

**2022 SEAAPM Scientific Meeting
January 28 – 29, 2022****Devising Solutions Where None Exist:
Physicists at the Intersection of Creativity and Science**

Program Director: Megan Bright, MS DABR, SEAAPM President-elect

Hilton Charlotte University Place, 8629 J M Keynes Dr, Charlotte, NC 28262

All meeting sessions are in University Ballrooms C/D/E on Lower Level

Meals and Exhibitors are in the Lakeshore Ballroom

Friday, January 28th

Lunch Break

12:10-1:00 PM

Visit the Exhibitors

Welcome and Introduction

1:00-1:10 PM

*Megan Bright, MS, Levine Cancer Institute/Atrium Health, Concord, NC***MedPhys Slam**

MedPhys Slam Introduction

Megan Bright, MS, Levine Cancer Institute/Atrium Health, Concord, NC

1:10-1:20 PM

An Evaluation of Lung SBRT Target Metrics for Different Dose Calculation Algorithms

Joel Pogue, PhD, University of Alabama, Birmingham, AL

Analysis of a Surface Imaging System using a Six Degree of Freedom Couch for setting Stereotactic Radiosurgery Treatment Action Level

Xiaodong Zhao, PhD, University of Alabama, Birmingham, AL

1:20-1:30 PM

SCI 2 - MedPhys Slam Q&A**Keynote Presentation and Q&A**

1:30-2:30 PM

**The Power to Empower: Staff, Colleagues, and Others
(Patients and Families)***Charles Able, MS DABR FACR***Gold Sponsor Presentation**

2:30-2:40 PM



2:40-3:10 PM

Afternoon Break
Visit the Exhibitors

General Session I

Determining Size Specific Dose Estimate From CT Localizers

Christiane Burton, PhD, St Jude Children's Research Hospital, Memphis, TN

3:10-3:50 PM

Development of a Radiation Treatment Plan Scorer in a Community Setting

Nick Koch, PhD, Cone Health, Greensboro, NC

Development and Validation of the RapidPlan SBRT Spine Model Applicable to Various Regions of the Spine

Olga Pen, PhD, Levine Cancer Institute/Atrium Health, Concord, NC

3:50-4:00 PM

SCI 4 - General Session I Q&A

Session/Speaker Introduction

Megan Bright, MS, Levine Cancer Institute/Atrium Health, Concord, NC

4:00-5:10 PM

AAPM President Address

Medical Physics: Perspectives for the Future

J. Daniel Bourland, PhD, President, AAPM

Trainee ePoster Session and SEAAPM Social Event - Sponsored by:

5:30-8:00 PM



Lakeview Ballroom on Lower Level

Saturday, January 29th

7:00-8:00 AM

Breakfast

8:00-8:05 AM

Welcome and Introduction

Megan Bright, MS, Levine Cancer Institute/Atrium Health, Concord, NC

Trainee Presentations

Development and Implementation of a Novel 3D Printed Patient-Specific Cerrobend Mould Workflow

Andrew Jaffe, MS, Atrium Health/Landauer Medical Physics, Charlotte, NC

8:05-8:40 AM

Characterizing 250 MeV Protons for FLASH Radiotherapy

Serdar Charyyev, PhD, Emory University, Atlanta, GA

Development of an Algorithm to Detect and Quantify CT Motion Artifacts

Madhura Khandekar, Duke University, Durham, NC

8:40-8:50 AM

Trainee Presentations Q&A

Gold Sponsor Presentation

8:50 – 9:00 AM



**Professional Session-Medical Physics Leadership Academy (MPLA)
The Medical Physicist and the Evolving Role in Management and Leadership**

9:00-9:50 AM

*Michael Howard, PhD DABMP
Chair, Working Group on MPLA
Manager and Executive Development*

9:50-10:00 AM

Professional Session Q&A

10:00-10:30 AM

Morning Break
Visit the Exhibitors

Gold Sponsor Presentation

10:30-10:40 AM



General Session II

Are Auto-Generated Organ-at-Risk Contours Good Enough in Head-and-Neck Radiotherapy?

Han Liu, PhD, Cone Health, Greensboro, NC

Positron Emission Tomography and Computed Tomography Fetal Dose in Pregnant Patients

10:40-11:30 AM *Christiane Burton, PhD, St Jude Children's Research Hospital, Memphis, TN*

External Beam Treatment Failure Modes and Effects Analysis
Caroline Vanderstraeten, MS, Cone Health, Greensboro, NC

Creativity with Custom Bolus
Stephanie Parker, MS, Atrium Health Wake Forest Baptist Health High Point Medical Center, High Point, NC

11:30-11:45 AM

General Session II Q&A

Chapter Session

Chapter Awards

Stephanie Parker, MS, Atrium Health Wake Forest Baptist Health High Point Medical Center, High Point, NC

11:45 AM-12:15 PM

MedPhys Slam Winner Presentation

Closing Remarks

Megan Bright, MS, Levine Cancer Institute/Atrium Health, Concord, NC

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 5.1 MPCEC hours.