






PROGRAM AT A GLANCE | SUNDAY, JULY 31

PROFESSIONAL	THERAPY EDUCATION	THERAPY SCIENTIFIC	JOINT IMAGING – THERAPY SCIENTIFIC	IMAGING SCIENTIFIC	IMAGING EDUCATION	PRACTICAL MEDICAL PHYSICS	RADIOMICS	TECHNICAL EXHIBIT HALL			
A 9:30–11:00	Education Council Symposium Revitalizing Your Medical Physics Classroom: Some Examples and Thoughts From the Trenches Moderator: V Montmayor V Montemayor, R Howell, S Naqvi, J Burmeister Ballroom A					AAPM Medical Physics Student Meeting The Many Paths of Medical Physics Moderators: A Roth, N Viscariello A Roth, D Shepard, N Childress, K Ruchala, R Ochs, R Howell Ballroom C					
B 11:00–12:30	PROFESSIONAL COUNCIL SYMPOSIUM The Medical Physicist Value Proposition for Tomorrow and Today. (If a Medical Physicist Fell In the Woods, Would Anyone Hear It?) Moderator: D Pavord G Sherouse, G White, S Burri, D McNary, D Pavord, J Clements, P Halvorsen, J Hazle, V Wilcut Ballroom A										
12:30 Exhibit Hall Opens Refreshment Break in Exhibit Hall											
C 1:00-1:55	Room 204 SNAP Oral Preclinical Science J Wong, S Krishnan	SNAP Oral Next Generation Dosimetry L Beaulieu, A Molineu	SNAP Oral Dose Calculation J Robar, G Yan	SNAP Oral Contouring and Auto-Planning S Zhou, L Schubert	SNAP Oral Image Registration and Segmentation D Mackin, X Gu	SNAP Oral Imaging for Radiotherapy I J Roeske, P Galavis	SNAP Oral Proton Therapy T Borfeld, C Cheng	SNAP Oral CT A Dhabaan, L Zhu	SNAP Oral Mammography/Fluoroscopy R Marsh, S Rudin	SNAP Oral Image Processing/Segmentation/Registration/CAD J Wang, W Lu	HAZMAT Training for the Medical Physicist - Part I Moderator: R Tarver R Parker
D 2:05–3:00	SNAP Oral Modeling and Outcomes F Yin, P Mavroidis	SNAP Oral Performance Assessment K Hendrickson, J Johnson	SNAP Oral Particle Therapy Dosimetry and QA S James, M Bues	SNAP Oral Knowledge-Based Planning B Wu, J Siebers	SNAP Oral Monitoring Patient Motion C Shang, G Ding	SNAP Oral Imaging in Radiotherapy II J Unkelbach, R Kudchadker	SNAP Oral MRI in Radiotherapy B Fallone, D Yan	SNAP Oral Cone-beam CT S Leng, X Jia	SNAP Oral Mammography/Fluoroscopy - Radiation Dose A Badal, H Chan	SNAP Oral Radiomics H Aerts, R Li	Partners in Solution Room in Exhibit Hall E
Exhibit Hall (Refreshment Breaks, Posters and Technical Exhibits) 3:00 – 3:30 Refreshment Break in Exhibit Hall											
E 3:00–4:00	BEST IN PHYSICS (3:00-4:00 pm) ePoster Theaters and Discussion in the Exhibit Hall Presenting Authors available 3:30 - 4:00										
F 3:00–6:00	GENERAL POSTER DISCUSSION Education, Professional, Imaging, Joint Imaging-Therapy, Therapy, Radiomics, and Society of Physics Students (SPS) Undergraduate Research Presenting Authors available 3:00 - 6:00										
G 4:00–6:00	GENERAL ePOSTER DISCUSSION THERAPY TOPICS: 4:00-4:30 Dose Calculation and Treatment Planning 4:30-5:00 Physical Measurements 5:00-5:30 Preclinical Science 5:30-6:00 Radiation Therapy Quality Control ePoster Theater in Exhibit Hall E Presenting Authors available	SNAP Oral Brachytherapy and Radionuclide Therapy W Song, S Richardson	SNAP Oral External Beam Treatment Planning L Santanam, B Fahimian	SNAP Oral Dosimetry and QA Tools B Han, M Carbone	SNAP Oral Tumor Tracking B Bednarz, M Hunt	GENERAL ePOSTER DISCUSSION JOINT IMAGING-THERAPY TOPICS: 4:00-4:30 Target Tracking 4:30-5:00 MR-guided Radiotherapy 5:00-5:30 IGRT 5:30-6:00 Monitoring Inter- and Intra-Fraction Motion ePoster Theater in Exhibit Hall E Presenting Authors available	SNAP Oral CT - QA/QC, Calibration and Imaging Protocols B Li, J Rong	GENERAL ePOSTER DISCUSSION IMAGING TOPICS: 4:00-4:30 MRI 4:30-5:00 CT 5:00-5:30 X-Ray Imaging 5:30-6:00 Multimodal Imaging ePoster Theater in Exhibit Hall E Presenting Authors available	HAZMAT Training for the Medical Physicist - Part II Moderator: R Tarver R Parker Partners in Solution Room in Exhibit Hall E		

