



Conference of Radiation Control Program Directors, Inc.

NEWSBRIEF

August 2003

CRCPD's Mission: A Partnership Dedicated to Radiation Protection

Message from Chairperson Richard Ratliff



The hot days of summer are upon most of us and with budget issues still being debated in many states and at the U.S. Congress, many of us will have delayed vacations this summer. However, our efforts to protect this great country of ours from

terrorists continues as a priority for all of our radiation control programs.

Pearce O'Kelly, Chairperson of the Organization of Agreement States (OAS), and I briefed staff from the Homeland Security Council

(HSC) and the Department of Homeland Security (DHS) in June on state concerns and issues in the federal efforts to prevent terrorists from obtaining and using radioactive material in a "dirty bomb" or as we now call them, Radiological Dispersion Devices (RDDs).

I presented a brief history of the CRCPD and provided the four representatives each with a copy of the latest CRCPD "Directory of Personnel Responsible for Radiological Health Programs." The representatives from both HSC and DHS were surprised that there was such an organized and cooperative effort of state radiation control programs. I presented the following state concerns and issues to the group:

1. State radiation control programs and their staff are among the first health physicist re-

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Chairperson's
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sponders to radiological incidents, accidents, or terrorist events involving radioactive material in their states and would oversee the control and cleanup of affected sites.

2. State radiation control program directors desire coordination and interaction with the HSC and the DHS on radiological terrorism issues.

3. State radiation control programs regulate a broader spectrum of radioactive sources than any federal agency. States regulate naturally occurring and accelerator produced material (NARM), x-ray machines, lasers and other non-ionizing sources of radiation. One concern of the states is that radium 226 sources that are not regulated by the U.S. Nuclear Regulatory Commission (NRC) could be a significant hazard in the hands of a terrorist.

4. Many states that have U.S. Department of Energy (DOE) facilities perform environmental monitoring, emergency response planning, and full scale emergency response exercises at these sites. These states have staff that have both "Q" and "L" security clearances to allow these activities. Therefore, many state radiation control programs currently are properly receiving and controlling secure materials, making coordination with HSC and DHS even more important and necessary.

5. State radiation control programs perform a vital function in monitoring radioactive materials in the air and water from fallout as primary monitors in the EPA's "Environmental Radiation Ambient Monitoring System."

6. In states that have operating nuclear power plants, the state radiation control program is usually the lead agency for emergency response planning, exercising, and response to any off site releases of radioactive material in actual accidents.

7. There are state-to-state agreements that further enhance the state programs ability to respond to radiological accidents and terrorist threats. One such plan is the "Southern Mutual Radiological Assistance Plan" (SMRAP) that provides a mechanism for coordinating radiological emergency assistance capabilities among participating states. SMRAP is authorized under provisions of the Southern Agreement for Mutual State Radiological Assistance. The authority for entering this agreement is provided by Public Law 87-563, which grants U.S. Congressional approval of the Southern Interstate Nuclear Compact.

Chairperson's
message
(continued)

8. The Conference of Radiation Control Program Directors membership, at its annual meeting in May 2003, passed a resolution relating to security of radioactive materials. The resolution recommends:

a) That a joint effort be undertaken, integrating the activities of the state radiation control programs, the DHS, the NRC, the Federal Bureau of Investigation, and other federal, state, and local resources to create and maintain a comprehensive security system to protect the public health from unnecessary exposure to radiation, and

b) That serious consideration be given by the NRC in providing a mechanism for states to assume responsibility for monitoring facility compliance with security requirements, if the state so desires, under a National Materials Program.

9. The states hope to assist in solving the lack of coordination of radiological issues that remains among federal and state agencies that are involved in radiological security issues. The CRCPD Board, at its May meeting, created a new Council on Homeland Security to facilitate state participation.

10 Finally, the states would welcome the opportunity for advanced training available to enhance the entire national radiological protection efforts.

On June 17th and 18th, radiation control program directors from all fifty states and the two territories were invited to participate in the first NRC/DHS "Homeland Security Outreach Workshop." The NRC state liaison officers and the state homeland security governor liaisons were also in attendance. This meeting produced lively discussions of many security issues and allowed new friendships and networks to be formed. I believe that the DHS now has an even better appreciation for the expertise and quality of state radiation control programs and this will allow better communication in the future.

