

PROGRAM AT A GLANCE | SUNDAY, JULY 14

 Imaging Education	 Professional
 Imaging Scientific	 Practical Medical Physics
 Therapy Education	 Specialty Track: Ultrasound
 Therapy Scientific	 President's Sessions of Note Scientific
 Multi-Disciplinary Scientific	

EXHIBIT HALL ACTIVITIES

12:30 pm–5:00 pm **EXHIBIT HALL HOURS**

12:30 pm and 3:00–3:30 pm **BREAKS**
Refreshment Breaks

3:00–3:30 pm  **ePOSTER DISCUSSION**
Society of Physics Students (SPS)
Undergraduate Research
Forum 4
Presenting Authors available














3:00–4:00 pm **BEST IN PHYSICS**
ePoster Theater | Forums 1 – 3
Presenting Authors available 3:30–4:00 pm

3:00–5:00 pm **GENERAL ePOSTER DISCUSSION**
Forums 1 – 9
Imaging | Multi-Disciplinary | Therapy

4:00–5:00 pm **ePOSTER CAMPUS**
ePoster Theater | Forums 1 – 3
Imaging: Modeling and Radiomics
Provost: A Karellas
Multi-Disciplinary: Radiomics
Provost: H Al-Hallaq
Therapy: Experimental Radiation Techniques
Provost: J Wong

All ePosters are available for viewing via:

- ePoster Forum locations during exhibit hall hours:
- Sunday | 12:30 pm – 5:00 pm
- Monday/Tuesday | 9:00 am – 5:00 pm
- Wednesday | 9:00 am – 2:00 pm
- Annual Meeting website
- Annual Meeting app

STARS AT NIGHT BALLROOMS										
A 8:30–10:00	AAPM Medical Physics Student Meeting Patient Communication - A Future Role for Clinical Physicists Moderators: A Diamant, A Alexandrian, T Juang, E Thompson T Atwood, D Brown Stars at Night Ballroom 4 									
10:00–11:30	Non-Clinical Career Expo Stars at Night Ballroom Foyer									
B 9:30–10:30	Education Council Symposium Defining and Measuring Quality in Medical Physics Education Moderator: G Starkschall G Starkschall, E Jackson, K Hendrickson Stars at Night Ballroom 1 									
C 10:30–11:30	Joint Council Symposium Quality in Medical Physics Moderator: D Pavord H Tannir, B Fraass, J Palta Stars at Night Ballroom 1 									
D 11:30–12:30	Professional Council Symposium Finding the Most Valuable Use of Limited Time and Resources Moderator: D Pavord H Li, E Samei, S Meyers Stars at Night Ballroom 1 									
	ROOM 301	ROOM 302	STARS AT NIGHT 4	STARS AT NIGHT 1	STARS AT NIGHT 2-3	ROOM 225 BCD	ROOM 221 AB	ROOM 221CD	ROOM 304	ROOM 303
E 1:00–1:55	Therapy SNAP Oral Brachytherapy I Y Yang, Z Zoberi	Therapy SNAP Oral Proton and Particle Therapy I A Faught, W Liu	Therapy SNAP Oral SRS/SBRT I R Cardan, K Hendrickson	Therapy SNAP Oral Clinical System Characterization and Implementation M Bues, X Gu	Multi-Disciplinary SNAP Oral Radiomics K Drukker, K Nie	Multi-Disciplinary SNAP Oral Novel Imaging Modalities R Berbeco, T Zhang	Multi-Disciplinary SNAP Oral Equipment and QA S Becker, D Thomas	Imaging SNAP Oral MRI: Processing and Analysis M Rosen, N Yanasak	Imaging SNAP Oral Cone Beam CT: Methods and Evaluation V Patel, A Wang	Imaging SNAP Oral Multimodality and Nuclear Medicine O Mawlawi, B Pogue
F 2:05–3:00	Therapy SNAP Oral Brachytherapy II Z Grelewicz, C Ma	Therapy SNAP Oral  Novel Dosimetry and Calibration Methods E Bossart, E Klein	Therapy SNAP Oral SRS/SBRT II R Shawa, J Yang	Therapy SNAP Oral Proton and Particle Therapy II B Teo, J Zou	Multi-Disciplinary SNAP Oral Deep Learning Y Cui, D Nguyen	Multi-Disciplinary SNAP Oral  Imaging for Motion Management T Atwood, T Reynolds	Multi-Disciplinary SNAP Oral X-Ray Based Imaging L Ren, J Roeske	Imaging SNAP Oral MRI: Methods and Evaluation M Bernstein, J Hazle	Imaging SNAP Oral Cone-beam CT: Processing and Analysis T Szczytułowicz, S Vedantham	Ultrasound SNAP Oral Advanced Ultrasound Technologies and Image Qualities D Hristov, I Rosado-Mendez
K 4:00–5:00	Therapy SNAP Oral  Error Detection/ Incident Learning J Johnson, J Lamb	Therapy SNAP Oral External Beam Planning W Culberson, Z Tian	Therapy SNAP Oral Treatment Planning and Optimization H Gao, L Xing	Therapy SNAP Oral Treatment Delivery and Verification B Rigaud, F Yin	Multi-Disciplinary SNAP Oral  MRI in RT J Cai, C Wang	Multi-Disciplinary SNAP Oral  Imaging for Treatment Planning H Li, J Wang	Multi-Disciplinary SNAP Oral Deformable Image Registration and ART I Cheffy, K Mittauer	Imaging SNAP Oral Computed Tomography: Characterization and Methods X Tang, B Whiting	Imaging Scientific Session  Nuclear Medicine P Kinahan, Y Shao	Imaging SNAP Oral  New and Preclinical Imaging B Fei, S Leng
L 5:00–6:00	Therapy SNAP Oral  Automated Patient Safety and QA Methods R Flynn, V Yu	Therapy SNAP Oral Novel Therapy Techniques T Briere, B Fahimian	Therapy SNAP Oral Dosimetry Automation and Verification L Conroy, D Yang	Therapy SNAP Oral Novel Dosimetry Devices M McCulloch, D Schlesinger	Multi-Disciplinary SNAP Oral MR-guided Radiation Therapy M Cao, X Li	Multi-Disciplinary SNAP Oral Autocontouring and Classification G Cazoulat, Y Rong	Multi-Disciplinary SNAP Oral  Functional Imaging and Response Assessment S Bowen, Y Cao	Imaging SNAP Oral Computed Tomography: Processing and Analysis E Angel, B Chen		Imaging SNAP Oral Radiography and Fluoroscopy J Dave, J Zhang

