



Conference of Radiation Control Program Directors, Inc.

NEWSBRIEF

April 2002

CRCPD's Mission: A Partnership Dedicated to Radiation Protection

Message from Chairperson Paul J. Merges, Ph.D.

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Hi CRCPDers:

Warm greetings from your Chairperson on the eve of our Annual Meeting. All looks well for a very exciting and informative meeting in a beautiful area of our Nation, Wisconsin. In spite of statements that our emphasis is "terrorist training" at this year's meeting, we really are presenting an "anti-terrorist" program. As CRCPD's changing of the guards comes at the end of our meeting, this will be my last *Newsbrief* article as Chairperson - I'm sure many of you will be thankful for that. As such, I'd like to take this opportunity to thank our outgoing officers (Paul Schmidt, Julia Schmitt), and congratulate the incoming officers (Richard Ratliff, and Debbie Gilley). I'd like to thank the two members who did not win their election, Ed Wilds and Cherly Rogers. Please consider running for the Board in the future. (I lost the first time I ran for the Board.) Finally, I'm especially grateful to the staff of the Office of Executive Director who have shown such professional commitment to our Conference, at a time when the Office was in transition.

Hey, you rad-control people, what do I have to do to get you CRCPDers to read the *Newsbrief*? Our last *Newsbrief* was loaded with the usual information but also contained articles purposely intended to raise controversy while still having fun. Yet, almost no one appears to have read it, since no one Frankfort 'Fil discussed (maligned?) has requested "equal time". A question the CRCPD Board needs to consider at our May 2002 Board meeting will be - should CRCPD continue with the web only NewsBrief or return to hard copy, or do both? Please let us know your thoughts on this important CRCPD communications tool.

In spite of Frankfort 'Fil's best efforts to sabotage the discussions

between the Organization of Agreement States (OAS) Board and CRCPD's past, present, and future Chairpersons, we all met in the Winter Olympic City of Salt Lake City on March 20 - 21, 2002. The meeting, in the Sinclair (a.k.a., Bill) Room of the Little America, was very friendly, although I've been warned to "watch my back." Surprisingly, the OAS Board was not too enthusiastic about 'Fil's 2002 forecast that the OAS Board would adopt "Sam, the OAS Slug" as their mascot. When 'Fil heard this, his reply was "Well, that OAS Board is a clueless bunch of slugs anyway!"

Aside from the fact that 'Fil's 2002 radiation forecasts will now have one miss, the CRCPD/OAS discussions were very positive. The OAS Chairperson will attend future CRCPD Board meetings as the OAS advisory representative; the CRCPD will consider an OAS sub-meeting at the CRCPD annual spring meetings; CRCPD will provide the OAS Chairperson an opportunity to speak at its annual meeting; and hopefully OAS will provide CRCPD the same opportunities at their annual fall meetings which will be attended by the CRCPD Chairperson and the new Executive Director. An atmosphere of openness and Frankfortian humor has arrived for the two groups - as we all know "we" is "them." (I guess that could mean "them slugs" is "we slugs," but that's 'Fil's call). One note of caution is apparent, the federal agencies cognizant in radiation issues will be considering if there is a need for two separate groups if OAS incorporates as they appear set on doing.

The screening committee (Chairperson, Chairperson-Elect, and Past-Chairperson) have reviewed the applications for the Executive Director position and interviews are being scheduled within the next month for several of the top candidates. Hopefully, we'll hire a new Executive Director this Spring.

See you in Madison. Your Chairperson, Paul.



Talk about DOE, DOD, and NRC cleanup terms, does "incidental waste" mean the same as "collateral damage", especially over time?



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

Past Board members



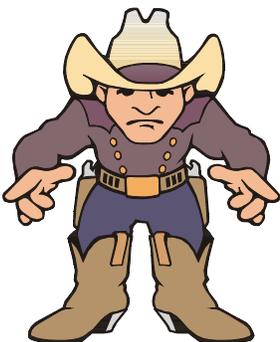
After retiring as Director of the Mississippi Radiological Health Program in April 1996, I began part-time employment with Argonne National Laboratories as a FEMA evaluator of nuclear power plant exercises. In 2000 the FEMA contract was awarded to ICF and now my employer is S. Cohen & Associates. I enjoy working with the state people with whom I was associated with for so many years.



I am somewhat involved with the NORM issues. I still get calls from attorneys and recently I was contacted by the 60 Minutes II staff to discuss my involvement with NORM for the past twenty years.

When at home, my wife Lorice and I begin our mornings reading the paper and drinking coffee before breakfast. We enjoy RVing and are members of the Mississippi Travel Trailer Club. Recently we purchased a new motorhome. We enjoy spending time with our six grandchildren. Sometimes we take them camping which they thoroughly enjoy. We have reservations in June for a twelve day Alaskan cruise which includes an inland tour of Alaska.

I miss seeing the CRCPD staff and my peers and I read the CRCPD *Newsbrief* to keep abreast of the radiation activities.



Who is this Desperado?

One of your Board members!

Look for the identity elsewhere in this issue.



Board approves expansion of calibration services to states

By Patricia Gorman, OED

The Board of Directors has approved the G2 Committee on Ionizing Measurements, Bob Lommler (IL) as Chair, expanding their calibration services to sponsor a radiation survey meter calibration intercomparison that will be conducted between June and September 2002. The goal is to give state/government owned calibration laboratories an additional tool to use when evaluating the quality of their survey meter calibration program. States will shortly be receiving more information on this special service.

Board of Directors election results

By Patricia Gorman, OED

On March 18th, the Kentucky Radiation Control Staff (John Volpe, Dewey Crawford and Tamara Guy) and the OED Staff (Chuck Hardin, Pat Gorman and Sue Smith) met and counted the validated ballots received as of close of business on March 15th. Following this meeting, the Board approved the results and the candidates were notified. I'm pleased to announce your new incoming Board officers for 2002-03, and they are Richard Ratliff (TX) as your new incoming Chairperson-Elect and Debbie Gilley (FL) as your new incoming Member-at-Large. Richard and Debbie will assume these offices following the close of the 34th National Conference on Radiation Control on May 8, 2002 in Madison, Wisconsin.

