

PROGRAM AT A GLANCE | SUNDAY, JULY 29

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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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Joint Imaging/Therapy Scienific

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Professional

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Practical Medical Physics

■

Certificate Course

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Specialty Track:
Quantitative Imaging in
the Era of Big Data and
Precision Medicine

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President's Sessions of Note

EXHIBIT HALL ACTIVITIES

EXHIBIT HALL HOURS

12:30–5:00 pm

BREAKS

12:30 pm and
3:00–3:30 pm

Refreshment Breaks

POSTER VIEWING

3:00–4:00 pm

BEST IN PHYSICS
ePoster Theaters

Presenting Authors available 3:30–4:00

3:00–5:00 pm

GENERAL ePOSTER DISCUSSION
Exhibit Hall

Imaging | Joint Imaging-Therapy | Therapy

3:00–6:00 pm

GENERAL POSTER DISCUSSION
Exhibit Hall

Educational | Professional | Imaging |
Joint Imaging-Therapy | Therapy
Society of Physics Students
(SPS) Undergraduate Research
Presenting Authors available 3:00–6:00

4:00–5:00 pm

ePOSTER CAMPUS
ePoster Theaters

Imaging: Ultrasound
Provost: Z Long



Joint Imaging-Therapy:
Novel Applications
Provost: A Sawant

Therapy:

Treatment Planning and Dose Delivery
Provost: N Dogan

	DAVIDSON BALLROOM B									
A 8:30–10:00	AAPM Medical Physics Student Meeting The Role of Automation in Clinics of the Future Moderators: A Diamant, K McConnell, A Alexandrian K Moore, S Jiang, A Diamant ⚙️									
	KARL DEAN BALLROOM A1									
B 9:30–10:30	Education Council Symposium Medical Physics Education: Beyond the Future Moderator: James Dobbins J Dobbins, V Montemayor, W Sensakovic, J Prisciandaro, M McNitt-Gray									
C 10:30–11:30	Joint Council Symposium Science and the Medical Physicist Moderator: Jatinder Palta J Palta, E Samei, J Sabol, A Badano, T Mackie									
D 11:30–12:30	Professional Council Symposium Science in the Clinic Moderator: Daniel Pavord D Pavord, D Followill, T Pawlicki, J Clements									
	DAVIDSON BALLROOM A	ROOM 209	KARL DEAN BALLROOM A2	KARL DEAN BALLROOM A1	KARL DEAN BALLROOM B1	KARL DEAN BALLROOM C	ROOM 202	ROOM 205	ROOM 207	DAVIDSON BALLROOM B
E 1:00–1:55	Therapy SNAP Oral Dosimetry and QA D Followill, T Niu	Therapy SNAP Oral ⚙️ Optimization of Treatment Planning M Bazalova-Carter, N Kovalchuk	Therapy SNAP Oral Particle Therapy K Umegaki, D Shepard	Therapy SNAP Oral Monte Carlo and Treatment Planning T Li, Y Xie	Joint Imaging-Therapy SNAP Oral Advances in Imaging R Wiersma, J Lewis	Joint Imaging-Therapy SNAP Oral Image Registration and Image Analysis M Kessler, L Ren	Joint Imaging-Therapy SNAP Oral Image Guidance and Verification of Particle Therapy L Dong, J Kruse	Imaging SNAP Oral CT Noise, Dose, and Protocol Optimization D Gauntt, J Wang	Imaging SNAP Oral Radiography and Fluoroscopy B Schueler, S Abbaszadeh	Imaging SNAP Oral Multimodality, Optical Imaging, and Ultrasound D Ruan, P Carson
F 2:05–3:00	Therapy SNAP Oral ⚙️ Novel Treatment Planning and Delivery Strategies S Cho, L Skinner	Therapy SNAP Oral Motion Management J Roeske, Z Li	Therapy SNAP Oral ⚙️ QA for Emerging Technologies K Moore, N Wen	Therapy SNAP Oral Radiobiology Modeling and Outcome Studies R Ten Haken, K Bush	Joint Imaging-Therapy SNAP Oral ⚙️ Novel Imaging Applications J Bourland, Y Vinogradskiy	Joint Imaging-Therapy SNAP Oral ⚙️ Adaptive Radiation Therapy R Kashani, Q Wu	Joint Imaging-Therapy SNAP Oral IGRT R Flynn, C Altunbas	Imaging SNAP Oral Multienergy CT and CT Methods B Li, L Yu	Imaging SNAP Oral Emerging Imaging Methods and Mammography T Szczykutowicz, C Favazza	Specialty Track Quantitative Imaging in the Era of Big Data and Precision Medicine SNAP Oral QIN/QIBA E Jackson
K 4:00–4:55	Therapy SNAP Oral Dose Enhancement and Treatment Response M Oldham, W Hu	Therapy SNAP Oral Brachytherapy and IORT Y Kuang, L Beaulieu	Therapy SNAP Oral ⚙️ Treatment Planning and Machine Learning Q Wu, B Ibragimov	Therapy SNAP Oral Radiation Dosimetry, QA, and Dose Verification X Yang, N Yue	Joint Imaging-Therapy SNAP Oral MRI in Treatment Planning P Greer, K McGee	Joint Imaging-Therapy SNAP Oral Segmentation W Lu, A Owringi	Joint Imaging-Therapy SNAP Oral Motion Assessment and Prediction in Planning L Cervino, Y Hu	Imaging SNAP Oral Quantitative Imaging and Radiomics I W Zbijewski, H Chan	Imaging SNAP Oral Magnetic Resonance Imaging G Clarke, E McVeigh	Imaging Scientific Session Emerging and Preclinical Modalities S Rudin, Y Yang
L 5:05–6:00	Therapy SNAP Oral ⚙️ New Delivery and Treatment Techniques E Graves, L Schubert	Therapy SNAP Oral Treatment Planning P Xia, A Sethi	Therapy SNAP Oral Motion and Uncertainties in Radiation Therapy A Yu, R Berbeco	Therapy SNAP Oral Safety and Error Analysis E Ford, P Dubrowski	Joint Imaging-Therapy SNAP Oral MRI-Guided Applications O Green, E Moros	Joint Imaging-Therapy SNAP Oral Imaging for Treatment Response Assessment S Bowen, M Matuszak	Joint Imaging-Therapy SNAP Oral Motion Management Strategies in Treatment G Mageras, Z Labby	Imaging SNAP Oral Quantitative Imaging and Radiomics II R Jeraj, J Lee	Imaging SNAP Oral Cone-Beam CT K Li, A Wang	

