Materials Pilot Program, Pilot No. 1 – Materials Program
Priorities**

Ruth McBurney, Texas, Co-chair

Robert Walker, Massachusetts

**National Materials Pilot Program, Pilot No. 2 – National
Radiographer Certification**

Jan Endahl, Texas, Chair

Lauren Palmer, Georgia

David Turberville, Alabama

**National Materials Pilot Program, Pilot No. 3 – Operating
Experience Evaluation**

Marcia Howard, Ohio, Co-chairperson

**National Materials Pilot Program, Pilot No. 4 – State
Guidance Development**

Bob Gallagher, Massachusetts, Chair

Debbie Gilley, Florida

Eric Jameson, Georgia

**National Materials Pilot Program, Pilot No. 5 – Revised
Materials Inspection Program (Revision to IMC 2800)**

Writing Team

Robert Gallagher, Massachusetts

Pink/Red Team

James Peterson, South Carolina

National Source Tracking

David Fogle, Texas

National Source Tracking Steering Committee

Edward Wilds, Connecticut

Jared Thompson, Arkansas

Interagency Coordinating Committee

Ed Bailey, California

Non-CRCPD Working Groups (continued)

Organization of Agreement States History

Shawn Seeley, Maine, Chairperson
Aubrey Godwin, Arizona
Terry Frazee, Washington
Stan Marshall, Nevada (Advisor)

Part 35 Training and Experience

David Walter, Alabama

Parts 30, 31, and 32 Rule

Ken Weaver, Colorado

Transshipment Security

Earl Fordham, Washington
Jill Lipoti, New Jersey

Web-based Licensing Steering Committee

Mike Stephens, Florida

Society of Nuclear Medicine (SNM) Commission on Radiopharmaceuticals

Debbie Gilley, Florida (CRCPD H-28 Liaison - Society of Nuclear Medicine (SNM)/Society of Nuclear Medicine Technologists Section (SNMSTS))



Karst meeting (continued from page 13)

E-25 Committee on Radon viewpoint

By Adrian Howe, Chairperson, E-25 Committee on Radon

On September 15 and 16 members of CRCPD's E-25 Committee on Radon participated in the EPA Region 4 Radon Karst Areas Stakeholders Meeting in Atlanta, Georgia. Participating on behalf of the CRCPD's E-25 Committee on Radon were Adrian Howe (NV), Committee Chair, and committee members Mike Gilley, (FL) and Bill Bell (MA). Also in attendance were the CRCPD Executive Director, EPA Region IV staff, EPA OAR headquarters staff, radon measurement and mitigation industry representatives, real estate industry representatives and state radon program staff from Alabama, Kentucky and Tennessee.

Karst geology results in significant fluctuations in radon concentrations that result in many false negatives in short-term testing results. As the EPA action level of 4 pCi/l is based upon an annual average this can result in improper mitigation decisions especially in measurements done for real estate transactions. EPA Region

Karst meeting (continued)

4 has had a State Indoor Radon Grant (SIRG) condition on the States of Alabama, Kentucky and Tennessee that required those state radon programs to work with their state geologists to identify specific karst areas where 12-month radon testing should be recommended. This condition has resulted in some confusion and the meeting was intended to produce a consensus on testing methods in identified karst areas.

During the course of the meeting it became evident that the issue is wide spread as karst areas exist in more than just the three EPA Region IV states and there are probably other anomalies that would result in similar conditions such as in structures built above underground mining operations and other geologic formations. In addition to the concerns of false negatives in short-term measurements, the group had concerns that 12-month testing would result in reduced testing among homeowners and have a negative impact on real estate transactions. It was noted during the meeting that the EPA publication *A Citizen's Guide to Radon* has a weakness in the language that recommends 12-month and follow-up testing and, in light of karst and variability anomalies existing in other areas of the United States, this language should be reviewed and changed to encourage 12-month testing while not discouraging short-term testing. It was also noted that there are discrepancies between the EPA's *A Citizen's Guide to Radon* and *Consumer's Guide to Radon Reduction*. To eliminate the discrepancies and to address concerns about false negative results of short-term testing while not discouraging short term testing, at the urging of EPA, the E-25 Committee on Radon committed to review the *A Citizen's Guide to Radon*, the *Consumer's Guide to Radon Reduction* and the *Home Buyer's and Seller's Guide to Radon* for language change recommendations.