I want to also take this opportunity to say a special thank you to the following individuals who agreed to run against Richard and Debbie, and they are Ed Wilds, Ph.D. (CT) for Chairperson-Elect and Cheryl Rogers (WI) for Member-at-Large. We hope to see their names again on a future ballot for board officer.



Illinois signs agreement

Illinois is the third state to sign an agreement with CRCPD to participate in the National Orphan Radioactive Material Disposition Program. Illinois joins West Virginia and Maine.



Success story for West Virginia

CRCPD is pleased to report that in March, 2002, they were able to assist West Virginia with funding the safe disposition of a 500 mCi Cesium 137 source that was contained in a Ronan Model SA-1 Nuclear Gauge.



Board revises position

By Patricia Gorman, OED

At the recommendation of the H-11 Committee on Mammography, the Board revised its position relative to the inspection of mammography units and facilities. Following is the revised position:

Continued next page



CONFERENCE OF RADIATION CONTROL PROGRAM DIRECTORS, INC.
BOARD OF DIRECTORS POSITION
(Amended December 7, 2001)

Relating to: The Inspection of Mammography Units and Facilities

It is the position of the Board of Directors of the Conference of Radiation Control Program Directors, Inc. (CRCPD) that the annual inspections of each mammography unit and facility must include the following:

- * measure exposure at skin entrance
- * measure half-value layer (HVL)
- * calculate average glandular dose
- * determine reproducibility for exposure and time where appropriate (phototimed and manual modes)
- * assess phantom image quality/artifacts
- * evaluate processor performance (Sensitometric Test for Evaluation of Processing-STEP)
- * evaluate kVp accuracy and reproducibility
- * evaluate collimation
 - * x-ray field to film alignment
 - * light vs x-ray field congruence
 - * compression paddle vs film alignment
- * evaluate darkroom fog
- * evaluate illuminance of collimator light
- * review adequacy of facility's Quality Assurance (QA) records including
- * radiologic technologist's routine test
 - * medical physicist's evaluations and other surveys
 - * personnel qualifications
 - * medical outcomes audit

For specific individual testing protocols, the ACR QC manuals and/or the NEXT protocols should be referenced.

Amended: December 7, 2001

Amended: March 15, 1993 (clarifications added and correction made)

Amended: June 8, 1993

Adopted: June 10, 1992

Original signed by: Charles M. Hardin
Executive Director

HA9

CRCPD Board of Directors presents resolution to outgoing NCRP President

NCRP held a retirement dinner on April 10th for Charlie Meinhold who has been President since 1991. During this retirement celebration, Jill Lipoti, on behalf of the Board of Directors, presented Charlie with the following resolution:



CONFERENCE OF RADIATION CONTROL PROGRAM DIRECTORS, INC. BOARD OF DIRECTORS RESOLUTION

- Whereas:** Charles B. Meinhold has served as President of the National Council on Radiation Protection and Measurements (NCRP) since 1991; and
- Whereas:** Mr. Meinhold has significantly contributed to the protection of the public from unnecessary exposure to radiation; and
- Whereas:** Mr. Meinhold has supported the goals and objectives of the Conference of Radiation Control Program Directors, Inc. (CRCPD) during his entire tenure as President of NCRP; and
- Whereas:** Mr. Meinhold in his support of CRCPD has on numerous occasions brought major radiation protection issues to the attention of state radiation control agencies; and
- Whereas:** Mr. Meinhold has been a gracious host to the CRCPD in providing office space, free of charge, to the Board of Directors' meetings;

Now Therefore, Be It Resolved:

That Charles B. Meinhold is hereby recognized and praised by the Board of Directors of the CRCPD for his outstanding leadership of the NCRP for over ten years; and

Be It Further Resolved:

That Mr. Meinhold is very much appreciated for his steadfast support of the CRCPD and state and local radiation control programs; and

Board of Directors resolution continued

Be It Further Resolved:

That Mr. Meinhold is hereby awarded a Honorary Membership in CRCPD.

Bestowed by the CRCPD Board of Directors on this 9th day of April 2002.

Original signed by **Paul J. Merges, Ph.D.,**
CRCPD Chairperson

Jill reports that Charlie was "thrilled" to be named an Honorary Member of the CRCPD. On behalf of the Board of Directors, we express a special thanks to Jill for her unending willingness to be of service to CRCPD.



NCRP elects new president

On April 11, 2002, during the annual business meeting of the National Council on Radiation Protection and Measurements (NCRP), Dr. Thomas S. Tenforde was elected as the next president of NCRP. Prior to Dr. Tenforde's election, Charles B. Meinhold served as NCRP's President since 1991.

Dr. Tenforde is an Honorary Member of the Council, having served as the Scientific Vice President for Nonionizing Radiation from 1995-2000, and chairman of NCRP Scientific Committee 89 on Nonionizing Radiation from 1992-2000. He Chaired the Program Committee for the 1994 NCRP Annual Meeting. He was a member of Scientific Committee 1 on Epidemiology, Radiobiology, Risk, and Basic Radiation Protection Criteria from 1992-2000. He also served as a member of the Board of Directors and the Nominating Committee from 1991-1996.

Prior to being elected, Dr. Tenforde served as a Senior Chief Scientist at the Pacific Northwest Laboratory. His scientific career spans 30 years of research and management experience in the fields of biological effects of ionizing and nonionizing radiation, environmental and occupational health sciences, medical applications of radiation, surface chemistry of normal and cancer cells, and biological spectroscopy.



Jill Lipoti elected to NCRP Board of Directors

CRCPD is proud to announce that Jill Lipoti, NJ Director Member and former CRCPD Chairperson, was elected to the Board of Directors of the National Council on Radiation Protection and Measurement (NCRP) on April 11th. Jill has already attended her first Board meeting and has demonstrated her knowledge of both ionizing and nonionizing radiation. As always, Jill will continue to bring the states' perspective whenever she has the opportunity to serve. At the time of her election, Jill was serving on the NCRP Council. Congratulations Jill.



