

22<sup>nd</sup> Annual Meeting

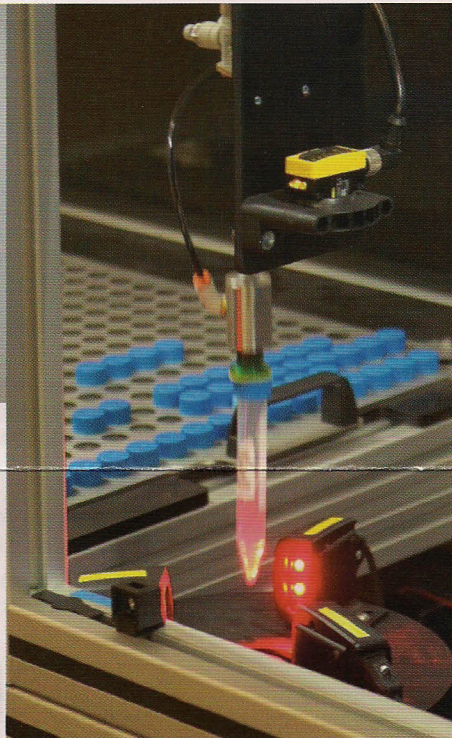
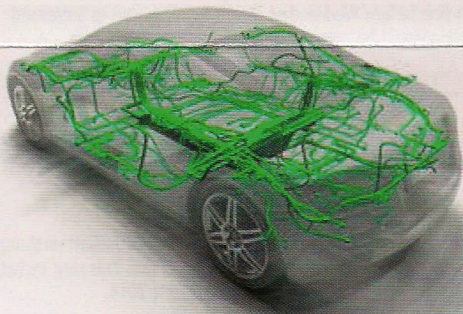
# CALL FOR ABSTRACTS

COUNCIL ON IONIZING RADIATION  
MEASUREMENTS AND STANDARDS

# CIRMS 2013

## \*NEW DATE\*

## Advanced Manufacturing and Technology



**March 10-12, 2014**

~~October 21-23, 2013~~

# NIST

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

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

## CIRMS 2013 Sponsors

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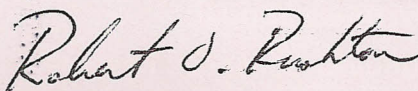
## President's Letter

On behalf of the Executive Committee, it is my honor to invite you to attend the 22nd annual meeting of the Council on Ionizing Radiation Measurements and Standards (CIRMS) to be held at the National Institute of Standards and Technology (NIST) in Gaithersburg, MD. The meeting was originally scheduled for October 21, 2013, but has now been rescheduled for March 10-12, 2014. We hope this new date will work well for everyone. The topic, "Advanced Manufacturing and Technology," promises to be especially interesting with a look at the latest developments in the medical field, industrial applications, radiation protection, and homeland security. This topic will be addressed by internationally-recognized experts from academia, industry, and government. 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 advances in manufacturing and technology 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 and adding Needs as necessary. The final conclusions from these sessions will be presented in a joint plenary session at the end of the meeting.

This announcement is an opportunity for another call for papers for participants interested in making a presentation at the conference. There is still time to submit an abstract of work to be presented during one of the working group sessions, or as a poster. The abstracts of the papers will be available at the beginning of the conference in a book of abstracts, the final presentation included in the conference page of the CIRMS website, and full version of the papers will be published in the Proceedings of Science after peer review evaluation. Since its beginnings, 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. CIRMS proudly continues its tradition to support outstanding students to present their work at the conference through the Student Grant Program Awards. Selected students will be reimbursed for some of 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 2013 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 22nd 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.



Robert O. Rushton, CIRMS President

### Meeting Focus

The 22nd Annual Meeting of the Council on Ionizing Radiation Measurements and Standards will focus on advanced manufacturing and technology. For more than twenty 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 group sessions that address measurement and standards needs in the following topics:

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

Participants are invited to submit abstracts for poster presentation and possible presentation during the working group sessions.

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### Student Awards

All students in the field are encouraged to participate in the annual CIRMS meeting, and to propose abstracts for presentation as posters or during the working group sessions. This year's CIRMS annual meeting will focus on advanced manufacturing and technology, and students are expected to present a poster paper

and, if selected, a brief oral presentation during the plenary session on their research efforts. The deadline for application submittal is Monday, February 10, 2014; further information can be found at <http://www.cirms.org/awards.html#stg>.

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### Plenary Sessions

The plenary sessions of this year's meeting will include talks on the development, use, and advantages of traceable measurements and standards for ionizing radiation; presentations will range from domestic and international traceability of radiation measurements and standards to confidence in metrics used to assess food irradiation, materials processing, homeland security, radiation protection and medical devices and procedures. Break out working group sessions will provide updates on topics related to this year's general theme, 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 Kristy Martin by Monday, February 10, 2014. E-mail: [CIRMS@cirms.org](mailto:CIRMS@cirms.org)

### Registration

The registration fee includes conference materials, coffee breaks, lunches, and a dinner. An updated agenda is available at [www.cirms.org](http://www.cirms.org) and will be provided on-site. Please register on-line before Wednesday, March 5, 2014; due to increased security, no on-site registrations will be accepted and all attendees must be pre-registered.

**PLEASE NOTE** that, if you registered for the meeting dates in October, your registration is still valid.

The site for electronics registration is <https://www.fbcinc.com/NIST/CIRMS/>

### 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 Friday, February 21, 2014.

### Technical Information

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### Registration Information

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