



**Council on Ionizing Radiation Measurements and Standards
23rd Annual Meeting, 2015**

“FUNDAMENTALS OF IONIZING RADIATION”

April 27 – 29, 2015

PLENARY AGENDA

Monday, April 27

- 8:30 am Continental Breakfast/Registration
- 9:00 am **President's Welcome**
Dr. Kim M. Morehouse, President, CIRMS
- 9:15 am **Welcome to NIST**
Dr. Lisa R. Karam, Chief
Radiation Physics Division, Physical Measurement Laboratory
National Institute of Standards and Technology, MD
- 9:30 am **Intro to NEEDS REPORT**
Dr. Walter E. Voit, CIRMS 1st Vice President
University of Texas at Dallas
- 9:45 am **Keynote Address**
Dr. Robert C. Baumann, Texas Instruments, TX
"Silicon Amnesia and Dementia: Radiation Effects in Microelectronics"
- 10:15 am **Discussion**
- 10:30 am Coffee Break
- 10:45 am **Plenary Session I**
Kevin O'Hara, Sterigenics, USA
"The Fundamentals of Ionizing Radiation as Applied to Radiation Processing"

11:15 am

Student Travel Grant Awards Presentations:

CIRMS Student Travel Grant – sponsored by ASTM International

Mitchell Carroll, UT MD Anderson Cancer Center
“Investigation of PRESAGE as a 3D Dosimetric Tool for Proton Therapy by Measurement of Proton-activated Positron Emission”

CIRMS Student Travel Grant – sponsored by Hopewell Designs Inc.

Jon Hansen, University of Wisconsin - Madison
“Capacitance Methods to Determine Electrode Area and Air Gap for Windowless Planar Extrapolation Chamber”

CIRMS Student Travel Grant – sponsored by IBA Industrial

Travis Dietz, University of Maryland College Park
“Improvement of Radiation Grafting of Selective Ligands onto Polymeric Substrates to Produce High-capacity Adsorbents for Harvesting Uranium from Seawater”

CIRMS Student Travel Grant – sponsored by Radiation Physics Division of NIST

Sameer Taneja, University of Wisconsin - Madison
“A Monte-Carlo Based Spectroscopic Characterization of a Cs-137 Irradiator with Attenuating Material”

11:45 am

Poster Summaries

12:00 pm

Poster Viewing

12:45 pm

Lunch

1:45 pm

Concurrent Working Group Sessions: IAME, Medical App, RP/HS Working Group Session I

3:30 pm

Coffee Break

3:45 pm

Working Group Session II

5:30 pm

Adjourn

Tuesday, April 28

8:30 am

Continental Breakfast

9:15 am

President’s Welcome

Dr. Kim M. Morehouse, President, CIRMS

9:30 am

Plenary Session II

Dr. Michael S. Gordon, IBM T.J. Watson Research Center, NY
“Challenges in Ultra-low Emissivity Alpha Particle Detection”

10:00 am

**Randall S. Caswell Award for Distinguished Achievement in the Field of Ionizing Radiation Measurements and Standards presented to:
X. George Xu, PhD Rensselaer Polytechnic Institute**

10:30 am

Coffee Break

- 10:45 am **Plenary Session III**
 Dr. Frédéric Tessier, National Research Council, Canada
“Resolving the Anomalous Behavior of the NE2575 Ionization Chamber with EGSnrc Simulations”
- 11:15 am **Poster Summaries**
- 11:30 am **Poster Viewing**
 12:45 pm Lunch
- 1:45 pm **Concurrent Working Group Sessions (continued): IAME, RP/HS**
Working Group Session III
 3:30 pm Coffee Break
- 3:45 pm **Working Group Sessions IV**
 5:30 pm Adjourn Day 2
- 6:15 pm Bus from Hilton Hotel to Smokey Glen Farm
- 6:30 pm Barbecue Dinner at Smokey Glen Farms

[Wednesday, April 29](#)

- 8:30 am Continental Breakfast
- 9:15 am **Welcome Back**
 Dr. Kim M. Morehouse, President, CIRMS
- 9:30 am **Plenary Session IV**
 Dr. Firas Mourtada, Christiana Care's Helen F. Graham Cancer Center & Research Institute, DE
“Recent Advances in Brachytherapy Dose Calculations Methods—The Need for Standardization is Now More than Ever”
- 10:00 am **Plenary Session V**
 Dr. Daniel A. Hahn, University of Florida, FL
“Developing Biomarkers of Irradiation of Insects to Facilitate International Trade in Agricultural Commodities”
- 10:30 am Coffee Break
- 10:45 am **Closing Address**
 Paul Wynne, International Irradiation Association, United Kingdom
“Irradiation in a Changing World”
- 11:15 am **Report on Needs in Ionizing Radiation**
- 12:30 pm **Closing Remarks/New Officers**
 12:45 pm Lunch
- 2:30 pm **ExComm Meeting**
 3:30 pm Adjourn