


# 2017 Spring Meeting Agenda

Thursday, March 30<sup>th</sup>, 2017

4:00-5:00	FLAAPM Board Meeting
6:00-8:00	<p><b><i>Icebreaker Reception &amp; Student Posters – Moderator: Matthew Studenski, PhD</i></b></p> <p>A. Ataei<sup>1</sup>, S. Pella<sup>1,2,3</sup>, Th. Leventouri<sup>1</sup>  <sup>1</sup>Florida Atlantic University, <sup>2</sup>21st center Oncology, <sup>3</sup>Advanced Radiation Physics Inc.  <b><i>Evaluation of Sperm Quality Affected by Therapeutic Radiation</i></b></p> <p>Shereen Chandrasekara, Silvia Pella, Janeil Pinder          Florida Atlantic University  <b><i>Impact Of The Dosimetric Consequences From Minimal Displacements Throughout The Treatment Time In APBI With Savi Applicators</i></b></p> <p>J.Pinder<sup>1</sup>, S. Chandrasekara<sup>1</sup>, M. Hyvärinen<sup>1</sup>, S. Pella<sup>1,2,3</sup>, Th. Leventouri<sup>1</sup>  <sup>1</sup>Florida Atlantic University, <sup>2</sup>21st Century Oncology, <sup>3</sup>Advanced Radiation Physics Inc.  <b><i>The Consistency Dosimetric Analysis of the Accelerated Breast Brachytherapy</i></b></p> <p>Mushfiqur Rahman, Theodora Leventouri, Georgios Kalantzis          Florida Atlantic University  <b><i>Matlab Toolkit for Physics Quality Assurance</i></b></p> <p>M. Shojaei<sup>1</sup>, N. Dumitru<sup>1</sup>, M. Hyvarinen<sup>1</sup>, J. Pinder<sup>1</sup>, S. Pella<sup>1,2,3</sup>, Th. Leventouri<sup>1</sup>  <sup>1</sup>Florida Atlantic University, <sup>2</sup>21st Century Oncology, <sup>3</sup>Advanced Radiation Physics Inc.  <b><i>The Consistency of Treatment Volume with Fractionated High-Dose Rate GYN Brachytherapy Using Multi Lumen Cylinders</i></b></p>

Friday, March 31<sup>st</sup>, 2017

7:00 – 8:00	<b><i>Continental Breakfast (Exhibit Area)</i></b>	
	<b>COMBINED SESSION</b>	<b>Hands-on TG-100 – Saiful Huq PhD &amp; Peter Dunscomb, PhD</b>
8:00-8:45	Bruce Thomadsen, PhD – AAPM President-Elect – AAPM Proposed Reorganization and Patient Safety Initiatives	<ul style="list-style-type: none"> <li>• Welcome</li> <li>• Overview of TG-100</li> <li>• Guidance for radiotherapy</li> </ul>
8:45-9:30	Rebecca Howell, PhD – Radiation Dosimetry Service, MD Anderson	
9:30-10:00	<b><i>Coffee Break – visit the vendors!</i></b>	
	<b>COMBINED SESSION</b>	<b>Hands-on TG-100 – Saiful Huq PhD &amp; Peter Dunscomb, PhD</b>
10:00-10:45	Chet Ford, PhD – University of Miami – Quantitative MR Imaging and MRI-based Radiomics in Radiation therapy: Applications and Challenges	<ul style="list-style-type: none"> <li>• Incident learning systems</li> <li>• Root cause analysis</li> <li>• Process mapping</li> </ul>
10:45-11:15	Richard Morin, PhD – Mayo Clinic – The Last 45 years of Medical Physics: Maverick to Cougar – “Just a walk in the park, Buddy”	
11:15-12:00	William Sensakovic, PhD – Florida Hospital – Practical Statistics Refresher	
12:00 -1:00	<b><i>Lunch (Exhibit Area)</i></b> Sponsored by:	
	<b>COMBINED SESSION</b>	<b>Hands-on TG-100 – Saiful Huq PhD &amp; Peter Dunscomb, PhD</b>
1:00-1:45	Shafiq Ul Hassan, PhD candidate - USF – Voxel size dependent CT radiomic features	<ul style="list-style-type: none"> <li>• Failure modes and effects analysis</li> <li>• O, S, and D values</li> <li>• Fault tree analysis</li> </ul>
1:45-2:30	Georgios Kalantzis, PhD – FAU – Gamma Index	
2:30-3:00	<b><i>Coffee Break – visit the vendors!</i></b>	

**Young Investigator Session - Moderators:**  
**Matthew Studenski, Ph.D, & Elizabeth Bossart, PhD, U of Miami**



**Sponsored by:**

H Alahmad, J Park, G Yan, B Lu, C Liu, J Li.  
 University of Florida

**Evaluation of Segment Delivery Accuracy of Gated IMRT**

A Boczkowski, J Pukala, T Willoughby, F Bova  
 University of Florida

**Baseline measurements quantifying a novel collimation system to perform stereotactic radiosurgery using a Mevion S250 proton therapy unit**

Z Christ, C Shang, G Gibbard, J Cole  
 Florida Atlantic University

**Impact of Rotational Deviations on a single fiducial based motion tracking using Synchrony® Respiratory Motion Tracking for Cyberknife M6**

P Galanakou, T Leventouri, G Kalantzis  
 Florida Atlantic University

**A parallelized GPU- based simulating annealing algorithm for intensity modulated radiation therapy optimization**

G Gibbard, C Shang  
 Florida Atlantic University

**A novel test to verify the accuracy and limitations of a fiducial based tracking system for linear & rotational respiratory tumor motion**

BA Housawi, EG Moros, PA Johnstone, K Latifi,  
 Moffitt Cancer Center/University of South Florida

**Estimation of Mean Bladder Volume Based on Cone-Beam Computed Tomography Modeling for Post-Operative Prostate Cancer Patients**

MC Hermansen, S Banks, F Bova  
 University of Florida

**Acquiring image guidance for non-coplanar stereotactic body radiation therapy via a novel robotic imaging system**

M Shang, F Bova  
 University of Florida

**A novel workflow for awake patient laser ablation**

3:00-5:00

- Managing quality: Useful resources & tips and tricks

5:00-10:00

**Night-In with live music**

Sponsored by



**Saturday, April 1<sup>st</sup>, 2017**

7:00-8:00	<b>Continental Breakfast (Exhibit Area)</b> FLAAPM Business Meeting Presentation of Fitzgerald Award for outstanding student presentation
8:00-9:00	<i>Yvette Forrest, RT-R – Bureau of Radiation Control, State of Florida</i> – Medical Events: What are you required to do?
9:00-9:45	<i>Robert Pooley, PhD – Mayo Clinic - TG-281 - AAPM Governance Assessment</i>
9:45-10:15	<b>Coffee Break – visit the vendors!</b> <span style="float: right;">Coffee break sponsored by</span>
10:15-11:00	<i>Silvia Pella, PhD – FAU</i> – The consistency in brachytherapy of endometrial and vaginal cancers and consequences of lacking it
11:00-12:00	<i>Dr. Mary Catherine Bowman – Orlando Health - HIV/AIDS</i>