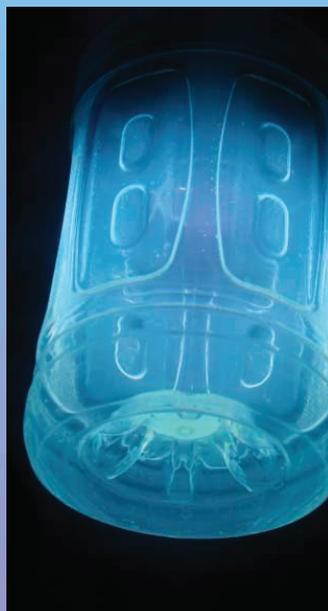
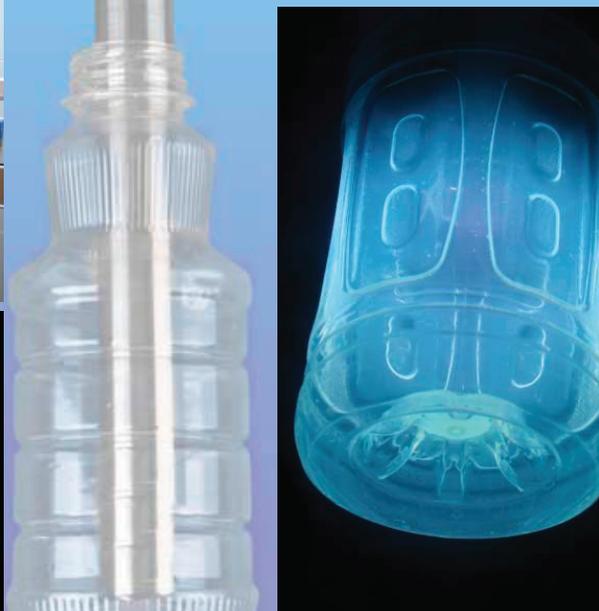
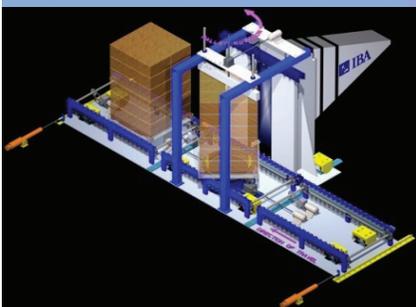
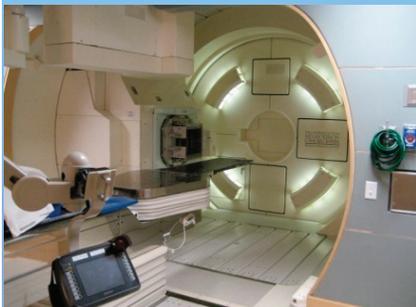


# 19<sup>th</sup> Annual Meeting

COUNCIL ON IONIZING RADIATION  
MEASUREMENTS AND STANDARDS

# CIRMS 2010

## Ionizing Radiation Sources: Uses, Availability, and Options



October 18-20, 2010

**NIST**

**National Institute of  
Standards and Technology**

U.S. Department of Commerce

[www.cirms.org](http://www.cirms.org)

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## President's Letter

On behalf of the Executive Committee, it is my honor to invite you to attend the 19th annual meeting of the Council on Ionizing Radiation Measurements and Standards (CIRMS) to be held October 18-20, 2010 at the National Institute of Standards and Technology (NIST) in Gaithersburg, MD. The meeting's theme is "Ionizing Radiation Sources: Uses, Availability, and Options." In light of recent developments associated with the availability, transport, and use of radioisotopes, the CIRMS Executive Committee has developed a program to address some of the critical aspects associated with various sources of radiation, both machine and isotope derived. We will address the availability, transport, and use of radioisotopes, and the potential disruptions that can occur should these isotopes no longer be available, as well as options for the use of machine sources to replace isotopes such that a fundamental understanding can be gained by those unfamiliar with the topic. The dynamic and diverse aspects of the importance of measurements and standards in this area will be addressed by internationally-recognized experts from academia, industry, and government on radiation protection, industrial applications and radiation effects, medical applications, homeland security, and other related areas. I invite you to visit our website, [www.cirms.org](http://www.cirms.org), for updates on the evolving program.

