

## PLENARY AGENDA

Monday, October 22

- 8:30 am Continental Breakfast
- 9:00 am **President's Welcome**  
*Roberto Uribe, President, CIRMS*
- 9:10 am **Welcome to NIST**  
*James Olthoff, Deputy Director of the Physical Measurement Laboratory, National Institute of Standards and Technology*
- 9:20 am **International Traceability**  
*John Logar, Chairman of Committee E61 on Radiation Processing and Applications, ASTM International*
- 9:50 am Questions and Answers
- 10:00 am **Standards and Conformity Assessment for CBRNE**  
*Bert Coursey, National Institute of Standards and Technology*
- 10:20 am Questions and Answers
- 10:30 am Break; Coffee and Discussion
- 11:00 am **Establishing Traceability in High Dose Industrial Dosimetry**  
*Peter Sharpe, National Physical Laboratory, UK*
- 11:20 am Questions and Answers
- 11:30 pm **Poster Session**
- 12:45 pm Lunch
- 1:45 pm **Concurrent Working Group Sessions** - The subcommittees of the CIRMS Science and Technology Committee will hold various Working Group sessions. These sessions will go into greater detail on specific topics and include a review of the CIRMS "Fifth Report on Needs in Ionizing Radiation" and a prioritization of those needs.
- Working group descriptions follow the plenary agenda.**
- 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 23

- 8:30 am Continental Breakfast
- 8:55 am President's Welcome Back
- 9:00 am **What is the Real Value of W<sub>air</sub> in the Radiotherapy Energy Range?**  
*Malcolm McEwen, National Research Council Canada*
- 9:20 am Questions and Answers
- 9:30 am **Achieving Measurement Traceability through Use of ASTM Dosimetry Standards**  
*Denise Cleghorn, Boston Scientific*
- 9:50 am Questions and Answers
- 10:00 am **Thin-Film Semiconductor Technology Applied to Large Area Radiation Detectors**  
*Bruce Gnade, University of Texas at Dallas*
- 10:20 pm Questions and Answers
- 10:30 am Break; Coffee and Discussion
- 11:00 am **CIRMS Student Awards**  
Sponsored by ASTM International, Hopewell Designs, Inc., IBA Industrial, Inc., and NIST
- 11:00 am **Selected Student Presentations**
- 12:10 pm **Randall S. Caswell Award for Distinguished Achievement in the Field of Ionizing Radiation Measurements and Standards**  
  
*Joseph C. McDonald, Pacific Northwest National Laboratory, retired*
- 12:35 pm Questions and Answers
- 12:45 pm Lunch
- 1:45 pm **Concurrent Working Group Sessions**
- 3:15 pm Break
- 3:45 pm **Concurrent Working Group Sessions (continued)**
- 5:20 pm Adjourn
- 6:30 pm Dinner at Smokey Glen Farms

**PLENARY AGENDA, continued**

Wednesday, October 24

- 8:30 am Continental Breakfast
- 8:55 am President's Welcome Back
- 9:00 am **Management of Radiotherapy Patients with Pacemakers and Defibrillators**  
*Moyed Miften, University of Colorado School of Medicine*
- 9:20 am Questions and Answers
- 9:30 am **Nuclear Forensics - Metrological Basis for Legal Defensibility**  
*Jeffrey Leggitt, Federal Bureau of Investigation*
- 9:50 am Questions and Answers
- 10:00 am Break; Coffee and Discussion
- 10:30 am **Concurrent Working Group Sessions**
- 12:45 pm Lunch
- 1:45 pm **Concurrent Working Group Sessions, continued**
- 3:15 pm Break; Coffee and Discussion
- 3:45 pm **Working Group sessions on MPDs and update of the Report on Needs in Ionizing Radiation**
- 5:20 pm Adjourn

Thursday, October 25

- 8:30 am Continental Breakfast
- 8:55 am President's Welcome Back
- 9:00 am **Summary of Working Groups**
- 10:00 am **Closing Remarks, Introduction of New Officers**
- 10:15 am Adjourn