Board meeting minutes posted to web

At the December 2001 Board meeting, it was agreed that the minutes of the board meetings would be posted to the CRCPD web site in lieu of developing a separate listing of actions as previously provided. This action will be a more efficient use of staff's time in that OED will not have to create a second document. The minutes have received Board approval and therefore have been posted to the Regulatory Forum section of the web site.



New director members

Several changes have occurred in the states with respect to persons being named as Director Member in their respective state. Please join me in welcoming the following individuals to the ranks of Director Member:

- ◆ Arkansas - Jared Thompson
- ◆ Delaware - Robert Brinsfield
- ◆ Kansas - Chuck Layman
- ◆ Louisiana - Mike Henry
- ◆ Missouri - Charles Hooper
- ◆ Nebraska - Julia Schmitt
- ◆ New Hampshire - Wayne Johnston
- ◆ New York State Health - Adela Salame-Alfie, Ph.D.
- ◆ North Carolina - Beverly Hall
- ◆ North Dakota - Terry O'Clair
- ◆ Oregon - Terry Lindsey
- ◆ West Virginia - Dan Hill



FDA Laser Notice 50

By Jerone Dennis, CDRH, FDA

I have just received a polite awakening that those states that have programs relating to laser product radiation control may not be aware of our guidance document, Laser Notice 50. In this document, we said that we would not object to laser products that are classified or that comply with the international standard, IEC 60825-1. Manufacturers, especially of infrared through-the-air laser telecommunication products are already classifying their products according to IEC 60825-1 in Class 1M. State inspectors encountering these products may not understand what this classification means. What it does mean is that direct ocular exposure to the eye is not hazardous, but could be if one were to look directly on axis into the invisible beam using a telescope.

This document is available at <<http://www.fda.gov/cdrh/radhlth/laser.html>>. Specific questions about this guidance can be addressed to me or anyone else on our laser compliance staff at 301/594-4654.



Revolutionary X-ray film processor available

By Mike Odlaug
Washington Division of Radiation
Protection

Most X-ray inspectors around the country have seen either high radiation exposures and/or poor diagnostic film quality in many dental offices during inspections. This is due to in most cases poor film processing, especially old track-based, roller-less varieties operating at room temperature and sending the film through too fast in depleted chemistry. This is certainly the case in a lot of medical applications too.

However, the problem has been solved in an intelligent and exquisite manner by a company operating out of Spokane, WA. They have come up with a beautiful and efficient machine called the ImageMax, and across the country hundreds of dentists have purchased these units and end up with hassle-free development, gorgeous films, and the lowest patient exposures. I am even thinking of exempting fees for any dental facility who uses the new Kodak F-speed film (Insight) and the ImageMax processor!!

The ImageMax does not use rollers, tracks, or belts to move the film. It instead leaves the film stationary, then moves processing solutions to the film. The result is a virtually self-cleaning processor with no more lost films. It is a self-contained, small table-top unit (just 18" across the front) that automatically counts the number of films processed, and automatically adjusts development time based on that number. This feature insures that the last film out of a batch of chemistry looks as good as the first. It even adjusts development time based on temperature, so that a dentist can turn it on and immediately start processing films!

Film quality is outstanding because the ImageMax exactly follows

Processor continued

Kodak's development recommendations. Films turn out great every time. It's sealed solution containers greatly reduce developer oxidation. The processor also will use just 1/3 of the chemistry required of a roller based processor. We are excited to see this processor in a dental office and I wanted to share it with other state radiation programs, so that you are aware of it.

Contact Jim Jacobson, 1-(888) 230-9500 or check out their website <www.DXSS.com> for information and a flyer.



What's new on the web?

By Bruce Hirschler, OED



Most of our latest activity has been on the "Regulatory Forum" side of our site. We have placed the latest budget and board information on line for member review. This includes the CRCPD budget as of January 1, 2002, travel expenses as of January 1, 2002, and the donated time report through August 31, 2001.

We will be doing a complete overhaul of our site throughout this summer. While much of what we will be doing will be "behind the scenes", users will notice a new navigation bar as well as new font selections. Our goal is to continue making our site easy to use as well as useful. Keep in touch with us and let us know what you think.

Digiscript will be going away. After this year's annual meeting, last year's digiscript library link will be taken down. We hope you enjoyed revisiting Anchorage. Abstracts and slides from the Wisconsin meeting will be posted soon after the completion of our annual meeting.

Finally, as always, you can get the latest on the 34th National Conference on Radiation Control at our "Meetings & Workshops" page.



Gary McNutt (MO) - May 1, 2002
Don Norton (SD) - April 12, 2002
Diane Tefft (NH) - May 1, 2002

On behalf of the CRCPD membership we wish Gary, Don, and Diane a rewarding retirement.



Retirements



Who is this Desperado? None other than.....Cindy Cardwell!!!

Working Group activities



NRC/FEMA meeting

Stephen A. Woods, E-6 Chairperson
California Dept. of Health Services

A NRC/FEMA meeting on *Exercise Evaluation Methodology* for evaluation of capability to notify the public during a rapidly developing emergency (fast breaker) was held February 20, 2002, at the FEMA Headquarters, Washington, DC.

The purpose of the meeting was to solicit comments and discussion on exercise evaluation methodology for evaluating the capability to notify the public during rapidly developing exercise scenarios.

