

PROGRAM AT A GLANCE | SUNDAY, JULY 14

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Imaging Education

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Imaging Scientific

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Therapy Education

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Therapy Scientific

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Multi-Disciplinary Scientific

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Professional

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Practical Medical Physics

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Specialty Track: Ultrasound

President's Sessions of Note 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   <b>Patient Communication - A Future Role for Clinical Physicists</b>   Moderators: A Diamant, A Alexandrian, T Juang, E Thompson   T Atwood, D Brown   <i>Stars at Night Ballroom 4</i>									
10:00–11:30	Non-Clinical Career Expo   <i>Stars at Night Ballroom Foyer</i>									
B 9:30–10:30	Education Council Symposium   <b>Defining and Measuring Quality in Medical Physics Education</b>   Moderator: G Starkschall   G Starkschall, E Jackson, K Hendrickson   <i>Stars at Night Ballroom 1</i>									
C 10:30–11:30	Joint Council Symposium   <b>Quality in Medical Physics</b>   Moderator: D Pavord   H Tannir, B Fraass, J Palta   <i>Stars at Night Ballroom 1</i>									
D 11:30–12:30	Professional Council Symposium   <b>Finding the Most Valuable Use of Limited Time and Resources</b>   Moderator: D Pavord   H Li, E Samei, S Meyers   <i>Stars at Night Ballroom 1</i>									
	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
E 1:00–1:55	Therapy SNAP Oral <b>Brachytherapy I</b> Y Yang, Z Zoberi	Therapy SNAP Oral <b>Proton and Particle Therapy I</b> A Faught, W Liu	Therapy SNAP Oral <b>SRS/SBRT I</b> R Cardan, K Hendrickson	Therapy SNAP Oral <b>Clinical System Characterization and Implementation</b> M Bues, X Gu	Multi-Disciplinary SNAP Oral <b>Radiomics</b> K Drukker, K Nie	Multi-Disciplinary SNAP Oral <b>Novel Imaging Modalities</b> R Berbeco, T Zhang	Multi-Disciplinary SNAP Oral <b>Equipment and QA</b> S Becker, D Thomas	Imaging SNAP Oral <b>MRI: Processing and Analysis</b> M Rosen, N Yanasak	Imaging SNAP Oral <b>Cone Beam CT: Methods and Evaluation</b> V Patel, A Wang	Imaging SNAP Oral <b>Multimodality and Nuclear Medicine</b> O Mawlawi, B Pogue
F 2:05–3:00	Therapy SNAP Oral <b>Brachytherapy II</b> Z Grelewicz, C Ma	Therapy SNAP Oral <b>Novel Dosimetry and Calibration Methods</b> E Bossart, E Klein	Therapy SNAP Oral <b>SRS/SBRT II</b> R Shawa, J Yang	Therapy SNAP Oral <b>Proton and Particle Therapy II</b> B Teo, J Zou	Multi-Disciplinary SNAP Oral <b>Deep Learning</b> Y Cui, D Nguyen	Multi-Disciplinary SNAP Oral <b>Imaging for Motion Management</b> T Atwood, T Reynolds	Multi-Disciplinary SNAP Oral <b>X-Ray Based Imaging</b> L Ren, J Roeske	Imaging SNAP Oral <b>MRI: Methods and Evaluation</b> M Bernstein, J Hazle	Imaging SNAP Oral <b>Cone-beam CT: Processing and Analysis</b> T Szczykutowicz, S Vedantham	Ultrasound SNAP Oral <b>Advanced Ultrasound Technologies and Image Qualities</b> D Hristov, I Rosado-Mendez
K 4:00–5:00	Therapy SNAP Oral <b>Error Detection/ Incident Learning</b> J Johnson, J Lamb	Therapy SNAP Oral <b>External Beam Planning</b> W Culberson, Z Tian	Therapy SNAP Oral <b>Treatment Planning and Optimization</b> H Gao, L Xing	Therapy SNAP Oral <b>Treatment Delivery and Verification</b> B Rigaud, F Yin	Multi-Disciplinary SNAP Oral <b>MRI in RT</b> J Cai, C Wang	Multi-Disciplinary SNAP Oral <b>Imaging for Treatment Planning</b> H Li, J Wang	Multi-Disciplinary SNAP Oral <b>Deformable Image Registration and ART</b> I Cheffy, K Mittauer	Imaging SNAP Oral <b>Computed Tomography: Characterization and Methods</b> X Tang, B Whiting	Imaging Scientific Session <b>Nuclear Medicine</b> P Kinahan, Y Shao	Imaging SNAP Oral <b>New and Preclinical Imaging</b> B Fei, S Leng
L 5:00–6:00	Therapy SNAP Oral <b>Automated Patient Safety and QA Methods</b> R Flynn, V Yu	Therapy SNAP Oral <b>Novel Therapy Techniques</b> T Briere, B Fahimian	Therapy SNAP Oral <b>Dosimetry Automation and Verification</b> L Conroy, D Yang	Therapy SNAP Oral <b>Novel Dosimetry Devices</b> M McCulloch, D Schlesinger	Multi-Disciplinary SNAP Oral <b>MR-guided Radiation Therapy</b> M Cao, X Li	Multi-Disciplinary SNAP Oral <b>Autocontouring and Classification</b> G Cazoulat, Y Rong	Multi-Disciplinary SNAP Oral <b>Functional Imaging and Response Assessment</b> S Bowen, Y Cao	Imaging SNAP Oral <b>Computed Tomography: Processing and Analysis</b> E Angel, B Chen		Imaging SNAP Oral <b>Radiography and Fluoroscopy</b> J Dave, J Zhang