PROGRAM AT A GLANCE | MONDAY, JULY 15

- Imaging Education
- Imaging Scientific
- Therapy Education
- Therapy Scientific
- Multi-Disciplinary Scientific
- Professional
- Practical Medical Physics
- Specialty Track: Ultrasound
- ⚙️ President's Sessions of Note

EXHIBIT HALL ACTIVITIES

9:00 am–5:00 pm **EXHIBIT HALL HOURS**

BREAKS
 9:30–10:15 am **Coffee Break**
 12:15–1:45 pm **Lunch Break + Visit the Technical Exhibits**
 3:45–4:30 pm **Refreshment Break**

9:00–10:00 am **GENERAL ePOSTER DISCUSSION**
 1:15–1:45 pm **Forums 1 – 9**
 3:45–4:15 pm Imaging | Multi-Disciplinary | Therapy

1:30–3:45 pm **PARTNERS in SOLUTIONS**
PinS Room | Hall 2
Therapy: Scripting
 Moderator: N Brown

4:00–5:00 pm **PROFESSIONAL SYMPOSIUM**
PinS Room / Hall 2
ABR Exam Prep for Therapy
 Moderator: D Saenz
 D Saenz, S Prajapati, D Saenz, G Frey

4:30–5:30 pm **ePOSTER CAMPUS**
ePoster Theater | Forums 1 – 3
Imaging: Computed Tomography
 Provost: D Cody
Multi-Disciplinary: Deep Learning
 Provost: S Jiang
Therapy: Outcome Modeling
 Provost: E Yorke

