

PLENARY AGENDA

Monday, October 17

- 8:30 am Continental Breakfast
- 9:00 am President's Welcome
Chip Starns, President, CIRMS
- Welcome to NIST
- 9:20 am **Public Perception of Radiation**
W. Ralph Basham, Command Consulting Group; former Commissioner of the US Customs and Border Protection, former Director of the US Secret Service
- 10:00 am Q & A
- 10:15 am **Radionuclide Concentrations in Food and the Environment**
Kathryn Higley, Oregon State University
- 10:45 am Break; Coffee and Discussion; Poster Review
- 11:15 am **Medical Risks for Diagnostic Exams**
William Hendee, Medical College of Wisconsin
Sponsored by MD Anderson ADCL, University of Texas, Houston, Texas
- 11:45 am **Improving Public Perception of Radiation Processing by Involving Students**
Anthony Berejka, Ionicorp+, for Mark Driscoll, SUNY, Environmental Science and Forestry
- 12:15 pm **History of CIRMS on its 20th Anniversary**
Randall Caswell, NIST, retired
- 12:45 pm Lunch
- 1:45 pm **Concurrent Working Group Sessions**
- In addition to the CIRMS meeting plenary sessions, the subcommittees of the CIRMS Science and Technology Committee will hold five Working Group sessions. These sessions will go into greater detail on specific topics of interest to CIRMS membership and include a review of the CIRMS "Fifth Report on Needs in Ionizing Radiation" and a prioritization of the needs in ionizing radiation.
- IAME: Industrial Applications and Materials Effects
Medical Applications
RP/HS: Radiation Protection / Homeland Security
- 3:15 pm Break
- 3:45 pm **Concurrent Working Group Sessions (continued)**
- 5:20 pm Adjourn

PLENARY AGENDA, continued

Tuesday, October 18

- 8:30 am Continental Breakfast
- 8:55 am President's Welcome Back
- 9:00 am **Applying Product Stewardship Principles to Radiation Protection / Lessons from EPA's Alternative Technology Initiative**
Madeleine Nawar, USEPA/OAR and Scott Cassel, Product Stewardship Institute
- 9:30 am **Patient Risk in Medical Therapeutic Treatment**
Michael Herman, Mayo Clinic
Sponsored by U Wisconsin ADCL, University of Wisconsin, Madison, Wisconsin
- 10:00 am **Risk Perception: Canadian Opinions on Nuclear and Medical Technologies Pre- and Post-Fukushima**
Nicholas Priest, AECL
- 10:40 am **2011 Gunderson Award presented to Marshall Cleland, IBA Industrial, Inc.**
International Registry of Radiation Safety Officers – IRRSO
- 10:50 am Q & A
- 11:00 am Break; Coffee and Discussion
- 11:45 am **Food Irradiation: A Global Perspective and Future Prospects**
Ron Eustice, Minnesota Beef Council
- 12:15 pm **Public Perception of Irradiation of Food**
Anuradha Prakash, Chapman University
- 12:45 pm Lunch
- 1:45 pm **Grants Workshop** - Program managers and affiliates from government agencies and funding organizations will present short synopses of funding opportunities related to radiation research and the public perception of radiation.
- 3:15 pm Break; Coffee and Discussion
- 3:45 pm **Concurrent Working Group Sessions**
- IAME: Industrial Applications and Materials Effects
Medical Applications
RP/HS: Radiation Protection / Homeland Security
- 5:20pm Adjourn
- 6:30 pm Dinner at Smokey Glen Farms

