

# 51st AAPM Annual Meeting Program

Key to Session Track Color Codes:	Professional	CE - Therapy	Joint Imaging/Therapy MOC Self Assessment Module (SAMs)	Industrial Physics Forum	CE - Imaging	Educational Council Sessions	Practical Medical Physics		
<b>Sunday, July 26</b>									
AA 9:30 - 11:00	Student Meeting Room: 210 A Moderator: E. Dick  Professional Council Symposium Ballroom D  License/Registration M. Bevan, R. Pizzarello, L. Fairbent  Education Council Symposium Ballroom B  Introduction of ABR 75th Anniversary Video Moderator: J. Anthony Seibert  CAMPEP Self-Study Workshop B. Gerbi, J. Bayouth, M. Herman								
BB 11:00 - 12:30	<b>1:00 Exhibit Hall Opens, Box Lunch/Refreshment Break in Exhibit Hall</b>								
DD 1:30 - 2:15	Moderated Poster - Therapy (Area 1) IMRT Moderator: J. Moran	Moderated Poster - Therapy (Area 2) Brachytherapy Moderator: P. Robinson	Moderated Poster - Joint (Area 3) Future Imaging Strategies in Radiotherapy Moderator: J. Balter	Moderated Poster - Imaging (Area 4) SPfCT and PET/CT Moderator: O. Mawlawi					
EE 2:15 - 3:00	Moderated Poster - Therapy (Area 1) Measurements I Moderator: T. Pawlicki	Moderated Poster - Therapy (Area 2) Treatment Planning I Moderator: J. L.	Moderated Poster - Joint (Area 3) Target Localization Moderator: E. F. Frost	Moderated Poster - Imaging (Area 4) Computed Tomography Moderator: M. McNitt-Gray					
FF 3:00 - 4:30	GENERAL POSTER DISCUSSION Professional Education Imaging Joint Imaging-Therapy Therapy								
GG 4:00 - 6:00	<b>3:00 - 4:00 Refreshment Break in Exhibit Hall</b>  Young Investigators Symposium Ballroom C Moderators: E. Podgorski, D. Frey								
<b>Monday, July 27</b>									
Room 211 A    Ballroom D    Ballroom B    Ballroom C    Room 303 A    Room 304 A    Room 210 A    Room 213 A									
A 7:30 - 8:25	CE-Therapy Pediatric Radiation Planning and Delivery A. Olch	CE-Therapy Quality Assurance for IGRT J. Bissonnette	CE-Therapy Series (SAM) Particle Therapy: Issues and Considerations H. Paganetti, A. Smith, J. Palta	CE-Therapy RPC Programs: Credentialing - QA of Clinical Trials G. Ibbott	CE-Imaging MRI I E. Jackson	CE-Imaging (SAM) Computed Tomography I Optimizing CT Dose and Image Quality D. Cody, M. McNitt-Gray	CE-Imaging Radiography/Fluoroscopy I S. Balter	CE-Imaging Ultrasound I J. Zagzebski	
B 8:30 - 9:25	CE-Therapy Biological/Clinical Outcome Models in RT Planning E. Yorke, A. Niemierko	CE-Therapy Stereotactic Cranial RS/RT T. Solberg, D. Shepard	CE-Therapy Radiation Therapy Shielding M. Martin	CE-Imaging Breast Imaging I K. Kanak				CE-Imaging Informatics I S. Balter	CE-Imaging Safety/Risk I M. Mahesh
<b>9:30 - 10:30 Coffee Break in Exhibit Hall</b>									
C 10:00 - 12:00	President's Symposium Theme Session for Industrial Physics Forum Ballroom B  Present and Future Role of Computers in Medicine Moderator: M. Giger, AAPM President Speaker: J. Foster								
<b>12:00 - 1:30 Lunch Break</b> 1:30 - 3:30 Society of Directors of Academic Medical Physics Programs (SDAMPP) - Annual Meeting (Room 210 D)									