PROGRAM AT A GLANCE | MONDAY, AUGUST 1

PROFESSIONAL		THERAPY EDUCATION	THERAPY SCIENTIFIC	JOINT IMAGING – THERAPY SCIENTIFIC	IMAGING SCIENTIFIC	IMAGING EDUCATION	PRACTICAL MEDICAL PHYSICS	RADIOMICS	TECHNICAL EXHIBIT HALL		
Room 204		Room 201	Ballroom C	Ballroom B	Ballroom A	Room 202	Room 207A	Room 206	Room 209	Room 207B	Exhibit Hall E
A 7:30–8:25	Interoperability in Radiation Oncology: IHE-RO Committee Update Moderator: S Hadley, S Hadley, J Seibert, C Pauer, W Bosch	A Cliff's Notes Version of Proton Therapy Moderator: J Kruse, J Kruse	TG167: Clinical Recommendations for Innovative Brachytherapy Devices and Applicators Moderator: R Nath, R Nath, M Rivard	TG191: Clinical Use of Luminescent Dosimeters Moderator: S Kry, S Kry	 John R. Cameron Young Investigator Symposium Moderators: M Martel, M Giger Ballroom A	Room 202	Room 207A	Nuclear Medicine Physics and Testing Moderator: S White, T Turkington, J Halama	Financial Perspectives on Scientific Publishing Moderator: S Armato, S Armato, D Bourland, M Svatos	Segmentation & Feature Extraction Techniques H Veeraraghavan	Exhibit Hall E
		Motion Management in Current Stereotactic Body Radiation Therapy (SBRT) Practice Moderator: C Shang, C Shang, S Flampouri, O Green	Prostate HDR Treatment Planning – Considering Different Imaging Modalities Moderator: J Prisciandaro, J Prisciandaro, Z Chang, J Zoberi, F Mourtada	Three Dimensional Dosimetry Moderator: J Schreiner, J Schreiner, G Ibbott, S Ceberg, T Juang					Certificate Extension Process for DBT and the Medical Physicist's Role Moderator: I Reiser, K Chakrabarti	Harmonization & Robustness in Radiomics L Court	
B 8:30–9:30	Interoperability in Radiation Oncology: IHE-RO Committee Update Moderator: S Hadley, S Hadley, J Seibert, C Pauer, W Bosch	A Cliff's Notes Version of Proton Therapy Moderator: J Kruse, J Kruse	TG167: Clinical Recommendations for Innovative Brachytherapy Devices and Applicators Moderator: R Nath, R Nath, M Rivard	TG191: Clinical Use of Luminescent Dosimeters Moderator: S Kry, S Kry	 John R. Cameron Young Investigator Symposium Moderators: M Martel, M Giger Ballroom A	Room 202	Room 207A	Nuclear Medicine Physics and Testing Moderator: S White, T Turkington, J Halama	Financial Perspectives on Scientific Publishing Moderator: S Armato, S Armato, D Bourland, M Svatos	Segmentation & Feature Extraction Techniques H Veeraraghavan	Exhibit Hall E
Visit the Vendors 9:30 – 10:15 Coffee Break Exhibit Hall											
C 10:15–12:15		President's Symposium Inspiring Leadership Moderator: B Curran B Curran, R Arenson, D Beyer, B Greenspan, K Kennedy Ballroom B									
		Visit the Vendors 12:15 – 1:45 Lunch Break Exhibit Hall									
