

- Imaging Education

■ Imaging Scientific

■ Therapy Education

■ Therapy Scientific
- Multi-Disciplinary Scientific

■ Professional

■ Specialty Program


 President's Sessions of Note

EXHIBIT HALL ACTIVITIES

12:30 PM – 5:00 PM	EXHIBIT HALL HOURS GENERAL EPOSTER VIEWING (GePV) Viewable during Exhibit Hall Hours ePoster Forums 1 – 9 & Online
12:30 PM – 1:00 PM 3:00 PM – 4:00 PM	BREAKS Refreshment Breaks
12:30 PM – 2:00 PM	RESIDENCY FAIR: PART I
2:30 PM – 4:00 PM	RESIDENCY FAIR: PART II
2:30 PM – 3:00 PM	VENDOR SHOWCASES Therapanacea Moderator Speaker: R McBeth Innovation Room 2
3:15 PM – 3:45 PM	Sun Nuclear, a Mirion Medical Company Moderator Speaker: D Barbee Innovation Room 2
3:00 PM – 4:00 PM	BEST IN PHYSICS (BIP) ePoster Theater Presenting Authors available 3:30 – 4:00 pm
3:00 PM – 3:30 PM 3:30 PM – 4:00 PM 4:00 PM – 4:30 PM	INTERACTIVE ePOSTER DISCUSSION (IePD) Forums 4 – 9 Imaging Multi-Disciplinary Therapy
4:00 PM – 5:00 PM	BLUE RIBBON ePOSTER (BReP) ePoster Theater Imaging Multi-Disciplinary Therapy

PROGRAM AT A GLANCE | SUNDAY, JULY 23

8:30 AM – 9:30 AM	Council Symposia: International Council Symposium: Global Medical Physics Activities: Where should we put our emphasis; Research, Capacity Building, or Clinical Practice? Moderator: R Jeraj Speakers: S Avery, R Jeraj, A Yorke Room 342						
8:30 AM – 10:30 AM	Students and Trainees: 2023 Annual Student Meeting: Developing Leadership as a Trainee Moderators: Y Chang, K Huang Speakers: M Martel, J Paisley, C Zankowski Room 360						
9:30 AM – 10:30 AM	Council Symposia: Education Council Symposium: A Summary on Recently Published Education Council Reports Moderator: J Prisciandaro Speakers: J Burmeister, N Papanikolaou, J Prisciandaro Room 342						
10:30 AM – 11:30 AM	Council Symposia Joint Council Symposium: C is for Compassion Moderator: J Prisciandaro Speakers: T Atwood, T Mackie, W Ngwa, J Vadas Room 342						
11:30 AM – 12:30 PM	Council Symposia Professional Council Symposium: How Every Scientist can Improve Communication by Looking to the Performing Arts Moderator: R Milman Speakers: R Milman, L Milman Schmidt Room 342						
	ROOM 361	ROOM 342	ROOM 351	ROOM 360	ROOM 362	ROOM 371	ROOM 372
1:00 PM – 2:00 PM	Multi-Disciplinary SNAP Oral IGRT Tracking and Monitoring Moderators: L Smith, B Winey	Therapy SNAP Oral Nanomedicine, Radionuclide and Immunotherapy Moderators: R Berbeco, Y Lin	Imaging SNAP Oral MRI Moderators: T Andrews, C Morrison	Data Science Specialty Program SNAP Oral AI in Imaging Moderators: F Yin, J Fuhrman	Therapy SNAP Oral Advanced Treatment Planning and Automation Moderators: W Liu, W Yang	Imaging SNAP Oral X-Ray CT Moderators: E Sidky, I Barreto	Therapy SNAP Oral Proton Flash Dosimetry and QA Moderators: Z Xiao, P Bruza
2:00 PM – 3:00 PM	Multi-Disciplinary SNAP Oral CBCT-Guided Radiotherapy Moderators: J Wang, I Vergalasova	Multi-Disciplinary SNAP Oral Adaptive Radiotherapy Pipelines Moderators: J Pursley, A Yock	Imaging SNAP Oral Optical Imaging and Emerging Technologies Moderators: B Pogue, R Lamoureux	Data Science Specialty Program SNAP Oral AI in Radiation Therapy Moderators: L Court, J Roeske	Therapy SNAP Oral Image-and Biology-Guided RT Moderators: Y Hao, M Matuszak	Imaging SNAP Oral X-Ray Radiography, Tomosynthesis and Dosimetry Moderators: A Jones, D Carver	Therapy SNAP Oral Translational Electron Flash Moderators: J Andreozzi, E Schueler
4:00 PM – 5:00 PM	Multi-Disciplinary SNAP Oral Imaging in Treatment Planning and Assessment Moderators: K Parodi, A Lalonde	Therapy SNAP Oral Advances in Quality Improvement and Dosimetry Metrology Moderators: S Jain, J Harms	Imaging SNAP Oral Cone-Beam CT Moderators: A Hernandez, L Conroy	Data Science Specialty Program SNAP Oral Segmentation and Radiomics Moderators: J Deasy, C Mayo	MedPhys Slam Moderators: K Bittinger, E Carpentier	Imaging SNAP Oral Nuclear Medicine Moderators: W Erwin, S Einstein	Therapy Scientific Symposium Nanoparticle in RT Moderator: R Berbeco Speakers: S Bennett, S Lacombe, J Welsh
5:00 PM – 6:00 PM	Multi-Disciplinary SNAP Oral Imaging for Segmentation, Registration, and Verification Moderators: S O'Reilly, M Gardner	Multi-Disciplinary SNAP Oral MRI-Guided Radiotherapy Moderators: E Omari, J Fu	Imaging SNAP Oral Image Analysis, Radiomics and Modeling Moderators: X Yang, M Lin	Ultrasound Specialty Program SNAP Oral All Things Ultrasound! Moderators: K Bader, Z Long		Professional SNAP Oral Medical Physicists Succeeding While Facing Challenges in Clinical and Professional Practice in a Changing World Moderator: C Hampton	Therapy SNAP Oral Radio-Chemistry and Biology Moderators: G Pratx, R Hachadorian

