Key to Track Color Codes	Professional	Therapy Education	Therapy Scientific	Joint Imaging - Therapy Scientific	Imaging Scientific	Imaging Education	Practical Medical Physics	Radiomics	TECHNICAL EXHIBIT HALL

58th AAPM Annual Meeting Program

Sunday, July 31

A 9:10 - 11:00

Education Council Symposium
Revitalizing Your Medical Physics Classroom: Some Examples and Thoughts From the Trenches
V Montemayor, R Howell, S Nazu, J Burmeister
Ballroom A

AAPM Medical Physics Student Meeting
The Many Paths of Medical Physics
Moderators: A Roth, N Vissamsetty
A Roth, D Shepard, N Children, K Buchala, R Ochs, K Howell
Ballroom E

B 11:00 - 12:50

Professional Council Symposium
The Medical Physicist Value Proposition for Tomorrow and Today. (If a Medical Physicist Fell in the Woods, Would Anyone Hear It?)
Moderator: D Pawel
G Sherouse, G White, S Burns, D McNary, D Pawel, J Clements, P Halvorsen, J Hale, V Wilcox
Ballroom A

12:30 Exhibit Hall Opens | Refreshment Break | Exhibit Hall

	Room 204	Room 201	Ballroom C	Ballroom B	Ballroom A	Room 202	Room 207A	Room 206	Room 209	Room 207B	Exhibit Hall E
C 1:00 - 1:55	Therapy SNAP Oral **Dose Guidance** J Wong, S Krishnan	Therapy SNAP Oral **Next Generation Dosimetry** L Beaudoe, A Molineu	Therapy SNAP Oral **Dose Calculation** J Robar, G Yan	Therapy SNAP Oral **Contouring and Auto-Planning** S Zhou, S Schubert	Joint Imaging-Therapy SNAP Oral **Image Registration and Segmentation** D Mackie, X Gu	Joint Imaging-Therapy SNAP Oral **Imaging for Radiotherapy I** J Kwoske, P Galonski	Joint Imaging-Therapy SNAP Oral **Proton Therapy** T Bortfeld, C Cheng	Imaging SNAP Oral CT A Dhakaan, L Zhu	Imaging SNAP Oral **Mammography/Radiography/ Fluoroscopy** R Marsh, L Rudin	Imaging SNAP Oral **Image Processing/Segmentation/ Registration/CAD** J Wang, W Liu	Professional Symposium HAZMAT Training for the Medical Physicist - Part I Moderator: R Tarver B Parker Partners in Solution Room in Exhibit Hall E
D 2:05 - 3:00	Therapy SNAP Oral **Modeling and Outcomes** P Xia, P Mavroidis	Therapy SNAP Oral **Performance Assessment** K Hendricken, E Johnson	Therapy SNAP Oral **Particle Therapy Dosimetry and QA** S Lomax, M Bues	Therapy SNAP Oral **Knowledge-Based Planning** B Wu, J Verbeek	Joint Imaging-Therapy SNAP Oral **Monitoring Patient Motion** C Shang, G Ding	Joint Imaging-Therapy SNAP Oral **Imaging in Radiotherapy II** J Lindsey, B Kuduvalur	Joint Imaging-Therapy SNAP Oral **MRI in Radiotherapy** B Fallone, D Yan	Imaging SNAP Oral **Case-Sensn CT** S Long, X Liu	Imaging SNAP Oral **Mammography/Radiography/ Fluoroscopy - Radiation Dose** A Badal, H Chan	Radiomics SNAP Oral **Radiomics** H Aerts, R Li	

Visit the Vendors and Poster Sessions | 3:00 - 3:30 Refreshment Break | Exhibit Hall

E 3:00 - 6:00 — **BEST IN PHYSICS** (3:00-6:00 pm) ePoster Theaters and Discussion in the Exhibit Hall. Presenting Authors available 3:30 - 6:00

F 3:00 - 6:00 — **GENERAL POSTER DISCUSSION** Education, Professional, Imaging, Joint Imaging-Therapy, Therapy, Radiomics, and Society of Physics Students (SPS) Undergraduate Research. Presenting Authors available 3:00 - 6:00

G 6:00 - 6:40

GENERAL ePOSTER DISCUSSION
NEW! **THERAPY TOPICS:** 4:00-4:30 Dose Calculation and Treatment Planning; 4:30-5:00 Physical Measurements; 5:00-5:30 Fluorescence; 5:30-6:00 Radiation Therapy Quality Control
ePoster Theater in Exhibit Hall E. Presenting Authors available