AAPM AWARDS CEREMONY & RECEPTION

6:30–8:00 pm **CEREMONY**
Grand Hyatt Hotel | Lone Star Ballroom

8:00–9:00 pm **RECEPTION**
Grand Hyatt Hotel | Texas Ballroom

	ROOM 301	ROOM 302	STARS AT NIGHT 4	STARS AT NIGHT 1	STARS AT NIGHT 2-3	ROOM 225 BCD	ROOM 221AB	ROOM 221CD	ROOM 304	ROOM 303
A 7:30–8:30	SAM Professional Symposium International Symposium: Certification of Medical Physicists Worldwide Moderators: C Borras, D Brown, C Borras, E Lief, K Ng, D Van der Merwe, P Costa, C Borras, C Orton	Professional Symposium Redesigning the Planner and Physicist Roles in the Era of Automated Planning Moderator: K Moore K Moore, T Atwood, S Mutic	SAM Therapy Educational Course Are you Prepared for Cybersecurity? What Industry is Planning and How You Can Manage It. Moderator: B Curran L Tarbox, D Ackerson, R Kapoor	Therapy Scientific Session Assessment and Optimization of Clinical Systems S Mutic, W Yang	SAM Multi-Disciplinary Scientific Symposium AI for Predicting Response Moderator: J Kalpathy-Cramer J Kalpathy-Cramer, M Giger, E Koay, J Wu	SAM Multi-Disciplinary Scientific Symposium Joint AAPM-SNMMI Symposium: Nuclear Medicine Theranostics and Functional Image-guided Radiation Therapy for Precision Oncology Moderator: S Bowen S Bowen, S Kappadath, J Humm, S Bentzen, D Pafundi	Imaging Scientific Session Cone-beam CT M Supanich, W Zbijewski	SAM Imaging Educational Course ISMRM–AAPM Joint Symposia: MR Safety Foundations Moderator: A Panda D Jordan, T Gilk, M Steckner, J Edmonson, M Steckner	SAM Practical Medical Physics Course Scripting Applications in Clinic, That is an Easy Button Moderator: C Shi C Shi, T Li, B Guo, S Berry	SAM Ultrasound Symposium Advances in Ultrasound Guidance and Planning for Brachytherapy Moderator: A Cunha C Shi, T Li, B Guo, S Berry
B 8:30–9:30		SAM Professional Symposium MPPG Initiative: Implementation Experience and New Reports Moderator: B Parker B Parker, J Seibert, J Clements	SAM Therapy Educational Course Learning From the Experts: Lessons Medical Physicists Can Learn from Management Science Moderator: S Dieterich A Gufierrez, S Dieterich, J Johnson							
D 10:15–12:15	President's Symposium Building Bridges Moderator: C McCollough C McCollough, A Lynch Lila Cockrell Theatre ⚙️									
	ROOM 301	ROOM 302	STARS AT NIGHT 4	STARS AT NIGHT 1	STARS AT NIGHT 2-3	ROOM 225 BCD	ROOM 221AB	ROOM 221CD	ROOM 304	ROOM 303
G 1:45–2:45	Innovation in Medical Physics Education Moderator: V Montemayor	SAM Professional Symposium How International Actions Interface and Support Med Phys 3.0 Moderator: V Tsapaki K Kanal, E Samei, V Tsapaki, K Ng, M Rehani	SAM Therapy Educational Course Strategies and Technologies for Radiosurgery of Multiple Intracranial Metastases Moderator: G Kim M Milano, N Agazaryan, G Kim	SAM Therapy Educational Course Contemporary Pediatric Radiation Therapy: Perspectives from Children's Oncology Group Moderator: C Hua J Breneman, P Rassiah-Szegedi, M Gopalakrishnan	John R. Cameron Young Investigator Symposium Moderators: G Ezzell, M Giger		SAM Imaging Educational Course Computed Tomography-guided Interventional Procedures Moderator: K Yang F Fintelmann, A Jones, S Leng, K Yang	SAM Imaging Educational Course From Breast Cancer Screening to Stereotactic Biopsy: A Technological, Clinical, and Patient Perspective Moderator: K Hulme M Yaffe, D Ataya, R Mars	SAM Practical Medical Physics Course Automation and Scripting in the Clinic Moderator: E Van Wie A Nelson, J Baker, J Rogers, C Mayo, C Chang, T McNutt	
H 2:45–3:45			SAM Therapy Educational Course Current Challenges and Prospects in Particle Therapy Moderator: D Carlson J Farr, K Parodi	SAM Therapy Educational Course Acquiring Treatment Planning Skills is Important for Medical Physicists Moderator: S Suttliet S Suttliet, Z Huang, P Xia						
K 4:30–6:00	Therapy Scientific Session Novel Dose Calculation Methods X Jia, J Neylon	Professional Symposium From Burnout to Engagement: The Outlook for Medical Physicist Wellness and Patient Safety Moderator: D Jordan G Rao, J Johnson, T Pawlicki, D Jordan	SAM Therapy Educational Course Introduction to Scientific Computing for Medical Physics Research Moderator: E Schreibmann S Hedrick, G Sharp, E Schreibmann	SAM Therapy Scientific Symposium Advances in Proton and Particle Therapy Moderator: B Teo K Parodi, H Bouchard, X Ding	Multi-Disciplinary Scientific Session Imaging in Clinical Trials M Matuszak, Y Vinogradskiy	SAM Multi-Disciplinary Scientific Symposium Optimization in Imaging and Therapy Moderator: K Shen A Wang, H Enderling, K Sheng	SAM Imaging Scientific Symposium Imaging of Tumor Response to Radiotherapy: New Results and Radiobiological Principles Moderator: J Deasy J Bayouth, J Bissonnette, J Deasy	SAM Imaging Educational Course Novel Approaches to Dose Optimization in Nuclear Medicine Moderator: F Fahey F Fahey, G El Fakhri, M King	SAM Practical Medical Physics Course Clinical Application of Frameless Stereotactic Radiosurgery (SRS) Moderator: M Podgorsak R Popple, K Sixel, J Yang, M Podgorsak	SAM Ultrasound Symposium Advances in Ultrasound Image Guided Radiotherapy Moderators: S Benedict, B Salter B Salter, D Hristov