PROGRAM AT A GLANCE | MONDAY, JULY 24

EXHIBIT HALL ACTIVITIES

9:00 AM – 5:00 PM **EXHIBIT HALL HOURS**

GENERAL EPOSTER VIEWING (GePV)

Viewable during Exhibit Hall Hours
ePoster Forums 1 – 9 & Online

BREAKS

Refreshment Breaks

9:30 AM – 10:15 AM **Refreshment Breaks**

3:45 PM – 4:30 PM

12:15 PM – 1:45 PM **Lunch Break + Visit the Technical Exhibits**

VENDOR SHOWCASES

MIM Software, Inc.

Moderator | Speaker: K Kiffner
Innovation Room 2

12:15 PM – 1:15 PM **GE Healthcare**

GE Healthcare

Moderators: B Yanoff, N Buls,
A Pourmorteza
Speakers: B Yanoff, N Buls, A Pourmorteza
Innovation Room 2

1:45 PM – 2:15 PM **IBA**

IBA

Moderator | Speaker: K Sukumar
Innovation Room 2

2:30 PM – 2:40 PM **Ashland**

Ashland

Moderator | Speaker: R Aydin
Innovation Room 2

2:50 PM – 3:00 PM **GammaTile**

GammaTile

Moderator | Speaker: A Turner
Innovation Room 2

4:00 PM – 4:30 PM **GE Healthcare**

GE Healthcare

Moderator | Speaker: M Persson
Innovation Room 2

9:30 AM – 10:00 AM **BEST OF PROFESSIONAL**

BEST OF PROFESSIONAL

1:15 PM – 1:45 PM **ePoster Theater – Forum 1**

ePoster Theater – Forum 1
Presenting Authors available

9:30 AM – 10:00 AM **INTERACTIVE ePOSTER DISCUSSION**

INTERACTIVE ePOSTER DISCUSSION

1:15 PM – 1:45 PM **Forums 1 – 9**

Forums 1 – 9

3:45 PM – 4:15 PM

1:45 PM – 3:45 PM **PinS**

PinS

Artificial Intelligence-Based Automatic Segmentation: Current State-of-Affairs and Future Directions

