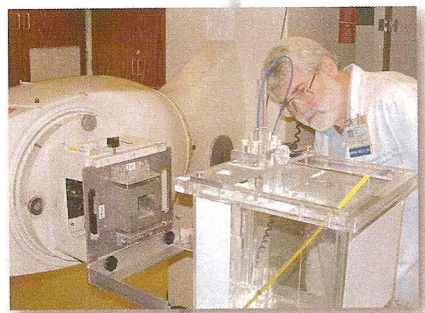


15th Annual Meeting

COUNCIL ON IONIZING RADIATION MEASUREMENTS AND STANDARDS

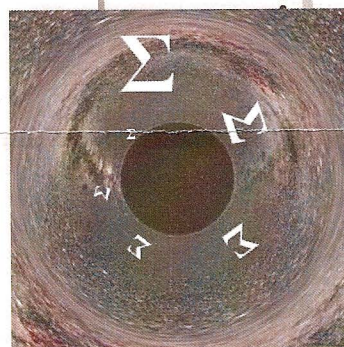
CIRMS 2006



Implications of
Uncertainty in
Radiation
Measurements and
Applications

October 23-25, 2006

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NIST

National Institute of Standards and Technology
Technology Administration, U.S. Department of Commerce

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President's Letter

On behalf of the Executive Committee, it is my honor to invite you to attend the 15th annual meeting of the Council on Ionizing Radiation Measurements and Standards (CIRMS) scheduled for October 23-25, 2006 at the National Institute of Standards and Technology (NIST), Gaithersburg, Maryland. The theme of this year's meeting is "Implications of Uncertainty in Radiation Measurement and Applications." The vital implications of the dynamic and diverse aspects of uncertainty will be addressed by international experts from academia, industry, and government, on radiation protection, industrial applications and radiation effects, medical applications, homeland security, and other related areas.

As we are moving ahead with advancements in radiation measurements and promotion of related standards, several international and national organizations, such as ASTM and ISO, have their own vision and approach in evaluating and presenting uncertainties. The ultimate objective of the CIRMS 15th meeting is to search for common grounds and move toward more unifying terms and understanding among these organizations.

This year's meeting provides a unique and excellent opportunity to the entire ionizing radiation user community to meet and discuss developments and new trends relating to uncertainties in ionizing radiation applications. The meeting will also present attendees with the basic principles of uncertainty so as to provide a fundamental knowledge to those who have just started working in this field. In addition to the general plenary sessions, there will be several parallel breakout sessions devoted to aspects of uncertainty in radiation therapy and protection, radiation processing and dosimetry, and homeland security. In every breakout session, uncertainties in measurements and standards, how they are defined and how they impact the various applications of radiation will be presented, debated and discussed extensively. The final conclusions of these breakout sessions will be presented in a joint plenary session at the end of the meeting. I take this opportunity to encourage you to submit your abstract to be presented as a poster or as a presentation in one of the breakout sessions.

Since its conception, CIRMS has strongly encouraged and supported the participation of students in presenting their research at the annual meetings. CIRMS will proudly continue this tradition by encouraging students to present their work through the Student Travel Grant Program awards through which as many as four students are reimbursed for their expenses to attend the meeting and make an oral presentation at the plenary session on October 25. As last year, corporate sponsors of CIRMS are invited to present posters that enable the attendees to better learn about the wide variety of organizations that support CIRMS.

I am pleased to announce that this year's conference dinner, at the Willow Tree Inn, will be held in honor of two pioneers in radiation science and technology: Dr. Marshall Cleland, co-founder of the accelerator manufacturer, Radiation Dynamics, Incorporated (a subsidiary of Ion Beam Applications), and Dr. Joseph Silverman, professor emeritus at the University of Maryland and an historic leader in the field of radiation chemistry and physics. It is also my pleasure to report that the CIRMS Caswell Award for Distinguished Achievements in the Field of Ionizing Radiation Measurements and Standards will be presented to Mr. Kenneth Swinth at this year's meeting.

I look forward to seeing all at the 15th annual CIRMS meeting, and to your active participation in the exciting and dynamic discussions to be had on the evolving visions, terminology, and methods for determining uncertainties in radiation measurements and standards.

Mohamad Al-Sheikhly, President of CIRMS
University of Maryland
College Park, Maryland USA

Meeting Focus

The 15th Annual Meeting of the Council on Ionizing Radiation Measurements and Standards will focus on implications of uncertainty in radiation measurements and applications for industry, academia and government. In the past fifteen years, CIRMS has played an important role in serving as a public forum for discussion of radiation measurements and standards issues. The technical program this year will consist of oral and poster presentations and three parallel workshops that address the following topics (since issues in homeland security and for first responders can be found in each field - medicine, protection, and industry - these will be addressed in each workshop as appropriate):

- Medical Applications [diagnostic and therapeutic radiology, nuclear medicine]
- Radiation Protection [radiochemistry, waste analysis, personnel dosimetry, electronic dosimeters, bioassay and internal dosimetry environmental dosimetry,
- Industrial Applications and Materials Effects [dosimetry for radiation processing, radiobiology, safety at radiation facilities]

Plenary Sessions

The plenary sessions of this year's meeting include talks on methods of determining uncertainties in measurements, historical and international perspectives on promulgation of uncertainty, and regulatory and non-regulatory guidance issues. Breakout sessions will provide updates on topics presented at past meetings as well as the impact of uncertainties in measurements in industry, radiation protection, medicine, and homeland security.

Poster Sessions

Two blocks of time will be allocated to poster viewing and discussion. One session will focus on the activities of CIRMS's sponsoring organizations and one session will feature proffered posters on a variety of topics including the research activities of the winners of the Student Travel Grants.

As is traditional with CIRMS meetings, afternoon periods will be devoted to parallel breakout sessions in medical applications, radiological protection and industrial applications/materials effects.

Anyone wishing to make an oral presentation at a breakout session or present a poster are asked to submit an abstract to Katy Nardi by July 14, 2006. E-mail: knardi@cirms.org.

Registration

The registration fee of \$200 per person includes conference materials, coffee breaks, lunches, and a dinner. Please complete and return the attached interest card by, **July 14, 2006**. Further agenda and registration information will be forwarded in late August to all who respond. Due to increased security, no on site registrations will be accepted and all attendees must be pre-registered.

Electronic registration is available at: <https://rproxy.nist.gov/CRS/>
Please scroll down to the dates of the conference.

Accommodations

A block of rooms has been reserved at the Hilton Washington DC North/Gaithersburg, (301) 977-8900, at a special rate of \$139 single or double, plus 12% tax. Reservations must be received by **October 1, 2006**.

Technical Information

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15th Annual CIRMS Meeting

October 23-25, 2006

Please place in an envelope and return by July 14, 2006, to:

Katy Nardi
CIRMS
P.O. Box 1238
Duluth, GA 30096
or fax to: (770) 622-0026

Interest Card

Name	_____		
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