

AAPM 2019 JUL 14–18



61ST ANNUAL MEETING & EXHIBITION | SAN ANTONIO, TX

POCKET PROGRAM

BUILDING BRIDGES.
CULTIVATING SAFETY.
GROWING VALUE.

AAPM POLICY AGAINST HARASSMENT AND DISRUPTIVE BEHAVIOR AT MEETINGS

Professional Policy 31

TO REPORT AN INCIDENT:

aapm.ethicspoint.com OR (888) 516-3915

Purpose

AAPM is committed to providing a safe and productive meeting environment that fosters open dialogue and the exchange of professional and scientific ideas, promotes equal opportunities and treatment for all participants, and is free of harassment and discrimination.

- All participants are expected to treat others with respect and consideration and to follow venue rules.
- All meeting attendees are expected to uphold standards of scientific integrity and professional ethics, as described in the AAPM Code of Ethics.

AAPM recognizes that there are areas of science and professional practice that are controversial. An AAPM meeting can serve as an effective forum to consider and debate science and profession-relevant viewpoints in an orderly, respectful, and fair manner.

Policy Statement

AAPM prohibits any form of harassment, sexual or otherwise, as well as other disruptive behavior at its meetings and events.

Scope

The policy herein applies to all members, attendees, speakers, exhibitors, staff, volunteers, and guests at an AAPM meeting including the Annual Meeting, Spring Clinical Meeting, and Summer School and other AAPM-sponsored events, such as committee meetings, council retreats, and social activities. In this context, the policy applies to rooms where AAPM-sponsored educational or scientific sessions or AAPM committee meetings are being conducted, including events held at AAPM Headquarters. It also applies to other areas within the meeting venue controlled by the AAPM such as the registration area, poster halls, and exhibit space. And it applies to events held in conjunction with the meeting and controlled by AAPM such as the AAPM Night Out venue or AAPM-sponsored dinners.

For the full policy text: www.aapm.org/org/policies/details.asp?id=457&type=PP

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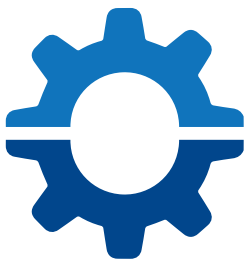
PROGRAM-AT-A-GLANCE	Center Insert
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DOWNLOAD THE AAPM 2019 ANNUAL MEETING APP!



Stay connected during this year's meeting with our native app for iOS and Android.

- Gain off-line access to the Annual Meeting Scientific Program, Committee Schedule, Exhibitor Maps, and much more.
- Find San Antonio's nearby attractions and take advantage of this historical city during your down time.



***Get more information and download the app at:
www.aapm.org/meetings/2019AM/***

BUILDING BRIDGES. CULTIVATING SAFETY. GROWING VALUE.

The theme of this meeting and Presidential Symposium, is **Building Bridges**. Why build bridges? Because doing so **Cultivates Safety** and **Grows our Value** to our organizations and to the patients who benefit from our expertise.

The idiom “*build bridges*” is understood to mean: *improve relationships between people who are very different*. This year’s Presidential Symposium will provide an engaging look at the ways in which we can listen differently and understand better, building stronger and more rewarding relationships in our work environments. In particular, we will look at how negative stereotypes about people different from ourselves, particularly of a different generation, present a significant barrier to positive working relationships. We spend a lot of time with our work colleagues; let’s find a way to enjoy our time together!

The importance of crossing boundaries and building bridges is emphasized throughout our program this year. We have over 30 sessions of programming in *Interdisciplinary Science*, our four Councils are working collaboratively to present an integrated session on *Quality in Medical Physics*, and our Student Meeting is focusing on building bridging to our patients through improved communication. We will have a Professional Symposium on *International Actions* to discuss building better bridges to the global medical physics community. There will be many sessions that focus on the intersection of imaging and radiation therapy, and we will offer a 6-hour course on *MR Safety* in collaboration with colleagues from the International Society of Magnetic Resonance in Medicine. In addition to our Partners in Solutions program in the technical exhibits, which provides unique opportunities to interact with and learn from our vendors, we offer our Partners for the Future program, which opens a dialogue between our corporate partners and individuals training to become medical physicists.

Our Annual Meeting Program Committee has done an exceptional job of building a program that truly offers something for everyone, emphasizing building connections across specialties; amongst individuals in academia, clinical practice, regulatory and industry; across different demographics; and across the globe. Please join us in San Antonio, and when you do, I hope that you will learn about new technologies and new areas of medical physics, and make new connections and new friends. We are strongest as a profession when we cross boundaries, build bridges, and take down silos.

Cynthia McCollough
2019 AAPM President



SESSIONS OF NOTE FROM THE PRESIDENT:

- AAPM Medical Physics Student Meeting: Patient Communication — A Future Role for Clinical Physicists?
- Education Council Symposium: Defining and Measuring Quality in Medical Physics Education
- Joint Council Symposium: Quality in Medical Physics
- Professional Council Symposium: Finding the Most Valuable Use of Limited Time and Resources
- Radiomics
- Multimodality and Nuclear Medicine
- Imaging for Motion Management
- Novel Dosimetry and Calibration Methods
- Society of Physics Students (SPS) Undergraduate Research
- Imaging for Response Assessment
- 4DCT and 4DCBCT
- New and Preclinical Devices: Hardware and Methods
- Nuclear Medicine
- New and Preclinical Imaging
- Error Detection/Incident Learning
- MRI in RT
- Imaging for Treatment Planning