Moderator: C Cardenas

Speakers: X Feng, M Gerace, F Mourtada,
S Torres, S Wang

Innovation Room 1

4:30 PM – 5:30 PM **BLUE RIBBON ePOSTER**

BLUE RIBBON ePOSTER

ePoster Theater

Imaging | Multi-Disciplinary | Therapy

	ROOM 361	ROOM 342	ROOM 351	ROOM 360	ROOM 362	ROOM 371	ROOM 372
7:30 AM–8:25 AM	<div>Imaging Scientific Symposium</div> <div>Cone Beam CT: Interventional and Specialty Applications</div> <div>Moderator: O Dillon</div> <div>Speakers: O Dillon, R Fahrig, G Gang, J Maier</div>	<div>Multi-Disciplinary Scientific Symposium</div> <div>Functional Lung Sparing Radiotherapy Clinical Trials: Outcomes and Future Concepts</div> <div>Moderators: H Byrne, E Vicente</div> <div>Speakers: H Byrne, B Tahir, E Vicente, T Yamamoto</div>	<div>Imaging Educational Course</div> <div>ACR Update</div> <div>Moderator: D Gress</div> <div>Speakers: I Barreto, D Gress, K Hulme, T Ruckdeschel, R Stafford</div>	<div>Data Science Specialty Symposium</div> <div>The Anne and Donald Herbert Distinguished Lectureship in Modern Statistical Modeling</div> <div>Moderator: M Giger</div> <div>Speaker: K Myers</div>	<div>Therapy Educational Course</div> <div>Current Status and Future Directions in Photon and Proton Adaptive Therapy</div> <div>Moderators: M Lin, G Hugo</div> <div>Speakers: L Cervino, H Lin, D Parsons, T Zhao</div>	<div>Professional Symposium</div> <div>From Couch to Committee: Joining, Leading, and Thriving with Life-Work Balance</div> <div>Moderators: C Foote, C Stambaugh</div> <div>Speakers: A Cetnar, F Fahey, C Foote, S Simiele, C Stambaugh, P Taylor</div>	<div>Therapy Scientific Symposium</div> <div>Joint AAPM-ESTRO Symposium: Big Data Big Trouble</div> <div>Moderator: J Palta</div> <div>Speakers: C Chung, L Conroy, R Kapoor, G Price, A Traverso</div>
8:35 AM – 9:30 AM	<div>Imaging Scientific Symposium</div> <div>PET/MR - Research Opportunities and Clinical Potential</div> <div>Moderator: H Mao</div> <div>Speakers: L Hu, H Mao, X Yang</div>	<div>Multi-Disciplinary Scientific Symposium</div> <div>Next-Generation Optical Image-Guided Interventions in Radiation Oncology</div> <div>Moderator: R Zhang</div> <div>Speakers: P Bruza, C Lin, T Pawlicki, B Pogue</div>		<div>Data Science Specialty Symposium</div> <div>Breast AI</div> <div>Moderator: M Giger</div> <div>Speakers: H Chan, M Giger, R Nishikawa</div>		<div>Professional Symposium</div> <div>Getting Engaged in AAPM Science Council Activities</div> <div>Moderators: J Moran, C Njeh</div> <div>Speakers: Z Lu, D Mihaillidis, J Moran, I Sechopoulos</div>	
10:15 AM – 12:15 PM	<div>President's Symposium: The Art of Science, the Science of Care</div> <div>Moderator: E Samei Speakers: S Garber, R Gunderman, E Martínez Celaya, K Myers, E Samei Assembly BC</div>						
1:45 PM – 2:40 PM	<div>Education Session</div> <div>Arthur Boyer Award for Innovation in Medical Physics Education</div> <div>Moderator: V Montemayor</div>	<div>Early-Career Investigator Symposium</div> <div>John R. Cameron Early-Career Investigator Symposium</div> <div>Moderators: E Ritenour, M Podgorsak</div>	<div>Imaging Educational Course</div> <div>Creating Vendor Relationships for Pediatric Fluoroscopy Guided Interventional (FGI) Applications</div> <div>Moderators: T Tran, S Brady</div> <div>Speakers: A Bessou, J Jans, A Kuhls-Gilcrist, M Lendl, K Strauss</div>	<div>Ultrasound Specialty Symposium</div> <div>Zagzebski-Carson Lectureship on Medical Ultrasound</div> <div>Moderators: Z Long, K Bader</div> <div>Speaker: J Wiskin</div>	<div>Therapy Educational Course</div> <div>A Clinical Perspective on the Evolution and Challenges of TBI</div> <div>Moderators: T Wu, P Rassiah-Szegedi</div> <div>Speakers: J Burmeister, X Gu, J Kunz</div>	<div>Professional Symposium</div> <div>How to Communicate Effectively with a Multidisciplinary Team</div> <div>Moderators: P Johnson, C Buckley</div> <div>Speakers: L Fong de los Santos, D Hyer, P Johnson, S Parkerr</div>	<div>Imaging Educational Course</div> <div>QC Performance Updates of ACR NM & PET QC Manuals: What, When, and How?</div> <div>Moderator: J Zhang</div> <div>Speakers: R Barbee, M Georgiou, M Palmer, J Zhang</div>
2:50 PM – 3:45 PM				<div>Ultrasound Specialty Symposium</div> <div>AI in Ultrasound Imaging</div> <div>Moderator: M Holland</div> <div>Speakers: B Byram, T Liu</div>			
3:45 PM – 4:45 PM	<div>President Symposium Fireside Chat</div> <div>Moderator: Ehsan Samei Room 340</div>						
4:30 PM – 6:00 PM	<div>Imaging Scientific Symposium</div> <div>Novel X-Ray Sources</div> <div>Moderator: R Fahrig</div> <div>Speakers: J Boone, R Fahrig, B Gonzales, H Hertz, P Schwoebel, E Silver</div>	<div>Therapy Scientific Session</div> <div>Electron Flash Therapy</div> <div>Moderators: R Zhang, A Cetnar</div>	<div>Imaging Educational Course</div> <div>The Emerging Role of Medical Physics in Surgery</div> <div>Moderators: J Siewerdsen, A Jones</div> <div>Speakers: J Bird, L Eberlin, T Mackie, J Siewerdsen</div>	<div>Ultrasound Specialty Symposium</div> <div>Focused Ultrasound With Microbubbles for Therapeutic Effects</div> <div>Moderator: K Hoyt</div> <div>Speakers: F Forsberg, S Sirsi, J Szablowski</div>	<div>Therapy Educational Course</div> <div>Innovations in Adult and Pediatric Clinical Trials</div> <div>Moderators: K Smith, S Flampouri</div> <div>Speakers: C Grassberger, K Smith, L Tchelebi, Y Xiao</div>	<div>Professional Symposium</div> <div>16 Years of the AAPM DREAM Fellowship</div> <div>Moderators: R Castillo, A Johnson</div> <div>Speakers: M Giger, L Ikejimba, A Perez-Andujar, J Rivera</div>	<div>Therapy Scientific Symposium</div> <div>Session in Memory of Arthur Lucas, Sc.D.: Time Is of the Essence: Advances in Online Adaptive Radiation Therapy</div> <div>Moderators: W Liu, C Glide-Hurst</div> <div>Speakers: A Francesca, C Glide-Hurst, N Kovalchuk, W Liu</div>
6:30 PM – 9:00 PM	<div>Awards and Honors Ceremony: Houston Ballroom 1-4; Followed by Wine & Cheese Reception: Houston Ballroom 5-7 Marriott Marquis Houston Hotel (Meeting Level 2)</div> <div>[Wear your badge for entry scanning]</div>						