PROGRAM AT A GLANCE | MONDAY, JULY 30

- Imaging Education
- Imaging Scientific
- Therapy Education
- Therapy Scientific
- Joint Imaging/Therapy Scienific
- Professional
- Practical Medical Physics
- Certificate Course
- Specialty Track: Quantitative Imaging in the Era of Big Data and Precision Medicine
- President's Sessions of Note

EXHIBIT HALL ACTIVITIES

EXHIBIT HALL HOURS

9:00 am–5:00 pm

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

PARTNERS in SOLUTIONS

1:30–3:45 pm

Therapy

Intelligent Automation for Treatment Planning Workflows

PinS Room | Hall D

Moderator: N Brown

POSTER VIEWING

9:00–10:00 am

GENERAL ePOSTER DISCUSSION

Lounge Area & ePoster Theaters

Imaging | Joint Imaging-Therapy | Therapy

3:45–4:15 pm

4:30–5:30 pm

ePOSTER CAMPUS

ePoster Theaters

Imaging:

Clinical Applications

Provost: E Angel

Joint Imaging-Therapy:

Applications of MRI in Therapy

Provost: J Balter

Therapy:

Monte Carlo and Dose Planning

Provost: X Jia

4:30–6:00 pm

Interview Workshop

PinS Room | Hall D

AAPM AWARDS CEREMONY & RECEPTION

6:30–8:30 pm

Ceremony

8:00–9:00 pm

Reception

Omni Hotel | Broadway Ballroom, Level 2

	DAVIDSON BALLROOM A	ROOM 209	KARL DEAN BALLROOM A2	KARL DEAN BALLROOM A1	KARL DEAN BALLROOM B1	ROOM 205	ROOM 207	DAVIDSON BALLROOM B			
A 7:30–8:25	Therapy Educational Course Advances and Applications of Dual Energy CT and CBCT for Radiation Therapy Moderator: C Hua X Li, C Hua, S Swerdloff	Professional Symposium Medical Physicists and the Global Health Challenge Moderator: W Ngwa W Ngwa, J Van Dyk, K Kisling, S Avery, E Sajo	Therapy Educational Course Automation in Radiation Therapy: Past, Present, and Future Moderator: S Parker J Bourland, S Parker, B Sintay	John R. Cameron Young Investigator Symposium Moderators: G Ezzell, K Brock	Therapy Educational Course Building a Successful Adaptive Radiotherapy Program Moderator: S Mutic O Green, R Kashani, Q Wu, D Low	Imaging Educational Course CT Intensive I: Radiology Lite Moderator: W Sensakovic G Wile, D Cody, M Mahesh	Practical Medical Physics Radiation Oncology Accreditation Programs Moderator: B Wang B Wang, M Chan, M Podgorsak, S Zhang, S Benedict	Therapy Educational Course Summary and Insights Into the TG-43U1S2 Report On Brachytherapy Dosimetry Moderator: M Rivard W Butler, F Ballester, M Rivard			
B 8:30–9:30	Therapy Educational Course Robustness for Radiation Therapy Treatment Plans Moderator: S Flampouri J Buchsbaum, A Yock, S Flampouri		Therapy Educational Course Automation and Standardization of Planning, Plan Evaluation and System Testing Through Advanced Programming in Treatment Planning System Moderator: B Cai L Court, B Archibald-Heeren, C Mayo, B Cai					Therapy Educational Course AAPM Task Group Initiatives On Electronic Brachytherapy Moderator: W Culbertson M Rivard, R Fulkerson, W Culbertson			
	KARL DEAN BALLROOM C										
C 10:15–12:15	President's Symposium Beyond the Future Moderator: B Thomadsen B Thomadsen, R Jeraj, P Brown										
	DAVIDSON BALLROOM A	ROOM 209	KARL DEAN BALLROOM A2	KARL DEAN BALLROOM A1	KARL DEAN BALLROOM B1	KARL DEAN BALLROOM C	ROOM 202	ROOM 205	ROOM 207	DAVIDSON BALLROOM B	DAVIDSON BALLROOM C
