

PROGRAM AT A GLANCE

SUNDAY, JULY 20

PROFESSIONAL	THERAPY EDUCATION	THERAPY SCIENTIFIC	JOINT IMAGING – THERAPY SCIENTIFIC	IMAGING SCIENTIFIC	IMAGING EDUCATION	PRACTICAL MEDICAL PHYSICS	QUANTITATIVE IMAGING				
A 9:30–11:00	Education Council Symposium Online Education in Medical Physics Moderator: <i>J Dobbins</i> J Dobbins, J Prisciandaro, C Bloch, E Gingold, G Starkschall, M Oldham, P Sprawls, Y Xiao Ballroom F				AAPM Medical Physics Student Meeting Beyond Clinical Medical Physics: Entrepreneurship and Opportunities in Industry Moderators: <i>A Rodriguez, J Stanford</i> R Pizzutiello, M Svatos Ballroom E						
B 11:00–12:30	PROFESSIONAL COUNCIL SYMPOSIUM The Evolving US Healthcare Delivery Model – How Will the Medical Physics Profession Be Impacted and How Should We Respond? Moderator: <i>P Halvorsen</i> P Halvorsen, K Shine, G White Ballroom F										
12:30 Exhibit Hall Opens Refreshment Break in Exhibit Hall											
C 1:00–1:55	Room 16A SNAP Oral Brachytherapy - HDR Techniques <i>R Cormack, M Fox</i>	Room 19A SNAP Oral Immobilization Devices and Techniques <i>J Reiff, P Balter</i>	Ballroom E SNAP Oral Radiobiology Modeling and Pre-Clinical Studies <i>R Berbco, E Armour</i>	Ballroom D SNAP Oral Safety and Novel QA Systems <i>M Sharpe, B Thomadsen</i>	Ballroom F SNAP Oral Motion Evaluation and Prediction <i>J Siebers, W D'Souza</i>	Room 17A SNAP Oral MR-Guided RT <i>Y Hu, P Keall</i>	Room 18A JSNAP Oral Image Registration and Segmentation <i>E Schreibmann, G Sharp</i>	Room 18C SNAP Oral Radiography/Fluoroscopy <i>E Gingold, K Fetterly</i>	Room 9A SNAP Oral Nuclear Medicine Imaging <i>O Mawlawi, M King</i>	Room 12A SNAP Oral CT Dosimetry <i>K Kanal, X Li</i>	
D 2:05–3:00	SNAP Oral Outcome Assessment and Modeling <i>T McNutt, A Jackson</i>	SNAP Oral Electron Beam Therapy <i>J Antolak, D Switzer</i>	SNAP Oral Proton Beam Delivery Techniques <i>J Farr, E Klein</i>	SNAP Oral Informatics and Cloud-Based Techniques <i>B Curran, Q Wu</i>	SNAP Oral Novel Techniques for IGRT and Brachytherapy <i>C Glide-Hurst, N Yue</i>	SNAP Oral Imaging for Respiratory Motion <i>S Jiang, D Hristov</i>	SNAP Oral Real-Time Imaging and Tracking <i>J Rottmann, S Jiang</i>	SNAP Oral MRI: Novel Techniques and Safety <i>J Ma, Y Shu</i>	SNAP Oral Multi-Modality/PET <i>B Pogue, T Pan</i>	SNAP Oral Cone-Beam CT <i>G Chen, L Zhu</i>	
Exhibit Hall (Refreshment Breaks, Posters and Technical Exhibits) 3:00–3:30 Refreshment Break in Exhibit Hall											
E 3:00–6:00	CAMPUS POSTER DISCUSSIONS Imaging Campus: Innovation in Imaging Dosimetry Joint Imaging-Therapy Campus: QA for Image-Guided Radiation Therapy Therapy Campus: Novel Measurement Tools and Equipment QA Therapy Campus: Patient Specific QA in Proton Therapy Provosts available 3:00 - 4:00/Presenting Authors available 3:00 - 6:00				GENERAL POSTER DISCUSSION Education, Imaging, Joint Imaging-Therapy, Professional, Quantitative Imaging, Therapy Presenting Authors available 3:00 - 6:00			BEST IN PHYSICS Poster Theaters and Discussion in the Exhibit Hall Presenting Authors available 3:30 - 4:00			
F 4:00–6:00	VISIT THE VENDORS and POSTER VIEWING	SNAP Oral Brachytherapy Planning and Dose Calculation <i>F Mourtada, W Butler</i>	SNAP Oral Dose Measurement Tools and QA <i>R Siaton, S Beddar</i>	SNAP Oral Photon Therapy Planning and Dose Calculation <i>C Mayo, N Papanikolaou</i>	SNAP Oral DIR and Dose Impact <i>J Yang, L Dong</i>	VISIT THE VENDORS and POSTER VIEWING	VISIT THE VENDORS and POSTER VIEWING	SNAP Oral CT Topics <i>E Samei, J Rong</i>	VISIT THE VENDORS and POSTER VIEWING	VISIT THE VENDORS and POSTER VIEWING	