D 1:45–2:40	International Symposium: Patient Dose Reduction in Diagnostic Radiology Moderator: E Lief, Y Pipman, M Rehani, V Tsapaki, D Schick, J Kofler	 SAM: Professional Symposium Medical Physics Leadership Academy Moderator: J Clement, J Clements, J Johnson, R Ritenour Panel: J Clements, J Johnson, R Ritenour, R Miller	SAM: (1:45 - 2:45) In Memoriam of Jan van de Geijn: Knowledge-based Planning Moderator: P Xia, B Fraass, P Xia, J Wu, J Donaghue	SAM: (1:45 - 2:45) SBRT Workflow Overview Moderator: L Xing, F Yin, Y Yong, J Roper	Innovation in Medical Physics Education Moderator: V Montemayor	Room 202	Room 207A	Joint WMIS-AAPM Symposium: Metabolic Imaging of Cancer Moderators: J Hazle, Z Bhujwala, G Pratz, S Cherry, J Bankson	SAM: DBT Physics Basic to Advanced Moderator: A Maidment, A Maidment, J Mainprize, W Zhao, I Sechopoulos	Radiomics & Data Mining Methods and Robustness E Moros, L Court	PARTNERS IN SOLUTIONS (1:45-2:45) Therapy: MR Simulation Moderator: R Stern
			SAM: Online Adaptive Radiotherapy - Considerations for Practical Clinical Implementation Moderator: S Mufic, R Kashani, J Lamb, A Li	INTERACTIVE / SAM: PANEL DISCUSSION: SBRT/SRS Case Studies - Lung Moderator: S Benedict Panel: S Benedict, J Larner, B Salter							CT - Image Reconstruction F Noo, X Tang
E 2:45–3:45	International Symposium: Patient Dose Reduction in Diagnostic Radiology Moderator: E Lief, Y Pipman, M Rehani, V Tsapaki, D Schick, J Kofler	 SAM: Professional Symposium Medical Physics Leadership Academy Moderator: J Clement, J Clements, J Johnson, R Ritenour Panel: J Clements, J Johnson, R Ritenour, R Miller	SAM: (1:45 - 2:45) In Memoriam of Jan van de Geijn: Knowledge-based Planning Moderator: P Xia, B Fraass, P Xia, J Wu, J Donaghue	SAM: (1:45 - 2:45) SBRT Workflow Overview Moderator: L Xing, F Yin, Y Yong, J Roper	Innovation in Medical Physics Education Moderator: V Montemayor	Room 202	Room 207A	Joint WMIS-AAPM Symposium: Metabolic Imaging of Cancer Moderators: J Hazle, Z Bhujwala, G Pratz, S Cherry, J Bankson	SAM: DBT Physics Basic to Advanced Moderator: A Maidment, A Maidment, J Mainprize, W Zhao, I Sechopoulos	Radiomics & Data Mining Methods and Robustness E Moros, L Court	PARTNERS IN SOLUTIONS (1:45-2:45) Therapy: MR Simulation Moderator: R Stern
Visit the Vendors 3:45 – 4:30 Refreshment Break Exhibit Hall											
F 4:30–5:15	Preparing for the ABR Diagnostic and Nuclear Medical Physics Exams Moderator: N Bevins, S McKenney, T Szczykutowicz, J Zambelli, R MacDougall	PANEL DISCUSSION: Preparing for Parts 2 and 3 of the ABR Therapy Medical Physics Exam Moderators: L Padilla, J Evans Panel: J Evans, L Padilla, M Studenski, T McNutt	SAM: Joint AAPM-ESTRO Symposium: Advances in Experimental Medical Physics Moderator: R Berbeco, L Sancey, J Robar, D Westerly, K Parodi	INTERACTIVE SESSION AAPM Presidential Debate! Moderators: K Brock, R Stern Debaters: J Bayouth, J Hazle, M Herman, J Seibert	Motion Management A Sawant, C Williams	Room 202	Room 207A	SAM: Practical Statistics for Medical Physicists Moderator: W Sensakovic, M Altman, W Sensakovic, Z Labby, E Hipp	SAM: Recent Advances in Virtual Tools for Validation of 3D/4D Breast Imaging Systems (TG234) Moderators: P Bakic, K Myers, K Myers, C Graff, P Bakic, M Das, A Avnani	State-of-the-Art in Radiomics in Radiology and Radiation Oncology Moderators: M Giger, J Deasy, H Aerts, H Li, P Tiwari, W Lu	ePoster Campus IMAGING 4:30-5:00 Mammography/Radiography/Fluoroscopy 5:00-5:30 CT 5:30-6:00 MRI Provost: A Karellas
											The American Board of Radiology Maintenance of Certification Process Moderator: G Frey, M Herman, G Ibbott