G 1:45–2:45	SAM Therapy Educational Course Clinical Implementation of Proton Beam Scanning Moderator: L Dong L Dong, M Pankuch, X Zhu	SAM Professional Symposium Ethics: Codes and Dilemmas Moderator: G Sherouse P Halvorsen, C Skourou	Innovation in Medical Physics Moderator: V Montemayor	SAM Therapy Scientific Symposium Outcomes Modeling (Tumor Control, Response Modeling, Clinical Decision Making) Moderator: J Deasy W Tome, M Thor, A Appelt	SAM Joint Imaging-Therapy Scientific Symposium WMIS/AAPM Joint Symposium: Imaging Immunity: Why and How? Moderator: J Hazle A Mukherjee, S Nimmagadda, J Welsh	NEW! Joint Imaging-Therapy Scientific Symposium MedPhys Slam Moderator: J Bayouth J Bayouth	SAM Imaging Scientific Symposium Structural and Functional Imaging Techniques Across Body Systems Moderator: W Zbijewski J Carrino, E McVeigh, P Vemuri, K Snyder	SAM Imaging Educational Course Display QC Moderator: M Vanderhoek N Bevins, A Walz-Flannigan, M Flynn	SAM Practical Medical Physics In Memoriam of Lynn Verhey: Clinical Physicists Must Know and Be Involved in Treatment Planning Moderator: P Xia B Curran, P Xia, C Chuang, K Langen, C Glide-Hurst	SAM Specialty Track Symposium Quantitative Imaging in the Era of Big Data and Precision Medicine The Translation of Quantitative Imaging to Clinical Research and Precision Medicine: Goals and Challenges Moderator: P Kinahan D Sullivan, M Giger, K Andriole, J Mulshine, P Kinahan, R Nordstrom	NEW! President's Workshop Generating Visions for the Path Forward Moderators: P Brown, B Thomadsen
H 2:45–3:45		SAM Professional Symposium Online Longitudinal Assessment (OLA) and the Evolution of the ABR Medical Physics Maintenance of Certification (MOC) Moderator: G Frey G Frey, J Allison, K Kanal									
K 4:30–6:00	Therapy Scientific Session Data Science: Applications in Radiation Therapy R Li, J Deng	SAM Professional Symposium Pursuit of Safe and Effective Imaging and Radiation Therapy/ Planning Products Moderator: J Palta C Zankowski, E Angel, W Simon, P Hope, W Jung, R Siochi, J Palta	SAM Therapy Educational Course Managing IT in Radiation Oncology: The Role of the Medical Physicist Moderator: B Curran R Siochi, W Feng, B Curran	SAM Therapy Scientific Symposium Proton Therapy and Verification Moderator: K Langen M Zhu, J Johnson, P Poulsen	SAM Joint Imaging-Therapy Scientific Symposium Image Guided Cancer Therapy Moderator: K Brock K Brock, C Chung, S Hetts, N Theodore	Joint Imaging-Therapy Scientific Session Advanced Computing Applications A Yock, J Wong	SAM Imaging Scientific Symposium Reconstruction Across Imaging Modalities Moderator: J Stayman B Sutton, G El Fakhri, J Stayman	SAM Imaging Educational Course MR Safety - Hybrid Environment Moderator: A Panda A Panda, R Stafford, A Doemer	SAM Practical Medical Physics Session in Memory of Phil Heintz: Patient Dose Calculations in Imaging - Fluoro, CT, and Fetal Moderator: K Kanal K Kanal, K Brown, W Sensakovic, S Brady	Specialty Track Symposium Quantitative Imaging in the Era of Big Data and Precision Medicine Quantitative Imaging: PET/CT, PET/MR, and MR Moderator: P Kinahan T Hope	