Therapy SNAP Oral **Brachytherapy and Radionuclide Therapy** W Song, S Richardson

Therapy SNAP Oral **External Beam Treatment Planning** L Santanam, B Fahrenian

Therapy SNAP Oral **Dosimetry and QA Tools** B Hoe, M Carlone S Ma

Joint Imaging-Therapy SNAP Oral **Tumor Tracking** B Bednarz, M Hunt

GENERAL ePOSTER DISCUSSION
NEW! **JOINT IMAGING-THERAPY TOPICS:** 4:00-4:30 Target Tracking; 4:30-5:00 MR-guided Radiotherapy; 5:00-5:30 GIRT; 5:30-6:00 Monitoring Inter- and Intra-Fraction Motion
ePoster Theater in Exhibit Hall E. Presenting Authors available

Imaging SNAP Oral **CT - QA/QC, Calibration and Imaging Protocols** B Li, J Rong

NEW! **GENERAL ePOSTER DISCUSSION**
IMAGING TOPICS: 4:00-4:30 MRI; 4:30-5:00 CT; 5:00-5:30 X-Ray Imaging; 5:30-6:00 Multimodal Imaging
ePoster Theater in Exhibit Hall E. Presenting Authors available

Professional Symposium HAZMAT Training for the Medical Physicist - Part II Moderator: R Tarver B Parker Partners in Solution Room in Exhibit Hall E

Monday, August 1

	Room 204	Room 201	Ballroom C	Ballroom B	Ballroom A	Room 202	Room 207A	Room 206	Room 209	Room 207B	Exhibit Hall E
A 7:30 - 8:25	Professional Symposium Interoperability in Radiation Oncology: IHE-RO Committee Update Moderator: S Hadley S Hadley, J Seibert, C Pauer, W Bosch	Practical Medical Physics A CIRT's Notes Version of Proton Therapy Moderator: J Kruse J Kruse	Therapy Educational Course TG263: Clinical Recommendations for Innovative Brachytherapy Devices and Applicators Moderator: B Nath B Nath, M Biasco	Therapy Educational Course TG166: Clinical Use of Luminescent Dosimeters Moderator: S Kry S Kry	John R. Cameron Young Investigator Symposium Moderators: M Alger Ballroom A			Imaging Educational Course Nuclear Medicine Physics and Testing Moderator: K White T Turkington, J Halama	Professional Symposium Financial Perspectives on Scientific Publishing Moderator: S Armato S Armato, D Bourland, M Iwata	Radiomics Educational Course Segmentation & Feature Extraction Techniques H Veeraraghavan	
B 8:30 - 9:30		Practical Medical Physics Motion Management in Current Stereotactic Body Radiation Therapy (SBRT) Practice Moderator: C Shang C Shang, S Flampouri, O Green	Therapy Educational Course Prostate HDR Treatment Planning – Considering Different Imaging Modalities Moderator: J Pricoupenko J Pricoupenko, Z Chang, J Zubair, F Mourtada	Therapy Educational Course Three Dimensional Dosimetry Moderator: J Schreiner J Schreiner, G Baath, S Cieberg, T Juang					Professional Symposium Certificate Extension Process for DABR and the Medical Physicist's Role Moderator: J Reiser K Chakobart	Radiomics Educational Course Harmonization & Robustness in Radiomics L Court	

Visit the Vendors | 9:30 - 10:15 Coffee Break | Exhibit Hall

C 10:15 - 12:15 — Professional Symposium **Inspiring Leadership** Moderator: B Curtze. B Curtze, R Atkinson, D Beyer, B Greenspan, K Kennedy. Ballroom B

