

Last Updated 2024 Feb 20

Council on Ionizing Radiation Measurements and Standards
“Advancing Radiation Measurements and Standards for Disruptive Technologies”
2024 Annual Meeting Agenda

April 29 - May 1, 2024

In-Person meeting held at The Universities at Shady Grove
Building 2 Conference Center, 9630 Gudelsky Drive, Rockville, MD

Monday, April 29, 2024 (All times are EDT)

Morning Plenary Session in Main Ballroom (1st floor)

8:00	Registration Coffee provided	(60 min)
9:00	Welcome <i>President’s Welcome & Sponsor Introductions</i> Amitava Adhikary, PhD, President, CIRMS	(5 min)
9:05	Introduction to Needs Report Frédéric Tessier, PhD, 1 st Vice President, CIRMS	(5 min)
9:15	Plenary Session New developments in the NIST Division of Radiation Physics Alan Thompson, PhD – Chief of Radiation Physics Division National Institute of Standards and Technology (NIST)	(15 min)
9:30	Enhancing sterility assurance for radiation processing John Logar – Senior Director, Sterility Assurance Johnson & Johnson	(45 min)
10:10	Morning Coffee Break	(20 min)
10:30	Plenary Session Talk Title TBD Plenary Speaker TBD Affiliation Placeholder	(30 min)
11:00	Talk Title TBD James Renaud, PhD National Research Council Canada	(30 min)
11:30	5-minute break	
11:35	Poster Blitz Session Session Chair: Frédéric Tessier, PhD, 1 st Vice President, CIRMS	(25 min)
12:00	Poster Viewing Interactive poster session	(30 min)
12:30	Lunch Boxed lunch provided	(60 min)
1:30	Concurrent breakout sessions. See table on next page	(90 min)
3:00	Afternoon break and poster viewing Coffee and snacks provided	(30 min)
3:30	Concurrent breakout sessions. See table on next page	(90 min)
5:00	Adjourn Day 1	

Monday, April 29, 2024 (All times are EDT) – Three Concurrent Sessions

Session	Medical Applications		Radiation Processing & Material Effects		Radiation Protection & Homeland Security
Room	Main Ballroom (1 st floor)		Room TBD		Room TBD
Chairs	Wesley Culberson, Ph.D., University of Wisconsin-Madison Regina Fulkerson, Ph.D., Varian Matthew Mille, Ph.D., National Institutes of Health Sergio Morato Rafet, Ph.D., National Institutes of Health		Ileana Pazos, Ph.D., National Institute of Standards & Technology Kim Morehouse, Ph.D., Food and Drug Administration-Retired Spencer Mickum, Ph.D., STERIS		Stephanie Healey, PhD, Food and Drug Administration
Time	MONTE CARLO RADIATION TRANSPORT SIMULATIONS - Joint Medical & RPME Session in Main Ballroom (1st floor)			Time	RADIOCHEMICAL SEPARATION TECHNIQUES AND PREPARATION
1:30	Talk Title TBD Andreu Badal, Ph.D. U.S. Food and Drug Administration			1:30	Preparation of mixed alpha sources Supriyadi Sadi, Ph.D. U.S. Food and Drug Administration
1:50	Talk Title TBD Shaheen Dewji, Ph.D. Georgia Institute of Technology			2:00	Speaker 2 TBD
2:10	Multiscale Monte Carlo simulations for radiation therapy Jose Ramos-Mendez, Ph.D. University of California, San Francisco			2:30	Needs Report Discussion
2:30	Simulating output factors in radiobiology and FLASH studies Kevin Bryne, Ph.D. University of Maryland School of Medicine				
2:50	Needs Report Discussion				
3:00	Afternoon break and poster viewing				
Time	FLASH RADIOTHERAPY	Time	CHIPS ACT	Time	PROFICIENCY AND REFERENCE MATERIALS
3:30	Suitability of noble gas-filled ionization chambers for dosimetry of electron FLASH radiotherapy Ahtesham Khan, Ph.D. University Wisconsin-Madison & Northwestern Memorial Hospital	3:30	Speaker 1 TBD	3:30	Speaker 1 TBD
3:50	The impact of spatial and temporal dose distributions on achieving the FLASH effect for scanning proton beams Yannick Poirier, Ph.D. University of Maryland School of Medicine	3:50	Speaker 2 TBD	4:00	Speaker 2 TBD
4:10	Speaker 3 TBD	4:10	Speaker 3 TBD		
4:30	Needs Report Discussion	4:30	Needs Report Discussion	4:30	Needs Report Discussion
5:00	Adjourn Day 1				