PROGRAM AT A GLANCE | TUESDAY, JULY 31

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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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Joint Imaging/Therapy Scienific

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Professional

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Practical Medical Physics

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Certificate Course

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Specialty Track:
Quantitative Imaging in
the Era of Big Data and
Precision Medicine

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President's Sessions of Note

EXHIBIT HALL ACTIVITIES

EXHIBIT HALL HOURS

9:00 am–5:00 pm

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

PARTNERS in SOLUTIONS

11:00 am–12:15 pm

DIAGNOSTIC

Fluoroscopy Dose Monitoring Systems

Moderator: N Brown

PinS Room | Hall D

POSTER VIEWING

9:30–11:00 am

EXPANDING HORIZONS

General Poster Area | Exhibit Hall D

9:30–11:00 am

GENERAL ePOSTER DISCUSSION

Imaging | Joint Imaging-Therapy | Therapy

ePoster Theaters

3:45–4:15 pm

ePOSTER CAMPUS

ePoster Theaters

Imaging:

Reconstruction, Noise Reduction,

and Dosimetry

Provost: A Karellas



Joint Imaging-Therapy:

Novel Computing

Applications in Imaging and Therapy

Provost: I El Naqa

Therapy:

Dose and Delivery in Photon and

Particle Therapy

Provost: N Papanikolaou

AAPM NIGHT OUT

6:30–10:00 pm

Country Music Hall of Fame

	DAVIDSON BALLROOM A	ROOM 209	KARL DEAN BALLROOM A2	KARL DEAN BALLROOM A1	KARL DEAN BALLROOM B1	KARL DEAN BALLROOM C	ROOM 202	ROOM 205	ROOM 207	DAVIDSON BALLROOM B
A 7:30–8:30	SAM Therapy Educational Course Automation in Radiotherapy - Fasten Your Seatbelt! Moderator: M Cao M Cao, C Shi, K Younge	SAM Professional Symposium MPPGs and Their Impact On Clinical Practice Moderator: P Halvorsen P Halvorsen, T Fisher, A Mayville, D Stevens, R Krauss	SAM Practical Medical Physics Statistical Failings: The Shadow Still Hiding Clinical Truth Moderator: D Schlesinger D Schlesinger, J Chang, W Sensakovic, J Sloan	SAM Therapy Scientific Symposium Quality Assurance for Precision Radiation Therapy Moderator: B Han R Wiersma, J Moran, B Han	SAM Imaging Educational Course Advanced MRI in the Clinic Moderator: H Liu X Zhou, Y Jung, H Liu, S Einstein	Joint Imaging-Therapy Scientific Symposium Longitudinal Imaging in Radiation Therapy Moderator: J Buatti J Buatti, R Li, J Bayouth, A Fedorov, H Shu	Imaging Scientific Session Breast Imaging A Maidment, S Vedantham	Joint Imaging-Therapy Scientific Session X-Ray Based Imaging for Therapy Guidance H Li, J Adamson	SAM Imaging Educational Course CT Intensive II: Dose Monitoring Hands-On Workshop Moderator: I Reiser W Sensakovic, I Reiser, L Schoenhofer, C Hohenberger, D Miller, N Fitousi, J Heil, P Shen	SAM Specialty Track Symposium Quantitative Imaging in the Era of Big Data and Precision Medicine Quantitative Imaging: Translation to Practice Moderator: P Kinahan Y Xiao, R Jeraj
B 8:30–9:30	SAM Therapy Educational Course Halt and Catch Fire: Worst Software Programming Failures And Tips To Avoid Them Moderator: R Popple R Popple, R Cardan, C Anderson				SAM Joint Imaging-Therapy Scientific Symposium Advanced MRI: Novel Applications for Radiation Oncology Moderator: C Glide-Hurst C Glide-Hurst, E Paulson, K Sheng					
D 11:00–12:15	SAM Professional Symposium International Symposium: A Global Perspective: Radiation Effects in Radiology and Nuclear Medicine Moderator: E Lief E Lief, J Damilakis, V Tsapaki, C Borrás, D Bailey	SAM Professional Symposium Exploring Collaboration with Industry and the Physicist in the Clinic Moderator: S Tripathi S Tripathi, F Rath, M Herman, B Thomadsen	SAM Therapy Educational Course The Anne and Donald Herbert Distinguished Lectureship in Modern Statistical Modeling Moderator: C Orton A Vickers, J Deasy	Therapy Scientific Session SBRT/SRS J Burmeister, Y Wu	Joint Imaging-Therapy Scientific Session Imaging for