Visit the Vendors | 12:15 - 1:45 Lunch Break | Exhibit Hall

	Room 204	Room 201	Ballroom C	Ballroom B	Ballroom A	Room 202	Room 207A	Room 206	Room 209	Room 207B	Exhibit Hall E
D 1:45 - 2:40	Professional Symposium International Symposium: Patient Dose Reduction in Diagnostic Radiology Moderator: C Lauf, F Pignan M Nelson, V Tsapaki, D Schick, J Kofler	SAM Professional Symposium Medical Physics Leadership Academy Moderator: C Lauf J Clements, J Johnson, R Kinseur Pyeni J Clements, J Johnson, R Kinseur, R Miller	SAM (1:45 - 2:45) Therapy Educational Course In Memoriam of Jerome Lyman: Knowledge-based Planning Moderator: P Xia P Xia, P Xia, J Wu, J Zhongshan	SAM (1:45 - 2:45) Therapy Educational Course SBRT Workflow Overview Moderator: L Xing P Xia, Y Xiang, J Aspar INTERACTIVE / SAM Therapy Educational Course PANEL DISCUSSION: SBRT/SRS Case Studies - Lung Moderator: S Benedict Panel: S Benedict, J Lamar, B Salter	Education Session **Innovation in Medical Physics Education** Moderator: V Montemayor	SAM Joint Imaging - Therapy Symposium Image-Guided Interventions: Advances in Intraoperative Imaging, Guidance, and An Emerging Role for Medical Physics in Surgery Moderator: J Siewerdsen K Farahani, J Siewerdsen, T Kapur, R Shekhar	Imaging Scientific Session **CT - Image Reconstruction** F Niu, X Tang	SAM Joint Imaging - Therapy Symposium Joint WMIS-AAPM Symposium: Metabolic Imaging of Cancer Moderator: J Hale, Z Bhujwalla G Pinto, S Cherry, J Bankson	SAM Imaging Educational Course DBT Physics Basic to Advanced Moderator: A Maidment A Maidment, J Maniprize, W Zhao, I Vedralapalle	Radiomics Scientific Session **Radiomics & Data Mining Methods and Robustness** R Morin, L Court	**PARTNERS IN SOLUTIONS** (1:45-2:45) **Therapy: MR Simulation** Moderator: B Gino Partners in Solution Room in Exhibit Hall E
E 2:45 - 3:45											

Visit the Vendors | 3:45 - 4:30 Refreshment Break | Exhibit Hall

	Room 204	Room 201	Ballroom C	Ballroom B	Ballroom A	Room 202	Room 207A	Room 206	Room 209	Room 207B	Exhibit Hall E
F 4:30 - 5:15	Professional Symposium Preparing for the ABR Diagnostic and Nuclear Medical Physics Exams Moderator: N Benzo S McKenney, T Szczykutowicz, J Zambelli, R McDougall	Professional Symposium PANEL DISCUSSION Preparing for Parts 2 and 3 of the ABR Therapy Medical Physics Exam Moderator: L Padilla, J Evans Panel: J Evans, L Padilla, M Mudenda, T McNutt	SAM Therapy Educational Course Joint AAPM-ESTRO Symposium: Advances in Experimental Medical Physics Moderator: R Berbeco S Seiney, J Robar, D Westerly, A Panoui	**INTERACTIVE SESSION** **AAPM Presidential Debate!** Moderator: S Bruce, R Stern Debaters: J Bayouth, J Hazle, M Herman, J Seibert	Therapy Scientific Session **Motion Management** A Sawant, C Williams	Therapy Scientific Session **Next Generation Quality Assurance** P Giner, J Lewis		SAM Imaging Educational Course CT Systems Course Moderator: B Li B Li, J Hsieh, F Dong	SAM Imaging Educational Course Recent Advances in Virtual Tools for Validation of 3D/4D Breast Imaging Systems (TG234) Moderators: P Bakic, K Myers K Myers, C Graff, P Bakic, M Das, A Avanaki	Radiomics Scientific Session State-of-the-Art in Radiomics in Radiology and Radiation Oncology Moderators: M Giger, J Denny H Aerts, H Li, P Tiwari, W Lu	ePoster Campus **IMAGING** 4:30-5:00 Mammography/ Radiography/Fluoroscopy 5:00-5:30 CT 5:30-6:00 MRI Provost: A Karellas **JOINT IMAGING-THERAPY** 4:30-5:00 Range Estimation/Verification in Proton Therapy 5:00-5:30 MR-guided Radiotherapy 5:30-6:00 Patient Positioning Provost: B Winey **THERAPY** 4:30-5:00 Next Generation QA 5:00-5:30 Optimization and Inverse Planning 5:30-6:00 Proton Therapy Provost: J Fan
G 5:15 - 6:00	Professional Symposium The American Board of Radiology Maintenance of Certification Process Moderator: G Frey M Herman, G Abbott	Therapy Scientific Session **Knowledge-Based Planning** K Ebeng, Q Wu									

AAPM Awards Ceremony | 6:30 - 8:00 @ Convention Center Ballroom A / AAPM Awards Reception | 8:00 - 9:00 @ Convention Center Level 3 Foyer

