

CIRMS 19th Annual Meeting October 18 – 20, 2010
“**IONIZING RADIATION SOURCES: USES, AVAILABILITY, AND OPTIONS**”

Agenda

Monday, October 18

- 8:30 am Continental breakfast
- 9:15 am **President's Welcome**
Kim Morehouse, President, CIRMS
- 9:30 am **Welcome to NIST**
William R. Ott, Deputy Director, Physics Laboratory
- 9:45 am **A Rational Consideration of the Exposure Risks in Medical Radiation**
Bruce Thomadsen, University of Wisconsin
- 10:15 am **Use of Co-60 and Cs-137 in Radiation Therapy and Blood Irradiation**
Manny Subramanian, Best Medical International
- 10:45 am Break: Poster Session
- 11:30 am **New Methods in the Accelerator Production of Radioisotopes**
Yves Jongen, Ion Beam Applications SA
- 12:00 pm **Overview of the U.S. Nuclear Regulatory Commission's Initiatives on the Use of Cesium-137 Chloride Sources**
John Jankovich, U.S. Nuclear Regulatory Commission
- 12:30 pm General Discussion
- 12:45 pm Lunch
- 1:45 pm **Concurrent Working Group Sessions**

In addition to the CIRMS meeting plenary sessions, each of the three 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 a draft of the forthcoming CIRMS fifth "Needs Report" and a prioritization of the needs in ionizing radiation.

Medical Applications
Industrial Applications and Materials Effects
Radiation Protection / Homeland Security

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Monday, October 18, continued

In the Medical Applications area, Working Group discussions will continue on the risks of over-exposure using CT scans and on isotope supply and demand for nuclear medicine and diagnostics, on developments in proton beam therapy and proton beam dosimetry, and on alternative, innovative technologies for imaging gently.

In the Public and Environmental Radiation Protection (PERP) and Homeland Security area, Working Group discussions will continue on the methods for cargo inspection, including more detail on the use of nuclear resonance fluorescence (NRF), and a review of the American National Standards Institute (ANSI) and Department of Homeland Security inspection standards, including non-invasive techniques involving automated target recognition.

In the Industrial Applications and Material Effects (IAME) Working Group sessions, discussions will be held on the development in the use and acceptance of food irradiation, on low-energy electron beams for food and medicinal packaging decontamination used in conjunction with aseptic package filling, on regulatory issues involving packaging materials, on the use and requirements for dosimetry, on in-plant safety and safety systems for accelerators, on Co-60 replenishment for research irradiators and alternatives, and on emerging technologies such as the use of x rays for medical device sterilization.

- 3:30 pm Break
- 3:45 pm **Concurrent Working Group Sessions** (continued)
- Medical Applications
 Industrial Applications and Materials Effects
 Radiation Protection / Homeland Security
- 5:20 pm Adjourn

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Tuesday, October 19

8:30 am Continental breakfast

8:55 am **President's Welcome Back**

9:00 am **Student Travel Grant Awards Presentations**

- **ASTM International 2010 Student Travel Grant**
- **Marshall R. Cleland/IBA Industrial 2010 Student Travel Grant**
- **NIST Ionizing Radiation Division 2010 Student Travel Grant**
- **Thermo Fisher Scientific 2010 Student Travel Grant**

10:00 am **A General Perspective of the Challenges Associated With Detecting Special Nuclear Materials and Explosives Using Multi-Energy Electron Bremsstrahlung Radiography**
Dolan Falconer, ScanTech / Identification Beam Systems

10:30 am **Nuclear Resonance Fluorescence and its Potential Use in Active Inspection Technologies**
Alan Hunt, Idaho State University

11:00 am Break; Poster Session

11:30 am **Concurrent Working Group Sessions** (continued)

Medical Applications
Industrial Applications and Materials Effects
Radiation Protection / Homeland Security

12:45 pm Lunch

1:45 pm **Concurrent Working Group Sessions** (continued)

3:30 pm Break

3:45 pm **Concurrent Working Group Sessions** (continued)

5:20pm Adjourn

6:15 pm Bus from Hilton Hotel to dinner

6:30 pm Dinner at Smokey Glen Farm, Gaithersburg, MD.

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Wednesday, October 20

- 8:30 am Continental breakfast
- 9:10 am **President's Welcome Back**
- 9:15 am **Low-energy EB for Surface Decontamination and Surface Treatment**
Philippe Liger, Getinge la Calhene
- 9:45 am **Development of Biomarker Assays for Radiation Biodosimetry: Requirements for Mass Casualty Scenarios**
*Marcy Grace, U.S. Department of Health and Human Services
Biomedical Advanced Research Development Authority*
- 10:15 am **Isotope Development, Production, and Distribution**
John Pantaleo, Office of Nuclear Physics, U.S. Department of Energy
- 10:45 am Break
- 11:15 am **Randall S. Caswell Award for Distinguished Achievement in the Field of Ionizing Radiation Measurements and Standards** presented to:

Geoffrey S. Ibbott, University of Texas M.D. Anderson Cancer Center
- 12:00 Working group summaries, the CIRMS Needs Report, introduction of new officers
- 12:45 Adjourn and lunch