PROGRAM AT A GLANCE | TUESDAY, JULY 25

EXHIBIT HALL ACTIVITIES

9:00 AM – 6:00 PM	EXHIBIT HALL HOURS
9:30 AM – 10:15 AM 12:15 PM – 1:45 PM 3:45 PM – 6:00 PM	BREAKS Refreshment Break Lunch On Your Own + Visit the Technical Exhibits Meet the Vendors Reception NEW! <i>Sponsored by Sun Nuclear, a Mirion Medical Company (Refreshment Break, ePosters and Technical Exhibits)</i>
9:30 AM – 10:00 AM 10:00 AM – 10:30 AM 10:30 AM – 11:00 AM 1:15 PM – 1:45 PM 3:45 PM – 4:15 PM	INTERACTIVE ePOSTER DISCUSSION Forums 1 – 9
9:30 AM – 10:30 AM	EXPANDING HORIZONS Forum 1
10:15 AM – 12:15 PM	PinS QUANTITATIVE ULTRASOUND Moderator: I Rosado-Mendez Speakers: T. Erpelding, T. Lynch, I. Rosado-Mendez, G. Torres, M. Wang Innovation Room 1
10:15 AM – 12:15 PM	GUIDED TOURS The Evolution and Applications of Surface Guided Radiation Therapy Moderator: K Gifford Speaker: R Hachadorian Innovation Room 2
1:45 PM – 1:55 PM	VENDOR SHOWCASE Ashland Moderator Speaker: R Aydin Innovation Room 2
1:45 PM – 2:40 PM	PROFESSIONAL SYMPOSIA Data Analysis and Artificial Intelligence (AI) in Relation to Medical Physics Profession: The IOMP's View Moderator: M Mahesh Speakers: E Bezak, J Damilakis, M Mahesh Innovation Room 1
2:50 PM – 3:45 PM	Joint AAPM-EFOMP Symposium: Multi-Professional Society Perspectives on Future of Medical Physics and Combined Efforts in AI Moderator: I Sechopoulos Speakers: M Avanzo, M Giger, C Mayo Innovation Room 1
4:00 PM – 5:00 PM 5:00 PM – 6:00 PM	PRESIDENT'S EVENTS Medical Physics Meets Visual Arts Moderator: E Samei Speaker: J Malone Innovation Room 1
4:00 PM – 5:00 PM 5:00 PM – 6:00 PM	"Rasa"[™] — An Immersive Artistic Resonance Experiential Workshop Moderator: E Samei Speaker: R Kapadia Innovation Room 2
4:30 PM – 5:30 PM	BLUE RIBBON ePOSTER ePoster Theater (Imaging, Multi-Disciplinary, Therapy)

