



## Dartmouth at AAPM 2023

### Presentations

#### **Sunday July 23, 2023**

- Megan Clark *Characterization of Real-Time Imaging System for Quantitative Evaluation of Ultra-High Dose Rate Pencil Beams*
  - 1:42-1:49 Room 372
- Megan Clark *First Independent Validation of FAST-01 Clinical Trial Ultra-High Dose Rate Fields Using High-Speed Quantitative Imaging*
  - 1:49-1:56 Room 372
- Brian Pogue *Optical Imaging and Emerging Technologies*
  - 2-3 Room 351
- Wilson Schreiber *Electron Paramagnetic Resonance Oximetry of Biological Solutions with Flash Irradiation*
  - 5:00-5:07 Room 372

#### **Monday July 24, 2023**

- Brian Pogue *Advances in Fluorescence for Surgical Oncology Guidance*
  - 8:35-8:47 Room 342
- Petr Bruza *Advances in Cherenkov Imaging To Guide Radiotherapy*
  - 8:47-8:59 Room 342
- Savannah Decker *Expanding the Inclusivity of Cherenkov Surface Dosimetry by Quantifying the Effects of Skin Tone in a Multi-Institutional Human Study (ECS)*
  - 2:21-2:33 Room 342
- Rongxiao Zhang *Electron FLASH Therapy*
  - 4:30-6:00 Room 342
- Jacob Sunnerberg *Average and Peak Dose Rates in UHDR Electron Irradiation Contribute Similarly to Consumption of O<sub>2</sub> and Yield of H<sub>2</sub>O<sub>2</sub>*
  - 5:10-5:20 Room 342

#### **Tuesday July 25, 2023**

- Brian Pogue *Imaging Dose with Cherenkov In Vivo: Conventional vs. FLASH Dose Rates*
  - 7:30-7:47 Room 342
- Yao Chen *Quantifying Breast RT Patient Positioning Errors Via Registration of Segmented Biomarkers from In Vivo Cherenkov Imaging*
  - 9:10-9:20 Room 342

#### **Wednesday July 26, 2023**

- Savannah Decker *Grant Writing for Graduate Students: Navigating the F31 Fellowship Application*
  - 10:45-11 Room 372

### Posters

#### **Monday July 24, 2023**

- Savannah Decker *Real-Time Dose Monitoring with Rapid, Wireless, Reusable Optical Dosimeters for the Detection of Unplanned Contralateral Breast Dose*
  - 9:30-10 Exhibit Hall Forum 6
- Austin Sloop *Method to Rapidly Switch a C-Series Linac between Conventional and UHDR Research Mode Beamlines with Stable Pulse-to-Pulse Output*
  - 3:45-4:15 Exhibit Hall Forum 3

#### **Tuesday July 25, 2023**

- Roman Vasylytsiv *Novel Conformal Scintillator Mesh for In Vivo Imaging of 2D Ultra-High Dose Rate Maps during Flash Proton Therapy*
  - 10:00-10:30 Exhibit Hall, Forum 4

- Austin Sloop *Multi-Channel Point Measurements of Uhdr Pbs Dynamics Using a Diode-Based System Suitable for in-Vivo Dosimetry*
  - 10:00-10:30 Exhibit Hall
  - Tianyuan Dai *Monte Carlo Electron Beamline Modeling for an Ultra High-Dose Rate Mobetron Device*
    - Always available in Exhibit Hall
- Tianyuan Dai *Commissioning of Uhdr Mobetron for Flash-RT*
  - Always available in Exhibit Hall