Wisconsin the 33rd Agreement State

Congratulations to Paul Schmidt and his staff in Wisconsin as they become the 33rd Agreement State this month! We are pleased that all their hard work and persistence has finally paid off.

Speaking of agreement states, I also congratulate the OAS, which officially became incorporated on the 13th of June.

The annual OAS/CRCPD briefing of the NRC Commissioners will be

Chairperson's message (continued)

held on September 10, 2003.

Finally, I thank Greta Dicus for all her support for the states and CRCPD. Greta's second term as an NRC Commissioner expired the end of June. Roland Fletcher (MD) presented Greta a resolution expressing our gratitude for her service at her retirement party held at NRC headquarters on June 20, 2003. A copy of the complete resolution can be viewed on the Web at <www.crcpd.org>.

God bless you all,
Richard



Frankfort 'Fil's sidekick

By Ron Fraass (OED)
Executive Director



On the making of lists

Like many of you, I make lists. My current list of great ideas for CRCPD come from you who are members, advisors, resource persons, liaisons, and OED staff. Not every idea makes this list—some are just soooo good that they are immediately implemented. Not counting those, I have 117 action items currently on my list. Eighteen at the top have been completed and the rest are in several rough timeline groupings. Some of these may take years to implement even though they are valuable ideas. Others will never be implemented because, although they seem to be promising, on reflection they did not produce enough benefits to offset costs in volunteer and staff time.

Please keep suggesting more great ideas! At the same time, bring up some of your "old" great ideas for your own programs. Maybe the time is ripe to renew interest in those program changes that you recognized as valuable several years ago. A "no" from several years ago is not necessarily still a "no" today. Getting ideas implemented can take years of sustained effort. Improvements in radiation emergency response capabilities within your program and your interactions with other local, state, and federal agencies make it easier for CRCPD to demonstrate overall state capabilities to decision makers. Your Chair, Board, several committees, and I are working with numerous federal agencies to improve recognition, by those concerned with radiological terrorism, of state radiation control technical expertise in dealing with radiation incidents.

One unique item that has been marked "done" is recognition by the International Atomic Energy Agency (IAEA) as a Non-Governmental Organization (NGO). CRCPD has been invited to send an official observer to the 47th Regular Session of the IAEA General Confer-

Frankfort 'Fil's sidekick (continued)

ence. Because our Chair, Richard Ratliff has pressing state duties during the Conference, he asked me to represent the organization. I will provide a report on the Conference in the October issue of the *Newsbrief*.

This has been a learning year for me as your Executive Director. I have learned from you and the staff about our organization and about your varied responsibilities in radiation protection. Our mutual goals are to reduce unnecessary risk from radiation while permitting its beneficial uses. I believe we are succeeding. Thank you for your great ideas and hard work.



Frankfort 'Fil

By Paul Merges, Ph.D.
Retired

"Speaking of those "enlightened" views of the risk due to low doses of radiation, half of the lies our opponents tell about us are not true!"



The adventures of **Frankfort 'Fil**—
world's only radiation forecasting groundhog



Call for papers for 2004 Annual Meeting

By Patricia Gorman (OED)
Administrative Officer

Requirements modified and deadline extended to October 1st

Cindy Cardwell, Chairperson of this year's Technical Planning Committee (TPC), obtained approval of the Board to institute a change in the requirements for expressing interest in presenting a paper at the 2004 annual meeting in Bloomington, Minnesota. The Board believes that abstracts should only be required if a paper is chosen for the technical program. Therefore, anyone interested in being on the program must submit the title of the proposed paper along with 2-3 sentences that describes the content. A person may certainly submit an abstract if it is already written. If an abstract is not received by date certain, the slot will be filled by another topic that is being held in reserve. Please note: *Individuals who have expressed an interest will not be considered unless they have provided a title and the short description to OED by October 1st.*





**Larry Lloyd
(MT)
Member-at-Large
1983-1986**

Past Board Member

After retiring from the Montana State Department of Health and Environmental Sciences in July of 1990, I worked as a consultant for an environmental clean up company for about a year and a half. After I completed the project that I was working on, further association with the company would have required substantial out-of-state work which I didn't want – so ended my consulting.