	ROOM 361	ROOM 342	ROOM 351	ROOM 360	ROOM 362	ROOM 371	ROOM 372	
7:30 AM–8:25 AM	<div></div> <div>Imaging Scientific Symposium Photon Counting Detection: Theory, Practical Considerations, and Applications Moderator: K Yang Speakers: C Dunning, X Hu, K Li, X Tang, K Yang</div>	<div></div> <div>Multi-Disciplinary Scientific Symposium In Vivo Dosimetry and Image Guidance for FLASH Radiotherapy Moderator: L Xiang Speakers: K Parodi, B Pogue, L Xiang</div>	<div></div> <div>Imaging Educational Course Read with Expert - ABD/GI Moderator Speaker: H Kang</div>	<div></div> <div>Ultrasound Specialty Symposium Ultrasound QA/QC Workshop Moderator: Z Lu Speakers: Z Long, M Russ</div>	Therapy Educational Course A New Paradigm of Surface-Guided Radiotherapy Moderators: D Gierga, G Li Speakers: E Covington, D Giantsoudi, G Li	Professional Symposium Engaging in Advocacy With Legislators and Regulators. Why Should Medical Physicists Care? Moderators: K Hintenlang, K Little Speakers: D Gilley, S Gros, M Reiter	Therapy Scientific Session Radiobiology Moderators: X Jia, Y Chen	
8:30 AM – 9:30 AM		Multi-Disciplinary Scientific Session Clear Vision: Image Guidance for Treatment Verification Moderators: T Zhu, Y Zlateva	Therapy Scientific Session Small Animal Study and Novel Systems Moderators: A Sawant, S Lacombe		8:35 AM – 9:30 AM <div></div> Therapy Educational Course Clinical Translation of Radiomics: How Do We Get There? Moderator: H Whitney Speakers: I El Naqa, H Whitney	8:35 AM – 9:30 AM Professional Symposium Patient Radiation Safety and the Law, Standards, and Ethics: An Overview of Perspectives From ICRP, WHO, IEC et al. Moderator: Y Liao Speaker: J Malone	8:35 AM – 9:30 AM Therapy Scientific Symposium Target Tracking in Radiation Therapy Moderators: J. Roeske, M Axente Speakers: E Hewson, K Mittauer, L Wang	
7:30 AM – 9:30 AM	Professional Symposium Are These Stories Real? – A Case Study Workshop for Leadership, Professionalism, and Ethics Education <div></div> Moderators: C Stambaugh, J Steiner Speakers: M Hyun, M Popovic, D Wang Room 340							
10:15 AM – 11:10 AM	<div></div> <div>Imaging Scientific Symposium Advances in Imaging for Personalized Breast Cancer Treatment Moderators: J Mainprize, I Reiser Speakers: P Kinahan, W Yang</div>	<div></div> <div>Multi-Disciplinary Scientific Symposium Interpretable Machine Intelligence in Multidimensional Omics Moderators: H Nasief, F Yin Speakers: H Li, H. Nasief, M Schabath, Y Xiao, F Yin</div>	<div></div> <div>Imaging Educational Course The Physics, Physiology, Administration and Toxicity of Contrast Agents for Conspicuity Enhancement in CT: State-of-the-Art and Outlook Moderator: X Tang Speakers: D Cormode, J Hsu, C Moreno, X Tang, X Tang</div>	<div></div> <div>Ultrasound Specialty Symposium Translational Opportunities for Photoacoustic and Ultrasound-Mediated Imaging Moderator: R Bouchard Speakers: R Bouchard, K Hoyt, L Li, G Lu</div>	<div></div> <div>Therapy Educational Course Use of Artificial Intelligence in Brachytherapy Moderators: X Jia, A Damato Speakers: P Klages, M Roumeliotis, H Veeraraghavan, T Wang, W Yang</div>	<div></div> <div>History Symposium The Historical Foundation of Physics Based Major Medical Procedures and the Contributions of the Innovators and Pioneers Moderator: G Ibbott Speakers: G Ibbott, L Rothenberg, R Wilson</div>	10:15 AM – 11:15 AM Therapy Scientific Session MRI and Functional Guided Radiation Therapy Moderators: E Subashi, E Vicente	
11:15 AM – 12:15 PM	Imaging Scientific Session Breast Imaging Moderators: I Reiser, I Sechopoulos				11:20 AM – 12:15 PM Professional Symposium Addressing Equity Issues Experienced by Female Medical Physics Moderator: M Wells Speakers: C Borras, E Draeger, E Hirata, M Wells	11:20 AM – 12:15 PM Therapy Scientific Session Dosimetry Modeling and Verification Moderators: Y Kuang, J O'Daniel		
10:15 AM – 12:15 PM	Multi-Disciplinary Scientific Symposium Global Collaborations for Medical Physics Innovations Moderator: P Sandwall II Speakers: S Adeneye, S Chang, P Costa, A Ekpenyong, K Gallagher, R Hill, B Sun, A Yorke, Room 340							
1:45 PM – 2:45 PM	Imaging Scientific Session Photon-Counting CT Performance Evaluation Moderators: M McNitt-Gray, J Miller	Science Council Session: Innovations in Medical Physics Moderators: J Seuntjens, K Brock	<div></div> <div>Imaging Educational Course Breast Cancer Diagnosis from Screening Mammography to Final Pathology Moderator: W Geiser Speakers: W Geiser, S Krishnamurthy, T Moseley</div>	1:45 PM – 2:40 PM Data Science Specialty Symposium Radiogenomics and Artificial Intelligence for Personalized Medicine: Perspectives from a Biologist, Physicist and Physician Moderators: J Niedzielski, L Wei Speakers: B Al-Lazikani, I ElNaqa, C Fuller	Therapy Educational Course Overcoming Challenges for Imaging and Treating Potentially Pregnant Patients Moderator: J. Pollard-Larkin Speakers: J Masten, P Nitsch, B Parker, J Sharpe Taylor	1:45 PM – 2:40 PM Professional Symposium Board Exams in an Evolving World: ABR Updates and Panel Discussion for ABR Initial Certification Moderators: P Wall, K Bittinger Speakers: C Green, E Hilliard, G Ibbott, J Steiner	1:45 PM – 2:40 PM <div></div> Therapy Scientific Symposium Innovations in Brachytherapy Moderators: S Abbasinejad Enger, E Soisson Speakers: S Abbasinejad Enger, C Deufel, R Flynn	
2:45 PM – 3:45 PM	2:50 PM – 3:45 PM Imaging Scientific Session Nuclear Medicine Moderators: P Kinahan, A Tao						2:50 PM – 3:45 PM Professional Symposium New Member Symposium: I've Got a New Job, How Do I Ensure Success? Moderator: C Page-Robertson Speakers: J Chang, R Miller	Therapy Scientific Session Innovation in Imaging and Treatment Techniques Moderators: Lei Ren, Ying Xiao
6:00 PM – 9:00 PM	AAPM Night Out [Wear your badge for entry scanning]							

PROGRAM AT A GLANCE | WEDNESDAY, JULY 26

EXHIBIT HALL ACTIVITIES

9:00 AM – 2:00 PM **EXHIBIT HALL HOURS**

GENERAL EPOSTER VIEWING (GePV)

Viewable during Exhibit Hall Hours
ePoster Forums 1 – 9 & Online

BREAKS

Refreshment Break
Lunch Break + Visit the Technical Exhibits
ePosters and Exhibits close at 2:00 PM