G 5:15–6:00	The American Board of Radiology Maintenance of Certification Process Moderator: G Frey, M Herman, G Ibbott	Knowledge-Based Planning K Sheng, Q Wu	SAM: Joint AAPM-ESTRO Symposium: Advances in Experimental Medical Physics Moderator: R Berbeco, L Sancey, J Robar, D Westerly, K Parodi	INTERACTIVE SESSION AAPM Presidential Debate! Moderators: K Brock, R Stern Debaters: J Bayouth, J Hazle, M Herman, J Seibert	Motion Management A Sawant, C Williams	Room 202	Room 207A	SAM: Practical Statistics for Medical Physicists Moderator: W Sensakovic, M Altman, W Sensakovic, Z Labby, E Hipp	SAM: Recent Advances in Virtual Tools for Validation of 3D/4D Breast Imaging Systems (TG234) Moderators: P Bakic, K Myers, K Myers, C Graff, P Bakic, M Das, A Avnani	State-of-the-Art in Radiomics in Radiology and Radiation Oncology Moderators: M Giger, J Deasy, H Aerts, H Li, P Tiwari, W Lu	JOINT IMAGING-THERAPY 4:30-5:00 Range Estimation/Verification in Proton Therapy 5:00-5:30 MR-guided Radiotherapy 5:30-6:00 Patient Positioning Provost: B Winey
											The American Board of Radiology Maintenance of Certification Process Moderator: G Frey, M Herman, G Ibbott
AAPM Awards Ceremony • 6:30 – 8:00 • Convention Center Ballroom A AAPM Awards Reception • 8:00 – 9:00 • Convention Center Level 3 Foyer											



PROGRAM AT A GLANCE | TUESDAY, AUGUST 2

PROFESSIONAL	THERAPY EDUCATION	THERAPY SCIENTIFIC	JOINT IMAGING – THERAPY SCIENTIFIC	IMAGING SCIENTIFIC	IMAGING EDUCATION	PRACTICAL MEDICAL PHYSICS	RADIOMICS	TECHNICAL EXHIBIT HALL			
	Room 204	Room 201	Ballroom C	Ballroom B	Ballroom A	Room 202	Room 207A	Room 206	Room 209	Room 207B	Exhibit Hall E
A 7:30–8:25	CDRH/FDA Regulatory Processes and Device Science Activities Moderator: A Nosratfieh, J Delfino, S Gonzales, A Badano, R Ochs	SAM: (7:30 - 8:30) Image Guidance Technologies and Management Strategies Moderator: J Evans, K Wijesooriya, J Chang	Innovations in Dose Calculation H Bouchard, C Ma	SAM: (7:30 - 8:30) PANEL DISCUSSION: SBRT/SRS Case Studies - Brain and Spine Moderator: D Schlesinger Panel: D Schlesinger, L Ma, B Winey	MR-Guided Radiotherapy J Balter, C Glide-Hurst	Image Registration and Segmentation S Bowen, J Cai	SAM: CT Systems Course Moderator: B Li, B Li, J Hsieh, F Dong	SAM: (7:30 - 8:30) Professional Liability Insurance – What You Need to Know Moderator: D Jordan, G Fuller, A Orfali	Model Observer Design and its Validation for Task-based Evaluation of Digital Breast Tomosynthesis Moderator: S Park, J Lo, S Park, H Gifford, H Bosmans	Imaging Genomics Associations and Biological Correlates of Radiomics Y Zhu	SAM: Challenges in Radiomics and Big Data K Drukker
B 8:30–9:30		SAM: TG180: Imaging Dose During RT Moderator: G Ding, G Ding, P Alaei, R Flynn		SAM: PANEL DISCUSSION: SBRT/SRS Case Studies - Liver Moderators: A Brade, J Evans Panel: A Brade, T Craig, S Hadley				SAM: Ethics Symposium: Do the Right Thing Moderator: J Limmer, J Limmer, G Sherouse			
Visit the Vendors 9:30 – 10:15 Coffee Break Exhibit Hall											
C 9:30–11:00	VISIT THE VENDORS • Technical Exhibits Area					NEW	EXPANDING HORIZONS • ePoster Theater in the Exhibit Hall Presenting Authors will be available				