PROGRAM AT A GLANCE

MONDAY, JULY 21

PROFESSIONAL	THERAPY EDUCATION COURSE	THERAPY SCIENTIFIC	JOINT IMAGING – THERAPY SCIENTIFIC	IMAGING SCIENTIFIC	IMAGING EDUCATION COURSE	PRACTICAL MEDICAL PHYSICS	QUANTITATIVE IMAGING			
Room 16A	Room 19A	Ballroom E	Ballroom D	Ballroom F	Room 17A	Room 18A	Room 18C	Room 9A	Room 12A	
A 7:30–8:25	SYMPOSIUM QA Procedures and Metrics: In Search of QA Usability S Tripathi, V Sathiseelan, B Thomadsen	SYMPOSIUM Interview Like Your Job Depended On It! R Miller, M Meineke	7:30 - 9:30 John R. Cameron Young Investigator Symposium Moderators: M Martel, G Frey Ballroom D			Room 18A	SAM SESSION (7:30 - 8:30) Proton Therapy I: Basics of Proton Therapy B Arjomandy, N Sahoo, M Pankuch	Innovation in Medical Physics Practice: 3D Printing Applications E Ehler, J Perks, K Rasmussen, P Bakic	Joint Imaging Education - Quantitative Imaging Symposium: Genomics and Image-omics for Medical Physicists M Giger, M Cowperthwaite, M Markey	
	SYMPOSIUM In Memoriam of Donald D. Tolbert: Surviving the Politics of Radiation Therapy R Tarver, R Morin, J Bayouth, J Limmer	SYMPOSIUM MOC: A How-To Guide G Frey, J Allison, J Seibert, G Ibbott					Room 18C Proton Therapy II: Proton Stereotactic Radiotherapy B Winey, J Daartz			
9:30–10:15 Coffee Break in Exhibit Hall										
C 10:15–11:10	SYMPOSIUM Grantsmanship and Funding H Paganetti, K Farahani, G Evans, K Brown, M Davis, M Meltner, S Beddar	SYMPOSIUM The WMIS-AAPM Joint Symposium: Advances in Molecular Imaging J Hazle, A Wu, C Contag, B Pogue, J Lewis	SAM SESSION (10:15 - 11:15) SBRT I: Overview of Simulation, Planning, and Delivery J Cai, K Wijesooriya, S Benedict	SAM SESSION (10:15 - 11:15) Pediatric Treatment Planning I: Overview of Planning Strategies A Olch, C Hua	SCIENTIFIC SESSION DIR and Dose Impact E Ahunbay, I Chetty	SYMPOSIUM Advances in Model-Based 3D Image Reconstruction J Siewerdsen, L Yu, G Chen, X Pan, J Stayman, E Samei	Radiation Risks at Level of Few CT Scans: How Real? - Science to Practice M Rehani, E Samei, W Morgan, R Shore, M Goske	Effective Medical Physics Educational Activities: Models and Methods P Sprawls	SYMPOSIUM Quantitative Imaging Initiatives: Why, Who, What, and How? D Sullivan, E Jackson, L Clarke, N Petrick, S Russek	
			SYMPOSIUM International Day of Medical Physics M Rehani, K Cheung, J Damilakis	SAM SESSION In Memoriam of Bengt Bjarngard: SBRT II: Small Field Dosimetry - TG155 I Das, C Reft						Pediatric Treatment Planning II: The PENTEC Report on Normal Tissue Complications E Yorke, L Constine, D Hodgson, S Bentzen
D 11:15–12:15	12:15–1:45 Lunch Break Visit the Technical Exhibits									