PROGRAM AT A GLANCE | TUESDAY, JULY 16

- Imaging Education
- Imaging Scientific
- Therapy Education
- Therapy Scientific
- Multi-Disciplinary Scientific
- Professional
- Practical Medical Physics
- Specialty Track: Ultrasound
- ⚙️ President's Sessions of Note Scientific

EXHIBIT HALL ACTIVITIES

9:00 am–5:00 pm	EXHIBIT HALL HOURS
9:30–11:00 am 12:15–1:45 pm 3:45–4:30 pm	BREAKS Coffee Break + Visit the Vendors Lunch Break + Visit the Technical Exhibits Refreshment Break
9:00–10:00 am	MULTI-DISCIPLINARY SCIENTIFIC SESSION PinS Room Hall 2 IGRT I I Reiser, B Rigaud
9:30–10:30 am	ePOSTER DISCUSSION Forum 1 Expanding Horizons Presenting Authors available
9:30–11:00 am 1:15–1:45 pm 3:45–4:15 pm	GENERAL ePOSTER DISCUSSION Forums 1 – 9 Imaging Multi-Disciplinary Therapy
10:00 am–12:15 pm	PARTNERS in SOLUTIONS PinS Room Hall 2 Diagnostic: Dual Energy CT Moderator: N Brown
1:45–3:30 pm	EDUCATIONAL TOPIC-SPECIFIC GUIDED TOURS <i>(Limited Tour Capacity)</i> Exhibit Hall 1 Imaging: Brain CT Perfusion Therapy: Patient Immobilization Equipment
1:45–3:45 pm	STUDENT INTERVIEW WORKSHOP PinS Room Hall 2
4:30–5:30 pm	ePOSTER CAMPUS ePoster Theater Forums 1 – 3 Imaging: Dosimetry Provost: M Goodsitt Multi-Disciplinary: MR-Only Treatment Planning Provost: P Greer Therapy: SRS and SBRT Provost: R Pople
6:30–10:00 pm	AAPM NIGHT OUT La Villita Historic Arts Village