A consensus was reached by the group on language for the EPA Region 4 SIRG condition to the States of Alabama, Kentucky and Tennessee. The condition language indicates that the three states are expected to work with their state geologists to identify specific areas where 12-month testing recommendations should be made and establishes the guidance that will be provided to persons performing testing in those areas. The guidance provides for 12-month testing and mitigation recommendations, recommends 12-month follow-up testing even when short-term tests indicate indoor radon levels below 4 pCi/l, provides for 12-month post mitigation testing and recommends periodic retesting for mitigated, unmitigated and newly renovated structures (to account for continually changing subsurface formations).

Karst meeting

(continued)

The E-25 Committee on Radon appreciated the opportunity to participate in this meeting to stay advised and provide comment on important issues faced by state radon programs in the public health and safety efforts to deal with radon.

Alabama viewpoint

By James McNees, Radon Coordinator

Dating back to the FY '01 SIRG grants, EPA Region 4 has placed a "karst" condition on the SIRG grants of the states of Alabama, Tennessee, and Kentucky. A karst area is defined as areas under-laid by carbonate rock containing solution cavities. This special condition essentially restricted the state to only recommending year-long tests for radon testing in karst areas based upon the annual average indoor radon concentration. The FY '02 and FY '03 SIRG grant karst conditions states that short-term radon testing should be discouraged in karst areas.

Alabama's good faith efforts to implement the karst conditions revealed that the citizenry was much less inclined to perform a test that required a full year to complete than a short-term test. The medicine, year-long tests, did cure the problem of seasonal variability. However, the medicine's side effect of reduced public acceptance of radon testing resulted in the medicine causing more harm than benefit.

The September 15 and 16, 2004 Atlanta meeting was the culmination of requests from the radon industry, the state of Alabama, and others to review and revise the "karst" condition. The focus of the meeting was to achieve a methodology to address the karst induced seasonal variability problem in a way that would not be inimical to voluntary radon testing by the public or radon testing in real estate transactions. Under the leadership of Ms. Beverly Banister [Director, Air, Pesticides & Toxics Management Division, Environmental Protection Agency, Region 4], significant progress was made towards achievement of that goal.

Kentucky viewpoint

By Ed Lohr

The EPA Region 4 sponsored karst – radon stakeholders' meeting was presented to bring the interested parties together to help improve implementation strategies in the three affected states, Kentucky, Tennessee, and Alabama. At least that is what was on the agenda. The meeting turned out to be a history lesson of how we got to where we are at, a forum for complaints from various attend-

Karst meeting
(continued)

ees, and a work session on what the EPA SIRG conditions should read for fiscal year 2004-05 to the three affected states.

Attendees from Kentucky included the State Radon Coordinator, the University of Kentucky Radon Extension Associate, and representatives from the Kentucky Association of Realtors and Kentucky Association of Home Inspectors.

Because short-term radon tests are not a good indicator of what the year round average is in karst areas of the effected states, year-long tests are recommended. Each effected state, utilizing their state’s geologist, identified areas of karst geology in their respective states. Ninety-two of Kentucky’s 120 counties were identified as being in areas of karst. Louisville, Lexington, and Bowling Green, the 3 larges metropolitan areas in Kentucky, are in these karst areas. This is a major challenge to the Kentucky Radon Program but is being addressed with some success.

Although the Atlanta meeting did not contribute to implementation strategies as hoped, it did bring more of a focus on the karst issue in the region. Avenues of communications were revisited and the participants seemed to be satisfied with the wording that will be in the effected states SIRG documents. Kentucky will continue to cooperate with all stakeholders and move this important public health issue forward.