	SYMPOSIUM Preparing for the ABR Diagnostic Medical Physics Exam M Supanich, Z Grelewicz, J Wang, M Vanderhoek	SYMPOSIUM Determination, Minimization and Communication of Uncertainties in Radiation Therapy J Van Dyk, J Palta, T Bortfeld, B Mijnheer	SYMPOSIUM Adapt-A-Thon - Texas Hold'em Invitational M Kessler, K Brock, J Pouliot, L Dong	SYMPOSIUM Research Opportunities in Technology for Innovation in Radiation Oncology (Highlight of ASTRO NCI 2013 Workshop) M Martel, S Hahn, D Jaffray, I Chetty, S Benedict	SCIENTIFIC SESSION CT Dosimetry D Bakalyar, D Zhang	SAM SESSION Best Practice In Pediatric Imaging C Willis, K Strauss, R MacDougall, C Sammet	EDUCATION SESSION Innovation in Medical Physics Education V Montemayor, S Avery	Risk Based Quality Management: TG100 In Action S Huq, J Palta, P Dunscombe, B Thomadsen	SYMPOSIUM Quantitative Imaging: Techniques, Applications, and Challenges E Jackson, M McNeill-Gray, R Jeraj, Y Cao	
E 1:45–2:40	SYMPOSIUM Preparing for the ABR Therapy Medical Physics Exam P Galavis, B Chinsky, S Becker	SYMPOSIUM Proffered Session R Tarver	SYMPOSIUM Research Opportunities in Technology for Innovation in Radiation Oncology (Highlight of ASTRO NCI 2013 Workshop) M Martel, S Hahn, D Jaffray, I Chetty, S Benedict	SYMPOSIUM Research Opportunities in Technology for Innovation in Radiation Oncology (Highlight of ASTRO NCI 2013 Workshop) M Martel, S Hahn, D Jaffray, I Chetty, S Benedict	SCIENTIFIC SESSION CT Dosimetry D Bakalyar, D Zhang	SAM SESSION Best Practice In Pediatric Imaging C Willis, K Strauss, R MacDougall, C Sammet	EDUCATION SESSION Innovation in Medical Physics Education V Montemayor, S Avery	Risk Based Quality Management: TG100 In Action S Huq, J Palta, P Dunscombe, B Thomadsen	SYMPOSIUM Quantitative Imaging: Techniques, Applications, and Challenges E Jackson, M McNeill-Gray, R Jeraj, Y Cao	
F 2:45–3:45	SYMPOSIUM Preparing for the ABR Therapy Medical Physics Exam P Galavis, B Chinsky, S Becker	SYMPOSIUM Proffered Session R Tarver	SYMPOSIUM Research Opportunities in Technology for Innovation in Radiation Oncology (Highlight of ASTRO NCI 2013 Workshop) M Martel, S Hahn, D Jaffray, I Chetty, S Benedict	SYMPOSIUM Research Opportunities in Technology for Innovation in Radiation Oncology (Highlight of ASTRO NCI 2013 Workshop) M Martel, S Hahn, D Jaffray, I Chetty, S Benedict	SCIENTIFIC SESSION CT Dosimetry D Bakalyar, D Zhang	SAM SESSION Best Practice In Pediatric Imaging C Willis, K Strauss, R MacDougall, C Sammet	EDUCATION SESSION Innovation in Medical Physics Education V Montemayor, S Avery	Risk Based Quality Management: TG100 In Action S Huq, J Palta, P Dunscombe, B Thomadsen	SYMPOSIUM Quantitative Imaging: Techniques, Applications, and Challenges E Jackson, M McNeill-Gray, R Jeraj, Y Cao	
