

Medical Applications Agenda: Monday April 18, 2016 (afternoon)

Chairs: Regina Fulkerson, Wes Culberson and Ronnie Minniti

Breakout Session I			
Theme: Proton Therapy			
Time	Topic / Title	Speaker	Affiliation
1:45-2:15	The Physics of Proton Therapy	Wayne Newhauser, PhD	Louisiana State University
2:15-2:45	Needs for Treatment Planning and Quality Assurance in Proton Spot Scanning Therapy	Chris Beltran, PhD	Mayo Clinic
2:45-3:15	Functional and Safety Aspects of an Efficient Proton Therapy Facility Design	Vahagn Nazaryan, PhD	Hampton University Proton Therapy Institute
3:15-3:30	Questions for speakers and discussion on "current needs"	Interactive discussion with audience	

3:30 - 3:45

Break

Breakout Session II			
Theme: Standards in Nuclear Medicine and Quantitative Imaging			
Time	Topic	Speaker	Affiliation
3:45-4:15	Standards for PET	Brian Zimmerman, PhD	NIST
4:15-4:45	Concepts, applications, and requirements for Quantitative SPECT/CT	Eric Frey, PhD	Johns Hopkins University
4:45-5:15	CT Phantoms	Marios Gavrielides, PhD	FDA
5:15-5:30	Questions for speakers and discussion on "current needs"	Interactive discussion with audience	

5:30

Adjourn

Note: For the MORNING plenary speakers and poster sessions please see FULL CONFERENCE AGENDA at http://cirms.org/conference_agenda.html

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Breakout Session III

Theme: Quantitative Medical Imaging and Radiation Therapy

<u>Time</u>	<u>Topic</u>	<u>Speaker</u>	<u>Affiliation</u>
1:45-2:15	Quantitative Imaging Optimization; Dosimetry of CT Imaging in the Thoracic	Jim Mulshine, MD	Rush University
2:15-2:45	Developing Standards for Quantitative Magnetic Resonance Imaging	Michael Boss, PhD	NIST
2:45-3:15	Reference Dosimetry in the Presence of Magnetic Fields	Geoff Ibbott, PhD	UT MD Anderson Cancer Center
3:15-3:30	Questions for speakers and discussion on "current needs"	Interactive discussion with audience	

3:30 - 3:45

Break

Breakout Session IV

Theme: Topics in Radiation Dosimetry

<u>Time</u>	<u>Topic</u>	<u>Speaker</u>	<u>Affiliation</u>
3:45-4:15	New ICRU Recommendations on Key Data for Ionizing Radiation Dosimetry	Stephen Seltzer, PhD	NIST
4:15-4:45	Transport under Magnetic Fields with the EGSnrc Simulation Toolkit	Ernesto Mainegra-Hing, PhD	NRCC - Canada
4:45-5:15	Calibration of dosimeters for small fields at ARPANSA	Ramanathan Ganesan, PhD	Australian Radiation Protection and Nuclear Safety Agency
5:15-5:30	Questions for speakers and discussion on "current needs"	Interactive discussion with audience	

5:30

Adjourn

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