- CT: Artificial Intelligence and Radiomics
- Motion Management: Tracking
- Functional Imaging and Response Assessment
- Automated Patient Safety and QA Methods
- Joint AAPM-SNMMI Symposium: Nuclear Medicine
Theranostics and Functional Image-Guided
Radiation Therapy for Precision Oncology
- ISMRM - AAPM Joint Symposia: MR Safety
Foundations
- Are you Prepared for Cybersecurity? What Industry
is Planning and How You Can Manage It
- International Symposium: Certification of Medical
Physicists Worldwide
- Dual Energy Imaging
- MR-guided Adaptive Radiation Therapy
- President's Symposium: Building Bridges
- John R. Cameron Young Investigator Symposium
- Innovation in Medical Physics Education
- Computed Tomography-guided Interventional
Procedures
- Current Challenges and Prospects in Particle
Therapy
- Imaging of Tumor Response to Radiotherapy: New
Results and Radiobiological Principles
- Novel Approaches to Dose Optimization in Nuclear
Medicine
- From Burnout to Engagement: The Outlook for
Medical Physicist Wellness and Patient Safety
- Communicating Benefit to Risk Ratio from
Radiology Exams to the Patient and Provider
- ISMRM-AAPM Joint Symposia: MR Safety
Operations
- 5D imaging and Treatment Planning for Radiation
Therapy
- The Understanding and Courage to Lead - Part 2
- In Memoriam of Jean St. Germain: The Intersection
of Radiobiology, Radioepidemiology, and Safety
- Data Science Reproducibility/Robustness
- CBCT in Radiotherapy

- MR-only Treatment Planning
- Data Science Applications
- CBCT: Registration and Motion
- Assessment of Equity, Diversity, and Inclusion Challenges and Strengths in the Medical Physics Field
- Medical Physics Life Hacks
- In Memoriam of Peter Dunscombe: Celebrating the Life and Accomplishments of Peter Dunscombe, PhD, FAAPM - A Tireless Champion of Quality, of Care, and Patient Safety
- Carson-Zagzebski Distinguished Lectureship on Medical Ultrasound
- Imaging and Biomarkers of Response
- Data Science in Medical Physics
- Biomedical Modeling Using Imaging Data
- WMIS/AAPM Joint Symposium: Nanotechnology
- MR guided RT: Treating with On-board MRI
- The Understanding and Courage to Lead - Part 4
- New Member Symposium: Becoming Employed and Involved in Medical Physics
- CT: Dual Energy and Spectral CT
- Imaging for Response Assessment
- MRI: Artifacts, Correction, and Reconstruction
- Radiomics and Quantitative Imaging
- Integrating Radiomics and Genomics for Personalized Cancer Therapy in the Era of AI and Big Data
- Session in Memory of Edward Nickoloff: Joint Commission Update: Satisfying the Joint Commission Fluoroscopy Requirements
- Breaking Out of the Clinic: Non-Clinical Careers in Medical Physics
- ISMRM-AAPM Joint Symposia: MR Safety for Experts
- Diagnostic Ultrasound QA/QC Hands-on Workshop
- Spectral and Photon Counting CT

- How will IEC Standards Updates Affect the Practice of Medical Physics?
- Managing Conflicts of Interest: Building Trust and Improving Outcomes
- Advances in Ultrasound Imaging Technology
- Medphys Slam
- Contrast-enhanced and Functional Imaging of the Breast
- How to Successfully Interface with Vendors
- NIH Investigator Scientific Highlights
- Advanced Ultrasound Imaging in Clinical Applications
- In Memoriam of Libby Brateman: Education, Licensure, Guidance and Mammography-Enhancing the Recognition of the Medical Physics Profession
- Imaging for Particle Therapy
- Outstanding Science Published in 2018: Medical Physics and JACMP
- AAPM Annual Business and Town Hall Meeting
- Novel Applications in Cardiac Imaging and Therapeutics
- Adaptive Radiotherapy
- AAPM Grand Challenges Symposium
- Reducing Sedation and Anesthesia in Pediatric Radiology
- Computed Tomography
- Brachytherapy
- MRI in Radiation Therapy
- Deep Learning for Image Reconstruction and Processing
- The Anne and Donald Herbert Distinguished Lectureship in Modern Statistical Modeling
- Robust and Reproducible Research in Medical Physics
- Adaptive Radiation Therapy (Online, Offline, Real Time)
- Vendor Related Mammography Updates



AMERICAN ASSOCIATION
of PHYSICISTS IN MEDICINE



Integrating Healthcare Enterprises - Radiation Oncology (IHE-RO)

**is an AAPM/ASTRO-sponsored initiative for
improving the functionality of the radiation
oncology clinic.**

**AAPM would like to thank the main members that
participate in IHE-RO:**

Accuray
Brianlab
Duke University Medical
Center
Elekta
Epic
Mevion Medical Systems
MIM Software
Mirada Medical
OSL
Philips Healthcare
RaySearch Laboratories

RefleXion Medical
Sun Nuclear Corporation
Standard Imaging Inc.
University of California,
San Francisco
University of Michigan
Varian
Veterans Administration
ViewRay
Washington University of
St. Louis
West Virginia University

**More information can be found at:
www.aapm.org/IHERO/**

PROGRAM INFORMATION

The general layout of rooms for various programs is as follows, although there are numerous exceptions throughout the week, so check the program carefully:

- **Therapy (Education & Scientific)**
Stars at Night 1 and 4
- **Imaging (Education & Scientific)**
Rooms 221AB and 221CD
- **Multidisciplinary**
Stars at Night 2-3 and Room 225BCD
- **Professional**
Room 301 and 302
- **Practical Medical Physics**
Room 304
- **Specialty Track — Ultrasound**
Room 303

CONTINUING EDUCATION

Medical Physicists

The AAPM 61st Annual Meeting & Exhibition has been accredited by the Commission on Accreditation of Medical Physics Education Programs (CAMPEP).

One Medical Physics Continuing Education Credit (MPCEC) per hour will be awarded for each course, ePosters symposia, and proffered paper session. Up to eight hours of credit will be awarded for the viewing of Eposters. To obtain credit, attendees MUST complete an online evaluation survey.

Medical Dosimetrists

To obtain credit, attendees must complete an online evaluation survey. Badge ID and CMD Number are required.