INTERACTIVE ePOSTER DISCUSSION

Forums 1 – 9

10:15 AM – 12:15 PM

PinS

Autosegmentation in Radiotherapy: Understanding Fundamentals, Benefits, and cRisk

Moderator: T Netherton
Speakers: K Otto, D Rhee,
G Schregardus-abma, K Tierney, Y Zhu
Innovation Room 1

GUIDED TOURS

**A Trip down Quality Lane: MRI Phantoms
and Quality Assurance**
Moderator: R Boggs
Speaker: B Villegas
Innovation Room 2

11:00 AM – 11:10AM


VENDOR SHOWCASE

Ashland
Moderator | Speaker: R Aydin
Innovation Room 2

	ROOM 361	ROOM 342	ROOM 351	ROOM 360	ROOM 362	ROOM 371	ROOM 372
7:30 AM–8:25 AM	7:30 AM – 8:30 AM Imaging Scientific Session Photon-Counting and Dual-Energy CT and CBCT Moderators: G Gang, K Li	Multi-Disciplinary Scientific Symposium Joint WMIS-AAPM Symposium: Imaging for Immune Modulating, Cellular, and Gene Therapies Moderators: J Hazle, C Anderson Speakers: J Hazle, R Patel, P Pereira, H Rafei	Imaging Educational Course Read with Expert - Neuro Moderator Speaker: G Young	Data Science Specialty Symposium Data Science Boot Camp - MR Data Moderator: H Whitney Speakers: S Harmon, H Whitney	Therapy Educational Course MRI vs CBCT for ART: Case Demonstrations Moderator: J Pursley Speakers: C Fuller, Z Han, M Lin	Professional Symposium Systems Thinking for Patient Safety and Quality Improvement in Radiation Oncology Moderator: T Pawlicki Speakers: M Bakhtiar, L Wong	7:30 AM – 8:30 AM Therapy Scientific Session Novel Techniques for Treatment Planning Moderators: Q Wu, Y Zhang
8:35 AM – 9:30 AM	Therapy Scientific Symposium Advances in 3D Printing for Radiation Therapy Moderators: A Yu, J Zou Speakers: M Kamrava, L Skinner, B Teo, A Yu		Imaging Scientific Session Advances in Neuroimaging and Head and Neck Imaging Moderators: G Clarke, V Yu	Data Science Specialty Symposium Data Science Boot Camp - Therapy Data Approaches Moderator: G Valdes Speakers: H Lin, G Valdes	Therapy Educational Course Benefits and Barriers for Widespread Adoption of Adaptive RT Moderators: K Brock, M Kessler Speakers: T Craig, C Glide-Hurst, J Sonke, D Stanley, M Surucu	Professional Symposium Safety and Quality Improvements With Peer Review and Program Audits Moderator: O Blasi Speakers: S Han-Oh, K Lofton, Y Lyatskaya	Therapy Scientific Symposium AI for Clinical Decision Making in Radiation Therapy Moderator: L Ren Speakers: I El Naqa, X Gu, L Ren
10:15 AM – 11:10 AM	Imaging Scientific Symposium Quantum Computing in Medical Physics: Technology Basics and Opportunities for Clinical Impact Moderators: L Atonuk, J Siewerdsen Speakers: L Atonuk, A Sawant, A Siniega, H Veeraraghavan	10:15 AM – 11:15 AM Multi-Disciplinary Scientific Session Respond and Model: Imaging for Treatment Assessment Moderators: L Xing, H Nasief	Imaging Educational Course Advanced MRI in Brain Tumors Moderator: L Qin Speakers: H Liu, L Qin, G Young, X Zhou	Data Science Specialty Symposium The Medical Imaging and Resource Center (MIDRC) – A Comprehensive Data Repository for COVID-19 Medical Images To Expedite Machine Intelligence Moderator: K Drukker Speakers: N Baughan, N Bevins, K Drukker, C Weijie	Therapy Educational Course JACMP Parallel Opposed Debate: AI, ART, and Patient Physics Interaction Moderator: J Burmeister Speakers: J Burmeister, B Cai, Q Chen, J Cunha, W Donahue, S Evans, D Hyer, M Hyun, Y Rong W Talcott	Professional Symposium RO-ILS and the WGPE: Mastering Both Hard and Soft Skills to promote Safety in the Clinic Moderator: C Buckey Speakers: C Buckey, E Covington, B Salter, M Washington	Therapy Scientific Symposium Path to Independence: How To Secure Your First Grant as an Early-Stage Investigator? Moderators: G Pratz, L Ren Speakers: A Bertolet, S Decker, G Pratz, M Schmidt, L Xiang, F Yin