Particle Therapy T Solberg, B Teo	SAM Joint Imaging-Therapy Scientific Symposium Mathematical Modeling in Cancer Therapy Moderator: C Grassberger C Grassberger, V Cristini, G Cazoulat	Imaging Scientific Session Nuclear Medicine Z Qi, A Rahmim	SAM Imaging Educational Course New PET Instrumentation and Technology Moderator: O Mawlawi J Zhang, O Mawlawi, D Osborne	SAM Practical Medical Physics AIP Science Communication Award, "Strange Glow: The Story of Radiation" Moderator: T Fisher T Jorgensen	Specialty Track Symposium Quantitative Imaging in the Era of Big Data and Precision Medicine Quantitative Imaging: Ultrasound, CT, and PET/CT Applications Moderator: E Jackson B Garra
F 1:45–3:30	EDUCATIONAL TOPIC-SPECIFIC GUIDED TOURS (Limited Tour Capacity) <i>Due to the need to limit the capacity of each tour, participation will be first come/first served. Individuals interested in participating should plan accordingly.</i> Imaging: CT Protocol Management and Distribution Tools Room 201A • Therapy: Surface Image Guided Radiotherapy Monitoring Systems Room 201B									
G 1:45–2:45	SAM Therapy Educational Course Optimizing Efficiency and Safety of Radiation Therapy Process Moderator: W Feng W Feng, J Chang	SAM Professional Symposium Role of the Diagnostic Physicist Moderator: E Samei E Samei, W West	SAM Therapy Scientific Symposium Hiding the Complexity in Treatment Planning/ Automation Moderator: K Moore B Wu, M Matuszak, K Moore, A Cuadra	Therapy Scientific Session Radiobiology: Experiments and Modeling D Carlson, D Ruan	SAM Imaging Educational Course Physics of Diffusion Weighted Imaging Moderator: R Stafford R Stafford, K Hwang, N Yanasak	Joint Imaging-Therapy Scientific Session SCIENCE COUNCIL SESSION: Advances in Imaging Technology G Chen, I Sechopoulos	SAM Imaging Scientific Symposium Advances in Novel Prototype Imaging Systems Moderator: K Li M Bernstein, J Karp, K Li, W Zbijewski	SAM Imaging Educational Course Breast Imaging and Interventions Moderator: Z Lu P Carson, A Alizad, I Reiser	SAM Practical Medical Physics AAPM-COG Joint Session Moderator: B Thomadsen J Kalapurakal, C Hua, S Brady, A Olch, K Ulin	SAM Specialty Track Symposium Quantitative Imaging in the Era of Big Data and Precision Medicine Quantitative Imaging in Radiomics and Machine Learning Moderator: E Jackson M Tilkin, C Mayo, J Deasy, R Gillies, B Erickson
H 2:45–3:45	SAM Therapy Educational Course Changing Paradigms for Linac QA Using EPIDs and Beyond Moderators: B Cai, J Moran B McCurdy, B Cai, T Pawlicki	Professional Symposium Mentoring Within AAPM: Lessons and Opportunities - SCAMP Update Moderator: R Jeraj R Jeraj, C Peeler, E Ford, B Whelan			SAM Joint Imaging-Therapy Scientific Symposium Advanced DWI: Applications for Radiation Oncology Moderator: J Ma J Ma, Y Yang, N Wen					
K 4:30–6:00	Therapy Scientific Session Investigative Technologies for Radiation Therapy X Jia, K Sheng	Professional Symposium New Member Symposium: New Initiatives for AAPM Moderator: K Mittauer K Mittauer, B Thomadsen, J Palta, J Dobbins, D Pavord, K Brock	SAM Therapy Educational Course Imaging in Proton Therapy Moderator: B Winey J Kruse, B Winey, J Polf	SAM Joint Imaging-Therapy Scientific Symposium Applications in Deep Learning in Imaging and Therapy Moderator: L Xing B Erickson, B Ibragimov, M Giger	SAM Joint Imaging-Therapy Scientific Symposium Multi-Modality ART (Protons, MRI, PET) Moderator: G Hugo P Parikh, G Hugo, B Teo, D Yan	Therapy Scientific Session Dose Calculation, Delivery and Measurement Techniques J Wang, M Chao	Imaging Scientific Session Computed Tomography I G Chen, B Chen	SAM Imaging Educational Course ACR Updates - CT, MR, NM/PET & US Moderator: C Dillon E Ritenour, D Reeve, B Harkness, C Dillon	Imaging Scientific Session Multimodality, Optical Imaging, and Ultrasound R Bouchard, B Pogue	Specialty Track Symposium Quantitative Imaging in the Era of Big Data and Precision Medicine Quantitative Imaging: CT and MRI Moderator: E Jackson M McNitt-Gray, E Jackson