PLENARY AGENDA, continued

Wednesday, October 19

- 8:30 am Continental Breakfast
- 9:00 am President's Welcome Back
- 9:15 am **Student Travel Grant Awards**
- Marshall R. Cleland/IBA Industrial Inc. 2011 Student Travel Grant
Effects of Low-dose Irradiation on the Quality of Table Grapes
Gina Paek, Chapman University
- ASTM International 2011 Student Travel Grant
Design, Development, and Evaluation of a Modified, Anthropomorphic, Head and Neck, Quality Assurance Phantom for Use in Stereotactic Radiosurgery
Austin Faught, University of Texas M.D. Anderson Cancer Center
- NIST Ionizing Radiation Division 2011 Student Travel Grant
Determining the Effects of Well-type Chamber Sample-volume Dependence on the Current Clinical Method Used to Determine the Activity for ⁹⁰Y Microsphere Treatments
Adam Paxton, University of Wisconsin
- 10:00 am **Why No One Believes Us: Cognitive Neuroscience and Radiation Risk**
R.E. Toohey, President-Elect Health Physics Society
- 10:30 am **From Heat Shrink to Shape Memory to Flexible Bioelectronics: Why Radiation Doesn't Deserve a Bad Wrap**
Walter Voit, University of Texas at Dallas; Syzygy Memory Plastics
- 11:00 am Break; Coffee and Discussion
- 11:45 am **Radiation Security**
Jill Segraves, Transportation Safety Administration
- 12:15 pm **Randall S. Caswell Award for Distinguished Achievement in the Field of Ionizing Radiation Measurements and Standards**
- Presented to Kenneth G.W. Inn, National Institute of Standards and Technology**
- 12:45 pm Lunch
- 1:45 pm **Concurrent Working Group Sessions**
- 3:15 pm Break; Coffee and Discussion
- 3:45 pm **Concurrent Working Group Sessions, continued**
- 5:20 pm Adjourn

PLENARY AGENDA, continued

Thursday, October 20

- 8:30 am Continental Breakfast
- 8:55 am President's Welcome Back
- 9:00 am **Working Group Summaries**
- 10:00 am **Discussion of the CIRMS Fifth Report on Needs in Ionizing Radiation**
- 11:30 am **Presentation of New Officers**
- 12:00 pm Adjourn; Box Lunch

IAME (INDUSTRIAL APPLICATIONS AND MATERIALS EFFECTS) WORKING GROUP AGENDA

Monday, October 17

1:45 pm	Roberto Uribe , Kent State University	<i>Low Temperature Dosimetry</i>
2:15 pm	Brad Lundahl , Sterigenics	<i>Process Control</i>
2:45 pm	Mohamad Al-Sheikhly , U. of Maryland	<i>E-beam Applications for Nano and Advanced Materials</i>
3:15 pm	Coffee and Discussion	
3:45 pm	Raymond Rouse , TVA	<i>US Nuclear Industry Accident</i>
4:15 pm	Steve Fowler , Fowler Associates	<i>Radiation History</i>
4:45 pm	Steve Fowler , Fowler Associates	<i>Radiation History</i>
5:20 pm	Adjourn	

Tuesday, October 18

3:45 pm	Teresa Croce , FDA/CFSAN/OFAS	<i>Regulatory Update</i>
4:05 pm	Kim Morehouse , FDA/CFSAN/ORS	<i>Furan Issue Status Update</i>
4:25 pm	Jeff Barach , Grocery Manufacturers Ass'n	<i>Industry Perspective</i>
4:55 pm	Harlan Clemens , Sadex	
5:20 pm	Adjourn	

Wednesday, October 19

1:45 pm	Michon Oubichon , USDA/APHIS	<i>Phytosanitary</i>
2:15 pm	Anu Prakash , Chapman University	<i>Fresh Cut Fruit and Vegetables</i>
2:45 pm	Roberto Uribe , Kent State University	
3:15 pm	Coffee and Discussion	
3:45 pm	Maria Paula Junquiera , U. of Santiago, Chile	<i>Food Irradiation Public Perception</i>
4:15 pm	Jim Harvey , NorthStar Radioisotopes	<i>New Radioisotope Production Facility</i>
4:45 pm	tbd	<i>E-Beam Technology Center</i>
5:20 pm	Adjourn	

CIRMS MEDICAL (MED) SUBCOMMITTEE-PARALLEL SESSIONS

Monday Oct. 17th

1:45 pm – 3:30 pm

Session I: Risk and Medical Events

1:45 pm – 2:15 pm

William Hendee, “**Patient Safety in Computed Tomography**”

2:15pm - 2:45 pm

Michael Herman, “**Patient Safety in Radiation Therapy**”

2:45 pm – 3:15 pm

Bruce Thomadsen, “**Radiation Calibration and Assay and the Public Perception of Patient Safety**”