Mr. Randy Sullivan (NRC) and Ms. Nancy Goldstein (FEMA) discussed the need to develop evaluation criteria to be used in evaluating the "fast-breaker" exercise requirement. Comments were presented by public and private attendees. The following comments and suggestions were presented:

- ▶ Putting a time clock (e.g. 15 minutes) was unreasonable evaluation criteria. It is more important to communicate correct information and make accurate decisions than to consider a fixed amount of time. Evaluation should be based on performance and not time.
- ▶ Each emergency plan is different, and constitutional and statutory regulations could preclude meeting time requirements for notifications. FEMA should be aware that legal requirements could prevent states from making plan changes that could shorten notification times.
- ▶ If a time clock was used in the evaluation process, it should start when the person (s) who has the legal authority to make protective decisions is informed of the emergency event.
- ▶ An initial notification to the public is made without a protective action. The notification would alert the public to standby for protective actions.
- ▶ Use Annual Letters of Certification (ALC), SOP reviews, and FEMA staff visits to evaluate the "fast-breaker" capability.
- ▶ Use tabletop exercises and self-assessment plans to evaluate "fast-breaker" objective. FEMA recognized the training asset of tabletop exercises, but doubted that tabletop drills would be effective evaluation criteria.
- ▶ Substitute "timely manner" for 15-minute clock requirement.

NRC/FEMA meeting continued

► Limitations in actually verifying an off-hours unannounced notification exercise objective.

NRC and FEMA staff will review comments and a draft evaluation requirement document will be developed.

E-24, Committee on Decomination and Decommissioning

Dennis Zannoni, Chairperson
New Jersey Radiation Protection
Programs

The CRCPD E-24 Committee on Decontamination and Decommissioning – how can you forget – met in beautiful Denver, Colorado, on March 9, 10, and 11. Before I mention our wonderful work, I need to thank Phil Stoffey (CO) for hosting the meeting. Though my heart remains in New Jersey, Colorado ain't bad!

We continue to work hard on the numerous D&D topics that confront our nation despite our current transition. Not only do we have a new chair – me, but we are short one committee member right now and we will lose two more by the end of the year. This is difficult because we have been a close knit, hard working committee for 5 years. Call me at 609/984-7440 if you are interested in becoming a member but remember that you need to be an advisor before becoming a committee member - so sign up!

Back to the meeting. I opened the meeting with a brief overview of our past accomplishments, our current work and our future goals. Going forward, we want to continue our participation in the NRC D&D consolidation project and comment on as many D&D related federal register notices that we can. Of course, we continue to encourage participation by advisors.

The next part of our meeting included D&D state updates from each member. This is always very interesting, since you get to hear about radioactive cleanups first hand. Debra McBaugh, who attended the mid-year Health Physics Society meeting on behalf of the CRCPD provided an overview of the meeting. Since the meeting focused on D&D, I recommend that you obtain a copy of the proceedings. Your D&D program would benefit from the material.

We were fortunate to hear from Dr. Graham, EPA, who presented a paper on EPA's role during a radiological emergency. Mr. Egidi, CO, presented a paper on MARSSIM, GPS, and other Tools for D&D. Mr. Terry, CO, provided a perspective on keeping the license termination process simple. Mr. Weaver, CO, provided valuable perspective on financial assurance and institutional controls. Finally, Dr. Champ, Canada, presented a paper on the Canadian D&D experience. All of these papers will be available on my poster in Madison, WI. Please stop by!

E-24

continued

The next two days consisted of the review of NRC NUREG 1757 Volume 1 and 2. The NRC initiated a large effort to consolidate all NRC D&D guidance and documents over the next 3 years into a 3 volume set. Volume 1 is currently out for public comment until May 1, 2002. It is entitled "Consolidated NMSS Decommissioning Guidance: Decommissioning Process." Our committee was provided an early draft of Volume 2. It is entitled "Consolidated NMSS Decommissioning Guidance: Characterization, Survey, and Determination." We submitted comments to the NRC for both Volumes. We were fortunate to have in attendance a member of the NRC who is the team leader for Volume 2. Please stop by my poster presentation in Madison, WI to learn more about the NRC D&D consolidation project and our participation with it. It is a good example of CRCPD - Federal interaction.

I will see you in Madison, WI and yes, I got the cheese!

**E-25
Committee on
Radon**

By Adrian Howe, Chairperson
Nevada Radiological Health

The Committee on Radon (E-25) met in Las Vegas, Nevada on February 20-21, 2002. The attendees were Bob Stilwell (Maine), Mike Pyles (PA), Mike Brennan (WA), Conrad Weiffenbach (WI), Curt Hopkins (OED), Susie Shimek (EPA), Lou Witt (NACO), and John Mallon (AARST).

The majority of the meeting was devoted to initial development of the agenda for the 12th National Radon Meeting to be held in Reno, Nevada on October 27-30, 2002. The agenda for the meeting appears to contain very timely and interesting subjects, most of which were suggested by attendees to the last national meeting. A majority of the agenda will focus on social marketing and basic radon training.

The committee also finalized a questionnaire that will be sent to state radon contacts to obtain information for the radon clearinghouse. The committee was in agreement that the questionnaire developed would also provide for both the information clearinghouse and an update of the Radon Program Cookbook. The committee will review questionnaire responses during its meeting in July with subsequent addition of the information put on the CRCPD website to fulfill the clearinghouse needs.

The committee also discussed future tasks that may be required of the committee by EPA.

In addition, the committee discussed the potential location of the 13th National Radon Meeting in 2003.

The Federal Radiological Preparedness Coordinating Committee (FRPCC) (E-38)

Ron Fraass (KS), Liaison
Kansas Bureau of Air and Radiation

The Federal Radiological Preparedness Coordinating Committee (FRPCC) met on January 30, 2002 in Washington, DC at the headquarters of the Federal Emergency Management Agency (FEMA). I attended the meeting as the CRCPD Liaison (E-38) to the FRPCC. The FRPCC last met in November, but that meeting was closed to the public. The January meeting was announced in the *Federal Register*, but there was only one other non-federal person in attendance.

As the CRCPD Liaison, I brought up two issues that were suggested by the Board. Because we rely on federal resources to augment our state staff in major incidents, I asked the Committee members to provide information to us on any changes to federal radiation response following the September 11 terrorist attack. A specific change that was announced at the meeting is that Russell Salter (Chair of the FRPCC) and his organization have moved intact to FEMA's Office of National Preparedness headed by Bruce P. Baughman.

The second issue concerned the proliferation of radiation pagers. I asked each of the federal agencies to have their staff work with state and local staff in locations where the radiation pagers are in use. Many of those present did not understand how sensitive the detectors are. The units are expensive but available to any individual or organization that can afford them. Customs officers have been using them for several years. A newer version can also detect neutron radiation.