D 11:00–12:15	The Gadget: Making of the Atomic Bomb Moderator: K Strubler, K Strubler, R Miller	Proffered Session R Tarver	SAM: The EPID Strikes Back Moderator: A Sawant, J Rottman, P Greer, L Antonuk	SAM: Dual Energy CT in Radiation Therapy Moderator: Z Labby, N Pelc, J Schoepf, C Coolens	SAM: Treatment Planning System Commissioning and QA Moderator: M Sharpe, M Sharpe, S Mutic, J Smilowitz	SAM: Rest In Peace- ITV Moderator: M Van Herk, M Van Herk, P Keall, D Low	Quantitative Assessment of CT Systems with Iterative Image Reconstruction Algorithms Moderator: G Chen, K Li, S Leng, E Samei, K Li	Body Tomosynthesis Moderator: M Flynn, M Bath, M Flynn, J Sabol, K Jones	Mammography/ Radiography/ Fluoroscopy - Radiation Dose M Goodsitt, D Bednarek	Prognostic and Response to Therapy Predictive Models K Drukker, J Yang	PARTNERS IN SOLUTIONS Imaging: Digital Breast Tomosynthesis I Moderator: T Wilson, PinS Room, Exhibit Hall E
Visit the Vendors 12:15 – 1:45 Lunch Break Exhibit Hall											
E 1:45–3:15	NEW SAM • Exhibit Hall Guided Tours Tour Leaders: X Jing, I Das Imaging - Dosimeters for QC • Therapy - Microdosimeters Location: Hall E Concourse										
F 1:45–2:45	SAM: Compliance with the AAPM CT Clinical Practice and Joint Commission Guidelines Moderator: T Szczykutowicz, T Szczykutowicz, M Mahesh, K Kanal, D Cody, A Browne	Performance Assessment Safely and QA S Mutic, G Kim	SAM: Radiation and Immunotherapy: How to Ignite Long Term Anti-Cancer Response Moderator: M Oldham, E Repasky, S Formentii, N Coleman, M Oldham	SCIENCE COUNCIL SESSION: Imaging for Particle Therapy J Moran, G Sharp	SAM: Optimizing the Treatment Planning Process Moderator: W Feng, W Feng, J Chang, A Kapur	SAM: Advances and Innovations in Image Guided Brachytherapy Moderator: R Cormack, O Craciunescu, A Damato, A Cunha	Grand Challenges in Medical Imaging and Radiomics Moderators: C McCullough, S Armato, M Giger, S Armato, N Pelc	SAM: Imaging Informatics Moderator: P Nagy, M Flynn, W Sensakovic, P Nagy	X-Ray Imaging - Radiography/ Fluoroscopy C Willis, C Ionita	Federal Funding Opportunities and Grantsmanship Moderator: K Farahani, B Whelan, S Krosnick, D Narayanan, K Farahani, W Olbricht	PARTNERS IN SOLUTIONS Imaging: Digital Breast Tomosynthesis II Moderator: C Sammet, PinS Room, Exhibit Hall E
G 2:45–3:45											PARTNERS IN SOLUTIONS Imaging: Digital Breast Tomosynthesis III Moderator: S Sammet, PinS Room, Exhibit Hall E
Visit the Vendors 3:45 – 4:30 Refreshment Break Exhibit Hall											
H 4:30–6:00	SAM: Work of ICRP, NCRP and Others and How They Impact on Medical Physicists Moderators: M Rehani, L Dauer, M Rehani, L Dauer, D Miller	New Member Symposium Moderators: J Keener, A Johnson, J Palta, R Miller, D Pavord, B curran, J Dobbis, B Fraass, J Keener	Novel Devices and Applications R Howell, P Maxim	SAM: Radiation Countermeasures Research and Development Moderator: D Bourland, D Bourland, L Taliadro, T Hu, P Prasanna, J Huff	MR-LINAC Design T Waldron, J Dempsey	SAM: CT Ventilation Imaging: The New Clinical Reality of Functional Avoidance and Response Assessment in Lung Cancer Radiation Therapy Moderator: P Keall, T Yamamoto, J Vinogradskiy, J Bayouth, J Kipritidis	CT - Calibration, QA/QC, Protocol Management S Molloy, D Zhang	Nuclear Medicine, PET, MRI, US - QA/QC S Kappadath, T Pan	SAM: Planning and Delivering HDR APBI Treatments Moderator: S Pella, A Kyriacou, M Chilukuri, S Pella	Session in Memory of Laurence Clarke: Moving Radiomics Forward: Funding, Regulatory Issues, and Clinical Translation Moderator: K Myers, J Boone, P Jacobs, K Myers, L Schwartz	ePoster Campus IMAGING 4-5:00 Monte Carlo Simulations 5-5:30 Virtual Tools, Simulations and Phantoms 5-6:00 Image Processing/ Segmentation/ Registration/CAD Provost: I Sechopoulos JOINT IMAGING-THERAPY 4-5:00 Image Registration Performance 5-5:30 Contouring in Radiotherapy 5-6:00 Adaptive Radiation Therapy Provost: R Ten Haken THERAPY 4-5:00 New Approaches to Radiotherapy 5-5:30 Preclinical Science 5:30-6:00 Nanoparticles in Radiation Therapy Provost: W Ngwa