	ROOM 301	ROOM 302	STARS AT NIGHT 4	STARS AT NIGHT 1	STARS AT NIGHT 2-3	ROOM 225 BCD	ROOM 221 AB	ROOM 221 CD	ROOM 304	ROOM 303
A 7:30–8:30	SAM Therapy Educational Course 5D imaging and Treatment Planning for Radiation Therapy Moderator: J Cai, D Low, J Cai, C Shi	SAM Professional Symposium The Understanding and Courage to Lead—Part 1 Moderator: J Johnson, A Cucolo, A Cucolo, G Cardarelli, J Zoberi	SAM Therapy Educational Course Surface Image Guided Radiotherapy Moderator: A Gutierrez, D Stanley, H Al-Hallaq, R Foster	Therapy Scientific Session Proton and Particle Therapy J Dougherty, C Peeler	Multi-Disciplinary Scientific Session Deep Learning Applications J Deasy, G Hugo	Multi-Disciplinary Scientific Session Novel IGRT D Pafundi, A Sawant	Imaging Scientific Session Novel and Preclinical Imaging K Li, L Xing	SAM Imaging Educational Course ISMRM-AAPM Joint Symposia: MR Safety Operations Moderator: R Stafford, V Kimbrell, H Chandarana, H Edmonson, V Kimbrell	SAM Practical Medical Physics Course Communicating Benefit to Risk Ratio from Radiology Exams to the Patient and Provider Moderator: K Kanak, M O'Connor, E Ritenour, S Brady, R Otto	SAM Ultrasound Symposium Novel Aspects and Clinical Implementation of Focused Ultrasound Moderators: R Chopra, S Sammet, R Chopra, Z Xu, M O'Reilly
B 8:30–9:30	SAM Therapy Educational Course In Memoriam of Jean St. Germain: The Intersection of Radiobiology, Radioepidemiology, and Safety Moderator: L Rothenberg, L Rothenberg, E Yorke, J Bernstein, G Kim	SAM Professional Symposium The Understanding and Courage to Lead—Part 2 Moderator: J Johnson, A Cucolo, L Cervino, D Jordan	SAM Therapy Educational Course Quality Improvement: from Incident Learning to Affecting Change Moderator: E Ford, E Ford, S Hedrick, Z Ouhib, S Evans							
E 11:00–12:15	Professional Symposium In Memoriam of Peter Dunscombe: Celebrating the Life and Accomplishments of Peter Dunscombe, PhD, FAAPM—A Tireless Champion of Quality of Care and Patient Safety Moderators: B Thomadsen, S Huq, M Huq, B Thomadsen, P Halvorse	SAM Professional Symposium Assessment of Equity, Diversity, and Inclusion Challenges and Strengths in the Medical Physics Field Moderator: L Cervino, L Cervino, J Pollard-Larkin	SAM Therapy Educational Course The integration of AI and Machine Learning in Medical Physics Applications Moderator: T Solberg, V Kearney, M Chan, C Cardenas	Therapy Scientific Session Dose Prediction and Modeling R Howell, D Ruan	Multi-Disciplinary Scientific Session Image Segmentation A Owangi, G Sharp	Multi-Disciplinary Scientific Symposium NIH Grant Writing Workshop Moderator: K Farahani, K Farahani, C Obcemea, H Baker, J Wong, K Brown, E Lessard	Imaging Scientific Session Mammography and Other Breast Imaging J Boone, K Hulme	SAM Imaging Educational Course Radiation Protection for Fluoroscopically-guided Interventional Procedures: Patient Dose and Radiobiology Moderator: K Wunderle, K Wunderle, R Stewart	Practical Medical Physics Course Medical Physics Life Hacks Moderator: T Fisher, T Fisher, R Miller	SAM Ultrasound Symposium Carson-Zagzebski Distinguished Lectureship on Medical Ultrasound Moderators: C Diederich, T Liu, K Ferrara
H 1:45–2:45	SAM Therapy Educational Course MR guided RT: Treating with On-board MRI Moderator: Y Yang, X Li, O Green, B Raaymakers, Y Yang	SAM Professional Symposium The Understanding and Courage to Lead—Part 3 Moderator: J Johnson, A Cucolo, C Glide-Hurst, T Atwood	Therapy Scientific Session In-Vivo and Real-Time Dosimetry I El Naqa, K Parodi	Therapy Scientific Session Knowledge-Based and Automated Treatment Planning T Li, Y Xiao	Multi-Disciplinary Scientific Session SCIENCE COUNCIL SESSION: Data Science in Medical Physics J Deasy, M Giger	SAM Multi-Disciplinary Scientific Symposium WMIS/AAPM Joint Symposium: Nanotechnology Moderator: J Hazle, S Chen, R Ivkov, S Krishnan	Imaging Scientific Symposium Biomedical Modeling Using Imaging Data Moderator: W Zbijewski, P Boyle, D Tward, D Holdsworth, C Grassberger	SAM Imaging Educational Course Patient Dose Monitoring in CT with Tube Current Modulation and Multiple Series Moderator: X Li, J Boone, R Dixon, B Li, D Zhang, X Li	SAM Practical Medical Physics Course ACR Updates Moderator: D Gress, D Gress, E Berns, C Dillon, A Jones	SAM Ultrasound Symposium Advances in Image-Guided Focused Ultrasound Applications Moderators: A Payne, M O'Reilly, B Denis de Senneville, A Payne, C Lafon, H Chen
I 2:45–3:45		SAM Professional Symposium The Understanding and Courage to Lead—Part 4 Moderator: J Johnson, A Cucolo, J Goodwin, J Johnson								
L 4:30–6:00	History Symposium Physics and Technology of Mammography and Fluoroscopy: A Historical Perspective Moderators: S Tabakov, P Sprawls, P Sprawls, S Balter	Professional Symposium New Member Symposium: Becoming Employed and Involved in Medical Physics Moderator: L Johnson, A Johnson, C McCollough, K Rasmussen, L Johnson	SAM Therapy Educational Course Optimizing Safety and Efficiency in Brachytherapy Moderator: L Beaulieu, C Deufel, J Cygler, D Todor, M Joyner	SAM Therapy Scientific Symposium The Promise of FLASH Moderator: A Koong, J Pollard-Larkin, L Dong, B Loo	SAM Multi-Disciplinary Scientific Symposium Integrating Radiomics and Genomics for Personalized Cancer Therapy in the Era of AI and Big Data Moderator: R Li, J Wang, J Oh, R Li	Multi-Disciplinary Scientific Session Novel Reconstruction and Image Formation Methods J Park, N Yue	Imaging Scientific Symposium Novel Imaging Methods Moderator: J Stayman, J Stayman, M Rosen, E Boctor	SAM Imaging Educational Course Session in Memory of Edward Nickoloff: Joint Commission Update: Satisfying the Joint Commission Fluoroscopy Requirements Moderator: T Fisher, A Dutta, M Mahesh, A Browne	Imaging Scientific Session Radiomics and Quantitative Imaging U Mahmood, M McNitt-Gray	SAM Ultrasound Symposium Focused Ultrasound in Radiation Oncology Moderators: H Chen, M Altman, M Altman, G Czarnota, S Brueningk

PROGRAM AT A GLANCE | WEDNESDAY, JULY 17

- Imaging Education
- Imaging Scientific
- Therapy Education
- Therapy Scientific
- Multi-Disciplinary Scientific
- Professional
- Practical Medical Physics
- Specialty Track: Ultrasound
- ⚙️ President's Sessions of Note