Credits/Online Evaluation System

To obtain credit, attendees must complete an online evaluation survey. Internet/CEC terminals are available in the convention center for this purpose. The Online Evaluation System will also be available via the AAPM website. AAPM is providing complimentary Wi-Fi throughout the convention center (AAPM session rooms, exhibit hall and function space).

The Online Evaluation System will remain open through **11:59 pm ET, August 13**. Evaluations **MUST** be completed by that time for credits to be earned. MPCEC, MDCB, and SAM credits will be released on **August 20, 2019**.



Please note: You must enter your **Badge ID** and **last name** in order to access the CEC evaluation system.

Once you have completed evaluating ALL sessions attended, select **FINALIZE PROGRAM EVALUATION**. *Please note you will no longer have access to edit your evaluation once you have FINALIZED the evaluation.*

Medical Physicists

AAPM will provide CAMPEP with participant contact information, credits earned, and the appropriate processing fees in order for individual participants to access their personal AAPM 61st Annual Meeting & Exhibition transcript via the CAMPEP online MPCEC Repository database. Please be advised, CAMPEP transcripts are viewable via the CAMPEP online MPCEC Repository database. Participants will not receive a hardcopy CAMPEP transcript. Should a participant need a hardcopy of the AAPM 61st Annual Meeting & Exhibition transcript, an individual may order a hardcopy transcript from CAMPEP.

Medical Dosimetrists

Following the meeting, AAPM will report the medical dosimetrist credits earned to the MDCB.

Maintenance of Certification — Self-Assessment Continuing Education Program

Many medical physicists now require Maintenance of Certification (MOC) as defined by the American Board of Radiology:

- At least 75 continuing education (CE) credits are required every 3 years.
- CE credits may be met by a combination of Category 1 credits (CAMPEP or ACCME) and self-directed educational projects (SDEPs).

- At least 25 of the 75 CE credits must be self-assessment CE (SA-CE).
- Other than ABR prequalified self-assessment modules (SAM) and SDEPs, the ABR will count all AMA Category 1 CME activities in “enduring materials” (including web-based and print) and “journal-based CME” formats toward the MOC self-assessment requirement.
- SAM are not required, but can be used to meet the (SA-CE) requirements.

AAPM has elected to offer Self-Assessment Modules (SAM) at the Annual Meeting as the mechanism by which attendees can earn SA-CE. In order to earn SA-CE credit you are required to (1) verify your attendance at each SAM session and (2) answer SAM questions online. There is no pass/fail and you will not be graded on your responses.

In an effort to provide increased SAM offerings and to allow the maximum time for speakers to adequately cover presentation content, AAPM has streamlined the SAM process. It's simple....

- SAM session attendance will be automatically verified via a Bluetooth Low Energy (BLE) beacon as you enter the session room.
- Complete the SAM session questions using the Online Evaluation System.

Here's how to successfully obtain SA-CE credit:

Individuals interested in earning SA-CE credit must register for SAM pre-meeting or onsite.

- Stop at the registration counter to pick up your badge and beacon.
- Upon entering a designated SAM session, your attendance will automatically be verified via your beacon. You must attend the entire SAM session to be eligible to obtain SAM credit.
- To obtain credit, you must answer the SAM questions associated with the session in the Online Evaluation System. Your answer does not need to be correct to earn credit, however, you must respond to all questions for the session to earn credit.

- Your responses are a self-assessment of knowledge gained during designated sessions. In the evaluation system, you will be provided with the aggregate of how other participants responded to each question along with your answer.
- The Online Evaluation system will remain open through 11:59 pm ET, August 13, 2019. Evaluations **MUST** be completed by that time for credits to be earned.

Radiologic Technologists

This program will be submitted for credit to the American Society of Radiologic Technologists (ASRT) for Category A credits. To obtain credit, attendees must:

- Log onto the online evaluation system.
- Enter a valid ASRT ID # (credit will not be provided if the number is not valid).
- Evaluate each session attended.
- 30 days post meeting, AAPM will provide certificates to Category A credit recipients.

Please note:

SAM sessions are open to all meeting attendees. Individuals who do not need SA-CE credits can attend the sessions and complete the online evaluation to obtain MPCEC credit. SAM questions are not provided to Non-SAM participants.

EVALUATE IN REAL TIME!

- Use a personal smartphone, tablet, or laptop to access the Online Evaluation System in order to evaluate a session and complete SAM questions in real time during the session.
- Each SAM question is available via the meeting website for viewing during the meeting.

INVITED SPEAKER HANDOUTS

Handouts are available for certain presentations via the AAPM website at:

w3.aapm.org/meetings/2019AM/programInfo/programHandouts.php

Handouts will not be distributed in hard copy on site.

SPEAKER READY ROOM

Room 224, Convention Center

Saturday – Wednesday

7:00 am – 6:00 pm

Thursday

7:00 am – 2:30 pm



AMERICAN ASSOCIATION
of PHYSICISTS IN MEDICINE

AAPM MERCHANDISE



**MAKES A
GREAT GIFT, TOO!**



The first in a selection of AAPM branded merchandise, these high-quality scarves and neck ties are made in America and custom-designed especially for AAPM.

Every creation is handmade to your order preference. Choose from rectangular and square scarves made from very fine, lightweight silk-like poly chiffon, as well as neck and bow ties made with custom milled poly twill fabric that has the look and feel of silk with minimal sheen.

Now on Display at the
**AAPM Member Resources Center,
Registration Lobby**



AMERICAN ASSOCIATION
of PHYSICISTS IN MEDICINE

CAREER SERVICES

on-site here in San Antonio!



Are you hiring or looking to be hired?

Stop by the AAPM Career Services Center
Registration Lobby, Convention Center
to see the exciting jobs and candidates available
among your fellow meeting attendees.