AAPM Night Out 6:30 – 10:00 @ Newseum 555 Pennsylvania Avenue, NW											

PROGRAM AT A GLANCE | WEDNESDAY, AUGUST 3

PROFESSIONAL		THERAPY EDUCATION	THERAPY SCIENTIFIC	JOINT IMAGING – THERAPY SCIENTIFIC	IMAGING SCIENTIFIC	IMAGING EDUCATION	PRACTICAL MEDICAL PHYSICS	RADIOMICS	TECHNICAL EXHIBIT HALL		
Room 204		Room 201	Ballroom C	Ballroom B	Ballroom A	Room 202	Room 207A	Room 206	Room 209	Room 207B	Exhibit Hall E
A 7:30–8:25	<p>SAM: Diversity and Inclusion in Medical Physics Moderator: S Avery, B Curran, S Avery, W Ngwa, P Hammer, D Chew, T Ngoma, R Laguardia, E Higginbotham</p>	<p>SAM: (7:30 - 8:30) Session in Memory of Donald Herbert: Anne and Donald Herbert Distinguished Lectureship on Modern Statistical Modeling Moderator: J Deasy, C Marshall, A Niemierko</p>	<p>SAM: (7:30 - 8:30) Certificate of Completion Course The Quality Gap Moderator: J Palta, J Palta, S Evans, D Followill</p>	<p>SAM: Session in Memory of Robert J. Shalek: High Resolution Dosimetry from 2D to 3D to Real-time 3D Moderator: H Li, H Li, M Oldham, S Beddar, B Pogue</p>	<p>Image-Guided Interventions Y Vinogradskiy, J Lian</p>	<p>Functional Imaging for Radiotherapy J Bayouth, T Yamamoto</p>	<p>Cone-beam CT W Zbijewski, K Yang</p>	<p>Diagnostic Ultrasound QA/QC Hands-on Workshop Moderator: Z Lu, J Zagzebski, J Walter</p>	<p>Optimization and Inverse Planning L Xing, P Manser</p>	<p>Modeling and Outcomes I Chetty, D Carlson</p>	
		<p>SAM: Statistical Failings That Keep Us All In the Dark Moderator: D Schlesinger, D Schlesinger, J Sloan</p>	<p>SAM: Certificate of Completion Course Concepts in Risk-based Assessment Moderator: B Fraass, F Rath, D Fraass, E Samei</p>								
<p>Visit the Vendors 9:30 – 10:15 Coffee Break Exhibit Hall</p>											
C 10:15–11:45	<p>NEW SAM • Exhibit Hall Guided Tours Tour Leaders: X Jing, I Das Imaging - Dosimeters for QC • Therapy - Microdosimeters Location: Hall E Concourse</p>										
D 10:15–11:15	<p>Session in Memory of Franca Kuchnir: Excellence in Medical Physics Residency Education Moderator: K Hendrickson, D Fontenla, W Parker, S Dieterich</p>	<p>Brachytherapy Radionuclide Therapy R Cormack, O Craciunescu</p>	<p>SAM: Certificate of Completion Course Learning the New Approaches of TG-100 and Beyond Moderator: S Huq, S Huq, J Palta, P Dunscombe, B Thomadsen, E Yorke</p>	<p>SAM: Basics of Proton Therapy Moderators: B Arjomandy, C Hua, B Arjomandy, M Pankuch, C Hua, K Teo</p>	<p>In-Room IGRT Devices and Systems L Ren, M Pankuch</p>	<p>SAM: Connecting Radiation Physics with Computational Biology Moderator: J Schuemann, J Schuemann, R Stewart, S McMahon</p>	<p>Advances in Image-guided Neurointerventions - Clinical Pull and Technology Push Moderator: G Chen, C Strother, G Chen, M Gounis, S Rudin</p>	<p>SAM: MRI Physics Moderator: Y Shu, K Gorny, A Kocharian, C Lin, R Pooley</p>	<p>SAM: Practical Implementation of Deep Inspiration Breath Hold Techniques for Breast Radiation Therapy Moderator: R Howell, R Howell, D Comsa, M Sharpe, S Hadley, X Tang, K Gifford</p>	<p>Breast X-Ray Imaging W Zhao, B Liu</p>	<p>(10:15 - 12:00 PM) Interview Workshop</p>
	<p>Where to Send My Manuscript Moderator: E Klein, E Klein, J Williamson, A Karellas</p>		<p>SAM: Motion Management for Pencil Beam Scanning Proton Therapy Moderator: L Lin, R Zhu, L Lin, H Li</p>	<p>10:15 am - 11:00 am (Academic/Research/Clinical Careers)</p>							
