

# 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

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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

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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

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- 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*

**Thank You to our Gold Sponsor:**

The logo for Varian, consisting of the word "varian" in a bold, lowercase, sans-serif font.

## Education and Service

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- 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:**



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

## Chapter Session

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- 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*