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| **Reported by (Name):** | **Regina Fulkerson, PhD** |
| **Organization:** | **Council on Ionizing Radiation Measurements and Standards** |
| **Position Title:** | **Treasurer, Medical Subcommittee co-chair** |
| **Activity:** | **Annual meeting, correspondence throughout the year, one excom retreat for meeting planning** |
| **Meeting Dates:** | **27-29 April 2015** |
| **Meeting Location:** | **NIST, Gaithersburg MD** |
| **Payment $:** | **1533.10** |
| **Reasons for Attending or not Attending** | **Member of executive committee** |
| **Issues from Previous Meetings or Year:** | **On going discussion of needs in the radiotherapy community as detailed on the cirms website: www.cirms.org** |
| **General Description of Activities of the Organization and/or Meeting:** | The Council on Ionizing Radiation Measurements and Standards (CIRMS) is organized for educational and scientific purposes to analyze the current and future needs of ionizing radiation measurements and standards. This includes the disciplines of medical applications, industrial applications, food irradiation, and societal benefits of radiation, including homeland security. CIRMS has a broad-based membership from industry, state, and federal government and academia. The main objectives of CIRMS are the advancement and dissemination of the physical measurements and standards needed for applications of ionizing radiations. CIRMS has played an important role for the discussion of radiation measurements and standards issues. CIRMS provides a platform for experts from various background, allowing them to convey and share ideas thereby enhancing the field through. Further, a single detailed needs report is compiled with information from each discipline and sent to the legislative body with the intent of gaining financial and political awareness of the needs in our field. For more information, see: www.cirms.org.  As liaisons to CIRMS for the AAPM and co- chairs of the medical subcommittee, Regina Fulkerson and I are responsible for arranging the medical breakout session and providing medical plenary speakers at the CIRMS meeting. This was the first year that Regina and I were liaisons and have been working with our former liaisons, Geoff Ibbott and Larry DeWerd. CIRMS is generally a meeting with international flavor, so in addition to the AAPM interests, the meeting covers what is occurring around the world.  The CIRMS annual meeting was held on the National Institute for Standards and Technology (NIST) campus in Gaithersburg, MD for three days on April 27-29, 2015. The theme of the meeting was “Fundamentals of Ionizing Radiation.” The program is attached. The plenary sessions included presentations on medical applications, and societal benefits of radiation. Breakout sessions were on Monday, Tuesday and Wednesday for each of the subcommittees, which include Medical Applications, Radiation Protection, and Industrial Applications and Materials Effects. The medical plenary talks covered topics including: The need for standardization in radiobiology, brachytherapy physics and national standards, fundamental measurements of stopping powers, MRI-based accelerator dosimetry, and primary measurements of absorbed dose to water with calorimeters.  Many of the attendees to CIRMS from the field of medical physics are also active members of the AAPM with leadership roles in various subcommittees. The joint interests of CIRMS and the AAPM are enhanced at the annual meeting of CIRMS, allowing for a discussion among the experts of the fundamental origin of any measured value in the clinical setting. As the field of medical physics is rapidly evolving, CIRMS is committed to providing a forum to establish the needs of standardization for any new device or radiotherapy device that comes to market in order to provide safe and effective treatments. This was very apparent in our discussions at the CIRMS annual meeting as two of our breakout talks concerned new devices that are still undergoing refinements in the dosimetry of them. As AAPM liaisons, we strive to bring awareness to the needs of accurate dosimetry through the activities of CIRMS to the AAPM members. The Medical Subcommittee agenda is attached. Please let us know if you would like to discuss any items further or have any questions about our experiences.  Respectfully submitted by  Wesley Culberson  Regina Fulkerson |
| **Issues for AAPM:** | **Need for accurate dosimetry for radiobiological studies, fundamental measurements of stopping powers, MRI-based accelerator dosimetry, primary measurements of absorbed dose to water using calorimetry** |
| **Budget Request ($):** | **$2000 (I paid for my own meeting registration in 2015)** |