Other items of interest from the meeting include:

Kent Gray from HHS is planning a meeting in July to work on two important national issues. The first issue will be a long-term environmental monitoring plan/methodology to be used if a major radiological contamination incident occurs. The second issue is on radiation risk communication. Kent will be requesting assistance from CRCPD to suggest appropriate state staff to participate in the meeting. HHS will provide direct funding for travel.

FEMA will publish an annual report on the activities of the FRPCC. Their contractor has many of the inputs for 2001 and has begun a draft.

FEMA and other members of the FRPCC are continuing plans for an international conference on radiation emergency response in June.

FEMA Radiological Assistance Committee (RAC) Chairs are continuing to work together on a field operations guide for evaluators. The Regional Assistance Committee (RAC) Chairs Advisory Council, or RAC AC, was established to provide a vehicle for sharing REP and non-REP Program related information among RAC Chairpersons and to provide

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continued

recommendations to the FEMA Headquarters for developing and modifying program policy and guidance. As a corollary responsibility, the RAC AC provides technical expertise to the FRPCC, as needed. The RAC AC membership consists of the nine RAC Chairs, the Chairperson of the FRPCC, and the Headquarters REP Branch Chief. The RAC AC elects a Chairperson and Vice-chairperson to serve one-year terms. Eric Jenkins, Region VII, is the current Chair of the RAC AC.

NRC requested and received approval of their "One Voice" Initiative White Paper. The white paper discusses federal coordination of information following a radiological event in a foreign country. The white paper states, "The protocols for disseminating information during domestic events are already well established, and those existing protocols for domestic events will not change."

The FRPCC Response Subcommittee will work on potential revisions to the Federal Radiological Emergency Response Plan (FRERP) during 2002. There have been suggestions to make the FRERP into Essential Support Function (ESF) #13 of the Federal Response Plan.

A letter from FEMA to the other agencies requesting funding for a study to generate a new Good/Some/None table for FEMA Radiological Emergency Preparedness (REP) 5 is being staffed. The new table would include modern instruments.

FEMA has completed a training compendium of radiological courses. They will provide CRCPD a copy.

EPA announced that they are still working on an update to the Protective Action Guides. However, they will provide an interim-for-use set of water PAGs for use if an incident occurs during the winter Olympics.

FEMA will work with other federal agencies to integrate exercises that include federal agency senior leadership participation into scheduled exercises rather than as separate events.

The Environment, Food, and Health Subcommittee is emphasizing training and exercises with states and locals.

The Offsite Emergency Instrumentation Subcommittee reported that the Department of Defense has revived their RADIAC committee. Also, proposed portable instrumentation guidance was announced for comment in the *Federal Register* in December.

The KI Ad Hoc Subcommittee commented on the publication by FDA and NRC regarding guidance on KI. Two states, Maryland and Massa-

E-38 continued

chusetts, have requested KI and one state, Washington, specifically rejected the offer. There was no requirement to reject the offer of KI for persons in the plume exposure pathway. CDC also has stockpiled KI. It is deployable now within 12 hours of a decision to deploy.

FEMA will soon publish in the *Federal Register* some corrections to the notice that established the revised exercise evaluation criteria. They are also reviewing policies for Annual Letters of Certification (ALC) to ensure the ALCs include adequate information when considered alongside exercise evaluations.

A contractor is compiling a proposed REP Handbook for FEMA review. It is to replace many of the existing paper documents with a CD that will be updated as necessary.

An addendum to NUREG 0654 was published and comments have been received. A steering committee is working on the final addendum. This is not a revision to 0654. It simply corrects some references and errors.

FEMA taught the first week-long version of the FEMA Exercise Evaluator course at Emmitsburg during the last week of January.

The Department of Energy (DOE) reported that they were working with the Office of Justice to evaluate use of Radiation Pagers in two cities. The two cities were New York and Washington DC. New York Police, Washington Metro, DC, and Capital Police were trained on the radiation pagers. DOE will compile data on the pilot program.

It is widely acknowledged that the *Suggested State Regulations for the Control of Radiation* are one of the most useful and important products that the CRCPD delivers to its membership. However, many CRCPD members feel that the productivity of SSR Committees, and the timeliness of their products, leaves much to be desired. The Board of Directors decided in February of this year that the mission of S-5, originally known as the *Ad Hoc Committee on the States' Role in National Radioactive Materials Regulation Development*, would be redirected to address this problem.

Along with a name change to the *Ad Hoc Committee On Suggested State Regulation Development*, our original charges were replaced with three new ones:

1. Review and evaluate the SSR development process. I identify ways

Ad Hoc Committee on Suggested State Regulation Development (S-5)

Robert Walker (MA) Chairperson
Massachusetts Radiological Health
Program

(S-5)
continued

to improve the efficiency of the process. Coordinate effort with SSR Council Chair, SSR Committee Chairs, and the OED Technical Staff.

2. Explore methods for CRCPD to promptly identify emerging technologies, radiation safety issues, and changed federal regulations. Develop a process to determine if rule development is necessary to address emerging technologies, radiation safety issues, and changing federal regulations.

3. Develop a report and make recommendations to the Board concerning charges 1 and 2 by the Fall 2002 Board meeting.

In order to accommodate this tight schedule, S-5 quickly held its first meeting under its new mandate in Montgomery, Alabama, from March 19-22, 2002. Present were committee members Bob Walker (Chair), Marcia Howard (OH), Elizabeth Drinnon (GA) and Jim McNees (AL), as well as Bruce Hirschler from OED and Trish Holahan and Melanie Galloway from NRC. This team of the right people in the right place resulted in us leaving Alabama with enough work completed to produce our first draft report a week later.