PROGRAM AT A GLANCE | WEDNESDAY, AUGUST 1

■ Imaging Education

■ Imaging Scientific

■ Therapy Education

■ Therapy Scientific

■ Joint Imaging/Therapy Scienific

■ Professional

■ Practical Medical Physics

■ Certificate Course

■ Specialty Track: Quantitative Imaging in the Era of Big Data and Precision Medicine

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President's Sessions of Note

EXHIBIT HALL ACTIVITIES

EXHIBIT HALL HOURS

9:00 am–2:00 pm

BREAKS

9:30–10:15 am

9:30–11:00 am

12:15–1:45 pm

Coffee Break

Visit the Vendors

Lunch Break + Visit the Technical Exhibits

[NOTE: Posters close at 12:15 pm and Exhibits close at 2:00 pm]

POSTER VIEWING

9:30–11:00 am

GENERAL ePOSTER DISCUSSION

Imaging | Joint Imaging-Therapy | Therapy Lounge Area & ePoster Theaters

PARTNERS in SOLUTIONS

10:15 am–12:00 pm

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THERAPY

Intelligent Automation for Treatment Planning Workflows

Moderator: D Schofield

PinS Room | Hall D

	DAVIDSON BALLROOM A	ROOM 209	KARL DEAN BALLROOM A2	KARL DEAN BALLROOM A1	KARL DEAN BALLROOM B1	KARL DEAN BALLROOM C	ROOM 202	ROOM 205	ROOM 207	DAVIDSON BALLROOM B
A 7:30–8:25	Therapy Scientific Session Brachytherapy and Radionuclide Therapy Y Kim, L Young	SAM Professional Symposium An Orchestra: Project Management in Motion Moderator: R Miller J Limmer, D Jordan, J Johnson, C Duruz, R Miller	SAM Practical Medical Physics Quality Improvement and Safety Applications of Surface Imaging Moderator: H Al-Hallaq, A Gutierrez, H Zhao, D Wiant, L Padilla, M Talhamer	SAM Therapy Scientific Symposium Brachy (IMBT, Robotic, MR Guidance) Moderator: B Fahimian F Mourtada, R Flynn, T Podder, L Beaulieu	Joint Imaging-Therapy Scientific Session Novel Imaging Modalities and Applications H Rottmann, F Van den Heuvel	Joint Imaging-Therapy Scientific Session Longitudinal and Functional Imaging C Coolens, D Pafundi	Imaging Scientific Session Magnetic Resonance Imaging Y Zhou, R Stafford	SAM Imaging Educational Course CT Intensive III: Protocol Development and Optimization Moderator: S McKenney T Szczykutowicz, L Yu, S McKenney, W Sensakovic	Professional Symposium ABR Exam Prep: Radiation Therapy Part 2 & 3 Moderator: M Hurwitz S Yan, O Dawood, M Hurwitz	SAM Joint Imaging-Therapy Scientific Symposium Certificate of Completion Course Introduction to Radiomics Moderator: L Court L Court, X Fave, S Zhou
B 8:30–9:30										
D 10:15–11:50	EDUCATIONAL TOPIC-SPECIFIC GUIDED TOURS (Limited Tour Capacity) Due to the need to limit the capacity of each tour, participation will be first come/first served. Individuals interested in participating should plan accordingly. Imaging: CT Protocol Management and Distribution Tools Room 201A • Therapy: Surface Image Guided Radiotherapy Monitoring Systems Room 201B									
F 10:15–11:15	Therapy Scientific Session Knowledge-based Treatment Planning Y Yang, M Zarepisheh	SAM Professional Symposium Workforce Supply/ Demand Into The Future Moderators: W Newhauser, M Martin W Newhauser, M Mills, D Gress, M Martin, C Borras	SAM Therapy Educational Course Joint AAPM-ESTRO Symposium: Automated Treatment Planning in Clinical Practice Moderator: N Jorinet C Hansen, B Heijmen, M Hussein, K Sheng	Therapy Scientific Session New QA and Dosimetry Techniques J Seuntjens, B Wu	Joint Imaging-Therapy Scientific Session MRI Guided Radiation Therapy J Bayouth, B Raaymakers	Joint-Imaging Therapy Scientific Symposium AAPM Grand Challenges Symposium: Image Reconstruction for 4D-CBCT Moderators: S Armato S Armato, C Shieh, K Farahani	SAM Imaging Scientific Symposium In Memoriam of James G. Kereiakes: Designing Pediatric Imaging to Achieve the Best Benefit/Risk for Our Patients Moderator: K Strauss S Thomas, L Wagner, S Brady, F Fahey, K Strauss	SAM Imaging Educational Course CT Intensive IV: Regulatory Requirements Moderator: T Szczykutowicz A Browne, C Dillon, A Scott, R Layman	Imaging Scientific Session Computed Tomography II D Cody, J Stayman	SAM Joint Imaging-Therapy Scientific Symposium Certificate of Completion Course Machine Learning for Radiomics Moderator: H Aerts C Cardenas, A Hosny
