



American Association of Physicists in Medicine
Southwest Chapter Spring Meeting 2014
Arkansas – Louisiana – Oklahoma - Texas



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*

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.)

- 10:40 – 11:10 Medical Imaging Informatics &AAPM webmaster update- G. Kagadis, Ph.D.
- 11:10 – 11:40 GPU Computing in Medical Physics - Steve Jiang, Ph.D.
- 11:40 – 12:10 Advances in proton and heavy ion treatment - Salahuddin Ahmad Ph.D.
- 12:10 – 12:40 Radiation Safety: challenges and opportunities since 911 - Michael Charlton, Ph.D.

END OF SCIENTIFIC PROGRAM

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