The current SSR development process consists of 11 discrete steps, beginning with the identification of a need, and ending with publication of the Suggested State Regulation. The first draft of our report contains general recommendations for improvement in the process, as well as specific recommendations for improvement in 7 of the 11 discrete steps. In accordance with our first charge, this draft was circulated to the SSR Council Chair and SSR Committee Chairs, and as of this writing they are formulating their comments. We have asked that their comments be submitted by the end of April so that S-5 can consider these at our second meeting, which is scheduled to take place during the two days immediately following the National Conference in Madison.

SR-1, Suggested Regulations- Group 1

Monica Gonzalez (TX), Chairperson
Texas Bureau of Radiation Control

The SR-1 Committee met March 4-6, 2002, for its first face-to-face meeting in a long time, in Austin, Texas. The meeting was a HUGE SUCCESS!!!!

To begin the development of Draft Part C, the committee compiled a list of all requirements that were currently addressed in Part C and needed to be deleted because these items were now addressed within other specific applicable SSR Parts, for example: Industrial Radiography (Part E); Decommissioning (Part O); Surety & Bonding (Part S); Contingency Plan for Response to Radiation Material Emergencies (Part P);

S-1 continued

and Requirements for Irradiators (Part Q).

The committee reviewed the NRC chronology sheets for applicable compatibility items, dating back to Jan. 1991 through the present (Part C had not been revised since Jan. 1991), and added the requirements to current Part C.

With Bruce's excellent text formatting technique, the committee developed a very rough Draft Part C by the end of the meeting.

Each committee member will continue reviewing and editing the Draft Part C for language consistency, style, reference citation accuracy, and grammar, on their own time and as their primary job duties allow.

The committee is tentatively planning a teleconference meeting in mid-July 2002, to discuss each member's suggested changes to the Draft Part C.

The SR-1 chairperson will compile the changes and submit one electronic file to Bruce for his editing and updating of the official electronic copy.



2002 NCRP 38th Annual Meeting summary

David J. Allard, CHP, Liaison
PaDEP - Bureau of Radiation Protection

This year's Annual Meeting of the NCRP was held April 10th & 11th in Arlington, VA, and was entitled "Where the New Biology Meets Epidemiology: Impact on Radiation Risk Estimates." Appropriately, the lead presentation was by Arthur Upton, who reviewed the scientific basis for the linear-no-threshold (LNT) dose-response model, and the recent work by Scientific Committee 1-6 and the subsequent NCRP Report No. 136. The LNT model has been the subject of much debate as of late (e.g., at the 2001 HPS Annual meeting just after publication of Report No. 136). Nevertheless, upon review of the human epidemiological, experimental animal, and related theoretical data on the stochastic effects of ionizing radiation, such as genetic and carcinogenic effects, the Committee concluded that 'certain types of cancer may increase in frequency linearly with dose, and that no alternate dose-response model is more plausible than the LNT model..' Dr. Upton and the Committee did state that other models cannot be excluded in light of recent research into adaptive responses and bystander effects. He also noted that there is much more human data and information on cancer induction (e.g., A-bomb survivors, TB patients who got frequent fluoroscopy, etc.), versus genetic effects - which are more difficult to study.

Other presenters in this session (W. Morgan, R. Ullrich, E. Hall and S. Amundson) discussed and reviewed their research into genomic insta-

bility, the bystander effect, and gene expression. These talks provided an interesting snap-shot of the ongoing research into gene and chromosomal mutations as the critical event in radiation carcinogenesis, human heritability of sensitivity to certain radiation-induced chromosomal damage in cancer prone families, and induction of biological effects in cells not directly traversed by a charged particle. It was of interest to hear that exposure to 1 Gy can cause 20-30% of cells to exhibit genomic instability, and after 3% of cells hit by an alpha particle – about 25% show some bystander effect. However, it should be noted these are *in vitro* cell studies.

The first day's Epidemiology session was also quite interesting, with presentations by D. Preston, E. Ron, C. Rivard, J. Boice, and K. Iwamoto, concerning findings of the A-bomb survivor Life Span Study (LSS), cancer risk from medical irradiation, childhood leukemia, genetic effects of radiotherapy for childhood cancer, and the mechanistic basis for radiation carcinogenesis respectively. Several items struck me in Dr. Preston's LSS talk. They were: 1) there has been follow-up on some 12,200 incident solid cancers, 2) analyses of low dose range data with the A-bomb survivors shows evidence of solid cancer risk that is consistent with the full dose range, and 3) age of exposure has a profound affect on thyroid cancer induction (i.e., higher rates with those exposed as children vs. adults), but there is little excess risk with breast cancer. In contrast, Dr. Boice noted the A-bomb survivor studies 'showed little evidence of inherited defects attributable to radiation.'

Of interest from Dr. Ron's presentation on follow-up studies with younger patients treated therapeutically with external beam radiation for Hodgkin's disease, was that approximately 35% develop secondary cancers by age 40. Lung cancer is most common, followed by breast cancer. There also appears to be a linear dose response with these solid tumors. The talk I found particularly interesting in this session was by Dr. Boice, who described an international study of some 25,000 survivors of childhood cancer in the U.S. and Denmark, who gave birth or fathered over 6,000 children. Detailed medical records have permitted accurate gonadal dose reconstruction, and have been coupled with an assessment of confounding variables and medical histories to address the potential genetic effects in this population. Siblings are being used as one comparison group. Preliminary results from the U.S. show that there are no significant genetic effects over the controls. The day ended with the Taylor Lecture given by Dr. Julian Preston, who presented his cancer risk assessment research over the years in the UK and here in the states.

