

DRAFT AGENDA – Last Updated 3/7/2022

Council on Ionizing Radiation Measurements and Standards
2022 Annual Meeting Agenda

April 11-13, 2022

Virtual Meeting over WebEx

Meeting links will be provided to all registrants

Monday, April 11, 2022 (All times are EDT) – Meeting link will be provided

10:00	Welcome	
10:00	<i>President's Welcome & Sponsor Introductions</i> Matthew Mille, PhD, President, CIRMS	(5 min)
10:05	<i>Introduction to Needs Report</i> Spencer Mickum, PhD, 1 st Vice President, CIRMS	(5 min)
10:10	Plenary Session	
10:10	<i>Orthovoltage x-ray irradiator for preclinical FLASH radiotherapy: Design, dosimetry, and in vivo validation</i> Mohammad Rezaee, PhD, MSc Johns Hopkins University	(20 min)
10:30	Assessing air pollution with Spanish moss as a bioindicator in the low country of Savannah River basin Christina Hall, BS University of Nevada, Las Vegas	(20 min)
10:50	Alanine/EPR dosimetry for kilovoltage x-ray applications Florent Kuntz, PhD Aerial, France	(20 min)
11:10	5-minute break	
11:15	Junior Investigator Award Symposium Amitava Adhikary, PhD, 2 nd Vice President, CIRMS	(45 min)
12:00 to 1:00	Poster session and socializing in Gather.Town Meeting link will be provided	(60 min)

Tuesday, April 12, 2022 (All times are EDT) – Three Concurrent Virtual Sessions

Time	Medical Applications	Radiation Protection & Homeland Security	Industrial Applications & Material Effects
Session Chairs	Matthew Mille, PhD National Institutes of Health Wesley Culberson, PhD University of Wisconsin-Madison	Stephanie Healey, PhD US Food and Drug Administration	Ileana Pazos, PhD National Institutes of Standards and Technology Kevin O'Hara Sterigenics
Meeting Link	Will be provided	Will be provided	Will be provided
10:00 am to 12:00 pm	<p style="text-align: center;">Welcome</p> <p>10:05 <u>TARGETED RADIONUCLIDE THERAPY</u> <i>Targeted Radionuclide Therapy – Current Status and Trends</i> Jacek Capala, PhD National Institutes of Health</p> <p>10:20 <i>Quantitative Imaging and Dosimetry in Targeted Radionuclide Therapy</i> Yuni Dewaraja, PhD University of Michigan</p> <p>10:35 <i>Recent Activities of the NIST Nuclear Medicine Program</i> Denis Bergeron, PhD National Institute of Standards and Technology</p> <p>10:50 5-minute break</p> <p>10:55 <u>MEDICAL DOSIMETRY</u> <i>Recent Developments in Intensity Modulated Brachytherapy with Partially-Shielded Applicators</i> Shirin Enger, PhD McGill University</p> <p>11:10 <i>Astronaut Biodosimetry at Health Canada</i> Lindsay Beaton, PhD Health Canada</p> <p>11:25 <i>PRISM-eBT: A European Metrology project on electronic Brachytherapy</i> Thorsten Schneider, PhD National Metrology Institute of Germany (PTB)</p> <p>11:40 Needs Report Discussion</p>	<p style="text-align: center;">Welcome</p> <p>10:05 <u>FOOD IRRADIATION</u> <i>Detection of Alpha/Beta Activity in Food for Safeguarding the Nation's Food Supply</i> Zhichao Lin, PhD US Food and Drug Administration</p> <p>10:25 <i>Laboratory Proficiency Evaluation in Assessing Radioactive Contamination of Food</i> Clarence Rolle, PhD US Food and Drug Administration</p> <p>10:45 5-minute break</p> <p>10:50 <u>ANALYTICAL MEASUREMENTS</u> <i>Method Validation of the GammaVision Total Coincidence Correction Calibration Wizard</i> Jonathan Button, PhD Centers for Disease Control and Prevention</p> <p>11:10 <i>Molecular Plating of Mixed Alpha Radionuclides for Energy Calibration and Quality Assurance of CDC Alpha Spectrometer Instrument</i> Supriyadi Sadi, PhD Centers for Disease Control and Prevention</p> <p>11:30 Needs Report Discussion</p>	<p style="text-align: center;">Welcome</p> <p>10:05 <u>MATHEMATICAL MODELING</u> <i>Using Mathematical Modeling to Improve Scheduling at Gamma Irradiator Facilities</i> Chris Howard, PhD Nordion</p> <p>10:25 Speaker TBA</p> <p>10:45 5-minute break</p> <p>10:50 <u>LOW ENERGY IRRADIATION</u> <i>Low energy e-beam at NIST</i> Fred Bateman, PhD National Institutes of Standards and Technology</p> <p>11:10 <i>Low Energy X-Ray (LEEX) Is Expanding</i> P. Michael P. Michael Fletcher, MS Ebeam Consulting</p> <p>11:30 Needs Report Discussion</p>
12:00 pm to 1:00 pm	All three breakout sessions convene for posters and socializing in Gather.Town Meeting link will be provided		

Wednesday, April 13, 2022 (All times are EDT) - Meeting link will be provided

- 10:00** **Welcome** (20 min)
Matthew Mille, PhD, President, CIRMS
- Award Presentations**
Presentation of 2022 Caswell Award to Kim Morehouse
Presentation of 2022 CIRMS Leadership Award to Renata Freindorf
- 10:20** **Capstone Session** (45 min)
Radiotherapy Plan QA using Deep-CNN based Multi-OAR Auto segmentation and GPU-accelerated Monte Carlo Dose Check
X. George Xu, PhD
University of Science and Technology of China (Hefei, China)
- 11:05** **Summary of Identified Needs – Brief reports from the three CIRMS scientific subcommittees** (30 min)
- 11:35** **Closing Remarks** (5 min)
- 11:40** **Socializing in Gather.Town**
to ?? Meeting link will be provided