11:20 AM – 12:15 PM	Imaging Scientific Session Optical Imaging and Emerging Technologies Moderators: R Jeraj, H Byrne	Multi-Disciplinary Scientific Symposium Longitudinal Multimodality Imaging of Treatment Response: Data Dimensionality Challenges and Solutions Moderators: Y Gao, J Wang Speakers: S Bowen, R Li, H Nasief, J Wang		Data Science Specialty Symposium AI Automation in Segmentation Moderator: G Hugo Speakers: C Cardenas, G Hugo, H Veeraraghavan			
1:45 PM – 2:40 PM	Multi-Disciplinary Scientific Symposium Grant Funding Pathways for Clinical Medical Physicists Moderator: W Yang Speakers: R Howell, J Lamb, C Obcemea, W Yang	1:45 PM – 2:45 PM Imaging Scientific Session Image Analysis, Quantitative Imaging, and Radiomics Moderators: E Abadi, M Jacobsen	Imaging Educational Course Imaging and Therapy Solutions for Prostate Cancer Moderators: J Ma, T Andrews Speakers: A Chatterjee, D Hyer, H Kang, H Mok	Data Science Specialty Symposium Ethics in Big Data and Artificial Intelligence Moderator: K Brock Speakers: R Gunderman, J Platt	Therapy Educational Course Patient Reported Outcomes and Quality of Life Data: What Medical Physicists Need To Know Moderator: Y Vinogradskiy Speakers: S Devpura, A Dueck, P Mavroidis, A Moreno, Y Vinogradskiy	Professional Symposium Know Your Rights Moderators: T Roth, A Perez-Andujar Speakers: B Blankenship, R Castillo, A Cetnar, K Osterman	Therapy Scientific Symposium FLASH Therapy Delivery, Motion Management and Dosimetry Moderators: A Sawant, R Zhang Speakers: J Buchsbaum, Y Poirier, R Zhang, J Zou
2:50 PM – 3:45 PM	Imaging Scientific Symposium Teamwork Makes the Dream Work: Innovations in Diagnostic Medical Physics Through Academic Industrial Partnerships Moderators: J Hoye, E Angel Speakers: G El Fakhri, T Flohr, F Jansen, A Kuhls-Gilcrist, C McCollough, S Rudin	Multi-Disciplinary Scientific Symposium Multiscale Computational Oncology for Dynamic Biological Optimization of Treatments Moderator: K Sheng Speakers: A Hawkins-Daarud, G Pratz, K Sheng		Data Science Specialty Symposium Image Formation and Presentation GANs/Transformer Networks Moderator: L Hadjiski Speakers: L Hadjiski, J Kalpathy-Cramer, H Veeraraghavan		Professional Symposium A Year In: Progress and Updates on the AAPM Affinity Groups Initiative Moderators: R Castillo, S Campelo Speakers: S Avery, P Galavis, L Jones, J Pollard-Larkin, T Roth	2:45 PM – 3:45 PM Therapy Scientific Session Treatment Optimization, Assessment, and Prediction Moderators: I El Naqa, M Huang
3:45 PM – 4:30 PM	Refreshment Break Level 3						
4:30 PM – 6:00 PM	Imaging Scientific Symposium Quantitative Imaging Moderator: M Jacobsen Speakers: M Jacobsen, P Kinahan, B Taylor	Multi-Disciplinary Scientific Symposium Frontiers in 4D-MRI and Diffusion MRI for Adaptive Radiotherapy Moderators: J Deng, M Fast Speakers: J. Cai, Y. Cao, E. Paulson, J. Xu	Imaging Educational Course Remote Interpretation of Medical Images and Physics: Approaches, Challenges, and the Future Moderator: M Silosky Speakers: N Bevins, R Milman, M Silosky	Data Science Specialty Symposium Big Data Enabled AI Driven Health Care and Clinical Trials Moderators: C Mayo, Y Xiao Speakers: B Al-Lazikani, K Brock, J Buchsbaum, M Feng, C Mayo	Therapy Educational Course Streamlining Cervical Cancer Radiotherapy Treatment Planning for Low- and Middle-Income Countries Moderators: L Court, W Ngwa Speakers: M Huq, X Jia, T Netherlton, C Nwachukwu	Professional Symposium The Medical Physics Journal: Manuscript Preparation, Submission, and Manuscript Review Moderators: J Boone Speakers: S Benedict, J Boone, E Thomas"	Multi-Disciplinary Scientific Symposium Presidential Forum: Medical Physics NOW Moderator: E Samei Speakers: E Angel, T Atwood, A Badano, L Dawson, M Giger, C Mayo, J Pollard-Larkin, J Pursley, A Rahmim
6:15 PM – 7:15 PM	Annual Business Meeting Town Hall Meeting - AAPM Board of Director Members Room 342						

