

# Council on Ionizing Radiation Measurements and Standards

## 2021 Annual Meeting Agenda

April 26-27, 2021

Virtual Meeting over WebEx

Meeting Link will be provided to all registrants

### Monday, April 26, 2021 (All times are EDT)

#### 10:00 Welcome

10:00 *President's Welcome & Sponsor Introductions* (5 min)  
Wesley Culberson, PhD, President, CIRMS

10:05 *Announcements and Introduction to Needs Report* (5 min)  
Matthew Mille, PhD, President-Elect, CIRMS

#### 10:10 Plenary Session

10:10 *FLASH Therapy Research and Preclinical Data* (20 min)  
Adam Harrington, PhD, Varian Medical Systems, Palo Alto, CA

10:30 *Radiation Processing Dosimetry – From Dosimeter to Distribution* (20 min)  
Malcolm McEwen, PhD, National Research Council Canada (NRCC), Ottawa, ON

10:50 *Technical Aspects on the Development and Use of Standards* (20 min)  
Leticia Pibida, PhD, National Institute of Standards and Technology (NIST) Gaithersburg, MD

#### 11:10 5-Minute Break

#### 11:15 Junior Investigator Symposium

(chair: Amitava Adhikary, PhD, Oakland University)

11:15 *2020 and 2021 Junior Investigator Competition Winners' Presentations* (45 min)  
Jacob Lambeck, University of Wisconsin – Madison  
Daniel Alexander, Dartmouth College, Hanover, NH  
Felix Mathew, McGill University, Montreal, Canada  
Autumn Walter, University of Wisconsin – Madison  
Drew Carlton, University of Kentucky – Lexington  
Emily King, University of Wisconsin – Madison  
Alexandra Bourgoon, PhD, PTB, Braunschweig, Germany

12:00 Adjourn

### Tuesday, April 27, 2021 (All times are EDT)

#### 10:00 Medical Applications Subcommittee

(chair: Matthew Mille, PhD, National Cancer Institute)

10:00 *Applications of Plastic Scintillation Dosimetry for Rad. Onc.: A Startup Founder Perspective* (18 min)  
Francois Therriault-Proulx, PhD, Co-founder and CEO, Medscint

10:18 *Evaluation of Proton Accuracy Improvements with Dual-Energy CT* (18 min)  
Sina Mossahebi, PhD, University of Maryland School of Medicine

10:36 *Challenges in Multi-Center Quantitative Imaging for TRT Dosimetry* (18 min)  
Eric Frey, PhD, Johns Hopkins University

#### 10:55 5-Minute Break

**11:00 Industrial Applications Subcommittee**

(chair: Ileana Pazos, PhD, National Institute of Standards and Technology)

11:00 *Current Solutions and Needs in Dosimetry for Radiation Processing Applications* (18 min)  
Mike Pageau, GEX Corporation

11:18 *Chip-Scale, Integrated Photonics for Radiation Dosimetry and Calorimetry* (18 min)  
Nikolai Klimov, PhD, National Institute of Standards and Technology (NIST) Gaithersburg, MD

11:36 *Recent Advances Towards a Deployable Emergency Response Dosimetry System (ERDS)* (18 min)  
Jason Campbell, PhD, National Institute of Standards and Technology (NIST) Gaithersburg, MD

**11:55 5-Minute Break**

**12:00 Radiation Safety and Security Subcommittee**

(chair: Stephanie Healey, PhD, Food and Drug Administration)

12:00 *Performance Testing Samples in Radioactive Analysis:  
What are They and How to Choose the Appropriate Ones?* (25 min)  
Evgeny Taskaev, PhD, Eckert & Ziegler

12:25 *A New Technology That Will Help Radiation Labs be More Productive and Safer* (25 min)  
Robert Jones, PhD, Centers for Disease Control and Prevention (CDC)

**13:00 Closing Remarks and Adjourn**

Wesley Culberson, PhD, President, CIRMS