Darlene and I are still living in Helena as does our son, Bill, and his wife Miki and their two children, Brent (5) and Kaci (3 ½). We spend as much time as possible with them and I also try to get their two Laboradors out for a walk or swimming several times a week.

Our daughter, Suzy, is a CPA and works for Price Waterhouse Cooper in Seattle. We generally make a couple of trips a year to Seattle to visit with her.

We also travel quite a bit. We have a 5th wheel trailer that we take south in the winter. We have explored wintering locations all the way from San Diego to Miami, and finally settled on going to Harlingen, Texas, for the past seven winters. As we have developed our “winter family” down there we will probably continue going there for a few more winters.

My love for fishing has never diminished – I generally go to Neah Bay, WA for a couple of weeks in May for halibut fishing and then again for another couple of weeks in July or August to fish for salmon. This year my fishing was interrupted as I had an aortic valve replacement and a by-pass on May 20th. I am doing well but still running a little slow!

October and November is generally my time for hunting deer and elk. I have found that the hills are getting steeper and that I can't get around the mountains like I used to. Maybe this valve replacement and by-pass is just the tune up that I needed to get going again!

Our son and his wife built a new house two years ago and they have kept me busy on numerous projects such as wiring, plumbing, finish carpentry, painting, and installing ceramic tile and other flooring. The neighbors also call on me for help with their household problems (all free help of course!).

All in all, retirement has been great and it has given me more time to spend with my family, to travel and to pursue my numerous interests and hobbies. The down side of retirement has been the loss of

Past Board member (continued)

association with my working associates here in Montana and probably most of all, my loss of interaction with the CRCPD and my many friends within the organization.

Best wishes,

Larry Lloyd, 1812 Virginia Dale, Helena, MT 59601



ANS and DHS Meeting

By Ron Fraass (OED)
Executive Director

The American Nuclear Society (ANS), with funding from the Department of Homeland Security (DHS), sponsored a meeting on the general topic of communication of risk following a terrorist use of a radioactive dispersal device (RDD). The ANS/DHS Workshop, "The Scientific Base for Risk Communication About Radiological Dispersion Devices" was held in San Diego on June 6th following the ANS annual meeting. CRCPD was asked to participate and I attended at ANS expense. The meeting provided an excellent opportunity for several of us in the scientific community to help staff members of DHS and a senior DOE staff member better understand the issues surrounding RDDs.

ANS will provide a white paper to DHS on the topic within a few months. Communication and the scientific basis for communication in these types of events requiring federal assistance are the main focus of the white paper. The paper makes recommendations for basic communications resources, delineating questions, and actions that would result in effective national communications and effective support for local systems communications before an event occurs, immediately after an event occurs, and through change and recovery. If the report is made public, we will provide it on our web site. The first draft was quite long, but contained excellent material on communicating risk to the public.



Obituary

William H. "Bill" Spell passed from this life on August 8, 2003 following a long illness. Bill had been an active CRCPD member for many years. He was CRCPD Chairperson from 1989-90 and former Louisiana Director Member. He was active on working groups and strongly supported his staff being involved in CRCPD as well. Although he had been retired for many years, he remained a faithful supporter and friend of CRCPD. Our deepest sympathy is extended to his beloved spouse of many years, Barbara, their family, and many friends. Bill's funeral was held at the Rabenhorst Funeral Home in Baton Rouge, Louisiana on August 11th. Expressions of sympathy can be sent to Barbara and family at 3528 Westervelt Drive, Baton Rouge, LA 70820-5054.



State recognition

By Patricia Gorman (OED)
Administrative Officer

On Tuesday, July 22, 2003, Governor Mike Huckabee presented the Radiation Control and Emergency Management (RCEM) Program of the Arkansas Department of Health, with a plaque from CRCPD and the OAS, recognizing the State of Arkansas for 42 years of service as a state radiation control program and 40 years of service as a Nuclear Regulatory Commission Agreement State. The Radiation Control Program was also recognized for their strong commitment of excellence to protect the public and the environment from unnecessary radiation exposure, and for their valuable partnership with federal agencies.



