



Missouri River Valley Chapter of the AAPM

## 2021 Spring Chapter Meeting Agenda

### Friday 4/9/2021

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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

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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  $^{64}\text{Cu}$  ( $\beta^+$ ) and  $^{67}\text{Cu}$  ( $\beta^-$ ) 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