The goal of this program is to reach out to the general public (specifically, middle-schoolers through collegegoers and beyond) through an engaging science demonstration, talks and a live panel. We will answer questions the audience has about medical physics.

6:00PM – 6:10PM  Welcome and Introduction of Panel by Chapter President  
   Aba Lippuner, Ph.D. DABR, University of Kansas Medical Center

Panel Members:  
   Dave Dunkerley, Ph.D. (President Elect)—University of Iowa
   Sarah Wisnoskie, MS (Secretary/Treasurer)—University of Nebraska Medical Center
   Abby Besemer, Ph.D. (AAPM Chapter Representative)—University of Nebraska Medical Center
   Jeff Snyder, MS (Past President)—University of Iowa
   Samuel Hendley, Ph.D. (Student/Trainee EXCOM)—University of Nebraska Medical Center

6:10PM – 6:15PM  What is Medical Physics?—A Cancer Zappers YouTube Presentation  
   Jessica Fagerstrom, Ph.D.—Northwest Medical Physics Center

6:15PM – 6:30PM  A Demonstration of Radioactive Decay  
   Jessica Fagerstrom, Ph.D.—Northwest Medical Physics Center

6:30PM – 6:45PM  Interactive Q&A between Audience and Panel Members

6:45PM – 6:55PM  **Trivia**  
   Get your game on for a chance to win some prizes!

6:55PM – 7:00PM  Med Phys Slam  
   “The Warping of Bladders”  
   Ellie Bacon, MS—Creighton University

   Dismissal of Early Learners

7:00PM – 7:45PM  Early Career Symposium  
   “A Novel Small Animal FLASH Irradiator (SAFI) Based on Distributed kV X-ray Sources”  
   Yuewen Tan, MS—Washington University in St. Louis

   “A Comparison of In-House and Shared Knowledge-Based Planning (KBP) Models for Bilateral Head and Neck Treatment Planning”  
   Orlando Trejo, MS—University of Kansas Medical Center

   “Toward Offline Adaptive Therapy for Prostate Patients using Velocity”  
   Ellie Bacon, MS—Creighton University

   “A Qualitative Comparison of an Open-Source Toolkit for MLC Trajectory Log File Analysis with Commercially Available Software”  
   Sandun Jayarathna, Ph.D.—University of Kansas Medical Center
The goal of this program is to share novel and up-to-date information about adaptive radiation therapy among our peers in the field of medical physics, through engaging talks and a debate. Target audience: medical physicists and residents, dosimetrists, radiation oncologists and residents.

Saturday 5/14/2022  Adaptive Radiation Therapy—Virtual Event

Welcome and Opening Remarks
Announcement of Winners of Early Career’s/Med Phys Slam
Aba Lippuner, Ph.D.—University of Kansas Medical Center (Chapter President)

“An Overview of Adaptive Radiotherapy” (SAM)
Jeffrey Snyder, MS—University of Iowa (Past President)

“Improving Image Registration for Offline Adaptive Radiotherapy with Velocity” (SAM)
Megan Hyun, Ph.D. DABR—University of Nebraska Medical Center

“RadCalc: Adaptive Radiotherapy in Today’s Clinic”
Carlos Bohorquez, M.S., DABR—Lifeline Software, Inc., a part of the LAP Group.

Q&A

“Adaptive Radiotherapy with the Varian Ethos in a Multi-Vendor Environment: First Clinical Experience” (SAM)
Jennifer Pursley, Ph.D.—Massachusetts General Hospital and Harvard Medical School

“The Role of Oxygen in FLASH RT: A Brief Overview of the Latest Developments” (SAM)
Guillem Pratx, Ph.D.—Stanford University

Q&A

“Evolution of the 1.5 T MRI Linac in UMC Utrecht: from prototype to real-time adaptive MRI guided radiotherapy” (SAM)
Bas Raaymakers, Ph.D.—University Medical Center Utrecht

“Quality Assurance for Adaptive Radiotherapy” (SAM)
Jinzhong Yang, Ph.D.—University of Texas MD Anderson Cancer Center

“Elekta Unity – Designed for today and the future”
A presentation by Elekta

Q&A

CHAT WITH VENDORS OVER LUNCH!
Please take this time to have lunch and visit vendor booths in the Zoom breakout rooms

“Proton Therapy: Strategies for Adaptive Therapy” (MPCEC)
Yuting Lin, Ph.D.—University of Kansas Medical Center
2:25PM – 2:45PM  “Overview of the Algorithm and Clinical Applications of Biology-Guided Radiation Therapy (BGRT)” (MPCEC) Wu Liu, Ph.D. — Stanford University

2:45 PM – 2:55 PM  Q&A

2:55 PM – 3:25 PM  ** Debate **  
“Making the Jump to Fully Online Adaptive Radiation Therapy—We are Ready!”

All conference attendees are invited to participate in this educational exchange. Attendees are to join one of two groups—for, or against the proposed argument. Attendees will later come together to present points in favor of or against the argument.

3:25 PM – 3:30 PM  Closing Remarks  
Aba Lippuner, Ph.D. — University of Kansas Medical Center

3:30 PM – 3:40 PM  BREAK

3:40 PM – 4:40PM  Business Meeting  
All attendees are welcome to attend.

This meeting has applied to CAMPEP for approval of 3 SAMs, 0.75 MPCEC, and 3 MDCB credits

Registration information:

To register, visit link below and select ticket for appropriate category.


Links to Zoom Meetings

Spring Meeting:

Topic: MRV-AAPM Spring Meeting 2022

Time: May 14, 2022 9:00 AM Central Time (US and Canada)

Zoom Link: https://us06web.zoom.us/j/83388248577?pwd=RDF3OGxrYWNTZnBndmx8BTFZcmJ8dz09
Meeting ID: 833 8824 8577
Passcode: 609246

Night of Public Engagement:

Topic: MRV-AAPM Public Engagement & Slam/Symposium

Time: May 13, 2022 06:00 PM Central Time (US and Canada)

Zoom Link: https://us06web.zoom.us/j/82031475428?pwd=aFd2WUFqNVROhGSD13QVNSL0IQT09
Meeting ID: 820 3147 5428
Passcode: 863258