EXHIBIT HALL ACTIVITIES

9:00 am–2:00 pm	EXHIBIT HALL HOURS
	BREAKS
9:30–10:15 am	Coffee Break
12:15–1:45 pm	Lunch Break + Visit the Technical Exhibits <i>(NOTE: ePosters and Exhibits close at 2:00 pm)</i>
3:45–4:30 pm	Refreshment Break <i>Stars at Night Ballroom Foyer Meeting Room Level—near 221</i>
9:30–11:00 am	GENERAL ePOSTER DISCUSSION Forums 1 – 9 Imaging Multi-Disciplinary Therapy
10:15 am–12:00 pm	PARTNERS in SOLUTIONS PinS Room Hall 2 Therapy: Scripting Moderator: N Brown
10:15 am–12:00 pm	EDUCATIONAL TOPIC-SPECIFIC GUIDED TOURS <i>(Limited Tour Capacity)</i> Exhibit Hall 1 Imaging: Brain CT Perfusion Therapy: Patient Immobilization Equipment
1:45–3:45 pm	PROFESSIONAL SYMPOSIUM PinS Room / Hall 2 ABR Exam Prep for Diagnostic/Nuc Med Moderator: J Yung J Yung, G Frey, D Gress, J Nute, B Lofton
6:15–7:30 pm	Stars at Night 2-3, Convention Center