PROGRAM AT A GLANCE | THURSDAY, JULY 27

- Imaging Education
- Imaging Scientific
- Therapy Education
- Therapy Scientific
- Multi-Disciplinary Scientific
- Professional
- Specialty Program

 President's Sessions of Note

	ROOM 361	ROOM 342	ROOM 351	ROOM 360	ROOM 362	ROOM 371	ROOM 372
7:30 AM–8:30 AM	Imaging Scientific Session Image Quality and New Technologies in X-Ray CT Moderators: K Rajendran, T Reynolds	7:30 AM – 8:25 AM Multi-Disciplinary Scientific Symposium Grand Challenges Moderators: K Drukker, L Hadjiiski Speakers: D Hardiansyah, J O Doherty	Imaging Educational Course Updates to MRI Safety Guidance for Varied Environments and Devices Moderators: M Hoff, R Stafford Speakers: A Doerner, S Einstein, M Hoff, Y Shu, R Stafford	Data Science Specialty Program Scientific Session AI Advanced Methods Moderator: M Giger	7:30 AM – 8:25 AM Therapy Educational Course Quality Assurance in Image-Guided Radiation Therapy Moderator: P Alaei Speakers: P Alaei, H Al-Hallaq, J Snyder	Professional Symposium Best Practice Guidelines for International Collaboration Moderators: S Prajapati, B Hasson Speakers: I Das, J Raffi, J Van Dyk, S Wadi-Ramahi	Therapy Scientific Session Advances in Proton Therapy Moderators: S Mossahebi, J Daartz
8:35 AM – 9:30 AM	Imaging Scientific Session X-Ray Radiography, Fluoroscopy, and Dosimetry Moderators: W Zbijewski, K Hulme	8:30 AM – 9:30 AM Multi-Disciplinary Scientific Session Resonate to Adapt: MRI-Guided Radiotherapy Moderators: Y Cao, S Tari		Data Science Specialty Symposium Early-Career Investigators Breaking New Ground in Data Science Moderator: E Covington Speakers: J Brosch-Lenz, M Howard, K Lafata, E Vasquez osorio	Therapy Educational Course Evaluating Proton Therapy Equipment Specifications Moderator: J Kruse Speakers: A Deisher, L Dong		
9:30 AM – 10:00 AM	Refreshment Break Level 3						
10:00 AM – 10:55 AM	 Imaging Scientific Symposium Advances in MRI Imaging: MR Relaxometry, Fat-Water Imaging Moderators: K Hwang, G Clarke Speakers: H Cheng, C Chung, G Clarke, D Hernando	 Multi-Disciplinary Scientific Symposium Session in Memory of Isaac Rosen, PhD: Advanced Imaging Modalities for Proton Therapy Planning and Verification Moderator: A Lalonde Speakers: C Collins Fekete, A Lalonde, K Parodi, E Sterpin	 Imaging Educational Course Updates in Rad and Fluoro – TG Reports Moderator: K Wunderle Speakers: G Gang, K Little, D Mihailidis, I Reiser, B Schueler	 10:00 AM – 11:00 AM Data Science Specialty Program Scientific Session AI Applications Moderators: C Glide-Hurst, K Drukker		Professional Symposium Collaborating and Communicating with Facility Administrators: Lessons Learned Moderator: J Frimeth Speakers: J Frimeth, M Jafari, J Petronaci	10:00 AM – 11:00 AM Therapy Scientific Session Brachytherapy and Radiopharmaceuticals Moderators: Y Rong, J Xu
11:05 AM – 12:00 PM		11:00 AM – 12:00 PM Multi-Disciplinary Scientific Session Stay on Track: Image Guidance for Motion Management Moderators: J Balter, D Ferguson		Data Science Specialty Symposium Uncertainty Quantification and Error Propagation of Artificial Intelligence in Medical Physics Applications Moderators: J Wang, K Lafata Speakers: A Barragan Montero, H Ji, C Wang, J Wang	Therapy Educational Course What Will You Do When You Touch My Heart? Moderators: C Shi, M Chan Speakers: M Chan, N Knutson, C Shi, P Tsai, S Wadi-Ramahi	Professional Symposium Equipment Specification & Purchasing Considerations For Physicists Moderator: R Stafford Speakers: D Jordan, R Stafford, R Tarver	Therapy Scientific Symposium Novel Biologically Enhanced Proton Delivery Technologies (FLASH, Grid, and PBCT) Moderators: L Dong, J Schuemann Speakers: A Bertolet, N Cao, S Mossahebi
12:00 PM – 12:50 PM	Boxed Lunch Level 3						
1:00 PM – 2:00 PM	Imaging Scientific Session MRI Acquisition and Reconstruction Moderators: D Hernandez, H Cheng	Multi-Disciplinary Scientific Session Breaking News: Novel Devices, Techniques, and Applications Moderators: R Hill, Q Lyu	 Imaging Educational Course Not Just CT: The American College of Radiology Dose Index Registry Moderator: A Jones Speakers: I Barreto, R Bosca, D Gress, A Jones, X Li, S Mann, T Pan, K Wunderle	Data Science Specialty Program Scientific Session Explainable AI Moderator: C Cardenas		Professional Symposium Medical Physicist Job Status and Practice Changes in Radiation Therapy During and After COVID-19 Pandemic Moderators: X Liu, X Qi Speakers: D Branco, J Cui, S Goetsch, X Liu, J Pollard-Larkin, J Zhang	Therapy Scientific Session Patient Safety and Quality Improvement Moderators: D Pokhrel, L Cervino
2:05 PM – 3:00 PM	2:00 PM – 3:00 PM Imaging Scientific Session Cone-Beam CT Moderators: A Sisniega, P Galavis	2:00 PM – 3:00 PM Multi-Disciplinary Scientific Session Plan Ahead: Imaging for Segmentation and Treatment Adaptation Moderators: X Nie, B Cai		Data Science Specialty Symposium Machine Learning Challenges from Benchtop to Clinical Implementation Moderators: R Ger, D Nguyen Speakers: C Cardenas, T Purdie, K Shoemaker	Therapy Educational Course Advances in Intra-Operative Radiation Therapy Moderators: L Perles, S Howard Speakers: S Davis, D Goer, E Holliday, S Howard, A Jackson, B Libby, L Perles, H Zhang		Therapy Scientific Session Dose Measurement and QA Moderators: S Dhanesar, S Chen