From left to right: Jonathan Bibb-Mammography Team Leader, William Kelley-X-Ray Program Leader, Jared Thompson-Radioactive Materials Program Leader, Governor Mike Huckabee, Bernard Bevill-Radiation Control & Emergency Management Work Unit Leader, Dr. Fay Boozeman-Director, Arkansas Department of Health.



Terry Devine, Ph.D.

By Patricia Gorman (OED)
Administrative Officer



Dr. Devine has been employed with OED as General Radiation Technical Assistant since 1986. Terry is responsible for all "General Health Physics" activities of CRCPD. This includes management of the CRCPD "National Orphan Radioactive Material Disposition Program," review and comment on technical documents (i.e. the SSRCRs), the DOT exemptions for scrap and trash, and coordination of all comprehensive reviews of state programs. Terry also updates annually the "Directory of State Agencies Involved in Transportation of Radioactive Material." In addition, he also maintains information beneficial to the radiation protection community. Examples are: Contacts for radiological assistance with incidents, Web sites for radiation control program fees, a listing of laboratory and measurement equipment resources available to states, radioactive waste brokers and processors, disposal facilities, etc.

If you need assistance or have information to share, give him a call at 502/227-4543 ext. 2223, email <tdevine@crcpd.org>.



Federal Radiological Monitoring and Assessment Center (FRMAC) Laboratory Analysis Work Group Meeting Report

By Stephen Woods (CA)
Chairperson of E-6 Committee

Kurt Jackson, an advisor to the CRCPD Committee on Emergency Response Planning (E-6) recently attended a FRMAC Laboratory Analysis Work Group (LAWG) Meeting and a FRMAC training drill **held in Las Vegas, Nevada on June 24-27, 2003**. The main focus of the LAWG meeting was review and resolution of comments received on the draft FRMAC analysis manual. This manual covers sample receipt, sample management and laboratory analysis management. This manual has undergone major changes since the previous version, so discussion and resolution of the comments took the majority of the allotted meeting time. The manual is due to DOE by the end of the fiscal year and should be posted on the web site during the first quarter of FY04.

FRMAC requirements for a laboratory information management system were the second focus area of the meeting. A FRMAC contractor presented his evaluation of existing commercial LIMS systems relative to the draft requirements. A LIMS system is needed to improve management of samples and analysis results by FRMAC. It will likely be purchased and installed in the next few months.

Following the LAWG meeting, a FRMAC training drill tested FRMAC set-up and response to a specific scenario. This training drill was a milestone for FRMAC internal training, but it also provided an excellent opportunity for LAWG members to observe FRMAC set-up and overall operations during a drill. More specifically for E-6, it allowed a better understanding of the existing FRMAC request tracking system which tracks requests to FRMAC, including those coming from outside FRMAC, such as requests from state or local agencies. During the set-up of the FRMAC work area for sample receipt, LAWG members were able to discuss details regarding use of FRMAC forms with FRMAC staff. Some minor problems with the forms were noted.

During discussions outside the meeting, it was noted that DOE is proceeding with its mobile laboratory redesign plan and has received some components for the first of the new modular mobile laboratories. Two mobile labs are projected, with one providing geographical coverage for the eastern part of the U.S. and a second one for the western part of the U.S.

It was also noted that DOE has web-based training related to emergency response available at their Emergency Operations Training Academy (EOTA) Web site, which may be found at: <http://www.eota.doe.gov/Training/index.asp>.

According to the EOTA web site, any federal, state, local, or tribal government, and contractors with a need to train emergency operations personnel may use the EOTA learning management system (LMS).

FRMAC (continued)

Cesium 137 in scrap load

By Ray Turner
The David J. Joseph Company

If you have any questions concerning the FRMAC Assessment Work Group activities, please contact Stephen Woods, Chairperson of E-6, at (916) 327-5862 or via email at <swoods1@dhs.ca.gov>.



Recent tests using Cs137 sources buried at varying distances in truckloads of not-so-dense scrap metal show that beyond short distances the Cs is undetectable.

A 15 mCi Cs137 source was used for the test. When the Cs was moved more than 22 inches, in most cases, it became impossible to detect using large volume plastic scintillation systems.