ANNUAL BUSINESS MEETING | TOWN HALL MEETING

	ROOM 301	ROOM 302	STARS AT NIGHT 4	STARS AT NIGHT 1	STARS AT NIGHT 2-3	ROOM 225 BCD	ROOM 221AB	ROOM 221CD	ROOM 304	ROOM 303
A 7:30–8:30	SAM Therapy Scientific Symposium Cutting-edge Brachytherapy Moderator: R Flynn R Flynn, X Yang, L Beaulieu, J Zoberi	SAM Professional Symposium Breaking Out of the Clinic: Non-Clinical Careers in Medical Physics Moderator: H Nusrat J Speitel, C Borras, R Jeraj	SAM Therapy Educational Course Session in Memory of Karl Prado: Recent Advancements in Quality Assurance for Radiation Therapy Moderator: R Wiersma J Pollard-Larkin, Y Yang, D Yang, R Wiersma	Ultrasound Symposium Diagnostic Ultrasound QA/QC Hands-on Workshop Moderators: Z Lu, J Zagzebski	Therapy Scientific Symposium The Science of Safety—From Brute Force QA to Focused Effort Moderator: E Covington, J Lamb S Mutic, A Kalet, J Lamb	Multi-Disciplinary Scientific Session Image Analysis for Response Assessment E Moros, N Wen	Imaging Scientific Session Spectral and Photon Counting CT G Gang, I Reiser	SAM Imaging Educational Course ISMRM-AAPM Joint Symposia: MR Safety for Experts Moderator: H Edmonson A Panda, R Stafford, C Glide-Hurst, A Fagan, R Stafford	SAM Practical Medical Physics Course Deformable Image Registration for Dose Mapping and Dose Accumulation: Techniques and Challenges Moderator: I Chetty K Brock, M Rosu-Bubulac, J Swamidas	Multi-Disciplinary Scientific Session Novel Dosimetry and Delivery Techniques M Bazalova-Carter, F Yin
B 8:30–9:30		SAM Professional Symposium How will IEC Standards Updates Affect the Practice of Medical Physics? Moderator: M Supanich G Ibbott, M Supanich	SAM Therapy Educational Course Recent Advances in Imaging for Treatment Verification Moderator: J Lewis L Cervino, J Wang, O Green, J Lewis		Therapy Scientific Session Day of QA E Covington, J Lamb					
F 10:15–11:15	Therapy Scientific Session Radiobiology and Radioimmunology D Carlson, K Wang	SAM Professional Symposium Managing Conflicts of Interest: Building Trust and Improving Outcomes Moderator: C Skourou J Limmer, M Svatos, K Osterman	SAM Therapy Educational Course EPID Machine QA Implementation and Automation, Are We There Yet? Moderator: C Shi C Shi, M Cao, B Sun	SAM Therapy Scientific Symposium Functional Treatment Planning Moderator: Y Vinogradskiy E Schreiber, K Huang, Y Vinogradskiy, J Dougherty, J Buatti	Multi-Disciplinary Scientific Symposium Medphys Slam Host: J Bayouth	SAM Multi-Disciplinary Scientific Symposium Advances in Image-Guided Interventions Moderator: J Siewerdsen J Siewerdsen, K Cleary, M Miga, J Paydarfar	SAM Imaging Scientific Symposium Contrast-enhanced and Functional Imaging of the Breast Moderator: I Sechopoulos J Lewin, I Sechopoulos, C Hruska	SAM Imaging Educational Course CT Systems Course Moderator: B Li B Li, J Hsieh, F Dong	Imaging Scientific Session Multimodality and Optical Imaging Moderator: M Bazalova-Carter, D Ruan	SAM Ultrasound Symposium Advances in Ultrasound Imaging Technology Moderators: M Bell, Z Lu, B Lindsey, X Wang, L Xiang
G 11:15–12:15		Professional Symposium How to Successfully Interface with Vendors Moderators: E Angel, P Naine E Angel, P Naine, A Devaraj, M Wetzel	SAM Therapy Educational Course Alternative Strategies for Linac Beam Verification or Beam Data Collection Without Using a 3D Water Tank Moderator: P Greer N Knutson, J Wolthaus, M Barnes							
H 1:45–2:45	Therapy Scientific Session Treatment Planning and Optimization Q Chen, P Xia	SAM Professional Symposium Getting Ready for the ABR's OLA (Online Longitudinal Assessment) Moderator: D Frey G Frey, K Kanal	SAM Therapy Educational Course Assembling your Detector Toolkit—Which Types, How Many, and Why Moderator: B Muir B Muir, J Seuntjens, M McEwen, D Followill, W Culbertson, S Davis	SAM Therapy Scientific Symposium Efficiency/throughput RT for Low Resource Settings Moderator: M Bazalova-Carter D Van der Merwe, E Ford, M Bazalova-Carter, P Liu, J Adler	Multi-Disciplinary Scientific Session Imaging for Particle Therapy X Ding, L Dong	Multi-Disciplinary Scientific Symposium NIH Investigator Scientific Highlights Moderator: C Obcemea C Glide-Hurst, J Lamb, Y Vinogradskiy, K Sheng, R Ten Haken, I Sechopoulos, X Wu, Q Wu, A Sawant, J Stayman	Imaging Scientific Symposium Adaptive Imaging Moderator: T Szczykutowicz T Szczykutowicz, S Metzler, R Stafford, M Namias	SAM Imaging Educational Course In Memoriam of Libby Brateman: Education, Licensure, Guidance and Mammography-Enhancing the Recognition of the Medical Physics Profession Moderator: P Butler M McKetty, S Leon, R Pizzutiello, D Gilley, P Butler	SAM Practical Medical Physics Course Vendor Provided Data, Tools and Test Procedures Moderator: S Dieterich K Smith, T Pawlicki, M Lee, J Kapatoes	SAM Ultrasound Symposium Advanced Ultrasound Imaging in Clinical Applications Moderators: L Xiang, F Forsberg, M Lediju Bell, J Grondin
I 2:45–3:45		Professional Symposium Professional Economics Updates Moderator: J Fontenot J Fontenot, W Fuss	Therapy Educational Course Point/Counterpoint Live Debate: Modern Linacs Monitor Units Should be Defined in Water at 10 cm Depth Rather than at DMAX Moderator: F Van den Heuvel F Van den Heuvel, Q Wu, K Kielar, C Sandin							
J 4:30–6:00	Therapy Scientific Session Session in Memory of Dennis Leavitt: Novel Photon and Electron Therapy Techniques Moderator: G Ibbott, J Moeller	SAM Multi-Disciplinary Scientific Symposium Novel Agents for Imaging and Theranostics Moderator: D Cormode D Cormode, B Zeglis, M Melancon	SAM Therapy Educational Course Adaptive Radiotherapy Moderator: J Sonke C Fuller, C Coolens, G Cazoulat, J Sonke, M Matuszak	Multi-Disciplinary Scientific Symposium AAPM Grand Challenges Symposium Moderator: S Armato S Armato, B Tahir, G Sharp	Multi-Disciplinary Scientific Symposium Novel Applications in Cardiac Imaging and Therapeutics Moderator: P Keall R Fahrig, P Keall, G Hugo	Professional Symposium Outstanding Science Published in 2018: Medical Physics and JACMP Moderators: Williamson, M Mills J Williamson, T Tran, A Rosenfeld, E Morris, C Glide-Hurst, J Scheuermann, D Hintenlang	Imaging Scientific Symposium Innovations in X-Ray Detectors Moderator: K Li W Zhao, L Antonuk, C Ullberg	SAM Imaging Educational Course Tailoring CT Protocol to Patient Age and Size with a Focus on Pediatric Patient Moderator: D Bakalyar Z Qi, F Ranallo, K Applegate	Therapy Scientific Session Experimental Radiation Techniques Moderator: R Hobbs, Y Poirier	Ultrasound Symposium AI and Quantitative Ultrasound Imaging Moderators: X Yang, J Grondin, F Forsberg, X Yang