An interview room is open should you need it; staff will
gladly assist with reservations, as well as demonstrate
and answer questions regarding the online AAPM
Career Services site.

aapm.org/careers

Available to job seeking and hiring
members year-round!

| ASSOCIATION SERVICES

AAPM HEADQUARTERS OFFICE

Republic AB, Fourth Floor, Grand Hyatt

Friday	4:00 pm – 6:00 pm
Saturday – Sunday	7:30 am – 6:00 pm
Monday – Wednesday	8:00 am – 6:00 pm
Thursday	8:00 am – Noon

The HQ Office team provides key support to committee volunteers as well as logistical meeting support at the HQ Hotel.

SHOW MANAGEMENT OFFICE

Room 305, Convention Center

Friday – Wednesday	8:00 am – 6:00 pm
Thursday	8:00 am – 3:00 pm

The Show Management team provides meetings and technical exhibits support at the Convention Center.

AAPM MEMBER RESOURCES

Registration Lobby, Convention Center

210-582-7001

Sunday – Wednesday	7:30 am – 6:30 pm
Thursday	7:30 am – 3:00 pm

The Member Services team assists with membership and general questions.

AAPM CAREER SERVICES

Registration Lobby, Convention Center

Sunday – Wednesday	7:30 am – 6:30 pm
Thursday	7:30 am – 3:00 pm

AAPM Career Services brings medical physics job seekers and hiring employers together via a feature-rich online job site. During the Annual Meeting, the traditional free on-site job listing and resume bulletin boards will be available. In addition, an interview room is available for when you find that perfect candidate. Please see staff to reserve the interview room or for a demonstration or answers to questions regarding the online AAPM Career Services site.

AAPM EDUCATION & RESEARCH FUND DONORS' LOUNGE

Registration Lobby, Convention Center

Sunday – Wednesday	7:30 am – 6:30 pm
Thursday	7:30 am – 3:00 pm

Donors who have made a lifetime contribution of \$100 or more to the Education & Research Fund will have access to the Lounge. Comfortable seating, beverages, and electronic charging stations will be available in the E&R Fund Donors' Lounge.

Make a Contribution

Individuals who wish to make a donation to the AAPM Education & Research Fund can do so at the E&R Fund Donors' Lounge. For additional information about the AAPM Education & Research Fund, please visit:

www.aapm.org/education/edfundintro.asp

AAPM NEW ATTENDEE ORIENTATION

Room 220, Convention Center

Sunday	7:30 am – 8:30 am
Monday	9:30 am – 10:30 am

An *essential* meeting for first time AAPM Annual Meeting attendees. Meet other new and first time attendees as well as gain insight and tips on how to navigate the various sessions and learning strategies for steering through the Exhibit Hall from some veteran meeting goers.

AAPM BUSINESS MEETING/TOWN HALL

Stars at Night Ballroom 2-3, Convention Center

Wednesday	6:15 pm – 7:30 pm
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How can the organization better serve you? During the Annual Business Meeting, AAPM's President and Treasurer will report on the status of the organization. Immediately following, the AAPM Board of Directors will take questions from the audience.



focus on our future

Visit the **AAPM Education & Research Fund Donors' Lounge**

**Registration Lobby, Convention Center to
DONATE NOW!**

The AAPM Education & Research Fund supports the development of our great profession via the provision of seed money for research, fellowships for PhD students, fellowships for undergraduate students, and grants to support Imaging Physics residencies.

Without contributions from our generous members we would never have been able to provide the now over 100 grants, fellowships, and residencies since the inception of the Fund 23 years ago.

All contributions are tax deductible. Larger donations may be designated for specific fellowships, residencies, travel awards, research, or other suitable purposes.

**Give to the
AAPM Education & Research Fund**
www.aapm.org/education/edfundintro.asp

AAPM CHAPTERS: HISTORICAL POSTERS

SUNDAY – THURSDAY

Convention Center

The AAPM History Committee would like to thank the following AAPM Chapters for preparing historical posters. Posters of historical record are important to AAPM and to its members as a means of reflection and pride from which such historical facts and past individual efforts can be shared to its members nationally. Posters are available for viewing Sunday–Thursday in the Convention Center.

- **Connecticut Chapter:** B Blankenship, Z Chen, A Jones, S Kamath, C Kirschner, H Lincoln, A Nunn, C Tien
- **Delaware Valley Chapter:** X Zhu, C Peng, L Kim, J Dave, A Harrison, P Salanitro
- **Florida Chapter:** O Zeidan, S Leon, S Herchko, K Padgett, K Hintenlang
- **Great Lakes Chapter:** S Gardner, X Ding, C Lee, B Miller, C Smith
- **Missouri River Valley Chapter:** M Hyun, N Soni, S Yaddanapudi, N A Mensah-Brown, B Dirksen
- **New Jersey Chapter:** C Shi, S Murphy, J Napoli, T Chen, Y Zhang, T Cui
- **North Central Chapter:** P Hill, Z Labby, A Tao, J Johnson
- **Northwest Chapter:** R Miller, J Moirano, M Lambert, L Long, S Geneser
- **Ohio River Valley Chapter:** P Sandwall, S Thomas, M Gossman, D Cheek, A Ayan, A Cetnar
- **Penn-Ohio Chapter:** R A Siochi, A Godley, M Zhang, J Donaghue, B Coopey, Z Shen, V Colussi
- **RAMPS NY Chapter:** N Tyagi, S Lim, U Mahmood, J Sillanpaa, K Hamacher, C Della Bianca
- **Rocky Mountain Chapter:** K McCullough, D Huo, E Kinsey, I Shah, O Blasi
- **Southeast Chapter:** S Parker, M Wells, B Sintay, J Wilson, T Hayes, N Koch
- **Southwest Chapter:** B Parker, J Dugas, S McCullough, L Page, A Jones
- **Upstate New York Chapter:** S Raina, R Kincaid, M Shaikh, V Patel, H Malhotra

| GENERAL INFORMATION

REGISTRATION

Lobby, Convention Center

210-582-7002

Registration will be open during the following times:

Saturday – Wednesday	7:00 am – 6:30 pm
Thursday	7:00 am – 3:00 pm

Beacons

All scientific attendees will be given a Bluetooth Low Energy (BLE) beacon. This enables AAPM to monitor traffic patterns and enhance customer service. While the beacon is used for attendance tracking for those who require Maintenance of Certification (MOC) SAM, data is anonymized for those attendees who do not require MOC.