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DEPARTMENT OF MEDICAL PHYSICS
Medical Radiation Research Center
UNIVERSITY OF WISCONSIN
SCHOOL OF MEDICINE AND PUBLIC HEALTH

Tuesday, April 30, 2024 (All times are EDT)

Morning Plenary Session in Main Ballroom (1st floor)

8:00	Registration Coffee provided	(60 min)
9:00	Welcome	(5 min)
9:00	President's Welcome Amitava Adhikary, Ph.D., President, CIRMS	
9:05	2024 ICRU Gray Medal Presentation <i>The prestigious Gray Medal was established by the ICRU in 1967. The medal is awarded for outstanding contributions in scientific fields of interest to the ICRU and honors the late Louis Harold Gray, former member and Vice-Chairman of the ICRU and eminent medical physicist and radiobiologist. The medal is awarded with frequency determined by the ICRU and is usually awarded in rotation, to recipients in the fields of Radiation Oncology, Medical Imaging and Basic Science.</i>	
9:10	Plenary Session	
9:10	Talk Title TBD Stephen Seltzer, Ph.D. – Senior Scientist National Institute of Standards and Technology (retired)	(30 min)
9:40	Talk Title TBD Suresh Pillai, Ph.D. - Professor and Associate Department Head, Food Science & Technology Texas A&M University	(30 min)
10:10	Morning Coffee Break	(20 min)
10:30	Plenary Session	
10:30	Development of specialized Large Language Models for radiology report processing Xiang "Shaun" Li, Ph.D. – Assistant Professor of Radiology Harvard Medical School	(30 min)
11:00	Leveraging multi-omics based technologies based biomarker development for predicting radiation late effects Amrita Cheema, Ph.D. – Professor, Department of Oncology Georgetown University	(30 min)
11:30	Talk Title TBD Plenary Speaker TBD	(30 min)
12:00	CIRMS Photo / Lunch / Career Roundtable Mentoring Session Group photo followed by lunch provided and concurrent career roundtable	(90 min)
1:30	Concurrent breakout sessions. See table on next page	(90 min)
3:00	Afternoon break and poster viewing Coffee and snacks provided	(30 min)
3:30	Concurrent breakout sessions. See table on next page	(90 min)
5:00	CIRMS reception in Main Ballroom Drinks and hors d'oeuvres provided	
6:00	Adjourn Day 2	
6:30	Social Gathering at RIO Lakefront (no host) Bring your name tag and pay your own way. Dinner reservations and transportation on own. Yard House , 211 Rio Blvd, Gaithersburg, MD	