Room 211 A    Ballroom D    Ballroom B    Ballroom C    Room 303 A    Room 304 A    Room 210 A    Room 213 A									
D 1:30 - 3:20	Professional Women in the AAPM K. Garman, E. Travis	Industrial Physics Forum Therapy Symposium The Physical and Challenges of Novel Proton Accelerators for Radiotherapy S. Tanawi, G. Caporaso, C. Ma, F. Poeschlmann, T. Garvey	Scientific Session IMRT I Chairs: N. Dogan, C. Saw	Industrial Physics Forum Joint Imaging - Therapy Symposium Challenges of Post-treatment and Real-time Imaging of Dose Deposition During Proton Therapy T. Borfield, T. Hong, K. Parodi, J. Kim	Innovations in Medical Physics Chair: D. Frey	Scientific Session Cone-beam Computed Tomography Chairs: W. Kalender, C. Shaw	Industrial Physics Forum Imaging Symposium Advances in Proton Counting Detectors in X-ray Imaging M. Danielsson, R. Lewinson, E. Roessl	Practical Medical Physics ACR Accreditation in Nuclear Medicine and PET - A Practical Guide C. MacFarlane, B. Harkness, P. Esser	
<b>3:30 - 4:00 Refreshment Break in Exhibit Hall</b>									
E 4:00 - 5:30	Professional Professional Doctor of Medical Physics B. Gerbi, M. Herman, C. Coffey, J. Hevizi, E. Klein	Moderated Posters (Exhibit Hall B)	Moderated Posters (Exhibit Hall B)	Frontiers in Physics S. Turner, J. Lykken, K. Deisseroth (Ballroom C)	Moderated Posters (Exhibit Hall B)	Moderated Posters (Exhibit Hall B)	Practical Medical Physics Using and Contributing to Shared Quantitative Imaging Resources L. Clarke, Y. Cao, E. Siegel		
EE 4:00 - 4:45	Moderated Poster - Therapy (Area 1) IMRT I Moderator: A. Olch	Moderated Poster - Therapy (Area 2) Monte Carlo and General CRT and IMRT Moderator: J. Antolak	Moderated Poster - Joint (Area 3) Update Image Guided Radiation Therapy Moderator: G. Magersas	Moderated Poster - Imaging (Area 4) MRI and Image Processing Moderator: D. Pickens					
FF 4:45 - 5:30	Moderated Poster - Therapy (Area 1) Measurements II Moderator: C. Liu	Moderated Poster - Therapy (Area 2) Treatment Planning II and Stereotactic Moderator: J. Bissonnette	Moderated Poster - Joint (Area 3) Target and Normal Organ Delineation Moderator: J. Deary	Moderated Poster - Imaging (Area 4) X-Ray Imaging and PACS Moderator: J. Siewersden					
<b>6:00 - 8:30 AAPM Awards Ceremony and Reception - Anahelm Marriott</b>									
<b>Tuesday, July 28</b>									
Room 211 A    Ballroom D    Ballroom B    Ballroom C    Room 303 A    Room 304 A    Room 210 A    Room 213 A									
A 7:30 - 8:25	CE-Therapy Margins in Radiotherapy D. Low, D. Litztenberg	CE-Therapy Series (SAM) Panel Session: IV and MV CBCT R. Hammond, J. Pouliot, D. Mosley, M. Milten	CE-Therapy Dose Calculation Algorithms in 3D CRT and IMRT T. Knoss, C. Ma	CE-Therapy Monte Carlo Implementation of Clinical Systems R. Popple, J. Cygler	CE-Imaging Computed Tomography II J. Siewersden, G. Chen	CE-Imaging (SAM) MRI II ACR MRI Accreditation Program Update Clinical Considerations of the ACR MRI Accreditation Program D. Reeve, T. Bramham	CE-Imaging Radiography/Fluoroscopy II C. Willis	CE-Imaging Multi-Modality Imaging I M. Vinner, P. Kinahan	