EXHIBIT HOURS: EXHIBIT HALLS 2-3

Street Level, Convention Center

Sunday	12:30 pm – 5:00 pm
Monday – Tuesday	9:00 am – 5:00 pm
Wednesday	9:00 am – 2:00 pm

INTERNET ACCESS

AAPM is providing complimentary Wi-Fi throughout the convention center (AAPM session rooms, Exhibit Hall, and function space). Look for AAPM2019 and use password: **Bridges2019**

[For your own protection, always use a VPN.]

Internet/CEC Terminals

Ballroom Level, Convention Center

Use the terminals to access the Internet and the Online Evaluation System, which must be completed and submitted for continuing education credit.

CHARGING STATIONS

Ballroom Level, Convention Center

Need to charge your phone or other electronic device? Charging stations are available in the Connection Lounge in the Exhibit Hall and at the Internet/CEC terminals, Ballroom Level.

CONNECTION LOUNGE

Exhibit Hall, Street Level, Convention Center

Take some time out to recharge. The Connection Lounge offers comfortable seating with access to power and charging stations.

CHILD CARE SERVICES

Room 006AB, River Level, Convention Center

Accent on Children’s Arrangements, Inc. offers age-oriented activities for children ages 6 months – 12 years. Onsite registration is still available. If you have not already pre-registered your child, stop by for details on the following package options:

Package Options	6 – 36 Mos	3 – 12 Yrs
7:00 am – 1:00 pm	\$65	\$50
1:00 pm – 6:30 pm	\$65	\$50
Full Day: 7:00 am – 6:30 pm	\$115	\$85

Saturday

Noon – 6:30 pm

Sunday – Thursday

7:00 am – 6:30 pm

Please note: Children 11 and under will not be allowed in the Exhibit Hall or in session rooms.

COMPANIONS’ WELCOME CENTER

Room 222, Meeting Level, Convention Center

A Companions’ Welcome Center is available to registered companions of the AAPM 61st Annual Meeting & Exhibition. A hostess with knowledge of the local attractions will be available to address your questions and interests each morning until 11:00 am.

Sunday – Wednesday

8:00 am – 5:00 pm

Thursday

8:00 am – 11:00 am

ePOSTERS

Exhibit Halls 2–3

General ePoster Discussions

In addition to the moderated ePosters in the ePoster Theater, we will expand our ePoster capabilities and include a select group of high-scoring posters identified by the Program Directors to be of special interest to attendees of the scientific program. This is an alternative to the hardcopy general poster to allow the authors to present their general poster electronically at a large screen display, dedicated

to only their poster during a specifically assigned 30-minute timeslot. These General ePoster presentations will promote lively discussion and scientific exchange. They will take place in Forums 1-9 in the exhibit hall.

ePoster Presentations

Best in Physics (ePoster Theater)

Sunday	3:00 pm – 4:00 pm
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Campus (ePoster Theater) Provost will moderate

Sunday	4:00 pm – 5:00 pm
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Monday and Tuesday	4:30 pm – 5:30 pm
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General ePoster Discussions

(ePoster Theater & ePoster Forums)

Sunday	3:00 pm – 5:00 pm
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Monday	9:30 am – 10:00 am
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1:15 pm – 1:45 pm

3:45 pm – 4:15 pm

Tuesday	9:30 am – 11:00 am
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1:15 pm – 1:45 pm

3:45 pm – 4:15 pm

Wednesday	9:30 am – 11:00 am
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ePoster Viewing

Sunday	12:30 pm – 5:00 pm
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Monday – Tuesday	9:00 am – 5:00 pm
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Wednesday	9:00 am – 2:00 pm
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Society of Physics Students ePoster Session

Sunday	3:00 pm – 3:30 pm
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Expanding Horizons ePoster Session

Tuesday	9:30 am – 10:30 am
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LOST AND FOUND

Return found items to the AAPM Registration Desk. Items will be turned over to convention center security at the end of each day. If you have lost an item, please check with Registration first; if Registration is closed, call 210-207-7773.

FIRST AID OFFICE AND WELLNESS ROOM

H2-01, Hall 2 entrance, Convention Center

For minor medical issues, you may visit the First Aid Office personally. If you have a medical emergency, please call security at 210-207-7773. They will dispatch a medical services provider to your location. Individuals needing a private area for personal medical reasons may use the draped section of the First Aid Office.

NURSING MOTHERS ROOM

Room 1212, Lobby corridor between Halls 3 & 4, Convention Center

This is a dedicated Nursing Mothers Room, separate from the Wellness Room. A second dedicated Nursing Mothers Room is located on the West side of the building, Room 2137 (near Room 215).

REFLECTION/PRAYER ROOM

Room 006D, River Level, Convention Center

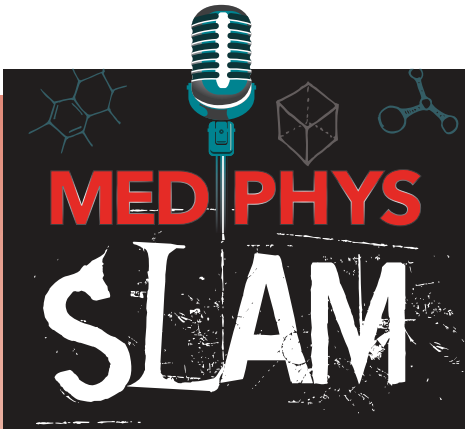
Sunday – Wednesday	7:30 am – 6:00 pm
Thursday	7:30 am – 3:00 pm

LUGGAGE STORAGE SERVICE

Near AAPM Registration, Convention Center

\$3/bag

Saturday – Wednesday	7:00 am – 6:30 pm
Thursday	7:00 am – 3:30 pm



Join us as the AAPM Chapter preliminary winners of this research communication competition battle it out in the finals with a three-minute presentation aimed at sharing the significance of their science in a compelling yet understandable manner.