Similarly, in an actual event, a truckload of scrap metal reached a steel mill and tripped the large volume detector. The background radiation levels were at 15uR/hr and the highest reading outside the truck was 17uR/hr. While this seemed like an over-reaction to a very sensitive system, a consultant was summoned to the site. After surveying all the scrap in the load, he found not one, but two Cs137 devices inside the load. One was emitting 75mR/hr while the other emitted 125mR/hr.

These lessons learned serve as a reminder that, when a large volume system detects radiation, just because there is little radiation detected outside the vehicle, no assumptions should be made other than there is radioactive material in the load.

Additionally, since the advent of NORM regulations exempting oil and gas NORM, there is an increasing number of railroad cars that are becoming contaminated with Ra226 as it sifts in small amounts to the bottoms of the railroad cars. Eventually, the build-up reaches the point that it trips detection systems, even at low levels. Some state radiation control officials are becoming increasingly aggravated with such trivial levels of radiation that ends up coming from the dirt. The general consensus is that the systems are overly sensitive. Given the limitations of currently installed large volume systems, coupled with a single accidental melting of an orphaned source in a steel mill, it is very easily understood why steel mills and recyclers must take every precaution necessary to prevent multi-million dollar contaminating events.



OAS Incorporates

By Ken Weaver (CO)

The Organization of Agreement States incorporation papers were signed June 6, 2003. Signers were Pearce O'Kelley, Chairperson (SC), and Stan Fitch (NM), Chairperson-elect, who led the incorporation committee.



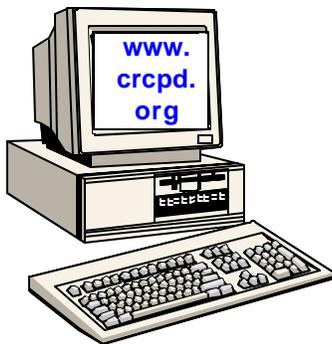
Stan Fitch (NM) left, and Pearce O'Kelley (SC) right, sign the OAS incorporation papers.

The official Certificate of Incorporation was issued July 10, 2003. By January 8, 2003, all of the then 32 Agreement States had ratified the OAS By-Laws.



What's new on the CRCPD Web site

By Lin Carigan (OED)
Technical Assistant-Mammography
and CRCPD Web Designer



As always, most of the recent additions to the CRCPD Web site are identified under What's New. Additions and changes to our Web site that have not appeared in the *Newsbrief* include:

1. The third edition of *Accreditation Criteria for Calibration Laboratories* has been published directly to the Web. This document can be accessed at menu item "Free Documents," and at menu item "Publications / Technical / Measurement and Calibration." Under "Free Documents / Commercial Services," several documents have been updated: Radioactive Waste Broker & Processor Services, Radioassay and Toxic Chemical Leach Test Services, Some Providers of Radioactive Site Investigation and Decontamination, and Outlets for Tritium (this document was previously named Contacts for Return of H-3 Devices to Manufacturers).
2. "Homeland Security" has been added as a main menu item. This is a resource for links, such as to CDC Bioterrorism Information, NRC actions to safeguard radioactive material and information on radioactive dispersal devices, the FBI, the Department of Justice, the Department of Homeland Security, the FRMAC Assessment Manual.

What's new (continued)

3. Another new main menu item is "General Information Re Radiation." This is a list of links prescreened by CRCPD's Committee on Public Information. This information previously was accessed only through "Links / Radiation Information for the Public," so it should be easier to find now.

4. On the "Radon" page, the announcement, agenda, and registration form for the Thirteenth National Radon Meeting have been posted. This information is also available under "Meetings & Workshops." Highlighting State Radon Program Activities has been added as a new feature; a link to EPA's Radon-Specific Publications and Resources page was added; and the new *Radon Bulletin* has been posted. The *Radon Bulletin's* format has been changed to a dynamic newsletter that is updated frequently.

5. Under "Secure Sites / Members Only," Board Actions for May and June 2003 were posted, as well as the May 2003 CDRH and NRC Liaison Reports to the Board and CRCPD's March 2003 Progress Report to EPA covering 1997-2002. Under "Secure Sites / Regulatory Forum," additional budget information has been added and the menu listing was renamed to better describe the contents.



