SEAAPM 2018 Scientific Meeting

“Improving Care by Enhancing Efficiency: Novel Workflows, Software, and Devices”

February 23-24, 2017

The Westin Poinsett Hotel, Greenville, South Carolina

Program Director: Jacob A. Gersh, Ph.D., SEAAPM President-elect

Friday, February 23, 2018

12:00 – 1:00pm Complimentary Lunch

1:00 – 1:15pm Welcome and Introduction
Jacob A. Gersh, PhD, Gibbs Cancer Center, Greenville, SC

1:15 – 1:45pm Message from the Past-President of AAPM
Melissa Martin, MS. FAAPM, FACMP, FACR

Novel Workflows, Software, and Devices
1:45 – 2:00pm Streamlining the Physics Chart Checking Process
Megan Bright, MS, Levine Cancer Institute, Concord, NC

2:00 – 2:15pm Gantry-Mounted Video Camera for Increased Patient Safety
Todd Jenkins, MS, Marion L. Shepard Cancer Center, Washington, NC

2:15 – 2:30pm Automated Processing and Reporting Platform for Routine MRI Quality Control
Youngkyoo Jung, PhD, Wake Forest School of Medicine, Winston-Salem, NC

2:30 – 2:45pm Evaluation of Offline Adaptive Planning Techniques in Image-Guided Brachytherapy of Cervical Cancer
Han Liu, PhD, Cone Health Cancer Center, Greensboro, NC

2:45 – 3:00pm Automated Single-Isocenter Dynamic Conformal Arc Treatments for Simultaneous Treatment of Multiple Brain Metastases: Initial Clinical Experience
Jacqueline Maurer, PhD, Cone Health Cancer Center, Greensboro, NC

3:00 – 3:15pm Clinical Evaluation of a Commercial Metal Artifact Reduction Algorithm for CT Simulation in Radiation Therapy
Kevin D. Shay, MS, Bon Secours St. Francis Cancer Center, Greenville, SC

3:15 – 3:30pm A Message from our Platinum Sponsor:

3:30 – 4:15pm Afternoon Break & Refreshments

Trainee Session I

4:15 – 4:25pm Eye Plaque Dosimetry Validation Using a Scintillator Screen – Photographic Camera Integrated System
Chenguang Liu, MS, Resident, Erlanger Health System, Chattanooga, TN

4:25 – 4:35pm Improving Efficiency in PBS QA using the Sphinx
Scott Petro, MS, Resident, Provision CARES Proton Therapy Center, Knoxville, TN
4:235 – 4:45pm  Fully-Automated TG-51 Using the Open-Source Autodrive Library  
Rodney Sullivan, PhD, Resident, University of Alabama – Birmingham, Birmingham, AL

4:45 – 4:55pm  Evaluation of Torque-Induced Spatial Error in the Stereotactic Definition of the Leksell Gamma Knife ICON System  
Zachary Carter, MS, Student, Georgia Institute of Technology, Atlanta, GA

4:55 – 5:05pm  Evaluation of the Efficiency and Accuracy of Patient Setup between Surface Imaging and Traditional Three-Point Localization  
Dennis N. Stanley, PhD, Resident, University of Texas Health Science Center, San Antonio, TX

5:30 – 7:30pm  SEAAPM Night In + SEAAPM Trainee Poster Session

Saturday, February 24, 2018

7:00 – 8:00am  Complimentary Breakfast

Trainee Session II

8:00 – 8:10am  Development of Proton Minibeams based on Proton Beam Scanning for GRID Therapy  
Serdar Charyyev, Student, Georgia Institute of Technology, Atlanta, GA

8:10 – 8:20am  Initial Considerations for Analytical and Monte-Carlo Modeling of a Unique Beta Source  
Olga Pen, PhD Candidate, Wake Forest School of Medicine, Winston-Salem, NC

8:20 – 8:30am  Experimental Validation of a Collision Avoidance Software in Radiation Therapy  
Jose Sanchez, MS, PhD Candidate, Georgia Institute of Technology, Atlanta, GA

8:30 – 8:40am  Evaluation of a Water-Equivalent Scintillator for Patient-Specific QA of Intracranial Stereotactic Radiosurgery Plans  
Jesse Snyder, PhD, Resident, University of Alabama – Birmingham, Birmingham, AL

8:40 – 8:50am  Novel Approaches to GRID Therapy: Electron Minibeams and Radioisotope-Based Photon Minibeams  
Gregory Szalkowski, Student, Georgia Institute of Technology, Atlanta, GA

8:50 – 9:00am  Characterization of Lateral Response Artifact for Radiochromic Film Dosimetry Using Reflective Scanning Mode for Multiple Flatbed Scanners  
Tong Ren, PhD Candidate, Wake Forest School of Medicine, Winston-Salem, NC

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Education and Service

9:00 – 9:15am  An International Medical Physics Adventure  
*Stephanie Parker, MS, University of North Carolina, Chapel Hill, NC*

9:15 – 9:30am  Education Models for the Expanding Role of Clinical Medical Physicists  
*Perry Sprawls, PhD, FACR, FAAPM, FIOMP, Emory University, Atlanta, Georgia*

9:30 – 9:45am  Radiation Lab Simulations for Radiology Residents and Radiography Students  
*George David, PhD, Medical College of Georgia, Augusta, GA*

9:45 – 10:00am  Message from the AAPM Equipment Donation Subcommittee  
*Dustin Jacqmin, PhD, University of Wisconsin, Madison, Wisconsin*

10:00 – 10:15am  A Message from our Platinum Sponsor:  
![Elekta Logo](image)

10:15 – 11:00am  Morning Break & Refreshments

Chapter Session

11:00 – 11:10am  Memorial for Sandra Burch McIntosh  
*Perry Sprawls, PhD, FACR, FAAPM, FIOMP, Emory University, Atlanta, Georgia*

11:10 – 11:40am  Presentation of Chapter Awards  
*Benjamin J. Sintay, PhD, Cone Health Cancer Center, Greensboro, NC*

11:40 – 11:45pm  Closing Remarks  
*Jacob A. Gersh, PhD, Gibbs Cancer Center, Greenville, SC*

*The Chapter Business Meeting will directly follow the Scientific Meeting*