Participants will be judged by a non-physicist panel on three equally weighted categories:

- comprehension/content
- communication • engagement

FOOD & BEVERAGE SERVICES

MARKET CAFÉ

Registration Lobby, Convention Center

7:30 am – 5:00 pm

Open daily, the market cafe offers coffee, snacks and meals.

COMPLIMENTARY FOOD SERVICE

Lunch Vouchers

Each Scientific Attendee at the Annual Meeting will receive TWO lunch vouchers with their registration materials. Exhibiting companies will also receive lunch vouchers based on booth size. Redeem your lunch vouchers in one of the two designated areas in Exhibit Halls 2-3 (see Technical Exhibits Map). Vouchers are valid Monday and Tuesday only, between 12:15 pm – 1:45 pm.

Voucher Options

- Monday, July 15
Vegetarian/GF/Vegan: Chef Salad
Regular: Chicken Caesar Wrap
- Tuesday, July 16
Vegetarian/GF/Vegan: Spinach Salad
Regular: Turkey on Sourdough

Includes bags of chips and soda or bottled water.

FOLLOW US ON INSTAGRAM!

www.instagram.com/aapmHQ/

**See photos from AAPM HQ
and attendees of the
AAPM Annual Meeting all week.**



Keep up with all of the AAPM Annual Meeting posts by following us on Instagram!

Refreshment Breaks

Complimentary food and beverages will be served in designated areas as follows:

Exhibit Hall Break Areas

Sunday	12:30 pm – 1:00 pm 3:00 pm – 3:30 pm
Monday – Tuesday	9:30 am – 10:15 am 3:45 pm – 4:30 pm
Wednesday	9:30 am – 11:00 am

Meeting Room Level and Stars at Night

Ballroom Foyer

Wednesday	3:45 pm – 4:30 pm
Thursday	9:30 am – 10:00 am

Meeting Room Level and Stars at Night

Ballroom Foyer

Thursday Boxed Lunches	Noon – 12:50 pm
------------------------	-----------------

TICKETS ARE REQUIRED FOR EVENTS

Registrants may purchase an unlimited number of social function tickets to attend the AAPM Awards Ceremony and Reception and the Night Out event. You do not need to be registered for the meeting to attend either function. Companions must be registered to enter the Exhibit Hall.



**Third Annual
AAPM-Sponsored
Science Outreach
Event**

The AAPM Women’s Professional Subcommittee and the Students and Trainees Subcommittee collaborated on this effort to stimulate interest in science and give local middle and high school students a unique opportunity. Approximately 30 students will tour our exhibit show floor on Sunday, guided by a diverse group of medical physicist mentors.

| SOCIAL PROGRAM

AAPM AWARDS CEREMONY & RECEPTION

Lone Star Ballroom, Second Floor, Grand Hyatt

Monday, July 15 | 6:30 pm – 8:00 pm

Followed by a Reception, 8:00 pm – 9:00 pm

Texas Ballroom, Fourth Floor, Grand Hyatt

Recipients of special awards will be honored during a ceremony, followed by a wine and cheese reception.

NIGHT OUT:

LA VILLITA HISTORIC ARTS VILLAGE

418 Villita St, an

easy walk from the

Convention Center

Tuesday, July 16

6:30 pm – 10:00 pm

Meet your colleagues at the venue for limited light snacks and then make your way to one of



the many restaurants in the area for dinner. Or, dine first and make your way to the event for a bite of something sweet at the end of the evening!

La Villita, settled nearly 300 years ago as one of the city's first neighborhoods, now serves as an artists' market with tree-lined walkways, shops and galleries. Many will be open for a unique shopping experience during the event; find handmade accessories, original works of art, fine-designed threads and other one-of-a-kind keepsakes.

The outdoor Arneson River Theater will feature live music by the Juke Box Heroes Quartet, specializing in the greatest Motown hits and classic rock of the 70's. Inside Venue Villita, The Pictures Band will cover songs from the 50s to the 90s, plus Top 40, Disco, Funk and Country. Look for outdoor games, including giant Jenga and ladder golf just outside on Venue Villita's patio.

Please note: Each adult Night Out ticket will include one drink ticket, good for beer or a glass of wine. Once your ticket is used, cash will be accepted. Non-alcoholic drinks will not require a ticket.

AAPM 2019 JUL 14–18



THANK YOU!

AAPM would like to express its sincere thanks to the following exhibitors for their contributions and support of the 2019 AAPM Annual Meeting & Exhibition:

- **Accuray, Inc. (Booth #338)**
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- **MuCheck Oncology Data Systems (Booth #609)**
Wide Emotion Media Wall
- **PTW North America Corporation (Booth #538)**
Residency Fair
- **Qfix (Booth #900)**
Attendee Tote Bags
- **Radformation (Booth #829)**
Meeting Banners — Escalator Clings & Ballroom Level Clings
- **Radiological Imaging Technology, Inc. (Booth # 806)**
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- **RaySearch Laboratories AB (Booth #600)**
Wide Emotion Media Wall
- **ScandiDos (Booth #122)**
Student Night Out
- **Standard Imaging, Inc. (Booth #328)**
Meeting Banners – Escalator Clings
New Member Symposium Refreshment Break
- **Sun Nuclear Corporation (Booth #200 and #300)**
Wide Emotion Media Wall
- **The American College of Radiology (ACR) (Booth #135)**
Residency Fair