B 8:30 - 9:25	CE-Therapy Treatment Planning of Complex Cases: Strategies and Tradeoffs M. Hunt, T. Nurushev	CE-Therapy PET - Imaging, Planning and Assessment R. Jera, A. Kirov	CE-Imaging Breast Imaging II R. Gutierrez	CE-Imaging Breast Imaging II R. Gutierrez				CE-Imaging Radiocutaneous Imaging I S. White	CE-Imaging Safety/Risk II S. Balter
<b>9:30 - 10:30 Coffee Break in Exhibit Hall</b>									
C 10:00 - 12:00	Professional Recap the 2008 Physics Teachers Workshop W. Hendee	Industrial Physics Forum Therapy Symposium Technical and Biological Innovations in Small Animal Image-Guided Radiotherapy E. Ford, E. Moran, T. Solberg, S. Chang, E. Izagame, A. Hope	Scientific Session Radiobiology I Chairs: R. Ten Haken, A. Niemierko	Joint Imaging-Therapy Symposium Imaging is a Bomber D. Markolf, D. Sullivan, J. Boone	Scientific Session Modeling of Interaction Motion Chairs: M. Murphy, S. Cho	Scientific Session Computed Tomography and Radiation Dose Chairs: M. Goodstitt, R. Dixon	Industrial Physics Forum Imaging Symposium In Memoriam of Carolyn Kinne-Smith Developments in Breast Imaging W. Zhao, M. O'Connor, K. Paulsen, D. Istad	Practical Medical Physics Routine Testing of CR and DR Radiographic Systems C. Willis, S. Shepard, A. Jones, D. Peck	
<b>12:00 - 1:30 Lunch Break</b>									
D 1:30 - 3:20	Professional Regulatory Update A. Mauer, A. Randall, D. Gilley, J. Winston	Therapy Symposium Improving the Radiation Therapy Process Using Industrial Process Development Techniques S. Matic, T. Pawlicki, B. Thomassen, C. Neuwirth	Scientific Session Measurements I Chairs: B. Curran, B. Ajramyady	Scientific Session Interaction Motion and Margin Assessment Chairs: K. Brock, R. Howell	Industrial Physics Forum Joint Imaging-Therapy Symposium Nanotechnology in Imaging and Therapy A. Chaitzovanna, K. Kelly, S. Chen, G. Sgouras	Scientific Session Computed Tomography and Reconstruction Chairs: B. Whiting, G. Chen	Industrial Physics Forum Imaging Symposium Advances in Ultrasound Imaging and Therapy A. Fenster, C. Diederich, R. Witte, J. Cannata	Practical Medical Physics Code of Practice for the Proton Therapy System R. Maughan, R. Slopesma, J. Palta	
E 4:00 - 5:30	Professional New Member Symposium/ Meet the Experts H. Amodeo, W. Hendee, G. Barnes, D. Low, J. Hevizi	Industrial Physics Forum Therapy Symposium Locating and Targeting Moving Tumors S. Jiang, D. Ruan, L. Papiez	CE-Therapy Symposium In Memoriam of Arnold Fadiman Performance-based QA for Radiotherapy E. Klein, S. Diederich, T. Willoughby, K. Langen	Scientific Session Volumetric and Surface Imaging for Radiotherapy Guidance Chairs: S. Beddar, M. Andre	Industrial Physics Forum Joint Imaging-Therapy Symposium Screening, Diagnosis, and Treatment of Breast Cancer A. Maidment, A. Cervasi, J. Boone	Scientific Session Radiation Dosimetry Chairs: J. Seibert, B. Schneider, A. Altman, J. O'Sullivan	Industrial Physics Forum Imaging Symposium Advances in CT J. Heisl, B. Schmidt, A. Altman, J. O'Sullivan	Practical Medical Physics Clinical Implementation of Newer Technologies P. Plets, T. Solberg, M. Masterston-McGarry	
<b>6:00 - 10:00 AAPM Night Out - Beach Party - Arena Plaza</b>									