Wanted: Keithley 36100 ratemeters

By Mike Odlaug (WA)

Any state who has excess or unwanted Keithley 36100 ratemeters please call Mike Odlaug at 360/236-3237 if you would like to sell them. I understand from Cardinal Health (the current company name for what used to be Victoreen and Nuclear Associates and Keithley and Inovision) that they no longer sell, service or repair those instruments since they are out of production and no parts are available. Yet we use what we have and like them alot, so I would like to get some additional ones to keep us going.





Membership Updates

- Associate - Cole, Shelley (CA)
Mills, Grant T. (NC)
Moore, Julie (CA)
- Affiliate - Benuosvich, Mariya (CA)
Richardt, Kelley (LA)

Directory Changes

- Page 13 - CT - insert web site: <http://www.dep.state.ct.us>; Delete Arlene LeMay and insert Arlene Barile, e-mail: <arlene.barile@po.state.ct.us>; delete Tho Tran and insert vacant; delete Frank Homiski and insert Xaviel Soto, Department of Public Health, 410 Capitol Avenue, Hartford, CT 06134 (*Radon Contact*), phone: 860/509-7367, fax: 860/509-7378, e-mail: <xaviel.soto@po.state.ct.us>
- Page 24 - IL - change to: Illinois Emergency Management Agency, Division of Nuclear Safety. Insert new e-mail addresses for the following individuals: Gary Wright <wright@iema.state.il.us>; Paul Eastvold <eastvold+@iema.state.il.us>; Steve Collins <collins@iema.state.il.us>; Kathy Allen <k_allen@iema.state.il.us>; Joe Klinger <klinger@iema.state.il.us>; Tom Seif <seif@iema.state.il.us> and insert new phone number: 217/786-1787; Paul H. Brown <brown@iema.state.il.us>; Don Agnew <agnew@iema.state.il.us>; Richard Allen <r_allen@iema.state.il.us>; Robert Lommler <lommler@iema.state.il.us>. Delete John Q. Hall in its entirety.
- Page 30 - LA - Has moved, insert the following new address, phone, fax, and e-mail address for those individuals indicated below: P. O. Box 4313, Baton Rouge, LA 70821-4313, delivery/visitor address: 602 N. 5th Street, Baton Rouge, LA 70802: Michael E. Henry: phone: 225/219-3005, fax: 225/219-3156, new e-mail: <m_henry@ldeq.org>; Ronnie Wascom: phone: 225/219-3241, fax: 225/219-3310, e-mail: <ronw@ldeq.org> Michael Vince: phone: 225/219-3010, fax: 225/219-3155, e-mail: <mikev@ldeq.org>; Chris Roberie: phone: 225/219-3615, fax: 225/219-3695, e-mail: <chris@ldeq.org>; Prosanta Chowdhury: new phone: 225/219-3618, fax: 225/219-3696, e-mail: <prosanta_c@ldeq.org>; Joe Noble: phone: 225/219-3643, fax: 225/219-4044, e-mail: <joseph_n@ldeq.org>; Steven R. Aguilard: phone: 225/219-3718, fax: 225/219-3709, e-mail: <steven_a@ldeq.org>. Insert new e-mail address: Jennifer Elee <jennifer_e@ldeq.org>, insert new e-mail address: Louis Johnson <louisj@ldeq.org>, insert new e-mail address: John M. Schlenker <matt_s@ldeq.org>.
- Page 35 - MA - Insert new Emergency Phone: 617/427-2913; Robert J. Walker insert new phone: 617/427-2944, insert new fax: 617/427-2925; insert new phone (617/427-2944) and fax (617/427-2925) for the following individuals: Salifu Dakubu, Karen Farris, Jeanne Broderick, Tony Carpenito, Joe Chadorowsky, J. Thomas Coulombe, Joshau Daehler, Margaret Foster,

Directory changes (continued)