G 11:15–12:15		SAM Professional Symposium Breaking Out of the Clinic: Nontraditional Medical Physics Careers Moderators: S Einstein, H Nusrat A Cohen, P Naine, S Gabriel, S Einstein								
H 1:45–2:45	Therapy Scientific Session Particle Therapy Optimization and Planning G Ding, P Maxim	SAM Professional Symposium Prospective Risk Management in the Wild: Tales From the Clinic Moderators: J O'Daniel K Younge, B Schuller, J O'Daniel	SAM Therapy Educational Course Session in Memory of Martin L. Rozenfeld, PhD: Personalized Electron Beam Therapy using Custom Treatment Devices Moderator: J Antolak J Antolak, J Kavanaugh	SAM Therapy Scientific Symposium Roles of RT in Immunotherapy Moderator: M Ahmed A Monjazeb, M Ahmed, C Grassberger	Joint Imaging-Therapy Scientific Session Tracking and Motion Management G Hugo, H Al-Hallaq	SAM Joint Imaging-Therapy Scientific Symposium NIH Grants in Imaging and Radiation Therapy: What's New, How to Get and Manage One Moderator: K Farahani K Farahani, C Obcemea, A Sawant, C Glide-Hurst	SAM Imaging Scientific Symposium Multi-Energy and Multi-Contrast CT Imaging Moderator: S Leng D Sahani, L Yu, K Taguchi, D Cormode	SAM Imaging Educational Course Methods, Mishaps and Musings on Pediatric Theranostics Moderator: C Dodge J Pořton, S Brady, W Erwin	SAM Practical Medical Physics Imaging Artifacts - CT, MRI, and Mammography Moderator: T Szczykutowicz T Szczykutowicz, R Stafford, W Geiser	SAM Joint Imaging-Therapy Scientific Symposium Certificate of Completion Course Convolutional Neural Nets Moderator: A Hosny A Hosny, A Rao
I 2:45–3:45		SAM Professional Symposium Discharging the Bias: Recognizing and Addressing Unconscious Bias in the Workplace Moderator: L Cervino L Cervino, I Chetty, M Giger, K Hendrickson, J Pollard-Larkin, J Moran								
J 4:30–6:00	History Symposium History of Calibration Protocols and Laboratories Moderator: M Gossman P Almond, L DeWerd	Professional Symposium Writing and Reviewing Papers for Medical Physics and JACMP Moderator: B Aydogan B Aydogan, J Williamson, M Goodsitt, S Das, M Mills	SAM Therapy Educational Course Monte Carlo Dose Calculation and Review of TG157 Moderators: I Chetty, C Ma I Chetty, C Ma	Therapy Scientific Session Patient Safety and Quality Improvement S Kry, E Schreibmann	SAM Joint Imaging-Therapy Scientific Symposium Novel Molecular Imaging Techniques to Personalize Cancer Treatment Moderator: C Hruska D Mankoff, Y Watanabe, S Achilafu	Joint Imaging-Therapy Scientific Session QA for Advanced Imaging Applications R Howell, B Winey	SAM Imaging Scientific Symposium 3D Printing Moderator: F Rybicki F Rybicki, C Ionita, S Leng	SAM Imaging Educational Course Radiation Dose and Image Quality in Fluoroscopy: Part 1 Moderators: A Jones, J Dave S Balter, J Jans, M Lendl	Therapy Scientific Session Treatment Planning and Machine Learning L Hibbard, P Dong	Joint Imaging-Therapy Scientific Symposium Certificate of Completion Course Deep Learning Lab Moderator: J Layton J Layton, M Hill

PROGRAM AT A GLANCE | THURSDAY, AUGUST 2

- Imaging Education
- Imaging Scientific
- Therapy Education
- Therapy Scientific
- Joint Imaging/Therapy Scienific
- Professional
- Practical Medical Physics
- Certificate Course
- Specialty Track: Quantitative Imaging in the Era of Big Data and Precision Medicine
- President's Sessions of Note

REFRESHMENT BREAKS

- 9:30–10:00 am

Coffee Break
Level 2 Foyer and Karl Dean Ballroom Foyer, Level 4
- 12:00–12:50 pm

