

2021 SEAAPM Virtual Scientific Meeting
January 29 – 30, 2021**From Smart Tools to Smart Practice: Science, Collaboration,
Efficiency and Quality**

Program Director: Carnell Hampton, PhD, SEAAPM President-elect

Schedule**Thursday, January 28th (Joint Session with Symposium)**

6:00-7:30 PM

Interview Skills for the Early Career Medical Physicist*Robert A. Rodgers, MS, Vanderbilt University, Nashville, TN**Joshua M. Wilson, PhD, Duke University, Durham, NC***Friday, January 29th**

12:10-1:00 PM

Lunch Break

Visit the Exhibitors

1:00-1:20 PM

Welcome and Introduction*Carnell J Hampton, Levine Cancer Institute/Atrium Health, Charlotte, NC***MedPhys Slam**

MedPhys Slam Introduction

Carnell J Hampton, Levine Cancer Institute/Atrium Health, Charlotte, NC

Smart Practice - Can we reduce replan rates in head and neck proton therapy based on clinical and dosimetric data

Duncan Bohannon, Georgia Tech University, Atlanta, GA

Artificial Intelligence Powered Prediction for Online Adaptive Patient Specific QA

Lam Lay, Duke University, Durham, NC

1:20-1:35 PM

Blood flow in chronic stroke lesions: an improved model of brain-behavior relationships

Clara Glassman, Georgia Tech University, Atlanta, GA

The Effects of Daily Treatment Uncertainty on TCP/NTCP in Dominant Intraprostatic Lesion Simultaneous Integrated Boost Using Intensity Modulated Proton Therapy

John Demoor, Georgia Tech University, Atlanta, GA

Physics Experiences with Implementing a New Treatment for Brain Tumors

Sherry Koufigar, Piedmont Cancer Center, Atlanta, GA

1:35-1:50 PM	MedPhys Slam Q&A MedPhys Slam Winner Presentation
1:50-2:00 PM	Gold Sponsor Presentation 
	General Session I
	Predicting SSDE from CT localizer images following AAPM task group reports 204 and 220 <i>Christiane Burton, St Jude Children's Research Hospital, Memphis, TN</i>
	Multi-Clinic Standardization of QA: From Excel to the Cloud <i>Mark DiMascio, Atrium Health, Charlotte, NC</i>
2:00-2:50 PM	Synthesize 3D realistic CT textures and anatomy in the XCAT phantom using Generative Adversarial Network (GAN) <i>Yijie Yuan, Duke University, Durham, NC</i>
	Interactive Clinical Assignment Tool (iCAT): A Web-Based Multi-Facility Scheduling Program <i>Robert Rogers, Vanderbilt University School of Medicine, Nashville, TN</i>
	A Physics-Led All Inclusive Continuous Quality Improvement Forum <i>Ryan Foster, Atrium Health, Charlotte, NC</i>
2:50-3:00 PM	General Session I Q&A
3:00-3:45 PM	Afternoon Break – Sponsored by Akesis Visit the Exhibitors
	General Session II
3:45-4:15 PM	Eclipse Scripting, Clinical Protocols and Clinical Goals: Tools that can help with Efficiency <i>Lara Dyke and Adam Schoen, Varian Medical Systems</i>
	Quality Process Improvement Through the Standardization of Aria Encounters and the Use of Automation Within a Multi-Site Institution <i>David Piantino, Atrium Health, Charlotte, NC</i>
	A Multi-Institutional Failure Modes and Effects Analysis (FMEA) to Assess the Risks of Pandemic-Associated Workflow Adaptations <i>Stephanie Parker, Wake Forest Baptist Health High Point Medical Center, High Point, NC</i>
4:15-4:25 PM	General Session II Q&A
	Keynote Presentation and Q&A
4:25-5:00 PM	Medical Physics 3.0 <i>Ehsan Samei, PhD, Duke University, Durham, NC</i>
5:30-8:00 PM	Trainee ePoster Session and SEAAPM Social Event – Sponsored by QFix

Saturday, January 30th

8:00-8:10 AM

Welcome and Introduction

Carnell J Hampton, Levine Cancer Institute/Atrium Health, Charlotte, NC

Trainee Presentations I

Quantitative Comparison of CyberKnife Delivery Modalities: MLC Based Plans vs Iris Based Plans

Mary Oakey, University of North Carolina, Chapel Hill, NC

Design and implementation of a novel 3D-printed phantom for surface guided radiation therapy quality assurance

Kiran Pant, University of North Carolina, Chapel Hill, NC

8:10-8:50 AM

Utilization of an In-House Phantom for End-To-End Verification of a CBCT-Based Online Adaptive Radiotherapy System

Abigail Dare, Vanderbilt University School of Medicine, Nashville, TN

Method for Online IGRT-based Proton Dose Prediction

William Lepain, Georgia Tech University, Atlanta, GA

Feasibility of Hippocampal Avoidance and Effects of MLC Leaf Width in SIMT SRS

Zachary Gude, Duke University, Durham, NC

8:50-9:00 AM

Trainee Presentations I Q&A

Gold Sponsor Presentation

9:00 – 9:05 AM



Trainee Presentations II

An algorithmic approach to 3-D breast auto-planning

Gregory Szalkowski, University of North Carolina, Chapel Hill, NC

NeSTerS: A Record and Verify System Smart Tool Supplement for Tracking Patient Treatment Plan Status

9:05-9:37 AM

Milad Baradaran, Vanderbilt University School of Medicine, Nashville, TN

Physics Competency Program: A Solution for Completing the Demonstration and Verification Components During COVID-19 Pandemic Restrictions

Abigail Dare, Vanderbilt University School of Medicine, Nashville, TN

Automated Linac QA using Scripting in conjunction with Varian Developer Mode

Keith Pearman, Cone Health, Greensboro, NC

9:37-9:45 AM

Trainee Presentations II Q&A

Gold Sponsor Presentation

9:45-9:50 AM



9:50-10:35 AM

Morning Break – Sponsored by MIM

Visit the Exhibitors

State of the AAPM

10:35-11:45 AM	Session/Speaker Introduction <i>Carnell J Hampton, Levine Cancer Institute/Atrium Health, Charlotte, NC</i> Recent developments and trends in diagnostic x-ray imaging and AAPM's role in advancing medicine of the future <i>James Dobbins III, PhD, FAAPM, AAPM President</i>
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Chapter Session

11:45 AM-12:15 PM	Chapter Awards <i>Michelle Wells, MS, Piedmont Health, Atlanta, GA</i> Closing Remarks <i>Carnell J Hampton, Levine Cancer Institute/Atrium Health, Charlotte, NC</i>
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The Chapter Business Meeting will directly follow the Scientific Meeting.

The Southeast Chapter of AAPM would like to acknowledge the support of our Gold sponsors



This meeting has applied to CAMPEP for approval of 5.75 MPCEC hours.

All times are given in Eastern Standard Time (EST).