The second day of the meeting was a half-day session, and included presentations by M. Hoff, A. Brooks, J. Dicello, and D. Brenner, cover-

NCRP Annual Meeting

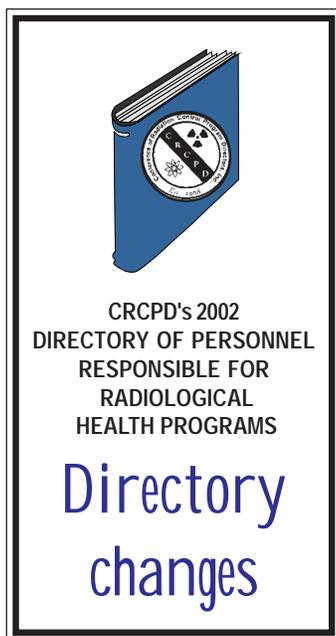
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ing the topics of extracellular signaling, DOE's new Low Dose Radiation Research Program, radiation risks for personnel on missions in space, and bystander effects and radon risk respectively. Many of the studies that were presented through the meeting were funded by this new DOE program, which has the goal to utilize the recent advances in molecular, cellular and genomic methods to ensure radiation protection standards are based on the best scientific data. Dr. Hoff reported on her research with radiation effects on mouse breast tissue and extracellular signaling and support matrix, noting effects in these microenvironments with doses as low as 0.1 Gy. Dr. Dicello reviewed the health studies being done with U.S. astronauts, and the potential for increases in radiation cataracts and cancer being studied. Similarly, he suggested additional animal studies are required to better determine the RBE for protons and high Z nuclei in the space environment. Lastly, the technical program ended with Dr. Brenner discussing how the empirical exposure-time correction factors applied in the recent BEIR VI Report for risk estimates for environmental levels of radon exposure, may be explained by bystander effects and inverse dose-rate effects resulting in a nonlinear dose-response relationship for high-LET radiation.

Several of the presenters at this NCRP Annual Meeting were the same as those at a recent American Association for the Advancement of Science (AAAS) symposium on Low-level Radiation Effects and Government Policy. This half-day AAAS symposium had technical presentations, followed by presentations on Risk Communication. Questions were held until the end, and for about 45 minutes at this end of this symposium, they opened up a panel discussion with the presenters and the audience. A concern I raised at the AAAS symposium, which is relevant but I didn't express at the NCRP meeting, was that all these "low dose studies" are still at the centiGray level. My personal opinion is, we may get additional insight into higher level radiation induced biological effects, but these studies will not answer the question of effects at environmental radiation levels. At some point we have to make policy decisions, e.g., drinking water standards, air pathway, site clean-up levels, etc.

As a final note, in the business meeting at the beginning of the second day, the financial aspects of the NCRP were discussed, and recent deficit spending. Perhaps as, or more important, Charles B. Meinhold, retired after many years as President of the NCRP, with Thomas S. Tenforde, being instated as the new President. Dr. Tenforde thanked Mr. Meinhold for his leadership and dedication to NCRP, and stated his immediate priorities are to establish new funding sources, shorten the turn-around time on publications, and to improve internal and external communications.





Membership Updates

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 Goss, John (CA)
 Jo, Myung Chul (NV)
 Marvel, Daniel (WI)
 Morris, William (VA)
 Pearsall, Robert (NY)
 Schultz, Michael (TN)

Directory Changes:

- Page 35 - MI, Department of Environmental Quality - insert new e-mail addresses: David Minnaar <minnaard@michigan.gov>; Lou Brandon <brandonl@michigan.gov>; Robert D. Skowronek <skowronb@michigan.gov>; Robert DeHaan <dehaan@michigan.gov>; Susan K. Hendershot <henderss@michigan.gov>; Thor Strong <strongt@michigan.gov>
- Page 36 - MI, Department of Consumer & Industry Services - insert new e-mail addresses: James F. Camburn <jcambu@michigan.gov>; Robert J. Sabo <rsabo@michigan.gov>; Bruce A. Matkovich <bmatko@michigan.gov>; R. Tod Van Wieren <tvanwi@michigan.gov>; Donald E. Parry <dparry@michigan.gov>; Thomas M. Dykstra <tdykst@

Directory changes continued

- Page 46 - michigan.gov>
 NY, State Health Department- delete Karim Rimawi, Ph.D. and insert Adela Salame-Aflie, Ph.D., Assistant Director, Bureau of Environmental Radiation Protection, New York State Health Department, 547 River Street, Troy, NY 12180-2216, phone: 518/402-7550, e-mail: <asa01@health.state.ny.us>
- Page 47 - NY, State Environment Department, change listing for Paul J. Merges, Ph.D. and Barbara Youngberg to: Bureau of Radiation, Division of Solid & Hazardous Materials, NYS Department of Environmental Conservation, 625 Broadway, 8th Floor, Albany, NY 12233-7255
- Page 50 - NC - Delete Richard M. Fry and insert Beverly O. Hall, Acting Director, phone: 919/571-4141, Ext. 217, e-mail <beverly.hall@ncmail.net>, off-duty: 919/639-8889
- Page 56 - OR - J. Robert Rapcinski insert new e-mail address: <j.r.rapcinski@state.or.us>
- Page 64 - SC - Remove Pam Dukes in its entirety
- Page 77 - WV - remove vacant and insert Dan Hill, e-mail: <danhill@wvdhhr.org>
- Page 97 - FDA, CDRH, Winchester Engineering and Analytical Center - remove James Fitzgerald and insert vacant; Regional Radiological Health Representatives, Northeast Region, Ronald E. Bernacki, insert new off-duty area code, 631; New York District insert, James Wormuth, CHP, MQSA Auditor, phone: 518/453-2314, Ext. 30, e-mail: <jwormuth@ora.fda.gov>, fax: 518/453-2243.
- Page 98 - FDA, CDRH Radiological Health Representatives, Northeast Region, Boston District change to New England District; insert Max Lager, Electro Optics Specialist, DHHS,PHS/FDA, One Montvale Avenue, Stoneham, MA 02180, phone: 781/596-7744, e-mail:<mlager@ora.fda.gov>, fax: 781/596-7894.
- Page 108 - NRC, William A. Maier insert new phone no.: 817/860-8267



**Employment
Opportunity****OREGON DEPARTMENT OF HUMAN SERVICES
Health Services Employment Opportunity**

PRINCIPAL EXECUTIVE MANAGER D*
(EMERGENCY RESPONSE/ANALYTICAL LAB MANAGER)
\$3720 - \$5486 MONTHLY

ANNOUNCEMENT NUMBER: LEHS2162

CLASSIFICATION NUMBER: X7006

OPEN: APRIL 15, 2002

APPLICATION DEADLINE: APRIL 30, 2002

LOCATION: PORTLAND

This employment opportunity is with Health Services, which is part of the Department of Human Services (DHS). There is one current full-time opening located in the Radiation Protection Services Section in **PORTLAND**. This position is Management Service and is not represented by a union.