**IAME – INDUSTRIAL APPLICATIONS AND MATERIALS EFFECTS SUBCOMMITTEE**

**WORKING GROUP AGENDA**

Monday 1:45 – 3:15

Jin-Woo Lee – Material compensation for radiation thickness gauges

Tony Berejka – Ionizing Radiation Use

Monday 3:45 – 5:15

Kevin O’Hara – New gamma irradiator designs

Tony Berejka – Ionizing Radiation Development

Tuesday 1:45 – 3:15

Dr. Mohamad Al-Sheikhly – “Advancements of the Extraction of Uranium from Seawater”

Jeremy Simon – “Sealed Electron Beam Emitter for Use in Narrow Web Curing, Sterilization and  
Laboratory Applications”

Tuesday 3:45 – 5:15

Marc Derosiers – “So, what should we do with these check standards?”

Wednesday 10:30 – 12:45

Discussion for new Measurement Program Descriptions (MPDs)

Wednesday 1:45 – 3:15

Walter Voit - tbd

Wednesday 3:45 – 5:15

Measurement Program Descriptions (MPDs)

Update of the Report on Needs in Ionizing Radiation

## MEDICAL (MED) SUBCOMMITTEE

### WORKING GROUP AGENDA

Monday, Oct. 22

#### Breakout Session I: Current Standards in Radiation Therapy

	<u>Topic</u>	<u>Speaker</u>
1:45-2:15	Linac dosimetry – are chamber-specific calibration factors really necessary?	Malcolm McEwen, PhD
2:15-2:45	Development of standards in proton therapy	Geoff Ibbott, PhD
2:45-3:15	Role of NIST in creating standards for radiotherapy	Mike Mitch, PhD
3:15-3:30	Questions and discussion	
3:15-3:45	Break	

#### Breakout Session II: Imaging and Non-ionizing Radiation Standards

3:45-4:15	CT patient dose software	Alping Ding, PhD
4:15-4:45	MITA dose standard	David Zamora, MS
4:45-5:15	Imaging standards in daily procedures	Doug Pfeiffer, MS
5:15-5:30	Questions and discussion	

Tuesday, Oct. 23

#### Breakout Session III: Pathways for Development of Careers in the Field of Medical Physics / Miscellaneous

3:45-4:15	Dosimetry for air travelers	Larry Hudson, PhD
4:15-4:45	ADCL/education/standard	Larry DeWerd, PhD
4:45-5:15	Round table with students re: residencies and degree programs	All
5:15-5:30	Questions and discussion	

**MEDICAL (MED) SUBCOMMITTEE**  
**WORKING GROUP AGENDA, continued**

Wednesday, Oct. 24

10:30-12:45      to be determined

Breakout Session IV: Challenges and Future Needs of Medical Uses of Radiation

	<u>Topic</u>	<u>Speaker</u>
1:45-2:15	Radiotherapy patients and pacemakers	Moyed Miften, PhD
2:15-2:45	Calorimetry of low-energy brachy sources – BEST medical student award	Martha Malin, MS
2:45-3:15	Future needs for standards in microbrachytherapy	Reed Selwyn, PhD
3:15-3:30	Questions and discussion	
3:15-3:45	Break	
3:45-5:15	Discussion of Needs Report	All

## **RADIATION PROTECTION / HOMELAND SECURITY SUBCOMMITTEE**

### **WORKING GROUP AGENDA**

- **USDOE Radiological Traceability Program**  
Svetlana Nour [University of Hawaii/NIST],
  
- **NIST Radiochemistry Intercomparison Program**  
Jerome LaRosa [NIST]
  
- **Traceability of Activity Standardizations Supporting Nuclear Forensics**  
John Keightley, National Physical Laboratory
  
- **Radiological Chronometry of Uranium Metal Samples**  
Lisa Meyers, University of Cincinnati
  
- **CRMs for Countering RN Weapons of Mass Destruction**  
Jacqueline Mann/Kenneth G.W. Inn [NIST]
  
- **Updates on Current MPDs**
  
- **Discussion of New Topics for MPDs**