<b>Wednesday, July 29</b>									
Room 211 A    Ballroom D    Ballroom B    Ballroom C    Room 303 A    Room 304 A    Room 210 A    Room 213 A									
A 7:30 - 8:25	CE-Therapy New Measurement Doseimetry - New Developments J. Seuntjens, J. Gibbons, I. Das	CE-Therapy Panel Session: The Management of Motion, Technologies and Practical Limitations M. Kessler, J. Siewersden, J. Sonke	CE-Therapy IMRT Planning of the Pelvis/GU B. Jurkovic, R. Price	MRI III Y. Cao	CE-Imaging (SAM) Radiocutaneous Imaging II PET/CT, Technology Updates, Quality Assurance and Applications O. Mawlawi, S. Kapadath	CE-Imaging Radiography/Fluoroscopy III P. Rauch	CE-Imaging Ultrasound II W. Moore		
B 8:30 - 9:25	CE-Therapy MRI - Imaging, Planning and Assessment J. Bayouth, Y. Cao	CE-Therapy IMRT Metrology J. Moran, R. Stern	CE-Imaging Breast Imaging III D. Pfeiffer	CE-Imaging Breast Imaging III D. Pfeiffer				CE-Imaging Informatics II M. Flynn	CE-Imaging Safety/Risk II S. Balter
<b>9:30 - 10:00 Coffee Break</b>									
C 10:00 - 12:00	Professional Requirements and Opportunities for Maintenance of Certification C. Blatt, D. Frey, R. Morin, S. Thomas	Therapy Symposium Automated Segmentation for Radiotherapy Volume Definition W. Lu, K. Brock, L. Dong, D. Low	Scientific Session Treatment Planning and Stereotactic I Chairs: S. Goddu, Z. Li	Scientific Session Imaging for Therapy Assessment Chairs: R. Jera, E. Graves	Joint Imaging-Therapy Symposium The John S. Laughlin Science Council Research Symposium Moderators: J. Boone, P. Olson	Scientific Session Radiography, Fluoroscopy and MRI Spectroscopy D. Evans, L. Muller, S. Vedam Chairs: S. Moloi, S. Vedamtham	Imaging Symposium Advances in Quantitative MRI and MR Spectroscopy D. Evans, L. Muller, A. Henning, N. Jagannathan	Practical Medical Physics ACR Accreditation for MRI - Role of the Medical Physicist D. Reese, C. Keener, G. Clarke	
D 1:30 - 3:20	Professional Session Chair: D. Pfeiffer	Therapy Symposium Imaging and Treatment Planning for Adaptive Radiotherapy in the Head and Neck J. Sonke, K. Brock, L. Dong, V. Gregoire	Scientific Session Brachytherapy Chairs: J. Pouliot, J. Chu	Joint Imaging-Therapy Symposium MR-Guided Radiotherapy K. Pauly, M. Green, B. Fatone, J. Lagendijk	Scientific Session Innovations and Frontiers in Medical Physics Chairs: T. Borfield, J. Boone	Scientific Session Breast Imaging and CAD Chairs: A. Karelas, W. Zhao	Imaging Symposium Advances in Molecular Imaging C. Levin, L. Wang, K. Ferrara, G. Radu	Practical Medical Physics Setting up a Stereotactic Body Radiation Therapy (SBRT) Program in the Clinic D. Lovelock, S. Benedict, P. Reed, B. Kavanagh	
E 4:00 - 5:30	Education Symposium History R. Gould	Scientific Session Monte Carlo and General I Chairs: L. Cheney, B. Faddegon	Scientific Session IMRT II Chairs: P. Xia, M. Milten	Town Meeting AAPM Board of Director Members	Joint Imaging-Therapy Symposium Image Guided Interventions: Imaging Guidance and New Technologies for Interventional Procedures J. Siewersden, D. Hawkes, P. Keal	Scientific Session New Technology, Techniques and Observer Performance Chairs: E. Samei, D. Chaitzovanna	Imaging Symposium Advances in Cardiovascular Imaging: MRI, Fluoroscopy and Ultrasound M. Markl, M. Speidel, A. Fenster	Practical Medical Physics Practical Application of Beam Calibration Protocols B. Curran, S. Diederich, W. Abdel-Rahman, B. Gerbi	
