St Anthony Hotel, San Antonio, TX

Thursday, April 10, 2014

8:00 – 5:00  Practice oral exam – Rajat Kudchadker, Ph.D.

6:30 – 8:30  Icebreaker (hors d’oeuvres) – hotel

Friday, April 11, 2014

7:00 – 7:40  Continental breakfast – hotel

7:45 – 7:50  Welcome and introductions – Niko Papanikolaou, Ph.D.

Session I – (SAM Session) General radiotherapy topics
(Moderator: Sotiri Stathakis, Ph.D.)

7:50 – 8:15  Review on image registration and the advantages and pitfalls of deformable registration – Xuejun Gu, Ph.D.

8:20 – 8:45  Practical considerations of the AAPM/ESTRO report on dose calculations in brachytherapy – Mitch Price, Ph.D.

8:50 – 9:15  Current status of SBRT/SRS/SRT – Alonso Gutierrez, Ph.D.

9:20 – 9:45  TG100 and beyond – John Gibbons, Ph.D.

9:50 – 10:00 Vendor presentation – TBD

10:00 – 10:30 Morning break

Session II – (SAM Session) General Diagnostic Radiology topics
(Moderator: Jason Stafford, Ph.D.)

10:30 - 11:00 Advances in CT Dose Reduction Technology - John Rong, Ph.D.

11:00 - 11:30 Radiobiological modeling and voxel-based dosimetry for liver-directed 90Y-microsphere therapies - Cheenu Kappadath, Ph.D.

11:30 - 12:00 Advances in Ultrasound Imaging - Richard Bouchard, Ph.D.

12:00 - 12:30 Overview of MRI guided focused ultrasound - R. Jason Stafford, Ph.D.
12:30 - 1:30  
*Lunch in the exhibit hall and time to meet with vendors*

1:30 – 2:00  
**Meet the Clinician**  
(Moderator: Kyle Jones Ph.D.)

Radiotherapy for benign tumors Tony Eng, M.D.

Neuroscience and Neuroimaging Peter Fox, M.D.

2:00 – 2:15  
*Vendor presentation – PTW-NY*

2:15 – 2:45  
Afternoon break

2:45 – 4:45  
**Session III – Young Investigator’s Symposium**  
(chair: Taki Mavroidis, Ph.D., co-chair: S. Cheenu Kappadath, Ph.D.)

4:45 – 5:00  
*Vendor presentation - TBD*

5:10 – 6:10  
*Awards ceremony*

6:30 –  
*Dinner on your own*

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**Saturday, April 12, 2014**

7:00 – 7:45  
*Continental breakfast*

**Session IV – (SAM Session) Professional issues in medical physics**  
(Moderator: Niko Papanikolaou, Ph.D.)

7:45 – 8:15  
Therapy Accreditation - Jennifer Johnson, MS

8:20 – 8:45  
RPC and the new IROC – Jessica Lowenstein, M.S.

8:50 – 9:15  
Quality methods in medicine – Joseph Steele, M.D, MMM

9:20 – 9:45  
ABR Update: Initial Certification and Maintenance of Certification of Medical Physicists - Geoffrey Ibbott, Ph.D.

9:45 – 10:00  
*Vendor presentation - TBD*

10:00 – 10:30  
Morning break

10:30 – 10:40  
*Vendor presentation - TBD*

**Session V – Advances in medical physics**  
(Moderator: Alonso Gutierrez, Ph.D.)
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<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>10:40 – 11:10</td>
<td><strong>Medical Imaging Informatics &amp;AAPM webmaster update- G. Kagadis, Ph.D.</strong></td>
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<td>11:10 – 11:40</td>
<td><strong>GPU Computing in Medical Physics - Steve Jiang, Ph.D.</strong></td>
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<td>11:40 – 12:10</td>
<td><strong>Advances in proton and heavy ion treatment - Salahuddin Ahmad Ph.D.</strong></td>
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<td>12:10 – 12:40</td>
<td><strong>Radiation Safety: challenges and opportunities since 911 - Michael Charlton, Ph.D.</strong></td>
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**END OF SCIENTIFIC PROGRAM**

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<tr>
<td>12:40 – 2:00</td>
<td><strong>PTW sponsored symposium and luncheon</strong></td>
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<td>- Dosimetry with a 3D water phantom- Wolfram Laub, Ph.D.</td>
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<td>- Small field dosimetry and microdiamond detector – Jan Wuerfel</td>
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<td>2:00 – 3:30</td>
<td><strong>SWAAPM Business Meeting</strong></td>
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<td>2:00 – 3:30</td>
<td><strong>New this year</strong> <strong>Residents/Students Social event</strong></td>
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<td>Meet the professor: discussion and tips on interviewing, job placement and career advancement.</td>
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