



Missouri River Valley Chapter of the AAPM

2021 Spring Chapter Meeting Agenda

Friday 4/9/2021

6:30PM – 7:00PM

Med Phys Slam

“Think Fast! – Automating Emergency Planning”
Sarah Wisnoskie, University of Nebraska Medical Center

“Do you Really Need a Full Bladder for Prostate Radiation Treatment?”
Ellie Bacon, Creighton University

“How to QA your SBRT Plans in the Presence of a Magnetic Field – New Challenges and Approaches”
Olga Pen, Washington University in St. Louis

“Making Predictions from Pictures with Radiomics”
Jeffrey Wong, University of Nebraska Medical Center

7:00PM – 9:00PM

Night Out

Saturday 4/10/2021

7:30AM – 11:15AM

Mock Oral

11:15AM – 11:55AM

Break. Please visit our vendors using the zoom breakout sessions

11:55AM - 12:00PM

Opening remarks

12:00PM – 12:30PM

“AI Based Radiotherapy QA” (SAM)
Maria Chan, PhD Memorial Sloan Kettering Cancer Center

12:30PM – 2:10PM

Young Investigators Symposium (MPCEC)

“Model-Based Dose Calculations for post-mastectomy chestwall HDR plesiotherapy: Should bolus be used and how much”
Rebecca Mahon, Washington University in St. Louis

“Stability of Radiomic Features due to interobserver and interdisciplinary segmentation in pancreatic cancer
Jeffrey Wong, University of Nebraska Medical Center”

“Clinical Evaluation of ^{64}Cu (β^+) and ^{67}Cu (β^-) for PET-Guided Radiopharmaceutical Therapy”
Michael Merrick, University of Iowa

“Evaluation of bladder fill intervention and adaptive assessment with velocity for prostate radiotherapy”
Ellie Bacon, Creighton University

“Small field dosimetry in MR field- Challenges and engineering solutions”
Olga Pen, Washington University in St. Louis

“A Dose Accumulation Assessment of Alignment Errors During Spatially Fractionated Radiation Therapy”
John Ginn, Washington University in St. Louis

“Dosimetric Comparison of IMPT with and without Multi-Leaf Collimation for Intracranial Tumors”
Aron Silvas, Washington University in St. Louis

“A proof-of-concept investigation on the use of a dynamic collimation system for fractionated (GRID) pencil”
beam scanning proton therapy
Blake Smith, University of Iowa

“Characterization of a Tissue-Equivalent Phantom for Thermometric Study in MRI”
Oluyemi Aboyewa, Creighton University

“Development of Radioimmunotherapy for Brain Cancer using in Vitro Assays”
Yohan Walter, Creighton University

“Concurrent Radiosensitization and Chemoradiotherapy for Brain Tumors”
Anne Hubbard, Creighton University

2:10 PM – 2:40 PM *Break. Please visit our vendors using the zoom breakout sessions*

2:40PM – 3:10PM “Automation and Artificial Intelligence in Medical Physics: A cursory Review” (SAM)
Daniel Johnson, PhD University of Kansas

3:10PM – 3:40PM “Practical Implementation of EPID-Based QA for Linac” (SAM)
Baozhou Sun, PhD Washington University in St. Louis

3:40PM – 4:10PM “Automation in Planning and Delivery of Stereotactic Radiosurgery” (SAM)
Richard Popple, PhD University of Alabama at Birmingham

4:10PM – 4:30PM *Break. Please visit our vendors using the zoom breakout sessions*

4:30PM – 5:00PM “Data-Driven Control on Multi-Institutional Clinical Trials” (SAM)
Jessica Lowenstein, MS, U.T. MD Anderson Cancer Center

5:00PM – 5:15PM “A Gateway to Automation: Linear Accelerator Quality Assurance Automation” (MPCEC)
Matthew Schmidt, MS Washington University in St. Louis

5:15PM – 5:30PM “Clinical Implementation of Automated Treatment Planning Templates using ESAPI” (MPCEC)
Francisco Reynoso, PhD Washington University in St. Louis

5:30PM – 6:00PM “Knowledge-Based Planning: Applying Lessons of the Past to Improve Radiotherapy Treatments” (SAM)
Kenny Guida, DMP, University of Kansas

6:00PM – 6:05PM Announcement of YIS and Med Phys Slam winners

6:05PM – 6:30PM Business Meeting

This meeting has applied to CAMPEP for approval of 5.15 hours.

Links to Zoom Meetings

Spring Meeting:

Topic: MRV-AAPM Spring Meeting 2021

Time: Apr 10, 2021 11:00 AM Central Time (US and Canada)

Zoom Link: <https://unmc.zoom.us/j/91590733932?pwd=cVhnYnlyRC9KTmlpbU81bGoxN1QvUT09>

Meeting ID: 915 9073 3932

Passcode: 535528

Med Phys Slam and Virtual Night Out:

Topic: MRV-AAPM Virtual Night Out & Slam

Time: Apr 9, 2021 06:00 PM Central Time (US and Canada)

Zoom Link: <https://unmc.zoom.us/j/93681354603?pwd=d0tKT0krNIBNMGNVUWdQbit6Z09aUT09>

Meeting ID: 936 8135 4603

Passcode: 291901

Mock Oral: Sent out separately to participants