Boxed Lunch
Level 2 Foyer and Karl Dean Ballroom Foyer, Level 4

CLOSE OF MEETING

See you next year in San Antonio, TX | July 14–18, 2019

	DAVIDSON BALLROOM A	ROOM 209	KARL DEAN BALLROOM A2	KARL DEAN BALLROOM A1	KARL DEAN BALLROOM B1	KARL DEAN BALLROOM C	ROOM 202	ROOM 205	ROOM 207	DAVIDSON BALLROOM B
A 7:30–8:30	Therapy Scientific Session Treatment Implications of Motion Management S Mutic, B Bednarz	Professional Symposium The Vision and Components of Medical Physics 3.0 Practice Moderators: D Jordan, T Atwood D Jordan, T Atwood	SAM Therapy Educational Course Hands-On Solutions to Every Day Teaching Challenges in Medical Physics: Panel Discussion Moderator: M Porras-Chaverri M Porras-Chaverri, L Salkowsky, L Padilla	Therapy Scientific Session Novel Treatment Delivery and Verification Strategies I Brezovich, B Cai	SAM Joint Imaging-Therapy Scientific Symposium Point/Counterpoint Live Debate: Artificial Intelligence Will Soon Change the Landscape of Medical Physics Research and Practice Moderators: J Cai, L Xing, E Krupinski J Cai, L Xing, E Krupinski	Joint Imaging-Therapy Scientific Session Adaptive Radiation Therapy I Chetty, X Li	Imaging Scientific Session Multienergy Computed Tomography K Taguchi, X Duan	SAM Imaging Educational Course Radiation Dose and Image Quality in Fluoroscopy: Part 2 Moderators: J Dave, A Jones A Kuhls-Gilcrist, A Rebet , J Dave, A Jones, A Goode	SAM Practical Medical Physics High Dose, Small Field Radiation Therapy: Lessons from the HyTEC Project and the ICRU 91 Report Moderators: E Yorke, J Grimm J Seuntjens, G Ding, L Marks, L Ma, S Benedict, E Yorke	Joint Imaging-Therapy Scientific Session Certificate of Completion Course Radiomics J Deasy, D Mackin
B 8:30–9:30			SAM Therapy Educational Course An Interactive Session to Share Education Ideas: How Do You Teach Quality and Safety to Residents? Moderator: K Hendrickson E Ford, C Buckley, K Hendrickson							
C 10:00–11:00	Therapy Scientific Session Radiation Dosimetry and Quality Assurance G Mageras, D Ruan	Professional Symposium Cover Your Assets: My Employer Has My Back (Right?) Moderators: D Jordan D Jordan, R Shaw	SAM Therapy Educational Course Motion Management in SBRT: Principles, Advances and Clinical Implementations Moderator: L Ren, S Benedict Y Rong, L Ren, P Keall	SAM Therapy Scientific Symposium Errors and Data Mining in EMR Moderator: E Ford E Ford, S Terezakis, S Weintraub	SAM Joint Imaging-Therapy Scientific Symposium Beyond Conventional CT Simulation: PET-CT, PET-MR, MR-Only, and Multi-Energy CT Moderator: N Tyagi N Tyagi, E Graves, G El Fakhri, A Megibow	Joint Imaging-Therapy Scientific Session Registration and Segmentation S Das, J Williamson	Imaging Scientific Session CT Dose E Samei, S Leng	SAM Imaging Educational Course Physics Testing Gamma Cameras and PET Scanners: Reports from TG 117 and TG 126 Moderator: J Halama J Halama, O Mawlawi	Imaging Scientific Session Radiography and Fluoroscopy W Zhao, I Reiser	SAM Joint Imaging-Therapy Scientific Symposium Certificate of Completion Course Deep Learning with Medical Images Moderator: C Parmar C Parmar, R Zeleznik
D 11:00–12:00		Professional Symposium Is That Big Bang a \$2 Million Lawsuit? Moderator: D Jordan D Jordan, B Wehrle	SAM Therapy Educational Course Management of Irregular Respiration in 4DCT Moderator: T Pan T Pan, D Low							
	ROOM 209		KARL DEAN BALLROOM A2	KARL DEAN BALLROOM A1	KARL DEAN BALLROOM B1		ROOM 202			
E 1:00–2:00	SAM Professional Symposium Planning for Uncertainty: Disaster Recovery and Business Continuity Planning Moderators: J Johnson J Johnson, B Parker, D Cody		SAM Therapy Educational Course Technical and Professional Preparations for Medical Physicists in the Upcoming MRgRT Era Moderator: J Cai O Craciunescu, J Cai, C Glide-Hurst, Y Yang	Therapy Scientific Session Monte Carlo Simulation and High Performance Computing W Liu	Joint Imaging-Therapy Scientific Session MRI in Treatment Planning S Nejad-Davarani, J Wang		Imaging Scientific Session Cone-beam Computed Tomography X Pan, G Gang			
F 2:00–3:00			SAM Therapy Educational Course Experimental and Computational Dosimetry for MRgRT Moderator: H Li G Sawakuchi, H Li, D Yang							