Tuesday, August 2

	Room 204	Room 201	Ballroom C	Ballroom B	Ballroom A	Room 202	Room 207A	Room 206	Room 209	Room 207B	Exhibit Hall E
A 7:30 - 8:25	Professional Symposium CDRH/FDA Regulatory Processes and Device Science Activities Moderator: A Nourzadeh J Delfino, S Gonzales, A Badano, R Ochs	SAM (7:30 - 8:30) Therapy Educational Course Image Guidance Technologies and Management Strategies Moderator: J Evans K Wijesooriya, J Chang	Therapy Scientific Session **Innovations in Dose Calculation** H Bouchard, C Ma	SAM (7:30 - 8:30) Therapy Educational Course PANEL DISCUSSION: SBRT/SRS Case Studies - Brain and Spine Moderator: D Schlesinger Panel: D Schlesinger, L Ma, B Mistry	Joint Imaging - Therapy Scientific Session **MR-Guided Radiotherapy** J Kotter, C Glide-Hurst	Joint Imaging - Therapy Scientific Session **Image Registration and Segmentation** S Bowen, J Cao	SAM Imaging Educational Course CT Systems Course Moderator: B Li B Li, J Hsieh, F Dong	SAM (7:30 - 8:30) Professional Symposium Professional Liability Insurance – What You Need to Know Moderator: D Jordan G Fuller, A Dofal SAM Professional Symposium Ethics Symposium: Do the Right Thing Moderator: J Lorman J Lorman, G Sherouse	Imaging Symposium Model Observer Design and Its Validation for Task-based Evaluation of Digital Breast Tomosynthesis Moderator: S Park J Ma, S Park, H Gifford, M Boonsana	Radiomics Educational Course Imaging Genomics Associations and Biological Correlates of Radiomics Y Zhu Radiomics Educational Course Challenges in Radiomics and Big Data K Drukker	

Visit the Vendors | 9:30 - 10:15 Coffee Break | Exhibit Hall

C 9:30 - 11:00 — **VISIT THE VENDORS** Technical Exhibit Area. NEW! **EXPANDING HORIZONS** ePoster Theater in the Exhibit Hall. Presenting Authors will be available

	Room 204	Room 201	Ballroom C	Ballroom B	Ballroom A	Room 202	Room 207A	Room 206	Room 209	Room 207B	Exhibit Hall E
D 11:00 - 12:15	Professional Symposium The Gadget: Making of the Atomic Bomb Moderator: M Walker K Strubler, R Miller	Professional **Proffered Session** B Tanner	SAM Joint Imaging - Therapy Symposium The PET/MRI Video Block Moderator: A Stewart J Rottman, P Green, L Antonuk	SAM Joint Imaging-Therapy Symposium Dual Energy CT in Radiation Therapy Moderator: Z Liddy N Pelc, J Schwarz, C Coates	SAM Practical Medical Physics Treatment Planning System Commissioning and QA Moderator: M Sharpe M Sharpe, S Mutic, J Venkowitz	SAM Joint Imaging-Therapy Symposium Rest to Rest ITV Moderator: M Van Herk M Van Herk, P Keall, D Low	Imaging Symposium Quantitative Assessment of CT Systems with Iterative Image Reconstruction Algorithms Moderator: G Chen, X Li S Lang, E Samei, X Li	Imaging Educational Session Body Tomosynthesis Moderator: M Flynn M Bath, M Flynn J Sabol, K Lonn	Imaging Scientific Session **Mammography/Radiography/ Fluoroscopy - Radiation Dose** M Goodsitt, D Bednarek	Radiomics Scientific Session **Prognostic and Response to Therapy Prediction** M Oludare, J Fang	**PARTNERS IN SOLUTIONS** **Imaging: Digital Breast Tomosynthesis I** Moderator: T Wilson Partners in Solution Room in Exhibit Hall E

Visit the Vendors | 12:15 - 1:45 Lunch Break | Exhibit Hall

E 1:45 - 3:15 — NEW! SAM Exhibit Hall Guided Tours. Tour Leaders: X Jing, J Zou. Imaging - Dosimeters for QC. Therapy - Microdosimeters. Location Hall E Concourse