| 2019 EXHIBITORS **GUIDE**

100	iRT Systems GmbH	516	ModusQA
117	Wolters Kluwer	524	DOSIsoft
119	Imaging Technology News	526	The Phantom Laboratory / Image Owl
121	Medical Physics Publishing	538	PTW North America Corporation
122	ScandiDos	600	RaySearch Laboratories AB
125	U.S. National Cancer Institute Radiation Epidemiology Branch	609	MuCheck - Oncology Data Systems
127	American Institute of Physics	619	Fluke Biomedical, RaySafe & LANDAUER
128	Vision RT	623	Canon Medical Systems USA, Inc.
129	American Board of Radiology	625	University of Wisconsin - ADCL
131	American Board of Medical Physics	628	IBA Dosimetry
133	International Organization for Medical Physics (IOMP)	629	Radiation Products Design, Inc.
135	American College of Radiology	638	Acceletronics/ RadParts
146	Seg Ana	642	Bayer Healthcare, LLC
200, 300	Sun Nuclear Corporation	644	DYN'R
216	Elekta	648	Advanced Radiation Measurements, Inc.
246	Klarity	646	SECTRA
247	QAELUM	739	CDR Systems, Inc.
249	Heuris, Inc.	743	Imalogix
328	Standard Imaging	745	CTSI Oncology Solutions
338	Accuray, Inc.	746	IMT
346	Mobius Imaging	800	Mevion Medical Systems
347	RAD Technology Medical Systems	806	Radiological Imaging Technology, Inc.
349	Sensus Healthcare		
500	ViewRay, Inc.		
508	Radcal Corporation		

AAPM ACTIVITIES | STREET LEVEL

AAPM Member Resources Center

membership@aapm.org

www.aapm.org

Got a question? Need an answer? We're here to help. Whether it has something to do with your membership or you just want to learn more about the programs and services offered by AAPM, we welcome any and all queries and look forward to personally welcoming you to San Antonio. Be sure and check out the NEW AAPM signature merchandise and find out how you can order yours!

AAPM Career Services Center

careers@aapm.org

careers.aapm.org

AAPM Career Services (careers.aapm.org) brings medical physics job seekers and hiring employers together via a feature-rich online job site. At the AAPM Annual Meeting, the traditional free on-site job listing and resume bulletin boards will be available. In addition, there will be an interview room open for reservations for when you find that perfect candidate. Our staff will gladly demonstrate and answer questions regarding the online AAPM Career Services site.

AAPM Education & Research Fund Donors Lounge

www.aapm.org/education/edfundintro.asp

No matter if you're taking time between sessions for a well-deserved break, visiting the Exhibit Hall, catching up on emails, or scheduling a meeting with colleagues, the Donor Lounge can be a welcome respite throughout the Annual Meeting. Donors to the E&R Fund are welcomed with hot and cold beverages, use of charging stations for phones and laptops, and that all-important internet connection.

PARTICIPATING EXHIBITORS

Acceletronics/RadParts

Booth: 638

James Young, Jr.
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Exton, PA 19341
Phone: 800-543-5144
Fax: 610-524-3304
www.acceletronics.com
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Accuray, Inc.

Booth: 338

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American Board of Medical Physics

Booth: 131

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San Antonio, TX 78278

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abmpexam@gmail.com

The mission of the American Board of Medical Physics is to improve the Quality of Medical Physics practice by awarding professional certification to medical physicists and MRI scientists working in a clinical environment.

Aktina Medical

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Booth: 135

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American Institute of Physics

Booth: 127

Frank Graeff

One Physics Ellipse

College Park, MD 20740

Phone: 301-209-3080

www.aip.org

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The American Institute of Physics (AIP) advances, promotes, and serves the physical sciences for the benefit of humanity. AIP is a federation of physical science societies, including AAPM, and offers authoritative information and services through its science communication, public policy, career services,

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CIRS

Booth: 1006

Ms. Eryn Lee

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Norfolk, VA 23513

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www.cirsinc.com

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Civatech Oncology**Booth: 1420**

Randy Harrison

P.O. Box 14310, Research Triangle Pk.

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CTSI Oncology Solutions**Booth: 745**

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Wexford, PA 15090

Phone: 412-328-0075

Fax: 412-365-0749

www.ctsi.com

briggsLa2@d3onc.com

CTSI facilitates the use of clinical processes and technology solutions that ensure the delivery of precise, consistent and safe care to cancer patients worldwide. CTSI provides a range of services across four segments: Medical Physics and Dosimetry, Training and Education, Technology and Analytics and Management and Advisory Services. The CTSI Group acquired D3 Oncology Solutions in February 2018 to add to the depth of capabilities within its oncology platform.

DoseOptics, LLC**Booth: 1416**

16 Cavendish Ct.

Lebanon, NH 03766

DOSIsoft**Booth: 524**

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j.kafrouni@dosisoft.com

Founded in 2002, DOSIsoft is a leading provider of patient-specific imaging & dosimetry software solutions in Radiation Oncology and Nuclear Medicine. Over 200 centers in 26 countries use its vendor-neutral solutions to improve patient safety & treatment quality. Spin-off between Gustave Roussy and Institut Curie, DOSIsoft constantly innovates in partnership with the major cancer institutes and research centers in the world.

DYN'R**Booth: 644**

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Elekta**Booth: 216**

Doris AuBuchon
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www.elekta.com
doris.aubuchon@elekta.com

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**Fluke Biomedical, RaySafe
& LANDAUER****Booth: 619**

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FUJIFILM Medical Systems USA, Inc. Booth: 1345

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PROGRAM AT A GLANCE | SUNDAY, JULY 14

■

Imaging Education

■

Imaging Scientific

■

Therapy Education

■

Therapy Scientific

■

Multi-Disciplinary Scientific

■

Professional

■

Practical Medical Physics

■

Specialty Track: Ultrasound

President's Sessions of Note Scientific

EXHIBIT HALL ACTIVITIES

12:30 pm–5:00 pm

EXHIBIT HALL HOURS

12:30 pm and 3:00–3:30 pm

BREAKS
Refreshment Breaks

3:00–3:30 pm

ePOSTER DISCUSSION
Society of Physics Students (SPS)
Undergraduate Research
Forum 4
Presenting Authors available