<b>5:30 - AAPM Annual Business Meeting (Room 210A)</b>									
<b>Thursday, July 30</b>									
Room 211 A    Ballroom D    Ballroom B    Ballroom C    Room 303 A    Room 304 A    Room 210 A    Room 213 A									
A 7:30 - 8:25	CE-Therapy Digital Tomosynthesis F. Yin, D. Godfrey	CE-Therapy Panel Session: The Future of NIH Research Funding J. Williamson, C. Kie, H. Paganetti	CE-Therapy Series (SAM) HDR and LDR Brachytherapy: Everything You Need to Know R. Miller, B. Thomassen	CE-Therapy Tools for IMRT Commissioning: Static and Rotating Ganties G. Eccel, V. Xiao	CE-Imaging Computed Tomography III D. Pickens	CE-Imaging (SAM) Breast Imaging IV FFDM in the Field: Physicist's Role in the QC of Third-Party Review Work Sessions Digital Detector OC, Tips and Problems C. Keener, E. Bams	CE-Imaging Radiography/Fluoroscopy IV K. Strauss	CE-Imaging Multi-Modality Imaging II S. Siverson, E. Bullitt	
B 8:30 - 9:25	CE-Therapy Clinical Implementation of Respiration Motion Correlated Imaging, Treatment Planning and Delivery S. Matic, S. Vedam	CE-Therapy IMRT II Chairs: J. Wong, A. Chaitzovanna	CE-Therapy Small Animal Imaging and Therapy Chairs: J. Wong, A. Chaitzovanna	CE-Imaging MRI IV N. Yanasek	CE-Imaging Breast Imaging III D. Pfeiffer				
<b>9:30 - 10:00 Coffee Break - 3rd Level Foyer</b>									
C 10:00 - 12:00	Education Symposium Designing Effective and Efficient Medical Physics Learning Activities P. Spawls	Scientific Session Treatment Planning and Stereotactic II Chair: J. Hatt	Professional (SAM) PQI M. Taylor, M. Yester	Scientific Session Target Localization Chairs: C. Ma, D. Hawkes	Scientific Session Image Processing, Segmentation and Registration Chairs: S. Samant, J. Xia	Scientific Session Brain Interventional and Perfusion Imaging M. Wintermark, R. Gould, A. Washko, S. Rudin	Imaging Symposium Advances in Cardiovascular Imaging: MRI, Fluoroscopy and Ultrasound M. Markl, M. Speidel, A. Fenster	Practical Medical Physics Quality Assurance for Ultrasound Units Used in Radiation Therapy How to Apply TG128 and TG154 Recommendations in the Clinic S. Suttaj, J. Molloy	
<b>12:00 - 1:30 Lunch Break - 3rd Level Foyer</b>									
D 12:30 - 2:20	Professional Economic Update J. Goodman, J. Hevizi	Scientific Session Radiobiology II and Informatics Chair: S. Matic	Scientific Session Beam CT Chairs: J. Williamson, R. Fahig	Scientific Session Cone Beam CT Chairs: J. Williamson, R. Fahig	Scientific Session Correction Strategies Chairs: S. Jiang, E. Lee	Scientific Session Magnetic Resonance Imaging and Nuclear Medicine Techniques Chairs: M. Su, J. Halama	Scientific Session Translational Research Moderators: M. Milten, D. Godfrey	Scientific Session Target and Normal Organ Definition Chairs: K. Sheng, M. Madsen	
<b>CLOSE OF MEETING</b> SEE YOU NEXT YEAR IN PHILADELPHIA - JULY 18 - 22, 2010									