3:45–4:30 Refreshment Break in Exhibit Hall										
G 4:30–5:15	Student and Trainee Mock-Interviews Pre-registration Required	SYMPOSIUM ABR Exams; A Glimpse Behind the Curtains G Ibbott, S Dieterich, M Yester, J Allison, J Seibert	SCIENTIFIC SESSION Patient Safety and Quality Improvement T Pawlicki, E Ford	Point-Counter Debate: Arc Based Techniques Will Make Conventional IMRT Obsolete C Orton D Shepard, R Pople, P Balter	SCIENTIFIC SESSION Physics of Cancer 2 K Sheng, L Court	SCIENTIFIC SESSION Nuclear Medicine Imaging M Hatt, P Kinahan	SAM SESSION Radiation Dose Reducing Strategies in CT, Fluoroscopy and Radiography M Mahesh, E Gingold, K Jones	SCIENTIFIC SESSION MRI: Acquisition Physics and QA D Pickens, Y Hu	Imaging Refresher for Standard of Care Radiation Therapy Z Labby, W Sensakovic, E Hipp, M Altman	
		SCIENTIFIC SESSION Electron Beam Therapy - Novel Applications K Hogstrom, T Zhu	SCIENTIFIC SESSION Patient Safety and Quality Improvement T Pawlicki, E Ford	Point-Counter Debate: Arc Based Techniques Will Make Conventional IMRT Obsolete C Orton D Shepard, R Pople, P Balter	SCIENTIFIC SESSION Physics of Cancer 2 K Sheng, L Court	SCIENTIFIC SESSION Nuclear Medicine Imaging M Hatt, P Kinahan	SAM SESSION Radiation Dose Reducing Strategies in CT, Fluoroscopy and Radiography M Mahesh, E Gingold, K Jones	SCIENTIFIC SESSION MRI: Acquisition Physics and QA D Pickens, Y Hu	Imaging Refresher for Standard of Care Radiation Therapy Z Labby, W Sensakovic, E Hipp, M Altman	SYMPOSIUM Quantitative Imaging Metrology: What Should be Assessed and How? M Giger, N Petrick, N Obuchowski, P Kinahan
H 5:15–6:00	Student and Trainee Mock-Interviews Pre-registration Required	SCIENTIFIC SESSION Electron Beam Therapy - Novel Applications K Hogstrom, T Zhu	SCIENTIFIC SESSION Patient Safety and Quality Improvement T Pawlicki, E Ford	Point-Counter Debate: Arc Based Techniques Will Make Conventional IMRT Obsolete C Orton D Shepard, R Pople, P Balter	SCIENTIFIC SESSION Physics of Cancer 2 K Sheng, L Court	SCIENTIFIC SESSION Nuclear Medicine Imaging M Hatt, P Kinahan	SAM SESSION Radiation Dose Reducing Strategies in CT, Fluoroscopy and Radiography M Mahesh, E Gingold, K Jones	SCIENTIFIC SESSION MRI: Acquisition Physics and QA D Pickens, Y Hu	Imaging Refresher for Standard of Care Radiation Therapy Z Labby, W Sensakovic, E Hipp, M Altman	
6:30–8:00 AAPM Awards Ceremony — Austin Hilton/Austin Grand Ballroom 8:00–9:00 Reception — Foyer										