CIRMS is an organization made up of leaders from the academic, government, and industrial sectors who are dedicated to identifying the needs for new measurement technologies and the development of new standards in the field of ionizing radiation. This meeting provides a unique and excellent opportunity to the entire ionizing radiation user community to meet and discuss developments and new trends related to the fundamental aspects associated with various radiation sources. In addition to the general plenary sessions, there will be several working group sessions devoted to aspects of radiation sources in radiation therapy (medical), industrial applications, radiation protection, and homeland security. In every working group session, the needs for measurement standards in these areas will be explored by discussing the current "CIRMS Needs Report," modifying the Needs as necessary. The final conclusions from these sessions will be presented in a joint plenary session at the end of the meeting. In addition, I encourage you to submit an abstract of work to be presented during one of the working group sessions, or as a poster.

Since its beginning, CIRMS has strongly encouraged and supported the participation of students in presenting their research, in the working groups or as posters, at the annual meetings. Additionally, CIRMS proudly continues its tradition of support through the Student Travel Grant program awards, through which up to four students will be reimbursed for their expenses to attend the meeting and make an oral presentation at the plenary session (for further information, refer to the CIRMS website). As always, CIRMS 2010 sponsors are invited to present posters that enable the attendees to better learn about the wide variety of organizations and corporations that support CIRMS; limited space for table top displays will also be available.

I look forward to seeing all of you at the 19th annual CIRMS meeting, and your active participation in the exciting and dynamic discussions to be held on the evolving visions of measurements and standards in the radiation arena.

Kim M. Morehouse, CIRMS President

## Meeting Focus

The 19th Annual Meeting of the Council on Ionizing Radiation Measurements and Standards will focus on the uses, availability and options for ionizing radiation sources. For the past nineteen years, CIRMS has played an important role in serving as a public forum for discussion of radiation measurements and standards issues for industry, academia and government. The technical program this year will consist of oral and poster presentations and three parallel working groups that address measurement and standards needs for the following topics:

- 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, food irradiation]

As 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.

## Student Awards

As in previous years, there will be a competition for student grants of up to \$1,000 to defray the expenses for at most four students to attend the 19th annual CIRMS meeting. This year's CIRMS annual meeting will focus on Radiation Source Options, and Awardees are expected to present a poster paper and deliver a brief oral presentation on their research efforts. The deadline for application submittal is Friday, September 10; further information can be found at [www.cirms.org](http://www.cirms.org) and click on "Student Travel Grant Information & Application."

## Plenary Sessions

The plenary sessions of this year's meeting will include talks on the use, availability and options for ionizing radiation sources, including both radioisotope and machine derived. Presentation topics will include radiation sources used in medical applications, source availability and transport, sterilization applications, alternative methods of isotope production, and reactor issues. Breakout sessions will provide updates on topics related to this year's general topic, and on other on-going efforts in the community.

## Poster Sessions

Two locations will be allocated to poster viewing and discussion. Activities of CIRMS' sponsoring organizations will be presented in the Employees' Lounge during all coffee breaks. Proffered posters on a variety of technical topics, including the research activities of the winners of the Student Travel Grants, will be presented along the Hall of Flags, just outside the primary meeting venue.

As is traditional with the CIRMS Annual Meeting, afternoons will be devoted to parallel breakout sessions in medical applications, radiological protection/ homeland security, and industrial applications and materials effects. Anyone wishing to make an oral presentation at a breakout session, or present a poster, is asked to submit an abstract to Katy Nardi by 2 July 2010. E-mail: [knardi@cirms.org](mailto:knardi@cirms.org).

## Registration

The registration fee will include conference materials, coffee breaks, lunches, and a dinner. Please complete and return the attached interest card by August 6, 2010. 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.

The site for electronics registration will be announced soon.

## 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 13% tax. This rate includes breakfast. Reservations must be received by October 8, 2010.

## Technical Information

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100 Bureau Dr. Stop 8460  
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## Registration Information

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# 19th Annual CIRMS Meeting

October 18-20, 2010

Please place in an envelope and return by July 2, 2010, to:

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

## Interest Card

Name			
Title			
Organization			
Address			
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