PROGRAM AT A GLANCE | MONDAY, JULY 15

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Imaging Education

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Imaging Scientific

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Therapy Education

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Therapy Scientific

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Multi-Disciplinary Scientific

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Professional

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Practical Medical Physics

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Specialty Track: Ultrasound

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President's Sessions of Note

EXHIBIT HALL ACTIVITIES

9:00 am–5:00 pm	EXHIBIT HALL HOURS
9:30–10:15 am	BREAKS
12:15–1:45 pm	Coffee Break
3:45–4:30 pm	Lunch Break + Visit the Technical Exhibits
	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 Borrás, D Brown, C Borrás, E Lief, K Ng, D Van der Merwe, P Costa, C Borrás, 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 Physcis 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 Gutierrez, 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 221AB	ROOM 221CD	ROOM 304	
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 Sutlief S Sutlief, Z Huang, P Xia						
	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
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

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Imaging Education

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Imaging Scientific

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Therapy Education

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Therapy Scientific

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Multi-Disciplinary Scientific

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Professional

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Practical Medical Physics

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Specialty Track: Ultrasound

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President's Sessions of Note Scientific

EXHIBIT HALL ACTIVITIES

9:00 am–5:00 pm	EXHIBIT HALL HOURS
	BREAKS
9:30–11:00 am	Coffee Break + Visit the Vendors
12:15–1:45 pm	Lunch Break + Visit the Technical Exhibits
3:45–4:30 pm	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	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 (Limited Tour Capacity) 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 Popple

AAPM NIGHT OUT

6:30–10:00 pm 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 221AB	ROOM 221CD	ROOM 304	ROOM 303
A 7:30–8:30	SAM Therapy Educational Course 5D imaging and Treatment Planning for Radiation Therapy Moderatoar: J Cai D Low, J Cai, C Shi	SAM Professional Symposium The Understanding and Courage to Lead—Part1 Moderator: J Johnson A Cucolo, A Cucolo, G Cardarelli, J Zoberi	SAM Therapy Educational Course Surface Image Guided Radiotherapy Moderator: A Gutierrez 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 Kanal M O'Connor, E Ritenour, S Brady, R Otto	SAM Ultrasound Symposium Novel Aspects and Clinical Implementation of Focused Ultrasound Moderators: R Chopra, S Sammett 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 McColough, 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
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President's Sessions of Note Scientific

EXHIBIT HALL ACTIVITIES

9:00 am–2:00 pm	EXHIBIT HALL HOURS
9:30–10:15 am	BREAKS
12:15–1:45 pm	Coffee Break
	Lunch Break + Visit the Technical Exhibits (NOTE: ePosters and Exhibits close at 2:00 pm)
3:45–4:30 pm	Refreshment Break
	Stars at Night Ballroom Foyer Meeting Room Level—near 221
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 (Limited Tour Capacity) 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
⚙️ANNUAL BUSINESS MEETING   TOWN HALL MEETING	
6:15–7:30 pm	Stars at Night 2-3, Convention Center

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

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