PROGRAM AT A GLANCE

TUESDAY, JULY 22

PROFESSIONAL	THERAPY EDUCATION COURSE	THERAPY SCIENTIFIC	JOINT IMAGING – THERAPY SCIENTIFIC	IMAGING SCIENTIFIC	IMAGING EDUCATION COURSE	PRACTICAL MEDICAL PHYSICS	QUANTITATIVE IMAGING			
Room 16A	Room 19A	Ballroom E	Ballroom D	Ballroom F	Room 17A	Room 18A	Room 18C	Room 9A	Room 12A	
A 7:30–8:25	SYMPOSIUM Medical Physics Meets the Press: How to Talk to the Public Media D Pfeiffer, S Opita	SAM SESSION (7:30 - 8:30) Image Co-Registration I: Introduction and Review M Kessler	SYMPOSIUM The Relative Biological Effectiveness of Proton Beams Relative to Photon Beams H Paganetti, R Stewart, A Carabe-Fernandez	Outcomes of Hypofractionated Treatments - Initial Results of the WGSBRT J Grimm, E Yorke, X Li, P Lee, N Ohri, M Joiner, F Kong, A Jackson	MR Guided Radiation Therapy T Stanescu, J Balter, T Nyholm, J Legendijk	SYMPOSIUM In Memoriam of Benjamin M. Galkin: Virtual Tools for Validation of X-Ray Breast Imaging Systems P Bakic, K Myers, N Suntharalingam, C Abbey, M Kupinski, T Mertelmeier	SAM SESSION Basic Principles of PET/CT, Calibration Methods and Contrast Recovery Across Multiple Cameras C Kappadath, J Nye	SAM SESSION ACR Accreditation Updates in CT, Ultrasound, Mammography and MRI J Kofler, R Price, E Berns, N Hangiandreou, M McNitt-Gray	SCIENTIFIC SESSION Optical, Ultrasound, and Emerging Imaging Techniques L Xing, X Tang	SCIENTIFIC SESSION X-Ray and CT S Armato, S Fain
B 8:30–9:30	SYMPOSIUM To Which Journal Should I Submit My Paper J Williamson, T Pawlicki, M Mills, E Klein	SAM SESSION Image Co-Registration II: TG132-Quality Assurance for Image Registration K Brock, S Mutic								
9:30–10:15 Coffee Break in Exhibit Hall										
C 10:15–11:10	Joint AAPM/SEFM/AMPR Educational Workshop on "Education of Radiotherapy Physicists" M Mahesh, C Borras, G Frey, M Ribas, F Ballester, P Kazantsev, D Kostylevs	SYMPOSIUM "Leaning In" to Equal Opportunity for Women: The Responsibility of Individuals, Employers and Organizations N Ranger, E Travis	SCIENTIFIC SESSION KEYNOTE SESSION: Photon Therapy Treatment Delivery and Verification J Siebers, N Agazaryan	SAM SESSION Image Guided SBRT I: Multi-modality 4D Imaging F Yin, J Cai, G Mageras, T Pan	SYMPOSIUM Innovation in Medical Physics and Engineering S Tripathi, R Mohan, N Pelc, D Jaffray, R Mackie	Scientific Session Photon Therapy - Inverse Planning and Plan Evaluation M Phillips, C Yu	SYMPOSIUM Models of Risk from Low-dose Radiation Exposures: What Does the Evidence Say? C McCollough, J Bushberg, D Boreham, B Ulsh	Medical Physics 1.0 to 2.0: Introduction and Panel Discussion D Pfeiffer, E Samei, G Frey, E Krupinski, R Pizzutiello, P Carson, M Mahesh, N Hangiandreou, D Jordan, R Dixon	IROC Organization and Clinical Trial Credentialing D Followill, A Molineu, Y Xiao	SCIENTIFIC SESSION MR and Multimodality R Jeraj, M Giger
D 11:15–12:15				SAM SESSION Image Guided SBRT II: Challenges & Pitfalls Z Chang, F Yin, J Cho				SAM SESSION TG176: Dosimetric Effects of Couch Tops and Immobilization Devices A Olch		
12:15–1:45 Lunch Break Visit the Technical Exhibits										
E 1:45–3:45	PRESIDENT'S SYMPOSIUM The Necessity of Innovation in Medical Physics Moderator: J Bayouth J Bayouth, J Siewerdsen, E Wahl Ballroom D									
3:45–4:30 Refreshment Break in Exhibit Hall										
F 4:30–6:00	SYMPOSIUM Communicating Risk C McCollough, D Pfeiffer, L Wagner, J Kofler, L Brateman	SYMPOSIUM New Member Symposium J Keener, G Sherouse, R Miller	SCIENTIFIC SESSION SBRT/SRS: Dose Measurement Tools and Equipment QA T Solberg, P Dunscombe	SYMPOSIUM Biomedical Informatics for Medical Physicists M Phillips, I Kalet, T McNutt, W Smith	SCIENTIFIC SESSION Planning, Registration and Segmentation C Coolens, H Li	SCIENTIFIC SESSION Motion Evaluation and Prediction G Mageras, F Yin	Scientific Session Multi-Energy CT S Molloy, S Leng	SCIENTIFIC SESSION Breast Imaging A Karellas, I Sechopoulos	Balancing Image Quality and Dose in Radiography R Marsh, D Peck, A Pasciak	SCIENTIFIC SESSION Nuclear Medicine, Optical, and Ultrasound O Mawlawi, P Carson
6:30–10:00 AAPM Night Out — Bob Bullock Texas State Museum										