E 11:15–12:15	<p>Visit the Vendors 12:15 – 1:45 Lunch Break Posters close at 12:15 pm Exhibits close at 2:00 pm</p>										
F 1:45–2:40	<p>Fostering a Successful Career in Research Moderator: C Peeler, R Mohan, R Mohan, M Giger, J Dempsey</p>	<p>SAM: High impact Technologies for Low Resource Environments Moderator: L Court, N Ramanujam, L Court, I Feain, J Palta</p>	<p>Certificate of Completion Course Learning from Medical Errors: A Partnership for Progress Moderators: M Herman, J Moran, L Schweitzer</p>	<p>SAM: The Challenges of Predicting RBE Effects in Particle Therapy and Opportunities for Improving Cancer Therapy Moderator: D Carlson, H Paganetti, D Grosshans, D Carlson, K Held</p>	<p>Preclinical Science R Berbeco, M Bazalova-Carter</p>	<p>Imaging Assessment of Treatment Response R Jeraj, M Cao</p>	<p>SAM: Advances in Dedicated Breast CT Moderator: S Vedantham, S Vedantham, A O'Connell, J Boone, W Kalender, A Karellas</p>	<p>MRI - Quantitative Imaging Y Cao, N Tyagi</p>	<p>SAM: (1:45 - 2:45) Practical Medical Physics A Practical Guide to Radiation Safety Surveys Moderator: C Dillon, C Dillon, M Martin</p>	<p>CT - Spectral/Dual-Energy Imaging D Cody, K Taguchi</p>	
	<p>Post-graduate Training of the Next Generation of Academic Medical Physicists Moderator: J Hazle, J Hazle, J Deasy</p>		<p>SAM: Certificate of Completion Course Experiences with TG-100 in Clinical Use Moderator: G Kim, G Kim, J Mayadev, S Parker</p>	<p>SAM: Identifying Image Artifacts, Their Causes, and How to Fix Them Moderator: R Pooley, B Schueler, J Kofler, B Kemp, R Pooley</p>							
<p>3:45 – 4:30 Refreshment Break Level 3 Foyer</p>											
H 4:30–6:00	<p>History Committee Symposium Moderator: M Gossman, D Allard, G Good, M Mueller</p>	<p>Opportunities for Physicists to Support Low and Mid-Income Countries Moderator: J Pollard, J Pollard, W Ngwa, Y Pipman, P Sprawls</p>	<p>Certificate of Completion Course Risk Assessment and Patient Safety: New Results E Ford, K Moore</p>	<p>SAM: Big Data in Radiation Oncology Moderator: S Benedict, S Benedict, L Xing, T McNutt</p>	<p>Biophysical Modeling R Mohan, J Schuemann</p>	<p>SAM: Session in Memory of Jean Pouliot: Next-Generation Deformable Image Registration Moderator: G Hugo, N Kirby, K Brock, G Hugo, G Christensen</p>	<p>Molecular Imaging G Clarke, G Pratz</p>	<p>Advances in Preclinical Imaging Moderator: G Chen, L Wang, B Tsui, S Cho</p>	<p>Carson/Zagzebski Distinguished Lectureship: Image Guided Ultrasound Therapy Moderator: T Wilson, K Hynynen</p>	<p>SAM: MRgRT Moderators: T Stanescu, O Green, T Stanescu, M Cao, C Shang, O Green</p>	
			<p>Certificate of Completion Course</p>	<p>SAM: Session in Memory of Robert J. Shalek: High Resolution Dosimetry from 2D to 3D to Real-time 3D Moderator: H Li, H Li, M Oldham, S Beddar, B Pogue</p>							
<p>AAPM Annual Business Meeting Town Hall Meeting with AAPM Board of Director Members 6:15 – 7:30 Ballroom B</p>											

PROGRAM AT A GLANCE | THURSDAY, AUGUST 4

PROFESSIONAL		THERAPY EDUCATION	THERAPY SCIENTIFIC	JOINT IMAGING – THERAPY SCIENTIFIC	IMAGING SCIENTIFIC	IMAGING EDUCATION	PRACTICAL MEDICAL PHYSICS	RADIOMICS	TECHNICAL EXHIBIT HALL			
		Room 204	Room 201	Ballroom C	Ballroom B	Ballroom A	Room 202	Room 207A	Room 206	Room 209	Room 207B	Exhibit Hall E