	Room 204	Room 201	Ballroom C	Ballroom B	Ballroom A	Room 202	Room 207A	Room 206	Room 209	Room 207B	Exhibit Hall E
F 1:45 - 2:45	SAM Professional Symposium Compliance with the AAPM CT Clinical Practice and Joint Commission Guidelines Moderator: T Szczykutowicz T Szczykutowicz, M Mahesh, K Kanal, D Cody, A Brunese	Therapy Scientific Session **Performance Assessment Safety and QA** S Mutic, G Kim	SAM Therapy Symposium Radiation and Immunotherapy: How to Ignite Long Term Anti-Cancer Response Moderator: M Oldham B Repasky, S Formenti, N Coleman, M Oldham	Joint Imaging - Therapy Scientific Session **SCIENCE COUNCIL SESSION:** Imaging for Particle Therapy J Moran, G Sharp	Joint Imaging - Therapy Scientific Session **MR-LINAC Design** T Wooliram, J Dempsey	SAM Joint Imaging - Therapy Symposium Advances and Innovations in Image-Guided Brachytherapy Moderator: R Cormack O Craciunescu, A Damato, A Cunha	Joint Imaging - Radiomics Symposium: Grand Challenges in Medical Imaging and Radiomics Moderators: C McCollough, A Avrutsky M Giger, S Armato, N Petrick	Imaging Educational Session Imaging Informatics Moderator: P Nagy M Flynn, M Sensakovic, P Nagy	Imaging Scientific Session **X-Ray Imaging - Radiography/ Fluoroscopy** C Willis, C Ionita	Joint Imaging-Therapy Symposium Federal Funding Opportunities and Grantsmanship Moderator: K Farahani B Whelan, D Krosnick, D Narayanan, K Farahani, W Olbricht	**PARTNERS IN SOLUTIONS** **Imaging: Digital Breast Tomosynthesis II** Moderator: S Samson **PARTNERS IN SOLUTIONS** **Imaging: Digital Breast Tomosynthesis III** Moderator: S Samson Partners in Solution Room in Exhibit Hall E
G 2:45 - 3:45											

Visit the Vendors | 3:45 - 4:30 Refreshment Break | Exhibit Hall

	Room 204	Room 201	Ballroom C	Ballroom B	Ballroom A	Room 202	Room 207A	Room 206	Room 209	Room 207B	Exhibit Hall E
H 4:30 - 6:00	SAM Professional Symposium Work of CDRP, NCRP and Others and How They Impact on Medical Physicists Moderators: M Rehani, L Dauer M Rehani, L Dauer, D Miller	Professional Symposium New Member Symposium Moderators: I Kenner, A Johnson J Patta, R Miller, D Pawel, B Curtze, J Bubko, B Fraass, J Keener	Therapy Scientific Session **Novel Devices and Applications** R Howell, P Mavro	SAM Therapy Symposium Radiation Countermeasures Research and Development Moderator: D Bourland D Bourland, L Tatalovic, T Ha, P Prasanna, J Huff	Joint Imaging - Therapy Scientific Session **MR-LINAC Design** T Wooliram, J Dempsey	SAM Joint Imaging - Therapy Symposium CT Ventilation Imaging: The New Clinical Reality of Functional Avoidance and Response Assessment in Lung Cancer Radiation Therapy Moderator: P Keall T Yamamoto, J Vinogradskiy, J Bayouth, J Kipritidis	Imaging Scientific Session **CT - Calibration, QA/QC, Protocol Management** S Mulay, D Zhang	Imaging Scientific Session **Nuclear Medicine, PET, MRI, US - QA/QC** S Kappadath, T Pan	SAM Practical Medical Physics Planning and Delivering HDR APBI Treatments Moderator: S Pella A Kyriacou, M Chilukuri, S Pella	Radiomics Symposium Session in Memory of Laurence Clarke: Moving Radiomics Forward - Funding, Regulatory Issues, and Clinical Translation Moderator: K Myers J Boone, P Jacobs, K Myers, L Schwartz	ePoster Campus **IMAGING** 4:30-5:00 Monte Carlo Simulations 5:00-5:30 Virtual Tools, Simulations and Phantoms 5:30-6:00 Image Processing/Segmentation/ Registration/CAD Provost: I Serhopulos **JOINT IMAGING-THERAPY** 4:30-5:00 Image Registration Performance 5:00-5:30 Contouring Radiotherapy 5:30-6:00 Adaptive Radiation Therapy Provost: R Van Heuven **THERAPY** 4:30-5:00 New Approaches to Radiotherapy 5:00-5:30 Preclinical Science 5:30-6:00 Nanoparticles in Radiation Therapy Provost: M Ngwa