PROGRAM AT A GLANCE | THURSDAY, JULY 18

- Imaging Education
- Imaging Scientific
- Therapy Education
- Therapy Scientific
- Multi-Disciplinary Scientific
- Professional
- Practical Medical Physics
- Specialty Track: Ultrasound
- ⚙️ President's Sessions of Note Scientific

BREAKS

- 9:30–10:00 am **Coffee Break**
Stars at Night Ballroom Foyer Meeting Room Level—near 221
- 12:00–12:50 pm **Boxed Lunch**
Stars at Night Ballroom Foyer Meeting Room Level—near 221

CLOSE OF MEETING

See you next year in Vancouver, BC | July 12–16, 2020

	ROOM 301	ROOM 302	STARS AT NIGHT 4	STARS AT NIGHT 1	STARS AT NIGHT 2-3	ROOM 225 BCD	ROOM 221 AB	ROOM 221 CD	ROOM 304	ROOM 303
A 7:30–8:30	Therapy Scientific Session Brachytherapy L DeWerd, S Richardson	Professional Symposium HAZMAT Shipping DOT Training Part 1 Moderator: R Tarver, J Mikhail	SAM Therapy Educational Course Intrafraction Motion Management in Radiotherapy – State of the Art and Future Roadmap Moderator: A Sawant, L Cervino, A Sawant, S Dieterich, P Keall, L Dong	SAM Therapy Scientific Symposium AI and Machine Learning for RT Moderator: S Jiang, S Jiang, L Xing, I El Naqa, H Li	Multi-Disciplinary Scientific Session Adaptive Radiation Therapy P Keall, A Yock	Multi-Disciplinary Scientific Session Deformable Image Registration M Kessler, X Yang	Imaging Scientific Session Computed Tomography M Bostani, M Kachelreiss	SAM Imaging Educational Course Reducing Sedation and Anesthesia in Pediatric Radiology Moderator: R MacDougall, A Degnan, G El Fakhri, R MacDougall, S Brady	SAM Practical Medical Physics Course Design Elements and Performance Evaluation of MRI Radiofrequency Coils Moderator: T Andrews, N Yanasak, T Andrews, T Cull, M NessAive	Imaging Scientific Session Magnetic Resonance Imaging J Allison, A Panda
B 10:00–11:00	Therapy Scientific Session Novel Dosimetry and QA Methods E Covington, W Liu	Professional Symposium HAZMAT Shipping DOT Training Part 2 Moderator: R Tarver, J Mikhail	SAM Therapy Educational Course Immunotherapy Killed the IGRT Star Moderator: H Al-Hallaq, H Al-Hallaq, S Chmura	SAM Therapy Scientific Symposium Rationale and Evidence for SBRT Moderator: J Grimm, J Xue, V Yu, C Song, D Carlson, A Marciscano	SAM Multi-Disciplinary Scientific Symposium The Anne and Donald Herbert Distinguished Lectureship in Modern Statistical Modeling Moderator: J Balter, M Schipper	Multi-Disciplinary Scientific Session MRI in Radiation Therapy S Nejad-Davarani, J Wang	Imaging Scientific Symposium Deep Learning for Image Reconstruction and Processing Moderator: J Teuwen, J Teuwen, A Hauptmann, M Kachelreiss	SAM Imaging Educational Course Reject Rate Analysis in the Digital Era Moderator: K Little, K Hulme, K Little, I Reiser, A Walz-Flannigan	Imaging Scientific Session Dose and Safety S Brady, V Tsapaki	Multi-Disciplinary Scientific Session Imaging for Motion Management L Cervino, D Nguyen
C 11:00–12:00			SAM Therapy Educational Course Dosimetry in Radionuclide Therapy Moderator: R Hobbs, R Hobbs, Y Dewaraja, B Bednarz		Multi-Disciplinary Scientific Session Robust and Reproducible Research in Medical Physics J Balter, M Schipper					
	ROOM 301		ROOM 303	STARS AT NIGHT 1	ROOM 304			ROOM 302		
D 1:00–3:00	SAM Imaging Educational Course Vendor Related Mammography Updates Moderator: G Mihai, R Iordache, S Kappler, T Patel, G Cretella		SAM Therapy Educational Course Advances in Pencil Beam Scanning Delivery and Planning Techniques Moderator: K Langen, S Mossahebi, M Pankuch, W Liu, A Mascia	SAM Therapy Scientific Symposium Adaptive Radiation Therapy (Online, Offline, Real Time) Moderator: C Glide-Hurst, K Brock, C Glide-Hurst, J Booth, C Fuller	Multi-Disciplinary Scientific Session Safety and Quality Assurance S Kry, B Salter			Imaging Scientific Session Radiography and Fluoroscopy D Bakalyar, K Kanak		