3:15 pm – 3:30 pm

Questions and Discussion

3:15 pm – 3:45 pm

Break

3:45 pm – 5:15 pm

Session II: Dosimetry

3:45 pm – 4:15 pm

Jatinder Palta, “**Sources of Uncertainty in Radiation Therapy**”

4:15 pm – 5:15 pm

John Warman, “**Radio-Fluorogenic Dosimetry: Shedding Light on Ionizing Radiation**”

5:15 pm – 5:30 pm

Questions and Discussion

Tuesday October 18th

3:45 pm – 5:20 pm

Session III: CT Dosimetry

3:45 pm – 4:30 pm

Larry DeWerd, “**Dosimetry in CT**”

4:30 pm - 5:15 pm

Mytheryi Chatfield, “**ACR CT Dose Registry**”

5:15 pm – 5:30 pm

Questions and Discussion

Wednesday Oct. 19th

1:45 pm – 3:30 pm

Session IV: Calibration of Electronic Brachytherapy (eBt) X-ray Source (XOFT)

1:45 pm – 2:15 pm

Tom Rusch, “**Xoft Axxent eBx Source: Design and Pre-shipment Characterization**”

2:15pm -2:45 pm

Steve Davis, “**Air-kerma Strength Calibration of the Xoft Source**”

2:45 pm – 3:15 pm

Michael Mitch, NIST, “**NIST Air-Kerma Standard for the Xoft eBx Source**”

3:15 pm – 3:30 pm

Questions and Discussion

3:15 pm – 3:45 pm

Break

3:45 pm – 5:15 pm

Session V: Dosimetry of Low Energy X-rays (XOFT)

3:45 pm – 4:15 pm

Steve Davis, “**Dosimetry of the Xoft Source**”

4:15 pm – 4:45pm

Regina Fulkerson, “**Surface Applicators**”

4:45pm - 5:30 pm

Questions and Discussion and NEEDS information

RADIATION PROTECTION WORKING GROUP AGENDA

Summary: The Radiation Protection working group is responsible for the identification of research and standards needed in the occupational, public, and environmental radiation protection communities and serves as the active forum for the discussion of current topics of interest. This year the sub-committee breakout session will focus on general topics in radiation protection as well as mass spectrometry (atom-counting) techniques. The session will include the capabilities of the various state-of-the-art mass spectrometry instrumentation and the potential role of mass spectrometry in nuclear forensics/attribution, health and medical aspects of radiation protection, post-rad incident population screening, radiation food safety.

Goal: After the series of presentations, we will hold discussions to identify SRM and measurement needs for the radiation protection and mass spec communities involved in the above topical areas and put together Measurement Program Description(s) (MPDs) in collaboration with subcommittee members that will include identification of future action items and resources needed. This will become a part of a larger report on the National Needs in Ionizing Radiation Measurements.

Radiation Protection and Mass Spectrometry Breakout Session

Monday, October 17th

- 1:45 pm **Mike Boyd** – US EPA - "A Review of Recent Radiation Protection Activities at US EPA"
- 2:15 pm **Nicholas Priest** – Atomic Energy of Canada Ltd – "Fukushima"
- 2:45 pm **J.K. Zickefoose** – Canberra – "Monitoring Food Items for Radioactivity Contamination"

- 3:15 pm Break

- 3:45 pm **Marcy Grace** – US HHS – "Biodosimetry Research and Product Development Efforts for Public Health Emergencies within BARDA"
- 4:15 pm **Chuck Douthitt** – Thermo Fisher Scientific – "State-of-the-Art Mass Spectrometric Instrumentation"
- 4:45 pm **Robert D. Vocke** – NIST – "Does Mass Spectrometry Have a Place in Ionizing Radiation Detection and Measurement"
- 5:20 pm Adjourn

Tuesday, October 18

- 3:45 pm Discussion of Presentations and Previous Measurement Program Description(s) MPD(s)
- 5:20 pm Adjourn

Wednesday, October 19

- 1:45 pm Identification of MPDs - future action items and resources needed by communities

- 3:15 pm Break

- 3:45 pm Identification of MPDs - future action items and resources needed by communities (continued)
- 5:20 pm Adjourn

Thursday, October 20

- 9:00 am Working Group Summaries