AAPM Night Out | 6:30 - 10:00 @ Newseum | 555 Pennsylvania Avenue, NW

Wednesday, August 3

	Room 204	Room 201	Ballroom C	Ballroom B	Ballroom A	Room 202	Room 207A	Room 206	Room 209	Room 207B	Exhibit Hall E
A 7:30 - 8:25	SAM Professional Symposium Diversity and Inclusion in Medical Physics Moderator: S Avery B Curtze, S Avery, W Ngwa, P Hanover, D Chow, T Nguyen, R Lagundoja, E Higginbotham	SAM (7:30 - 8:30) Therapy Educational Course Session in Memory of Donald Herbert Anne and Donald Herbert Distinguished Lectureship on Modern Statistical Modeling Moderator: J Deasy C Marshall, A Wanniarachchi	SAM (7:30 - 8:30) Certificate of Completion Course The Quality Gap Moderator: J Patta J Patta, S Evans, D Followill	SAM Therapy Symposium Session in Memory of Robert J. Shalek: High Resolution Dosimetry from 20 to 30 to Real-time 3D Moderator: H Li H Li, M Oldham, S Bedair, B Pogue	Joint Imaging - Therapy Scientific Session **Image-Guided Interventions** Y Vinogradskiy, J Lian	Joint Imaging - Therapy Scientific Session **Functional Imaging for Radiotherapy** J Bayouth, T Yamamoto	Imaging Scientific Session **Cone-beam CT** W Zbijewski, K Yang	Imaging Educational Course Diagnostic Ultrasound QA/QC Hands-on Workshop Moderators: Z Liu Z Jagodnik, J Walter	Imaging Scientific Session **Optimization and Inverse Planning** L Xing, P Mansor	Therapy Scientific Session **Modeling and Outcomes** I Chetty, D Carlson	
B 8:30 - 9:30		SAM Therapy Educational Course Statistical Failings That Keep Us Alli in the Dark Moderator: D Schlesinger D Schlesinger, J Kisse	SAM Certificate of Completion Course Concepts in Risk-based Assessment Moderator: B Fraass P Kotti, B Fraass, E Ezzell								

Visit the Vendors | 9:30-10:15 Coffee Break | Exhibit Hall

C 10:15 - 11:45 — NEW! SAM Exhibit Hall Guided Tours. Tour Leaders: X Jing, J Zou. Imaging - Dosimeters for QC. Therapy - Microdosimeters. Location Hall E Concourse

	Room 204	Room 201	Ballroom C	Ballroom B	Ballroom A	Room 202	Room 207A	Room 206	Room 209	Room 207B	Exhibit Hall E
D 10:15 - 11:15	Professional Symposium Session in Memory of Frasca Rachel: Excellence in Medical Physics Residency Education Moderator: R Hendrickson, D Fontenla, W Parker, S Deetrich	Therapy Scientific Session **Brachytherapy Dosimetry Therapy** R Cormack, O Craciunescu	SAM Certificate of Completion Course Learning the New Approaches of TG-100 and Beyond Moderator: S Huq S Huq, J Patta, P Dunscombe, B Thomadsen, E Yorke	SAM Therapy Educational Course Basics of Proton Therapy Moderators: B Arjomandy, C Hua B Arjomandy, M Prabhuti, C Hua, K Teo	Joint Imaging - Therapy Scientific Session **In-Room SBRT Devices and Systems** L Ren, M Paliwal	SAM Therapy Symposium Connecting Radiation Physics with Computational Biology Moderator: J Schuemann J Schuemann, B Ritwari, S McMahan	Imaging Symposium Advances in Image-guided Neurointerventions: Clinical Pull and Technology Push Moderator: G Chen C Strother, G Chen, M Souza, S Rudin	SAM Imaging Educational Course MRI Physics Moderator: Y Xiao Y Xiao, G Bashirian, C Lee, R Pooley	SAM Practical Medical Physics Practical Implementation of Deep Inspiration Breath Hold Techniques for Breast Radiation Therapy Moderator: K Howell K Howell, D Cosma, M Sharpe, S Hadley, X Tang, K Gifford	Imaging Scientific Session **Breast X-Ray Imaging** W Zhao, B Liu	
E 11:15 - 12:15	Professional Symposium Where to Send My Manuscript Moderator: E Klein E Klein, J Williamson, A Kamitsu			Therapy Symposium Motion Management for Proton Beam Scanning: Proton Therapy Moderator: L Lin R Zhu, L Lin, H Li							

Visit the Vendors | 12:15 - 1:45 Lunch Break | Poster close at 12:15 pm | Exhibits close at 2:00 pm