- Robert Gallagher, Lawrence B. Harrington, Mario Iannaccone, Stephen Larson, Thomas J. Matthews, Kathleen McAllister, Michael McNally, Bruce Packard, Agostino J. Savastano, John Sumares, Kenath Traegde, Marie Ward, and Michael Whalen. Thomas O'Connell insert new e-mail: <thomas.f.o'connell@state.ma.us>
- Page 49 - NM - Margaret Roybal insert new e-mail <margaret_roybal @nmenv.state.nm.us>
- Page 50 - NY - Delete Maryanne Harvey and insert vacant.
- Page 50 - NY - Delete Paul J. Merges it is entirety.
- Page 67 - RI - Carol Horibin delete and insert Carol Fortin; e-mail: <carolf@doh.state.ri.us>
- Page 75 - UT - Delete William Sinclair and insert Craig Jones, Acting Director, phone: 801/536-4264, e-mail: <cwjone@utah.gov>
- Page 76 - UT - Delete Clark Clements
- Page 81 - WV - Delete Nancy Godby and insert vacant.
- Page 83 - WY - Dewey Long insert new address: 2300 Capital Avenue, Hathaway Bldg., Room 482, Cheyenne, WY 82002.
- Page 90 - EPA: Delete vacant and insert Barnes Johnson; e-mail: johnson.barnes@epa.gov; insert Tom Kelly, Director, Indoor Environments Division (MC 6609J); phone: 202/564-9370; e-mail <kelly.tom@epa.gov>
- Page 96 - EPA, Region 10, delete Jerry Leitch and insert vacant.
- Page 102 - FDA, ORA, Winchester Engineering and Analytical Center: Delete James W. Fitzgerald and insert Martin J. Finkelson, Director, Ext. 749; e-mail: <Mfinkels@ora.fda.gov>; insert Pamela Mackill, Analytical Branch Director, phone: 781/729-5700, Ext. 748; e-mail: <Pmackill@ora.fda.gov>; Edmond J. Baratta insert new e-mail: <Ebaratta@ora.fda.gov>; Delete Nancy L. B. Sullivan and insert James Cherniack, Assistant Radiation Officer, phone: 781/729-5700, Ext. 713; e-mail: <Jchernia@ora.fda.gov>; Delete Alvis Jordans and insert Laurence D. Coyne, Engineering Branch Director, phone: 781/729-5700, Ext. 761; e-mail: <Lcoyne@ora.fda.gov>; Insert Joseph S. Matrisciano, Jr., Device Performance Section Supervisor (X-Ray system analysis), phone: 781/729-5700, Ext. 736; e-mail: <Jmatrisc@ora.fda.gov>; Jane E. Driscoll insert Metrology Section Supervisor (*Analysis for all other electronic products; inspections*), Ext. 716; e-mail: Jdriscol@ora.fda.gov
- Page 115 - Canada - Radiation Authority in Canada: insert Phillip Eyre, Transportation Engineer, Packaging and Transportation Licensing Division, phone: 613/995-6620, fax: 613/943-1004, e-mail: <eyrep@cnsccs.gc.ca>



CRCPD Board of Directors

Board position	Name	State	Work Phone	Email address
Chairperson.....	Richard Ratliff	Texas.....	(512) 834-6679 ..	richard.ratliff@tdh.state.tx.us
Chairperson-Elect....	Edgar Bailey.....	California.....	(916) 322-3482 ..	ebailey@dhs.ca.gov
Past Chairperson.....	Cynthia C. Cardwell	Texas.....	(512) 834-6688 ..	cindy.cardwell@tdh.state.tx.us
Treasurer	Terry C. Frazee	Washington.....	(360) 236-3221 ..	terry.frazee@doh.wa.gov
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:

- CDC Centers for Disease Control and Prevention
- CDRH FDA’s Center for Devices and Radiological Health
- DOE Department of Energy
- DOT Department of Transportation
- DOD Department of Defense
- DOJ Department of Justice
- EMF electric and magnetic fields
- EPA Environmental Protection Agency
- DHS Department of Homeland Security
- FBI Federal Bureau of Investigation
- FDA Food and Drug Administration
- FEMA Federal Emergency Management Agency
- FRMAC Federal Radiological Monitoring and Assessment Center
- HHS Department of Health and Human Services
- MQSA Mammography Quality Standards Act of 1992
- NEXT Nationwide Evaluation of X-Ray Trends
- NIST National Institute of Standards and Technology
- NRC Nuclear Regulatory Commission
- OED CRCPD’s Office of Executive Director
- ORA FDA’s Office of Regulatory Affairs
- SSR/SSRCR ... Suggested State Regulations for Control of Radiation
- USDA U.S. Department of Agriculture

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