

SEAAPM 2017 Scientific Meeting

“The New Era of Automation”

February 24-25, 2017

Francis Marion Hotel, Charleston, South Carolina
Program Director: B.J. Sintay, Ph.D., SEAAPM President-elect

Friday, February 24, 2017

- 12:00 – 1:00pm **Complimentary Lunch**
- 1:00 – 1:10pm **Welcome and Introduction**
B.J. Sintay, PhD, Cone Health, Greensboro, North Carolina
- 1:10 – 1:25pm **Update on the Outcome of the AAPM’s Government Assessment Process (TG-281)**
Melissa Martin, MS, Therapy Physics Inc., Los Angeles, California
- 1:25 – 1:55pm **ABR Maintenance of Certification update for medical physicists**
J Anthony Seibert, PhD, University of California Davis Health System, Sacramento, California
- 1:55 – 2:25pm **History of Automation in Medical Physics**
J. Daniel Bourland, PhD, Wake Forest University, Winston-Salem, North Carolina
- 2:25 – 2:50pm **Afternoon Break & Refreshments**

Imaging

- 2:50 – 3:10pm **Implementation of the new IEC 62494-1 radiography exposure index standard, radiation dose tracking issues in CT/interventional/mammography**
J Anthony Seibert, PhD, University of California Davis Health System, Sacramento, California
- 3:10 – 3:30pm **The Digital Dilemma and Imaging Procedure Optimization**
Perry Sprawls, PhD, FACR, FAAPM, FIOMP, Emory University, Atlanta, Georgia
- 3:30 – 3:50pm **Dose Monitoring Software as a Tool to Minimize Patient Radiation Dose in CT and Interventional Fluoroscopy**
Pavlina Pike, PhD, Huntsville Hospital (UAB), Birmingham, Alabama
- 3:50 – 4:10pm **Replacing CR with DR in a Neonatal Ward**
Loretta Johnson, UAB Medical Center, Birmingham, Alabama
- 4:10 – 4:30pm **First year resident training lab program**
George David, PhD, Augusta University, Augusta, Georgia

Trainees

- 4:30 – 4:45pm **Automated Quality Control Monitoring of Diagnostic Imaging Equipment Using a Cloud-Based Compliance Platform**
Brett J. Mattison, MS, University Hospitals Cleveland Medical Center, Cleveland, Ohio
- 4:45 – 5:00pm **Development of a Large Deformation Diffeomorphic Metric Map (LDDMM) Machine Learning Model for accurate detection of Lung Recurrence after SBRT**
Joseph Dise, MMP, Medical University of South Carolina, Charleston, South Carolina
- 5:00 – 5:15pm **Standardization and Automation of the Treatment Planning Commissioning Process**
Amy Wexler, MS, University of Missouri, Columbia, Missouri
- 5:15 – 5:30pm **Automated calculation of multifocal SRS dose indices using the Eclipse Scripting API**
Michael Trager, MS Candidate, Duke University, Durham, North Carolina
- 5:30 – 7:00pm **SEAAPM Night In – SEAAPM Member Poster Showcase & Trainee Posters**

Saturday, February 25, 2017

7:00 – 8:00am **Complimentary Breakfast**

Therapy

- 8:00 – 8:20am An Overview of TG 275: Strategies for Effective Physics Plan and Chart Review in Radiation Therapy
Michelle Wells, MS, Piedmont Cancer, Atlanta, Georgia
- 8:20 – 8:40am dosCheck: a pre-MD active-feedback checklist for dosimetry and physics
Gregg Tracton, UNC Healthcare, Chapel Hill, North Carolina
- 8:40 – 9:00am Automation of Plan Finalization Tasks using ESAPI
Lane Hayes, MS, Cone Health, Greensboro, North Carolina
- 9:00 – 9:20am A Search Procedure to Find Cases of Similar Anatomy
Eduard Schreibmann, PhD, Emory Winship Cancer Institute, Atlanta, Georgia
- 9:20 – 9:30am Sun Nuclear Platinum Sponsor Spotlight
- 9:30 – 10:00am **Morning Break & Refreshments**
- 10:00 – 10:20am Optimized Shielding Evaluation Techniques for Advanced Accelerator Platforms Placed in Existing Accelerator Vaults
Randall Miller, MS, FCCPM, Northeast Georgia Medical Center, Gainesville, Georgia
- 10:20 - 10:40am Innovation in a Community Setting
David Wiant, PhD, Cone Health, Greensboro, North Carolina
- 10:40 – 11:00am Dosimetry second-checks for permanent prostate seed implant brachytherapy with Mathematica
Todd Jenkins, MS, Vidant Beaufort Hospital, Washington, North Carolina
- 11:00 - 11:20am A Comparison of Filmless QA Technologies for Variable-Aperture Collimators in Robotic Radiosurgery
Jacob Gersh, PhD, Gibbs Cancer Center & Research Institute, Greer, South Carolina
- 11:20 – 11:30am Message from the AAPM Equipment Donation Subcommittee
Dustin Jacqmin, PhD, University of Wisconsin, Madison, Wisconsin
- 11:30 – 12:00pm **Presentation of Chapter Awards**

The chapter business meeting will directly follow the presentation of chapter awards.

***This meeting has applied to CAMPEP for approval of 7.8 MPCEC hours.
CAMPEP evaluations are electronic this year. Please visit: seaapm.org/campep2017***

The Southeastern Chapter would like to acknowledge the support of our Platinum and Gold sponsors:

