





PROGRAM AT A GLANCE | SUNDAY, JULY 30

Certificate Course	Professional	Therapy Education	Therapy Scientific	Joint Imaging-Therapy Scientific	Joint Imaging-Therapy Education	Imaging Scientific	Imaging Education	Practical Medical Physics	Ultrasound	Technical Exhibit Hall	
A 8:30–10:00	AAPM Medical Physics Student Meeting Provocative Questions in Medical Physics Training Moderators: N Viscariello, A Diamant-Boustead M Lawless, J Seuntjens, D Hyer, M Giger, M Svatos, M Morales, N Viscariello Location: Four Seasons 2										
SPS 10:00–10:30	Undergraduate Networking Moderator: Brad Conrad Location: Four Seasons 2										
B 9:30–10:30	Professional Council Symposium Communicating with Patients: A Vital Skill for a Medical Physicist Moderator: D Pavord D Pavord, R Pizzutiello, D Brown Location: Four Seasons 4										
C 10:30–11:30	Joint Council Symposium New Opportunities for Medical Physics Moderator: J Dobbins J Dobbins, R Jeraj, E Samei, J Paila Location: Four Seasons 4										
D 11:30–12:30	Education Council Symposium Future Trends in Medical Physics Education Moderator: J Dobbins J Dobbins, E Jackson, J Prisciandaro, V Montemayor Location: Four Seasons 4										
12:30 Exhibit Hall Opens Refreshment Break in Exhibit Hall											
	Room 205	Room 108	Four Seasons 2	Four Seasons 1	Room 605	Four Seasons 4	Room 601	Room 702	Room 201	Room 708	Exhibit Hall C
E 1:00–1:55	Therapy SNAP Oral Brachytherapy J Zhou, T Podder	Therapy SNAP Oral Phantoms D Mackin, R Howell	Therapy SNAP Oral Treatment Planning I S Yu, D Brown	Therapy SNAP Oral Preclinical Studies W Ngwa, R Wiersma	Joint Imaging-Therapy SNAP Oral Functional Imaging and Modeling G Pratz, S Shen	Joint Imaging-Therapy SNAP Oral Adaptive Therapy and Image Guidance L Dong, N Wen	Joint Imaging-Therapy SNAP Oral Tracking and Image Guidance B Fahimian, B Bednarz	Imaging SNAP Oral Radiography/Fluorocopy S Rudin, K Yang	Imaging SNAP Oral Cone Beam CT I X Jia, F Noo	Imaging SNAP Oral Nuclear Medicine T Pan, Z Qi	
F 2:05–3:00	Therapy SNAP Oral Novel Treatment Investigations Z Wen, P Keall	Therapy SNAP Oral Dosimetry S Yu, E Parsai	Therapy SNAP Oral Treatment Planning II J Roper, A Yock	Therapy SNAP Oral Dose Response Studies D Fried, I El Naqa	Joint Imaging-Therapy SNAP Oral Radiomics H Gao, D Li	Joint Imaging-Therapy SNAP Oral Image Segmentation B Han, S James	Joint Imaging-Therapy SNAP Oral Image Guidance and Verification of Proton Therapy Y Yang, D Mirkovic	Imaging SNAP Oral Mam/Rad/Flu I Reiser, B Schueler	Imaging SNAP Oral Cone Beam CT II X Tang, T Zhang	Ultrasound SNAP Oral Ultrasound Imaging and Guidance of Radiation Therapy X Yang, J Cunha	
EXHIBIT HALL (Refreshment Breaks, Posters and Technical Exhibits) 3:00–3:30 Refreshment Break in Exhibit Hall											
G 3:00–4:00 BIP	BEST IN PHYSICS Presenting Authors available 3:30–4:00 Location: ePoster Theaters in the Exhibit Hall										
H 3:00–5:00 GePD	GENERAL ePOSTER DISCUSSION Imaging Joint Imaging-Therapy Therapy Location: Lounge Areas in the Exhibit Hall										
I 3:00–6:00 GPD	GENERAL POSTER DISCUSSION Education Professional Imaging Joint Imaging-Therapy Therapy Ultrasound Society of Physics Students (SPS) Undergraduate Research Presenting Authors available 3:00–6:00										
J 4:00–5:00 CAMPUS	ePoster CAMPUS Imaging: Innovations in Imaging Provost J Wang Joint Imaging-Therapy: Image Analysis and Therapeutic Guidance Provost Y Xie Therapy: QA and Dosimetry Provost D Mihailidis Location: ePoster Theaters in the Exhibit Hall										
K 4:00–6:00	Therapy SNAP Oral Dose Measurements and Shielding P Balter, D Ionascu	Therapy SNAP Oral Particle Therapy C Peeler, H Paganetti	Therapy SNAP Oral Broad and Interesting Therapy Topics H Alipour, M Aristophanos	Therapy SNAP Oral Treatment Planning III C Mayo, B Bednarz	Joint Imaging-Therapy SNAP Oral Imaging H Al-Hallaq, D Pafundi	Joint Imaging-Therapy SNAP Oral Image Analysis and Learning P Keall, J Star-Lack	Joint Imaging-Therapy SNAP Oral CT/MR/Multi-Modal Imaging in Radiation Therapy K Ding, K Bush	Imaging SNAP Oral Novel Systems and Preclinical Imaging X Pan, B Pogue	Imaging SNAP Oral CT M McNitt-Gray, K Li	Imaging SNAP Oral MRI J Ma, J Cai	

PROGRAM AT A GLANCE | MONDAY, JULY 31

Certificate Course	Professional	Therapy Education	Therapy Scientific	Joint Imaging-Therapy Scientific	Joint Imaging-Therapy Education	Imaging Scientific	Imaging Education	Practical Medical Physics	Ultrasound	Technical Exhibit Hall		
	Room 205	Room 108	Four Seasons 2	Four Seasons 1	Four Seasons 4			Room 702	Room 201	Room 708	Exhibit Hall C	
A 7:30–8:25	Therapy Educational Course Personalized Electron Beam Therapy Using Custom Treatment Devices Moderator: J Antolak, J Antolak, K Hogstrom	Professional Symposium Advanced Training of Medical Physicists Beyond North America Moderator: E Lief, E Lief, Y Pipman, V Tsapaki, J Damilakis, M Rehani, J Van Dyk	Therapy Educational Course Machine Learning in Medical Physics Moderator: X Tang, X Tang, H Lin, L Xing, T Kadir	Therapy Educational Course Clinical Implementation of Pencil Beam Scanning (PBS) Proton Therapy Moderator: L Dong, L Dong, X Zhu, M Pankuch	John R. Cameron Young Investigator Symposium Moderators: M Martel, M Giger			Imaging Educational Course Multi-modality 4D Imaging: From Principles to Applications Moderator: L Ren, G Hugo, D Low, L Ren, W Yang	Practical Medical Physics Tailoring CT Protocols to the Patient's Age, Size, and Clinical Scenario Moderator: D Bakalyar, D Bakalyar, F Ranallo, K Applegate	Ultrasound Symposium Ultrasound Imaging and Therapy Hands-On Workshop Moderator: Z Lu, Z Lu, S Sammet		
B 8:30–9:30												
RAM 9:30–10:00 GEPD	GENERAL ePOSTER DISCUSSION Imaging Joint Imaging-Therapy Therapy Location: Lounge Areas and ePoster Theaters in the Exhibit Hall											
9:30–10:15 Coffee Break in Exhibit Hall												
C 10:15–12:15	President's Symposium Connecting Our Pathways. Unifying Our Profession. Moderator: M Martin M Martin, J Borgstede, B Kavanagh, P Naine Four Seasons 2											
12:15–1:45 Lunch Break + Visit the Technical Exhibits												
L 1:15–1:45 GePD	GENERAL ePOSTER DISCUSSION Imaging Joint Imaging-Therapy Therapy Location: Lounge Areas and ePoster Theaters in the Exhibit Hall											
	Room 205	Room 108	Four Seasons 2	Four Seasons 1	Room 605	Four Seasons 4	Room 601	Room 702	Room 201	Room 708	Exhibit Hall C	
D 1:45–2:45	SAM: Joint Imaging-Therapy Symposium In Memoriam of Michael Sharpe: The Future of Precision in RT Moderator: D Jaffray, Memorial Lecturer: D Jaffray, T McNutt, D Moseley, K Brock	SAM: Professional Symposium Recent Medical Physics Practice Guidelines and Your Delivery Path Moderator: R Tarver, B Parker, P Halvorsen, D Jacqumin, J Fontenot	SAM: Therapy Educational Course HDR Brachytherapy: Interstitial Treatments for GYN Panel Discussion Moderator: H Al-Hallaq, H Al-Hallaq, J Prisciandaro, J Zoberi	Therapy Scientific Session Novel Delivery and QA Techniques K Kisling, J Farr	Therapy Scientific Session Radiobiology and Small Animal Systems I Chetty, T Zhu	SAM: Therapy Educational Course HDR Brachytherapy: Treatment Verification Methods Moderator: A Damato, O Craciunescu, I Buzurovic, G Cohen	Joint Imaging-Therapy Symposium WMIS/AAPM Joint Symposium: Imaging Hypoxia Moderators: J Hazle, S Gambhir, K Krohn, R Mason, E Graves	SAM: Imaging Symposium Deep Learning and Applications in Medical Imaging Moderator: B Sahiner, B Sahiner, L Hadjiiski, M Giger, R Summers	SAM: Imaging Educational Course MR in RT: MR Pulse Sequences and Image Acquisition (Including Radiation Therapy Applications) Moderator: D Jordan, N Yanasak, K Sheng, H Gach	Education Session Innovation in Medical Physics Education V Montemayor	SAM: Ultrasound Symposium US Guidance for RT Interventions Moderator: B Salter, D Fontanarosa, K Ding, D Hristov	PARTNERS IN SOLUTIONS (1:45-3:15) Imaging: Metal Artifact Reduction Moderators: N Brown, C Dodge PinS Room Hall C
E 2:45–3:45												
RPM 3:45–4:15 GEPD	GENERAL ePOSTER DISCUSSION Imaging Joint Imaging-Therapy Therapy Location: Lounge Areas and ePoster Theaters in the Exhibit Hall											
3:45–4:30 Refreshment Break in Exhibit Hall												
F 4:30–5:30 CAMPUS	Imaging: MRI/PET-MRI Provost K Gorny Joint Imaging-Therapy: Clinical Applications of Imaging for Therapy Provost I Chetty Therapy: Treatment Planning and Optimization Provost R Cardan Location: ePoster Theaters in the Exhibit Hall											
F 4:30–6:00	Joint Imaging-Therapy Scientific Session Image Segmentation D Low, L Ren	Professional Symposium Recent Changes to the ABR MOC Process Moderator: G Frey, J Seibert, G Ibbott	SAM: Therapy Educational Course MR in RT: MR Image Processing, Registration and Planning in Radiation Therapy Moderator: J Cai, J Cai, D Schlesinger, Y Yang	Therapy Scientific Session New Treatment Devices and Approaches E Moros, R Berbeco	SAM: Joint Imaging-Therapy Symposium Machine Learning Role in Radiomics and Radiogenomics Moderators: I El Naqa, R Ten Haken, S Gulliford, G Pandey, C Fuller	Joint Imaging-Therapy Symposium FUTURE: Provocative Questions in Medical Physics Moderators: R Jeraj, T Bortfeld, G Liu, R Austin, R Jeraj, T Bortfeld	SAM: Imaging Symposium 2017 ICRU Gray Medal: Presentation of the Medal and Lectures by the Pioneers Moderators: P DeLuca, G Chen, C Mistretta, C Strother, T Grist	SAM: Imaging Educational Course El Di Oh! Implementation and Interpretation of the Exposure Indicator for Digital Radiography Moderator: A Jones, R Fisher, K Hulme, A Jones, J Dave, R MacDougall, C Willis	SAM: Practical Medical Physics Statistical Failings that Keep Us in the Dark & Practical Statistics Moderator: D Schlesinger, D Schlesinger, J Sloan, W Sensakovic	SAM: Ultrasound Symposium US Guided Systems for Brachytherapy Moderator: L Beaulieu, A Fenster, X Yang, L Beaulieu	INTERVIEW WORKSHOP	
6:30–8:00 AAPM Awards Ceremony, Hyatt Regency, Centennial Ballroom 8:00–9:00 Reception, Hyatt Regency, Capital Ballroom												

PROGRAM AT A GLANCE | TUESDAY, AUGUST 1

Certificate Course	Professional	Therapy Education	Therapy Scientific	Joint Imaging-Therapy Scientific	Joint Imaging-Therapy Education	Imaging Scientific	Imaging Education	Practical Medical Physics	Ultrasound	Technical Exhibit Hall
Room 205	Room 108	Four Seasons 2	Four Seasons 1	Room 605	Four Seasons 4	Room 601	Room 702	Room 201	Room 708	Exhibit Hall C
A 7:30-8:30 SAM: Therapy Symposium Microscopic Monte Carlo Simulations for Radiobiology Modeling: Advances and Challenges Moderator: X Jia, J Schuemann, I Plante, A McNamara, Z Tian	SAM: Professional Symposium Code of Ethics: Practicing Our Values Moderator: C Skourou, G Sherouse, K Osterman	SAM: Therapy Educational Course Inverse Optimization Meets High Performance Computing Moderator: K Sheng, D O'Connor, D Nguyen, A Modiri, H Paganetti	SAM: Therapy Symposium QA for Modern Radiation Therapy Moderator: R Wiersma, Y Yang, R Wiersma, D Yang	SAM: Therapy Educational Course Big Data 1: Current Big Data Resources and Technology in Radiation Oncology Moderator: S Benedict, S Benedict, T McNutt, L Xing, E Roelofs	SAM: Joint Imaging-Therapy Symposium Design for Care Moderator: E Ford, E Ford, C Negrut, E Krupinski, A Samost-Williams	Imaging Scientific Session MRI R Stafford, Y Shu	SAM: Imaging Educational Course A Concise Introduction to MRI Moderator: A Wolbarst, A Wolbarst, N Yanasak, R Stafford	SAM: Practical Medical Physics Good, Bad and Ugly of Patient Exposure and Dose Tracking Moderator: M Rehani, M Rehani, M Kalra, M McNitt-Gray	SAM: Ultrasound Symposium Therapeutic Ultrasound and Immunotherapy: A Primer Moderator: E Maros, E Repasky	
B 8:30-9:30 SAM: Professional Symposium MR in RT: Professional Requirements for Physicists in MRI Guided Radiation Therapy Moderator: J Och, M Amuraa, G Clarke	SAM: Professional Symposium MR in RT: Professional Requirements for Physicists in MRI Guided Radiation Therapy Moderator: J Och, M Amuraa, G Clarke			SAM: Therapy Educational Course Big Data 2: New and Emerging Big Data Strategies in Radiation Oncology Moderator: J Deng, J Deng, C Mayo, S Mutic				SAM: Practical Medical Physics Identifying Image Artifacts, Their Causes, and Solutions Moderator: R Pooley, R Pooley, J Kofler, B Kemp	Ultrasound Symposium HIFU in Oncology Moderator: C Diederich, K Sharma, G Ter Haar	Professional Symposium How to Prepare for and Navigate the Board Certification Process in Diagnostic and Nuclear Imaging Moderator: T Szczykutowicz, N Bevins, T Szczykutowicz, N Busse PinS Room Hall C
9:30-11:00 Coffee Break in Exhibit Hall										
C 9:30-11:00 GePD	GENERAL ePOSTER DISCUSSION Imaging Joint Imaging-Therapy Therapy Location: Lounge Areas and ePoster Theaters in the Exhibit Hall									
9:30-11:00	VISIT THE VENDORS: Technical Exhibits Area EXPANDING HORIZONS: General Poster Area in Exhibit Hall C									
D 11:00-12:15 Therapy Scientific Session Dose Calculations U Tift, B Fallone	Therapy Scientific Session Inverse Planning and Optimization D Craft, K Sheng	Professional Symposium What to Do: Medical Physicist Assistants Moderator: P Halvorsen, G Ezzell, D Fontenla, B Schueler	SAM: Therapy Educational Course Developments in Clinical Reference Dosimetry Moderator: B Muir, B Muir, M McEwen, S Kry, V Feyselman	SAM: Joint Imaging-Therapy Symposium Roles of In-vivo Dose Verification in Radiation Therapy Moderator: S Beddar, S Beddar, J Polf, K Tanderup	Joint Imaging-Therapy Scientific Session MRI and Radiation Therapy D Hristov, N Dogan	Imaging Scientific Session MRI J Hazle, Y Zhou	SAM: Imaging Educational Course Best Practices in Pediatric Imaging Moderator: C Sammet, L Johnson, C Sammet	SAM: Practical Medical Physics MR in RT: Implementation in RT Planning and Delivery Moderator: J Wang, C Gide-Hurst, Y Hu, J Bourland	Ultrasound Symposium Advanced Novel Technologies & Delivery Strategies in HIFU Moderator: A Payne, K Hynynen, R Chopra	
12:15-1:45 Lunch Break + Visit the Technical Exhibits										
L 1:15-1:45 GePD	GENERAL ePOSTER DISCUSSION Imaging Joint Imaging-Therapy Therapy Location: Lounge Areas and ePoster Theaters in the Exhibit Hall									
E 1:45-3:30	SAM Educational Topic-Specific Guided Tours Organizer: N Brown Imaging - Quality Assurance Phantoms in Diagnostic Imaging: Room 113 Therapy - Secondary Dose Calculation Programs: Room 111 [TICKETED EVENT]									
F 1:45-2:45 Therapy Scientific Session Dose Measurements T McNutt, M Oldham	SAM: Professional Symposium Leading From the Middle Moderator: R Miller, N Henjum, L Quinn [TICKETED EVENT]	Joint Imaging-Therapy Scientific Session MRI-Guided Radiation Therapy J Cai, T Niedermayr	 Imaging Educational Course Anne and Donald Herbert Distinguished Lectureship in Modern Statistical Modeling Moderator: S Sammet, D Krewski	Joint Imaging - Therapy Scientific Session SCIENCE COUNCIL SESSION: Big Data, Deep Learning, and AI in Imaging and Radiation Oncology M Giger, C Mayo	SAM: Joint Imaging-Therapy Symposium MR-guided Radiotherapy Moderator: J Bayouth, E Paulson, C Gide-Hurst, M Bassetti	SAM: Imaging Symposium Photon Counting Detectors and Their Applications in Medical Imaging Moderators: C McCollough, T Schmidt, S Leng, S Moloi, K Li	Therapy Scientific Session Patient Safety J Johnson, R Backul	 SAM: Practical Medical Physics Compliance with AAPM, ACR, TJC Guidelines on CT Clinical Practice Moderator: T Szczykutowicz, T Szczykutowicz, I Reiser, A Browne	SAM: Ultrasound Symposium Therapeutic Strategies and Image Guidance in HIFU Moderator: R Chopra, C Caskey, C Guha, A Payne, T Khokhlova	Professional Symposium Navigating the Board Certification Process: Therapy Physics Moderator: D Hyer, D Hyer, B Dirksen PinS Room Hall C
G 2:45 - 3:45			 Imaging Educational Course The Future of Medical Physics in Relation to Low Dose Radiation Effects Moderator: R Layman, L Wagner, M O'Connor					SAM: Practical Medical Physics DBT Quality Assurance: Medical Physicists Role, From Equipment Evaluation to Soft Copy Image Display Moderator: K Chakrabarti, K Chakrabarti		Joint Imaging-Therapy Symposium PROSTATEx-2 Challenge Moderator: S Armato, K Farahani, S Armato, K Drukker PinS Room Hall C
RPM 3:45-4:15 GePD	GENERAL ePOSTER DISCUSSION Imaging Joint Imaging-Therapy Therapy Location: Lounge Areas and ePoster Theaters in the Exhibit Hall									
3:45-4:30 Refreshment Break in Exhibit Hall										
H 4:30-5:30 CAMPUS	Imaging: CT and CBCT Provost J Stayman Joint Imaging-Therapy: Quantitative Imaging and Analytics Tools Provost W Mao Therapy: Proton Therapy Provost R Amos Location: ePoster Theaters in the Exhibit Hall									
H 4:30-6:00 SAM: Joint Imaging-Therapy Symposium Radiomics for Lung Cancer Moderator: R Li, F Yin, R Li, D Mackin	Professional Symposium New Member Symposium Moderators: L Johnson, C Gnaster, L Johnson, M Marlin, J Clements, T Pawlicki, G Sherouse	SAM: Therapy Educational Course Electronic Charting in Radiation Oncology and Integration with Hospital EMR Moderator: J Mechalakos, G Kim, Y Huang, L Fong de los Santos, M Surucu, Y Yu	 SAM: Therapy Symposium Joint Scientific Symposium with ESTRO: From Bench to Bedside Via Veterinary Radiation Oncology Moderator: S Dieterich, S Saporeto, T Yamamoto, M Kent, S Dieterich	Joint Imaging-Therapy Scientific Session Image Guided Radiation Therapy R Hamilton, E Schreibmann	Joint Imaging-Therapy Scientific Session Radiomics and Image Analysis L Xing, I El Naqa	SAM: Imaging Symposium Non-conventional Multi-source X-Ray Imaging: Cardiac, Breast Imaging and Cone Beam CT Moderator: M Speidel, T Zhang, Q Zhou, M Speidel, S Hsieh	SAM: Imaging Educational Course 90Y-Microsphere Therapy: Emerging Trends and Future Directions Moderator: K Little, V Gates, M Vanderhoeck	SAM: Practical Medical Physics An Interactive Safety Session for New Brachytherapy Practitioners Moderator: S Richardson, S Richardson, Z Ouhib, T Showalter	Ultrasound Symposium HIFU Treatment Planning, Modeling, and Dose Moderator: D Christensen, J Jenne, D Christensen, D Schlesinger	
6:30-10:00 AAPM Night Out Denver Art Museum										

PROGRAM AT A GLANCE | WEDNESDAY, AUGUST 2

Certificate Course	Professional	Therapy Education	Therapy Scientific	Joint Imaging-Therapy Scientific	Joint Imaging-Therapy Education	Imaging Scientific	Imaging Education	Practical Medical Physics	Ultrasound	Technical Exhibit Hall	
	Room 205	Room 108	Four Seasons 2	Four Seasons 1	Room 605	Four Seasons 4	Room 601	Room 702	Room 201	Room 708	Exhibit Hall C
A 7:30-8:25	SAM: Imaging Educational Course Certificate of Completion Course Overview of Imaging's Role in Clinical Trial Moderators: M McNitt-Gray, J Wang, J Cai J Wang, K Farahani, T Turkington, D Cody	SAM (7:30-8:30): Professional Symposium Physicists' Roles and Workload for NCTN (National Clinical Trials Network) Clinical Trials Moderator: A Moineu A Moineu, H Al-Hallaq, J Monroe	SAM: Joint Imaging-Therapy Educational Course In Memoriam of Bob Gorson: Radiation Programs in Medical Centers Moderator: M Martin Memorial Lecturer: C Barros M Martin, J Clements, J Fairbanks, M Sheetz	SAM: Therapy Symposium The Role of Physics in Long Term Epidemiological Studies of Pediatric Radiotherapy Patients Moderator: C Lee A Berrington deGonzalez, R Howell, C Lee, W Newhauser	Therapy Scientific Session Advances in Brachytherapy S Vedam, R Cormack	SAM: Joint Imaging-Therapy Symposium Optical Image-guided Surgery Moderator: K Farahani B Pogue, A Glaser, M Bradbury, K Farahani	Imaging Scientific Session Radiography/Fluoroscopy A Karellas, M Speidel	SAM (7:30-8:30): Imaging Educational Course Advanced Breast Imaging: Stereotactic Breast Biopsy Updates and Contrast Enhanced Spectral Mammography Moderator: G Mihai G Mihai, W Geiser	SAM (7:30-8:30): Practical Medical Physics From the Trenches: Implementing the Changes of the New MR QA Manual Moderator: N Yanasak N Yanasak	Ultrasound Symposium Performance Evaluation of Ultrasound Systems: Advanced Methods and Applications Moderator: Z Lu N Hangiandreou	
B 8:30-9:30	SAM: Imaging Educational Course Certificate of Completion Course Overview of Imaging's Role in Clinical Trial Moderators: M McNitt-Gray, J Wang, J Cai J Wang, K Farahani, T Turkington, D Cody	Professional Symposium In Memoriam of Ann Wright: Panel Discussion: Promoting Diversity Through Active Mentoring Moderator: L Cervino Memorial Lecturer: C Orton Panel Members: L Cervino, N Ranger, E Krupinski, M McNitt-Gray, S Avery, J Moran, J Pollard	SAM: Joint Imaging-Therapy Educational Course In Memoriam of Bob Gorson: Radiation Programs in Medical Centers Moderator: M Martin Memorial Lecturer: C Barros M Martin, J Clements, J Fairbanks, M Sheetz	SAM: Therapy Symposium The Role of Physics in Long Term Epidemiological Studies of Pediatric Radiotherapy Patients Moderator: C Lee A Berrington deGonzalez, R Howell, C Lee, W Newhauser	Therapy Scientific Session Advances in Brachytherapy S Vedam, R Cormack	SAM: Joint Imaging-Therapy Symposium Optical Image-guided Surgery Moderator: K Farahani B Pogue, A Glaser, M Bradbury, K Farahani	Imaging Scientific Session Radiography/Fluoroscopy A Karellas, M Speidel	SAM: Therapy Educational Course Intra-Operative Radiotherapy (IORT): Breast and Beyond Moderator: Y Liao S Beddar, H Zhang, Y Liao, J Turian	SAM: Practical Medical Physics Perspectives in MRI Safety for Medical Physicists Moderator: M Amurao M Amurao, A Panda	Ultrasound Symposium The Carson/Zagzebski Distinguished Lecture on Medical Ultrasound Moderators: T Liu, C Diederich L Wang	
RAM 9:30-11:00 GEPD	GENERAL ePOSTER DISCUSSION Imaging Joint Imaging-Therapy Therapy Location: Lounge Areas and ePoster Theaters in the Exhibit Hall										
9:30 -11:00 Coffee Break in Exhibit Hall											
C 10:15-12:00	SAM Educational Topic-Specific Guided Tours Organizer: N Brown Imaging - Quality Assurance Phantoms in Diagnostic Imaging: Room 113 Therapy - Secondary Dose Calculation Programs: (10:15 - 11:40) Room 111 (TICKETED EVENT)										
D 10:15-11:15	SAM: Joint Imaging-Therapy Scientific Symposium Certificate of Completion Course Recent Advancement of Imaging Guidance in Clinical Trial Moderators: M McNitt-Gray, J Wang, J Cai W Lin, G Ibbott, F Kong, S Leng, E Jackson, L Court	Professional Symposium Professional Liability and Legal Considerations Moderator: D Jordan C Cardenas, J Masten	SAM: Joint Imaging-Therapy Educational Course Medical Physics 3.0 in Design Moderator: E Samei E Samei, R Miller, M Fox, M Giger, E Chin, B Whelan	SAM: Therapy Symposium Quantitative Imaging Guided Adaptive Radiotherapy Moderator: A Li J Deasy, F Kong, U van der Heide, A Li	Imaging Scientific Session Multi-Energy CT L Yu, T Schmidt	SAM: Joint Imaging-Therapy Symposium Research Funding Moderator: C Peeler K Farahani, C Peeler, A Sawant, C Gilde-Hurst	Imaging Symposium Emerging and New Generation PET: Instrumentation, Technology, Characteristics and Clinical Practice Moderator: J Zhang T Turkington, J Zhang, O Mawlawi, J Karp	SAM: Imaging Educational Course Implementation of the 2016 ACR Digital Mammography Quality Control Manual Moderator: P Butler P Butler, D Pfeiffer, E Berns	SAM: Practical Medical Physics Improving Dose Prescriptions for Safety, Reporting, and Clinical Guideline Consistency Moderators: I Das, J Moran I Das, J Moran, M Langer	SAM: Ultrasound Symposium Advances in Ultrasound Contrast Agents for Diagnosis & Therapy Moderator: P Carson J Dahl, J Eisenbrey, K Hoyt	PARTNERS IN SOLUTIONS Therapy: In Vivo Dosimetry / Transmission Detection Systems Moderator: N Brown PinS Room Hall C
E 11:15-12:15	SAM: Joint Imaging-Therapy Scientific Symposium Certificate of Completion Course Recent Advancement of Imaging Guidance in Clinical Trial Moderators: M McNitt-Gray, J Wang, J Cai W Lin, G Ibbott, F Kong, S Leng, E Jackson, L Court	Professional Symposium Intellectual Property Law for the Medical Physicist Moderator: B Dirksen S Penner	SAM: Joint Imaging-Therapy Educational Course Medical Physics 3.0 in Practice Moderator: E Samei N Hangiandreou, E Ford, X Li, T Atwood, D Pavord	SAM: Therapy Symposium Recent Advances in Brachytherapy Moderator: A Damato A Damato, M Rivard, W Song, B Fahimian	Joint Imaging-Therapy Scientific Session Imaging Guidance and QA R Berbeco, D Ruan	SAM: Therapy Symposium In Memoriam of John "Jack" F. Fowler: The Mathematics of Dose-fractionation Effects Moderator: B Thomadsen Memorial Lecturer: C Orton M Ritter, S Benitzen	Imaging Symposium Low Dose CT: Where Do We Stand Now? Moderator: S Leng G Chen, J Stayman, C McCollough, P Pickhardt	SAM: Therapy Educational Course Strategies for Quality Improvement Based on RO-ILS Informatics Moderators: G Ezzell, K Kapetanovic N Agazaryan, G Ezzell, A Dicker, S Weintraub, L Santanam	SAM: Practical Medical Physics Management of Radiotherapy Patients with Cardiac Implantable Electronic Devices Moderator: M Milten D Mihalidis, S Kry, M Milten	Imaging Scientific Session Nuc Med O Mawlawi, S Bowen	Ultrasound Symposium Advances in Ultrasound Imaging Technology Moderator: M Holland B Byram, K Thomenius, M Inzana
12:15-1:45 Lunch Break + Visit the Technical Exhibits (NOTE: Posters close at 12:15 pm and Exhibits close at 2:00 pm)											
F 1:45-3:45	SAM: Joint Imaging-Therapy Scientific Session Certificate of Completion Course Current and Future Aspects of Clinical Trials: Quality Assurance and Quantitative Imaging K Sheng, J Deng	Professional Symposium Economic Issues in Medical Physics Moderator: B Dirksen B Dirksen, W Smith Fuss, B Kavanagh	SAM: Joint Imaging-Therapy Educational Course Medical Physics 3.0 in Practice Moderator: E Samei N Hangiandreou, E Ford, X Li, T Atwood, D Pavord	SAM: Therapy Symposium Recent Advances in Brachytherapy Moderator: A Damato A Damato, M Rivard, W Song, B Fahimian	Joint Imaging-Therapy Scientific Session Imaging Guidance and QA R Berbeco, D Ruan	SAM: Therapy Symposium In Memoriam of John "Jack" F. Fowler: The Mathematics of Dose-fractionation Effects Moderator: B Thomadsen Memorial Lecturer: C Orton M Ritter, S Benitzen	Imaging Symposium Low Dose CT: Where Do We Stand Now? Moderator: S Leng G Chen, J Stayman, C McCollough, P Pickhardt	SAM: Therapy Educational Course Strategies for Quality Improvement Based on RO-ILS Informatics Moderators: G Ezzell, K Kapetanovic N Agazaryan, G Ezzell, A Dicker, S Weintraub, L Santanam	SAM: Practical Medical Physics Management of Radiotherapy Patients with Cardiac Implantable Electronic Devices Moderator: M Milten D Mihalidis, S Kry, M Milten	Imaging Scientific Session Nuc Med O Mawlawi, S Bowen	Ultrasound Symposium Advances in Ultrasound Imaging Technology Moderator: M Holland B Byram, K Thomenius, M Inzana
3:45-4:30 Refreshment Break (B Lobby, Street Level)											
G 4:30-6:00	SAM: Joint Imaging-Therapy Scientific Symposium Certificate of Completion Course The Roles and Task of Medical Physicists in Clinical Trial Moderators: M McNitt-Gray, J Wang, J Cai R Jeraj, Y Xiao, P Kinahan, F Yin, M McNitt-Gray	History Symposium Radionuclide Therapy: Dr. Saul Hertz to Present Moderator: M Gossman F Fahey, B Greenspan, G Sgouros	SAM: Therapy Educational Course In Memoriam of Michael Goitein: Milestones in Treatment Planning, Biophysical Modeling, and Delivery of Proton Therapy Moderator: T Borfield Memorial Lecturer: G Goitein C Ling, R Mohan, A Niemierko	Therapy Scientific Session Outcome Modeling J Niedzielski, A Sawant	Joint Imaging-Therapy Scientific Session Applications of Imaging in Proton Therapy C Bloch, T Niu	SAM: Joint Imaging-Therapy Symposium ROC: A New Method in Radiotherapy QA Moderator: M Carlone E Krupinski, E Boehnke, L Archambault	Imaging Scientific Session Mam/Tomo/MBI S Vedantham, A Maidment	SAM: Imaging Educational Course Quantitative Multi-Energy Computed Tomography: Imaging and Therapy Advancements Moderator: R Layman T Schmidt, X Duan, R Layman	SAM: Practical Medical Physics Management of Radiotherapy Patients with Cardiac Implantable Electronic Devices Moderator: M Milten D Mihalidis, S Kry, M Milten	Imaging Scientific Session Image Processing/Analysis H Chan, W Lu	Ultrasound Symposium Ultrasound in Monitoring Treatment Response Moderator: T Liu X Li, T Liu, D Hristov
6:15-7:30 AAPM Annual Business Meeting / Town Hall Meeting AAPM Board of Director Members Four Seasons 2											

PROGRAM AT A GLANCE | THURSDAY, AUGUST 3

Certificate Course	Professional	Therapy Education	Therapy Scientific	Joint Imaging-Therapy Scientific	Joint Imaging-Therapy Education	Imaging Scientific	Imaging Education	Practical Medical Physics	Ultrasound	Technical Exhibit Hall	
	Room 205	Room 108	Four Seasons 2	Four Seasons 1	Room 605	Four Seasons 4	Room 601	Room 702	Room 201	Room 708	Exhibit Hall C
A 7:30-8:25	Joint Imaging-Therapy Scientific Session Tracking and Motion Management Y Yu, W Mao	Professional Symposium Diagnostic Workforce Study Report Moderator: D Gress, D Jordan, D Gress	SAM (7:30-8:30): Therapy Educational Course Best Practices for Physics Plan and Chart Review: Report of AAPM Task Group 275 Moderator: E Ford, E Ford, D Schofield, G Kim, L Fong de los Santos	Therapy SNAP Oral Safety and QA J Pollard, S Matic	Therapy Scientific Session Particle Therapy B Winey, Y Yan	Joint Imaging-Therapy Scientific Session Functional Imaging and Therapeutic Evaluation S Das, X Li	Imaging Scientific Session CBCT G Chen, J Boone	SAM: Imaging Educational Course How to Select and Evaluate a PET Auto-segmentation Tool - Insights from AAPM TG211 Moderator: A Kirov, C Schmittlein, I El Naqa, A Kirov, E Spezi	Joint Imaging-Therapy Scientific Session Radiomics and Quantitative Imaging N Yue, H Shim	Imaging Scientific Session New Tech/Precinlic S Cho, B Whiting	
B 8:30-9:30		SAM: Professional Symposium Adult Learning (Andragogy) Techniques for Medical Physics Moderator: L Padilla, M Kissick, L Salkowski, L Padilla, M Porras-Chaverri	SAM: Therapy Educational Course Contour Quality Assurance and Decision Support: Implications, Issues, and the State-of-the-Art Moderator: M Altman, J Kavanaugh, T Purdie, K Brock								
9:30-10:00 Coffee Break (B Lobby, Street Level)											
C 10:00-10:55	Therapy Scientific Session Treatment Planning I J Adamson, A Melancon	Professional Symposium Session in Memory of Alex Turner. Medical Physics Journal Workshop: An Update On the Journal's Improvement Activities and Guidance On Writing and Reviewing Papers Moderator: J Williamson, Memorial Lecturer: R Tarver, J Williamson, S Das, M Goodsitt	SAM: Joint Imaging-Therapy Symposium Auto-segmentation for Thoracic Radiation Treatment Planning: A Grand Challenge Moderator: J Yang, S Armato, G Sharp, J Yang, H Veeraraghavan	SAM: Therapy Symposium Joint Symposium of AAPM and ASTRO: Normal Tissue Dose-Volume Effects of Head/Neck and Liver/GI SBRT Moderator: J Grimm, M Miften, B Kavanagh, P Mavroidis, V Moiseenko	SAM: Joint Imaging-Therapy Symposium Nanoparticles for Imaging and Therapy Moderator: R Berbeco, S Krishnan, T Lammers, R Berbeco	SAM: Therapy Educational Course Changing Paradigms for Linac QA Using EPIDS Moderator: S Matic, T Ritter, B McCurdy, B Cai, T Pawlicki	Imaging Scientific Session CT D Cody, C McCollough	SAM: Imaging Educational Course Computed Tomography Imaging: From the Order to Dose Monitoring and Review Moderator: M Supanich, M Supanich, S McKenney, J Wilson	SAM: Therapy Educational Course SRS/SBRT: Clinical Implementation and Small Volume Dose Limits in Brain/Spine Moderator: A Sethi, C Tseng, L Ma, A Sethi	Therapy Scientific Session New Treatment Techniques S Stathakis, L Court	
D 11:00-12:00		Professional Symposium Panel Discussion: Mentor and Menlee Roles Moderator: Y Rong, Y Rong, T Fisher, R Stern, J Boone									
12:00-12:50 Boxed Lunch (B Lobby, Street Level)											
	Room 205	Four Seasons 2		Four Seasons 1	Room 605	Four Seasons 4	Room 601	Room 702		Exhibit Hall C	
E 1:00-2:00	SAM: Therapy Educational Course Clinical IGRT: In-Room Imaging Technologies and Image Processing for Patient Alignment Moderator: J Chang, Y Rong, J Chang, J Sillanpaa	Professional Symposium Question Writer Workshop Moderator: G Frey, J Allison, Instructors: G Frey, G Ibbott, J Seibert, M Podgorsak		Therapy Scientific Session Treatment Planning II J Yang, A Modiri	Joint Imaging-Therapy Scientific Session 4D Imaging J Wang, A Sawant	SAM: Joint Imaging-Therapy Symposium Advancements in MRI and MR-Guided Interventions Moderator: J Cai, N Chen, J Cai, E Jackson	Imaging Scientific Session CT Dose S Leng, T Szczykutowicz	SAM: Imaging Educational Course Update on Task Group 270: Display Quality Assurance Moderator: M Silosky, A Walz-Flannigan, N Bevins, M Silosky			
F 2:00-3:00	SAM: Therapy Educational Course Clinical IGRT: Treatment Site Uncertainties, IGRT Protocol Design and Informed Margins Moderator: K Wijesooriya, K Wijesooriya, D Vile										
CLOSE OF MEETING See you next year in Nashville, TN July 29-August 2, 2018											