This recruitment announcement will be used to establish a list of qualified candidates to fill the current vacancy and may be used to fill future vacancies as they occur.

*This position is being recruited at an anticipated classification level and will be subject to classification benchmarking. At a later date, the Office of Human Resources will review all positions to determine the correct classification.

QUALIFICATIONS

Six years of experience in supervision, staff-technical or professional-level work related to radiological emergency response. This experience must have included **at least two years** of supervision and management of a program, section or unit which included:

- a) development of program rules and policies;
- b) development of long- and short-range goals and plans;
- c) program evaluation; and

Employment continued

d) budget preparation.

A Bachelor's degree or courses in Biology, Chemistry, Physics, Mathematics, or a field related to Radiobiology, Radiological Health or Medical Physics, may be substituted for up to three years of the required experience, but will not substitute for the two years of specialized experience.

SUBMIT THE FOLLOWING

1. State of Oregon Application Form PD100

2. A **cover letter** that addresses the desired competencies as listed below. Describe in your cover letter your related work and volunteer experience. Qualified applicants whose background most closely matches the desired competencies will be invited to interview.

Experience handling incidents or emergencies involving source of radiation (radioactive materials, x-ray, laser, microwave, etc.)

Training experience of first responders or other personnel and experience with survey instruments and analytical methods used for the response and follow-up evaluations for ensuring proper cleanup of contamination from an incident/accident.

Knowledge and/or skills gained from didactic training and education or program specific training in Emergency Management, Radiological Health and Hazardous Materials.

Management experience of radiological or hazardous materials programs with level of responsibility for program staffing and budget issues.

Demonstrated leadership skills in recent projects or assignments related to radiation or hazardous material emergency response.

You may deliver, mail, or FAX your completed application. It must be received no later than 5:00 p.m. on the application deadline. Deliver or mail to:

**Department of Human Services
Recruitment and Retention Unit
ATTENTION: Vicki Cloyd
500 Summer Street NE, E22
Salem OR 97301-1099**

**Or FAX your application to
503-378-2249; 503-378-8463, or 503-378-3689**

(continued next page)

Employment continued

APPLICATION PROCESS

Obtain application materials, job, and benefits information by doing one of the following:

Access the DHS website at <http://personnel.hr.state.or.us/>

Call the DHS Job Line at 503-945-5742.

Contact your local Oregon Employment Department office.

If you need assistance to participate in the application process, you are encouraged to call 503-945-5698 (voice) or 503-945-6214 (TTY) between 8:00 a.m. and 5:00 p.m. (Pacific Time) Monday through Friday.

Keep a copy of your application materials for your job interviews. DHS does not provide copies. Although faxing your application is an option, DHS is not responsible for materials that are illegible or missing as a result of FAX transmission errors or loss in the mail or e-mail. Pay on all announcements may change without notice.

Notice of your application results will be sent to you by mail. Although agencies are not required to delay their selection process, you may request a review of your application results. This review request must be received in writing within 10 days from the date of the notice. Additional application information cannot be accepted. However, if the recruitment is still open you may submit a new application, which must be received in our office by the close date of the recruitment.

Fingerprint-based criminal history and driving record checks will be done for applicants offered employment. Circumstances of any criminal conviction will be reviewed to determine whether an applicant is accepted for employment.

DUTIES AND RESPONSIBILITIES

The Emergency Response/Analytical Lab Manager is responsible for conducting and coordinating, through subordinate personnel, activities and functions using knowledge of radiation and radioactive materials to fulfill the purpose, goals, policies, standards and practices of DHS Health Services. The person in this position manages personnel and resources as applied directly to the statewide non-ionizing Radiation Programs (Tanning, Microwave and Lasers) which involves more than 750 facilities and over 2,100 non-ionizing Radiation machines. This person is also responsible for the Radiological Emergency Response team that responds directly to approximately 100 incidents per year and provides radiological training for state, county and local emergency response

Employment continued

personnel which includes the coordination of drills and exercises for radiological emergency preparedness.

WORKING CONDITIONS

On-call 24 hours a day for public health emergencies. Serves as the Duty Officer on a weekly rotating basis for 24-hour incident response to radiation emergencies.

Frequent in-state or regional travel for extended periods of time. You must have a valid driver's license and an acceptable driving record. If not, you must be able to provide an alternate method of transportation.

As necessary, early morning, evening, and/or weekend work. This position works a professional workweek and the incumbent's flexibility to this work schedule is considered a condition of employment. It is understood that the hours of work may vary from day to day, week to week. The hiring manager will work with the incumbent to determine work schedule specifics.

ABOUT THE DEPARTMENT

DHS is about people. We help Oregonians be independent, healthy, and safe. We protect children who are abused or neglected. We provide treatment services to people whose lives are damaged by alcohol and drugs. We serve seniors, people with disabilities, and people with mental illness. We help low-income people along the road to self-sufficiency with health coverage, job preparation, child care and other supports. We provide leadership in public health services. Our services are delivered in the least restrictive setting and in partnership with communities. We are absolutely committed to ongoing innovation in the delivery of services, and we are committed to recruiting, developing and retaining dedicated employees. For a complete explanation of state employee benefits, visit our website at <http://personnel.hr.state.or.us>

PLEASE CONSIDER JOINING US!

The Oregon Department of Human Services is committed to affirmative action, equal employment opportunity and workplace diversity.



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Abbreviations, acronyms, and initialisms

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

| | |
|----------------|--|
| CDRH | FDA's Center for Devices and Radiological Health |
| DOE | Department of Energy |
| DOT | Department of Transportation |
| EMF | electric and magnetic fields |
| EPA | Environmental Protection Agency |
| FDA | Food and Drug Administration |
| FEMA | Federal Emergency Management Agency |
| 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 |



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