	Room 204	Room 201	Ballroom C	Ballroom B	Ballroom A	Room 202	Room 207A	Room 206	Room 209	Room 207B	Exhibit Hall E
F 1:45 - 2:40	Professional Symposium Mentoring a Successful Career in Research Moderator: C Pinder, K Mohan R Mohan, M Giger, J Denipaty	Joint Imaging - Therapy Symposium High Impact Technologies for Low Resource Environments Moderator: L Court N Ramanujam, L Court, J Hazle, J Patta	Certificate of Completion Course Learning from Medical Errors: A Partnership for Progress Moderators: M Herman, J Moran L Schwartzer Certificate of Completion Course Experiences with TG-100 in Clinical Use Moderator: G Kim G Kim, J Mayadev, S Parker	SAM Therapy Symposium The Challenges of Predicting RBE Effects in Particle Therapy and Opportunities for Improving Cancer Therapy Moderator: D Carlson H Paganetti, D Grassberger, D Carlson, K Held	Therapy Scientific Session **Preclinical Science** R Berbeco, M Kozelusa-Carter	Joint Imaging - Therapy Scientific Session **Imaging Assessment of Treatment Response** R Jeraj, M Cao	Imaging Symposium Advances in Dedicated Breast CT Moderator: S Vedantham S Vedantham, A O'Connell, J Boone, W Salander, A Karellas	Imaging Scientific Session **MRI - Quantitative Imaging** Y Cao, N Tyagi	SAM (1:45 - 2:45) Practical Medical Physics A Practical Guide to Radiation Safety Surveys Moderator: C Dillon C Dillon, M Martin SAM Practical Medical Physics Identifying High Impact Artifacts, Their Causes, and How to Fix Them Moderator: R Pooley B Schaeler, J Kofler, B Kemp, R Pooley	Imaging Scientific Session **CT - Spectral/Dual-Energy Imaging** D Cody, K Taguchi	
G 2:45 - 3:45	Professional Symposium Post-graduate Training of the Next Generation of Academic Medical Physicists Moderator: J Hazle J Hazle, J Deasy										

3:45 - 4:30 Refreshment Break | Level 3 Foyer

	Room 204	Room 201	Ballroom C	Ballroom B	Ballroom A	Room 202	Room 207A	Room 206	Room 209	Room 207B	Exhibit Hall E
H 4:30 - 6:00	History Committee Symposium Moderator: M Goodman D Allard, G Gould, M Mueller	Professional Symposium Opportunities for Physicists to Support Low and Mid Income Countries Moderator: J Pollard J Pollard, W Ngwa, Y Pignaa, P Ngowak	Scientific Session Certificate of Completion Course **Risk Assessment and Patient Safety: New Results** E Ford, A Moore	SAM Therapy Educational Course Big Data in Radiation Oncology Moderator: S Benedict S Benedict, L Xing, T McNutt	Therapy Scientific Session **Biophysical Modeling** R Mohan, J Schuemann	SAM Joint Imaging-Therapy Symposium Session in Memory of Jean Pouliot: Next-Generation Deformable Image Registration Moderator: G Hugo N Kirby, K Brock G Hugo, D Christensen	Imaging Scientific Session **Molecular Imaging** G Cherbo, G Prato	Imaging Symposium Advances in Preclinical Imaging Moderator: G Chen J Wang, B Tsui, S Chu	Imaging Educational Course Cancer/Cognition Distinguished Lecture/Hot Image-Guided Ultrasound Therapy Moderator: T Wilson K Hynynen	SAM Therapy Educational Course **MRgRT** Moderators: T Stanescu, O Green T Stanescu, M Cao, C Shang, O Green	

AAPM Annual Business Meeting | Town Hall Meeting with AAPM Board of Director Members | 6:15 - 7:30 | Ballroom B

Thursday, August 4

	Room 204	Room 201	Ballroom C	Ballroom B	Ballroom A	Room 202	Room 207A	Room 206	Room 209	Room 207B	Exhibit Hall E
A 7:30 - 8:25	SAM (7:30 - 8:30) Therapy Educational Course Tiny Exciting Data – Impact of New ICRU Recommendations Moderator: B Tuch S Seiler, M McKenzie	Therapy Scientific Session **Dosimetry and QA Methods** L Dekkard, J Swartjes	SAM (7:30 - 8:30) Therapy Educational Course New Tools Group for External Beam QA: An Overview Moderator: S Deetrich S Deetrich, S Geetsh, M Mifflin	SAM Therapy Symposium Research Opportunities with Digital Linear Accelerators Moderator: B Wang D Hrycushko, Q Wu, K Sheng, Y Yu, S Niel	Therapy Scientific Session **MRgRT** O Green, B Keller	Joint Imaging - Therapy Scientific Session **Technologies for Tumor Tracking** U Oelfke, C Hua	Imaging Scientific Session **CT - Dose** M McNitt-Gray, N Bevins	Imaging Educational Course Challenges and Opportunities for Nuclear Medicine Theranostics Moderator: D Marcelwe I Hacein, A Dasgupta	Imaging Scientific Session **Emerging Modalities** K Stantz, A Kapadia	SAM (7:30 - 8:30) Imaging Educational Course Shear-wave Imaging and a DIBA US Biomarker Update Moderator: P Carson S Chen, B Garra SAM Imaging Educational Course Pediatric Image Quality Optimization Moderator: C Cleveland C Dodge, J Deng	
B 8:30 - 9:30											