PROGRAM AT A GLANCE

WEDNESDAY, JULY 23

PROFESSIONAL	THERAPY EDUCATION COURSE	THERAPY SCIENTIFIC	JOINT IMAGING – THERAPY SCIENTIFIC	IMAGING SCIENTIFIC	IMAGING EDUCATION COURSE	PRACTICAL MEDICAL PHYSICS	QUANTITATIVE IMAGING			
Room 16A	Room 19A	Ballroom E	Ballroom D	Ballroom F	Room 17A	Room 18A	Room 18C	Room 9A	Room 12A	
A 7:30–8:25 B 8:30–9:30	SYMPOSIUM International Medical Physics Symposium: Increasing Access to Medical Physics Education/training and Research Excellence T Bortfeld, T Ngoma, F Odedina, S Morgan, R Wu, E Sajo, W Ngwa	SAM SESSION (7:30 - 8:30) SRT I: Comparison of SRT Techniques G Kim, D Schlesinger, M Descovich SAM SESSION SRT II: Uncertainties in SRT S Dieterich, D Schlesinger, S Geneser	SAM SESSION Symposium Debate: To Measure or Not to Measure J Moran, M Miften, D Mihailidis	Innovation in Radiation Therapy Planning I: Knowledge Guided Treatment Planning F Yin, S Mutic, Q Wu, L Olsen Innovation in Radiation Therapy Planning II: Cloud Computing in RT K Moore, G Kagadis, L Xing, T McNutt	SYMPOSIUM Dual-Energy CT Imaging in Diagnostic Imaging and Radiation Therapy S Molloy, B Li, F Yin, H Chen	SCIENTIFIC SESSION Brachytherapy Techniques R Flynn, W Song	SAM SESSION TG246 on Patient Dose from Diagnostic Radiation M Supanich, F Dong, J Andersson, W Pavlicek, W Bolch, K Fetterly	SYMPOSIUM Emerging and Innovative Ultrasound Technology in Diagnosis and Therapy M Holland, S Emelianov, A Oraevsky, J Stafford	ABR Interactive Hands-On Question Writing Workshop G Frey, D Breckenridge, H Hopkins Ticketed Event	Medical Physics 1.0 to 2.0, Session 2: Radiography, Mammography and Fluoroscopy E Samei, E Gingold, A Karellas, K Strauss
	9:30–11:00 Coffee Break Visit the Vendors in Exhibit Hall									
C 9:30-11:00 VISIT THE VENDORS Technical Exhibits Area										
D 11:00–12:15	SYMPOSIUM ACR Radiology Leadership Institute J Clements, G Rubin	SYMPOSIUM Clinical Training of Physics Residents: How Do We Efficiently Teach Residents to Become Excellent Clinical Physicists? S Dieterich, J Gibbons, G Sherouse, A Siochi	SCIENTIFIC SESSION Biological Effect and Outcome Modeling I El Naqa, M Martel	Innovation in Radiation Therapy Delivery: Advanced Digital Linac Features L Xing, J Wong, R Li	SCIENTIFIC SESSION Imaging for Particle Therapy F Van den Heuvel, J Kruse	SCIENTIFIC SESSION Particle Therapy Dose Measurement and Scanning Beam Delivery B Clasie, S Both	SCIENTIFIC SESSION CT Image Quality M Goodsitt, L Yu	SAM SESSION Art of Imaging: Diagnostic Ultrasound Image Artifacts J Zagzebski, Z Lu	SCIENTIFIC SESSION PACS/Display/Image Registration S Langer, W Mao	Stereotactic Breast Biopsy R Pizzutiello, V Patel