Tuesday, April 30, 2024 (All times are EDT) – Three Concurrent Sessions

Session	Medical Applications		Radiation Processing & Material Effects		Radiation Protection & Homeland Security
Room	Main Ballroom (1 st floor)		Room TBD		Room TBD
Chairs	Wesley Culberson, Ph.D., University of Wisconsin-Madison Matthew Mille, Ph.D., National Institutes of Health Regina Fulkerson, Ph.D., Varian Sergio Morato Rafet, Ph.D., National Institutes of Health Thomas Winters, Ph.D., National Institutes of Health		Ileana Pazos, Ph.D., National Institute of Standards and Technology Kim Morehouse, Ph.D., US Food and Drug Administration-Retired Spencer Mickum, Ph.D., STERIS		Stephanie Healey, PhD, US Food and Drug Administration
Time 1:30	BIODOSIMETRY <i>Combined radiation injury impacts development of radiation countermeasures and biodosimetry</i> Juliann Kiang, Ph.D. Armed Forces Radiobiology Research Institute	Time 1:30	ELECTRON BEAM PROCESSING <i>Phytosanitary treatment of produce by e-beam</i> Chip Starns Reveam, Inc.	Time 1:30	ENVIRONMENTAL PROTECTION <i>Hanford Site cleanup</i> Bud Taylor State of Washington Public Health
1:50	Talk Title TBD Evagelia Laiakis, Ph.D. Georgetown University	1:50	Ebeam uses for medical device industry Tim Thompson Arthrex	2:00	Speaker 2 TBD
2:10	Prediction of total body and partial body exposures to radiation using plasma proteomic expression profiles Mary Sproull, Ph.D., National Cancer Institute/NIH	2:10	Talk Title TBD Gustavo Varca, B. Pharm, Ph.D. Ebeam Services		
2:30	Talk Title TBD Maureen Kane, Ph.D. University of Maryland School of Pharmacy	2:30	Talk Title TBD Nicholas Brydon, M.S. Nextbeam	2:30	Needs Report Discussion
2:50	Needs Report Discussion	2:50	Needs Report Discussion		
3:00	Afternoon break and poster viewing				
Time 3:30	X-RAY DOSIMETRY <i>Updates from the NIST X-ray facility</i> Michelle O'Brien, M.S. National Institute of Standards and Technology	Time 3:30	X-RAY PROCESSING Speaker 1 TBD	Time 3:30	TRAINING NEEDS FOR RADIOCHEMISTS Speaker 1 TBD
3:50	X-Ray Detector Calibrations at the PTB Stefan Pojtinger, Ph.D. Physikalisch-Technische Bundesanstalt, Germany	3:50	Speaker 2 TBD	4:00	Speaker 2 TBD
4:10	Bridges in traceability from primary laboratories to the use of X-ray multimeters in clinical practice Sören Sturenssoon, M.Sc. RTI Electronics	4:10	Speaker 3 TBD		
4:30	Challenges in medical X-ray imaging and radiation protection dosimetry and the need for updated standards Paula Toroi, Ph.D. STUK - Radiation and Nuclear Safety Authority, Finland	4:30	Speaker 4 TBD	4:30	Needs Report Discussion
4:50	Needs Report Discussion	4:50	Needs Report Discussion		
5:00	CIRMS Reception in Main Ballroom				
6:00	Adjourn Day 2				
6:30	Social Gathering at RIO Lakefront (no host) - Yard House, 211 Rio Blvd, Gaithersburg, MD				

Wednesday, May 1, 2024 (All times are EDT)

Morning Plenary Session in Main Ballroom (1st floor)

8:00	Registration Coffee provided	(60 min)
9:00	Welcome <i>President's Welcome</i> Amitava Adhikary, Ph.D., President, CIRMS	(5 min)
9:05	Student Award Presentations Presentation of awards for Junior Investigator Competition AND Radiation Technology Essay Competition	(5 min)
9:15	Presentation of Caswell Award <i>In 2000, CIRMS created the Randall S. Caswell Award to honor individuals who have made significant contributions to ionizing radiation measurements and standards for the Nation. Selection for the award is based in part on demonstration that the nominee has actively furthered the mission of CIRMS through leadership, participation, research, and/or mentoring.</i>	(10 min)
9:20	Plenary Session Talk Title TBD Chip Starns – Executive Vice President/Founder Reveam, Inc.	(30 min)
10:00	Morning Coffee Break	(15 min)
10:15	Plenary Session Talk Title TBD Plenary Speaker TBD Affiliation Placeholder	(30 min)
10:45	Talk Title TBD Plenary Speaker TBD Affiliation Placeholder	(30 min)
11:15	Talk Title TBD Capstone Speaker TBD Affiliation Placeholder	(45 min)
11:45	<i>President's Closing & Needs Report</i> Amitava Adhikary, Ph.D., President, CIRMS	(15 min)

12:00 **Adjourn Day 3**
Lunch on your own

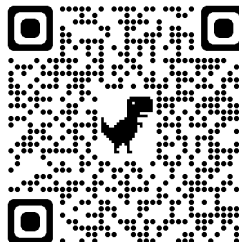
1:00 **Laboratory Tours - NIST Radiation Physics Laboratories, Gaithersburg, MD** (180 min)
OR
Armed Forces Radiobiology Research Institute Laboratories, Bethesda, MD
****Advanced Registration Required & Details will be provided soon.****
****Transportation on own****

Meeting Content

Abstracts for the talks and posters area available on our meeting content website if provided by the presenters. Presentation slides and poster files will be posted after the meeting if permission is granted.

<https://cirms.org/2024-cirms-meeting>

Please scan to see meeting abstracts



Poster Session

Poster #	Abstract Title/Presenting Author
1	
2	
3	
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