9:30 - 10:00 Coffee Break | Level 3 Foyer

	Room 204	Room 201	Ballroom C	Ballroom B	Ballroom A	Room 202	Room 207A	Room 206	Room 209	Room 207B	Exhibit Hall E
C 10:00 - 10:55	Professional Symposium Medical Physics Workshop: An Update on the Journal's Improvement Activities and Guidance on Writing and Reviewing Papers Moderator: J Williamson J Williamson, S Das, M Goodsitt	Therapy Scientific Session **Next Generation Dosimetry** E Pariza, W Li	SAM (10:00 - 11:00) Therapy Educational Course Emerging Technologies in SABR Delivery Moderators: L Ren, L Wang L Ma, L Wang, L Ren SAM Therapy Educational Course Educational Point Counter/Point: Has Photon RT Hit the Limits? Moderator: B Ayalogun B Ayalogun, E Halle, H Paganetti, C Yu	SAM (10:00 - 11:00) Practical Medical Physics Open Source Hardware in Medical Physics and its Potential to Accelerate Innovation Moderator: F Therriault-Proulx F Therriault-Proulx S Prajapati, A Cunha SAM Practical Medical Physics An Introduction to Research and Clinical Development Using Treatment Planning System APIs Moderator: R Popple R Popple, R Cardan, J Eley, J Moore	Therapy Scientific Session **4D Imaging - CT and MRI** S Kim, Z Liddy	Joint Imaging - Therapy Scientific Session **Use of Images in Radiotherapy Treatment Planning** M Arshipshman, G Sharp	Joint Imaging - Therapy Scientific Session **Monitoring Intra- and Inter-Fraction Motion** L Cervino, G Cassidy	Imaging Scientific Session **Image Processing / Segmentation / Registration / CAD** A Forster, H Xiao	Therapy Scientific Session **Proton Planning and Delivery** S Poorvidar, H Li	Imaging Scientific Session **CT - Novel Systems & Image Quality** J Stayman, L Yu	
D 11:00 - 12:05	Professional Symposium The Pursuit of Radiation Oncology Performance Excellence Moderator: E Sternick E Sternick										

12:00 - 12:50 Boxed Lunch | Level 3 Foyer

	Room 204	Room 201	Ballroom C	Ballroom B	Ballroom A	Room 202	Room 207A	Room 206	Room 209	Room 207B	Exhibit Hall E
E 1:00 - 1:55	SAM Therapy Educational Course AAPM-ASMPB (Russia) IAEPM (Spain) Joint Course on Challenges and Advantages of Small-Field Radiation Treatment Techniques Moderators: J Gagler, C Marras J Seuntjens, J Rivera Vargas, T Krysiaa, K Ford	SAM (1:00 - 2:00) Professional Symposium Teaching Radiology Residents: What, How, and Expectation Moderator: J Zhang W Sensakovic, J Zhang, A Key Professional Symposium Writing Good Multiple Choice Questions Moderator: C Bloch C Bloch, G Gibbert	(12:15 - 2:00 PM) TG220 Workshop Moderator: P Dunscombe P Dunscombe, S Huq, B Thomadsen, E Yorke	Therapy Scientific Session **Advanced Delivery Techniques** R Wersonna, J Rottmann	Joint Imaging - Therapy Scientific Session **4D Imaging - CT and MRI** S Kim, Z Liddy	SAM (1:00 - 2:00) Therapy Educational Course PET for Radiation Therapy Moderator: W Lu T Fox, J Hunter, W Lu Therapy Educational Course MRI for Radiation Therapy Moderator: J Cai M Miller, G Li, J Cai	Imaging Scientific Session **Preclinical and Small-animal Imaging Systems** G Kagadis, Y Seo	SAM (1:00 - 2:00) Imaging Educational Course Radiation Dose Monitoring and Protocol Management Moderator: M Patton B Liu, B Mieschbuch, D Zhang Imaging Educational Course Pitfalls: Reliability and Performance of Diagnostic X-Ray Sources Moderator: R Behling R Behling	
F 2:00 - 2:50											

CLOSE OF MEETING
See you next year in Denver, CO
July 30 - August 3, 2017