12:15–1:45 Lunch Break Visit the Technical Exhibits (NOTE: Exhibits close at 2:00 pm)										
E 1:45–2:40	SYMPOSIUM Medical Physics Economics Update J Goodwin, B Dirksen, J White	SYMPOSIUM Globalization of Medical Physics M Rehani, A Meghziene, V Tsapaki, R Padovani, Y Pipman, E Lief	SCIENTIFIC SESSION Pre-Clinical Radiobiology and Imaging Studies S Chang, J Deasy	SAM SESSION (1:45 - 2:45) HDR Brachytherapy I: Overview of Clinical Application and QA S Benedict, B Libby, T Showalter	SYMPOSIUM The ESTRO-AAPM Joint Symposium on Imaging for Proton Treatment Planning and Guidance F Vandenheuveel, G Ezzell, K Parodi, D Dauvergne, J Kruse	SCIENTIFIC SESSION Science Council Session: The Physics of Cancer R Jeraj, L Nagahara	SCIENTIFIC SESSION Radiography/Fluoroscopy A Jones, W Zhao	SYMPOSIUM Multi-Energy CT: Current Status and Recent Innovations N Pelc, C McCollough, L Yu, T Schmidt	SAM SESSION Ultrasound Elasticity P Carson, B Fowlkes, S Emelianov, T Hall, R Bouchard	Medical Physics 1.0 to 2.0: MRI, Displays, Informatics E Samei, D Pickens, M Flynn, D Peck
F 2:45–3:45	Scientific Session Application of 3D Printer Technology in Radiation Therapy T Waldron, B Curran			SAM SESSION HDR Brachytherapy II: Integrating Imaging with HDR O Craciunescu, D Todor, A de Leeuw						
3:45–4:30 Refreshment Break — Ballroom D Foyer										
G 4:30–6:00	HISTORY SYMPOSIUM Evolution of Radiation Treatment Planning L Rothenberg, R Mohan, J Van Dyk, B Fraass, T Bortfeld	SYMPOSIUM Radiologists and Medical Physicists: Working Together to Achieve Common Goals A Jones, J Ma, J Steele, H Choi	SCIENTIFIC SESSION Nanoparticle Applications for Radiation Therapy J Schuemann, S Cho	SCIENTIFIC SESSION SBRT and SRS G Kim, L Wang	SCIENTIFIC SESSION Real-Time Imaging and Tracking G Hugo, L Cervino	SCIENTIFIC SESSION MRI in the Treatment Room T Nyholm, S Mutic	SCIENTIFIC SESSION CT Image Reconstruction X Pan, J Stayman	SCIENTIFIC SESSION MRI: Image Quality and Applications in RT R Stafford, J Cai	Radiation Oncology Outcomes Informatics C Mayo, R Miller, J Sloan, J Wu, R Howell	High Intensity Focused Ultrasound Surgery and Therapy T Wilson, T Lynch, K Farahani, B O'Neill
6:15–7:30 AAPM Annual Business Meeting / Town Hall Meeting — AAPM Board of Director Members — Ballroom F										