A 7:30–8:25	SAM: Key Dosimetry Data – Impact of New ICRU Recommendations Moderator: R Tosh, S Seltzer, M McEwen	Dosimetry and QA Methods L DeWard, J Seuntjens	SAM: (7:30 - 8:30) New Task Groups for External Beam QA: An Overview Moderator: S Dieterich, S Dieterich, S Goetsch, M Miffen	SAM: Research Opportunities with Digital Linear Accelerators Moderator: K Sheng, D Hristov, Q Wu, K Sheng, V Yu, S Nill	MRgRT O Green, B Keller	Technologies for Tumor Tracking U Oelfke, C Hua	CT - Dose M McNitt-Gray, N Bevins	 SAM: Challenges and Opportunities for Nuclear Medicine Theranostics Moderator: O Mawlawi, J Humm, A Delpassand	Emerging Modalities K Stantz, A Kapadia	SAM: Shear-wave Imaging and a QIBA US Biomarker Update Moderator: P Carson, S Chen, B Garra		
	SAM: Implanted Markers for Radiation Therapy and TG199 Update Moderator: Z Wang, Q Cu, S Park, Z Wang		SAM: How to Identify and Resolve Potential Clinical Errors Before They Impact Patients Treatment: Lessons Learned Moderator: I Das, I Das, S Suttief, D Followill									SAM: Pediatric Image Quality Optimization Moderator: C Sammet, C Dodge, J Deng
9:30 – 10:00 Coffee Break Level 3 Foyer												
C 10:00–10:55	Medical Physics Workshop: An Update on the Journal's Improvement Activities and Guidance on Writing and Reviewing Papers Moderator: J Williamson, J Williamson, S Das, M Goodsitt	Next Generation Dosimetry E Parsai, H Li	SAM: Emerging Technologies in SRS/SBRT Delivery Moderators: L Ren, L Wang, L Ma, L Wang, L Ren	SAM: Open Source Hardware in Medical Physics and its Potential to Accelerate Innovation Moderator: F Theriault-Proulx, F Theriault-Proulx, S Prajapati, A Cunha	MRgRT Dosimetry G Ibbott, B Raaymakers	Use of Images in Radiotherapy Treatment Planning M Aristophanous, G Sharp	Monitoring Intra- and Inter-Fraction Motion L Cervino, G Cazoulat	Image Processing / Segmentation / Registration / CAD A Fenster, H Gao	Proton Planning and Delivery S Psoroulas, H Li	CT - Novel Systems & Image Quality J Stayman, L Yu		
	 SAM: The Pursuit of Radiation Oncology Performance Excellence Moderator: E Sternick, E Sternick		SAM: Educational Point Counter/Point: Has Photon RT Hit the Limits? Moderator: B Aydogan, B Aydogan, S Hahn, H Paganetti, C Yu									SAM: An Introduction to Research and Clinical Development Using Treatment Planning System APIs Moderator: R Popple, R Popple, R Cardan, J Eley, J Moore
12:00–12:50 Boxed Lunch Level 3												
E 1:00–1:55	SAM: AAPM-AMPR (Russia)-SEFM (Spain) Joint Course on Challenges and Advantages of Small Field Radiation Treatment Techniques Moderators: J Cygler, C Borras, J Seuntjens, J Puxeu Vaque, T Krylova, E Ford	SAM: (1:00 - 2:00) Teaching Radiology Residents: What, How, and Expectation Moderator: J Zhang, W Sensakovic, J Zhang, A Key	(12:15 - 2:50 PM) TG100 Workshop Moderator: P Dunscombe, P Dunscombe, S Huq, B Thomadsen, E Yorke	Advanced Delivery Techniques R Wiersma, J Rottmann	4D Imaging - CT and MRI S Kim, Z Labby	SAM: (1:00 - 2:00) PET for Radiation Therapy Moderator: W Lu, T Pan, J Humm, W Lu	Preclinical and Small-animal Imaging Systems G Kagadis, Y Seo	SAM: (1:00 - 2:00) Radiation Dose Monitoring and Protocol Management Moderator: M Palmer, B Liu, R MacDougall, D Zhang	Pitfalls: Reliability and Performance of Diagnostic X-Ray Sources Moderator: R Behling, R Behling			
												Writing Good Multiple Choice Questions Moderator: C Bloch, C Block, G Ibbott
F 2:00–2:50												
CLOSE OF MEETING See you next year in Denver, CO July 30 – August 3, 2017												