PROGRAM AT A GLANCE

THURSDAY, JULY 24

PROFESSIONAL	THERAPY EDUCATION COURSE	THERAPY SCIENTIFIC	JOINT IMAGING – THERAPY SCIENTIFIC	IMAGING SCIENTIFIC	IMAGING EDUCATION COURSE	PRACTICAL MEDICAL PHYSICS	QUANTITATIVE IMAGING			
Room 16A	Room 19A	Ballroom E	Ballroom D	Ballroom F	Room 17A	Room 18A	Room 18C	Room 9A	Room 12A	
A 7:30–8:25	SAM SESSION Image Quality for the Radiotherapy Physicists: Review of the Fundamentals and Automated Techniques J Siebert, P Imbergamo	SCIENTIFIC SESSION Monte Carlo and GPU Techniques for Proton Therapy Dose Calculation X Jia, B Faddegon	SYMPOSIUM The Status of Intensity Modulated Proton and Ion Therapy L Dong, R Zhu, J Unkelbach, R Schulte	SAM SESSION Radiation Biology for Radiation Therapy Physicists S Benedict, C Orton, C Borras, D Carlson	SYMPOSIUM MRI-Guided RT J Balter, J Lagendijk	SYMPOSIUM Innovation in PET Instrumentation and Applications M Casey, R Miyaoka, Y Shao	SAM SESSION Innovation in Clinical Breast Imaging I Reiser, B Liu, K Yang, M Yaffe, J Chen	SCIENTIFIC SESSION Cone-Beam CT J Siewerdsen, J Wang	SCIENTIFIC SESSION SBRT/SRS: Planning and Delivery Techniques L Wang, J Burmeister	Medical Physicist's Role in Digital Information Security: Threats, Vulnerabilities and Best Practices S Langer, K McDonald, B Curran
B 8:30–9:30										TG124 "A Guide for Establishing a Credentialing and Privileging Program for Users of Fluoroscopic Equipment in Healthcare Organizations" M Moore
9:30–10:15 Coffee Break — Ballroom D Foyer										
C 10:15–11:10	SYMPOSIUM MBAs for Medical Physicists R Tarver, D Kim	SCIENTIFIC SESSION Detector and Dose Measurement Tools C Reff, M McEwen	IGART: Fast On-Line Planning for IGART J Lagendijk, U Oelfke, B Raaymakers, X Jia, E Ahunbay, X Li	SCIENTIFIC SESSION Particle Therapy Planning and Robustness Evaluation C Beltran, A Trofimov	SYMPOSIUM The Promise and Potential Pitfalls of Deformable Image Registration in Clinical Practice K Brock, M Oldham, J Pouliot, J Cai	SCIENTIFIC SESSION Novel Imaging Methods for Therapy C Pelizzari, D Yang	SCIENTIFIC SESSION Multi-Detector CT J Hsieh, N Pelc	SAM SESSION MRI Safety R Pooley, M Bernstein, A Panda, Y Shu, K Gorny, J Felmler	Lean Tools and Methods D Rangaraj, K Chan, S Boddu, T Pawlicki, S Dieterich	SCIENTIFIC SESSION Novel Photon Dose Delivery Techniques N Papanikolaou, J DeMarco
D 11:15–12:15	SYMPOSIUM Writing and Reviewing Papers for Medical Physics P Slattery, J Williamson, S Das, M Goodsitt									
12:15–1:00 Grab-N-Go Lunch — Ballroom D Foyer										
E 1:00–1:55	SYMPOSIUM Building, Maintaining and Improving Physics Residency Program E Klein, J Nye	SAM SESSION Quality and Safety in Radiation Therapy E Ford, G Ezzell, B Miller, E Yorke	SCIENTIFIC SESSION Photon Therapy - Planning and Dose Calculation Methods J Mechalakos, J Seuntjens	SYMPOSIUM Innovation in (gold) Nanoparticle-enhanced Therapy S Krishnan, B Chithrani, R Berbeco	SCIENTIFIC SESSION Treatment Response Assessment Y Cao, S Bowen	SCIENTIFIC SESSION Imaging for Respiratory Motion J Cai, D Ruan	Room 18A		Room 9A	
F 2:00–2:50							SCIENTIFIC SESSION Developments in Monte Carlo Methods for Medical Imaging I Sechopoulos, A Badal, W Bolch, W Zbijewski	Imaging Educational Course Medical Physics 1.0 to 2.0, Session 4: Computed Tomography, Ultrasound and Nuclear Medicine E Samei, N Hangiandreou, J Nelson		
2:50–3:30 Poster TEAR-DOWN										
CLOSE OF MEETING See you next year in Anaheim, California! July 12–16, 2015										