3:00–4:00 pm

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

3:00–5:00 pm

GENERAL ePOSTER DISCUSSION
Forums 1 – 9
Imaging | Multi-Disciplinary | Therapy

4:00–5:00 pm

ePOSTER CAMPUS
ePoster Theater | Forums 1 – 3
Imaging: Modeling and Radiomics
Provost: A Karellas

Multi-Disciplinary: Radiomics
Provost: H Al-Hallaq

Therapy: Experimental Radiation Techniques
Provost: J Wong

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

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

PROGRAM AT A GLANCE | MONDAY, JULY 15

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

EXHIBIT HALL ACTIVITIES

9:00 am–5:00 pm	EXHIBIT HALL HOURS
9:30–10:15 am	BREAKS
12:15–1:45 pm	Coffee Break
3:45–4:30 pm	Lunch Break + Visit the Technical Exhibits
	Refreshment Break
9:00–10:00 am	GENERAL ePOSTER DISCUSSION
1:15–1:45 pm	Forums 1 – 9
3:45–4:15 pm	Imaging Multi-Disciplinary Therapy
1:30–3:45 pm	PARTNERS in SOLUTIONS PinS Room Hall 2 Therapy: Scripting Moderator: N Brown
4:00–5:00 pm	PROFESSIONAL SYMPOSIUM PinS Room / Hall 2 ABR Exam Prep for Therapy Moderator: D Saenz D Saenz, S Prajapati, D Saenz, G Frey
4:30–5:30 pm	ePOSTER CAMPUS ePoster Theater Forums 1 – 3 Imaging: Computed Tomography Provost: D Cody Multi-Disciplinary: Deep Learning Provost: S Jiang Therapy: Outcome Modeling Provost: E Yorke

AAPM AWARDS CEREMONY & RECEPTION

6:30–8:00 pm	CEREMONY Grand Hyatt Hotel Lone Star Ballroom
8:00–9:00 pm	RECEPTION Grand Hyatt Hotel Texas Ballroom

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

PROGRAM AT A GLANCE | TUESDAY, JULY 16

■

Imaging Education

■

Imaging Scientific

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Therapy Education

■

Therapy Scientific

■

Multi-Disciplinary Scientific

■

Professional

■

Practical Medical Physics

■

Specialty Track: Ultrasound

⚙️

President's Sessions of Note Scientific

EXHIBIT HALL ACTIVITIES

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

AAPM NIGHT OUT

6:30–10:00 pm La Villita Historic Arts Village

	ROOM 301	ROOM 302	STARS AT NIGHT 4	STARS AT NIGHT 1	STARS AT NIGHT 2-3	ROOM 225 BCD	ROOM 221AB	ROOM 221CD	ROOM 304	ROOM 303
A 7:30–8:30	SAM Therapy Educational Course 5D imaging and Treatment Planning for Radiation Therapy Moderatoar: J Cai D Low, J Cai, C Shi	SAM Professional Symposium The Understanding and Courage to Lead—Part1 Moderator: J Johnson A Cucolo, A Cucolo, G Cardarelli, J Zoberi	SAM Therapy Educational Course Surface Image Guided Radiotherapy Moderator: A Gutierrez A Gutierrez, D Stanley, H Al-Hallaq, R Foster	Therapy Scientific Session Proton and Particle Therapy J Dougherty, C Peeler	Multi-Disciplinary Scientific Session Deep Learning Applications J Deasy, G Hugo	Multi-Disciplinary Scientific Session Novel IGRT D Pafundi, A Sawant	Imaging Scientific Session Novel and Preclinical Imaging K Li, L Xing	SAM Imaging Educational Course ISMRM-AAPM Joint Symposia: MR Safety Operations Moderator: R Stafford V Kimbrell, H Chandarana, H Edmonson, V Kimbrell	SAM Practical Medical Physics Course Communicating Benefit to Risk Ratio from Radiology Exams to the Patient and Provider Moderator: K Kanal M O'Connor, E Ritenour, S Brady, R Otto	SAM Ultrasound Symposium Novel Aspects and Clinical Implementation of Focused Ultrasound Moderators: R Chopra, S Sammett S Sammet, R Chopra, Z Xu, M O'Reilly
B 8:30–9:30	SAM Therapy Educational Course In Memoriam of Jean St. Germain: The Intersection of Radiobiology, Radioepidemiology, and Safety Moderator: L Rothenberg L Rothenberg, E Yorke, J Bernstein, G Kim	SAM Professional Symposium The Understanding and Courage to Lead—Part 2 Moderator: J Johnson A Cucolo, L Cervino, D Jordan	SAM Therapy Educational Course Quality Improvement: from Incident Learning to Affecting Change Moderator: E Ford E Ford, S Hedrick, Z Ouhib, S Evans							
E 11:00–12:15	Professional Symposium In Memoriam of Peter Dunscombe: Celebrating the Life and Accomplishments of Peter Dunscombe, PhD, FAAPM—A Tireless Champion of Quality of Care and Patient Safety Moderators: B Thomadsen, S Huq M Huq, B Thomadsen, P Halvorse	SAM Professional Symposium Assessment of Equity, Diversity, and Inclusion Challenges and Strengths in the Medical Physics Field Moderator: L Cervino L Cervino, J Pollard-Larkin	SAM Therapy Educational Course The integration of AI and Machine Learning in Medical Physics Applications Moderator: T Solberg V Kearney, M Chan, C Cardenas	Therapy Scientific Session Dose Prediction and Modeling R Howell, D Ruan	Multi-Disciplinary Scientific Session Image Segmentation A Owangi, G Sharp	Multi-Disciplinary Scientific Symposium NIH Grant Writing Workshop Moderator: K Farahani K Farahani, C Obcemea, H Baker, J Wong, K Brown, E Lessard	Imaging Scientific Session Mammography and Other Breast Imaging J Boone, K Hulme	SAM Imaging Educational Course Radiation Protection for Fluoroscopically-guided Interventional Procedures: Patient Dose and Radiobiology Moderator: K Wunderle K Wunderle, R Stewart	Practical Medical Physics Course Medical Physics Life Hacks Moderator: T Fisher T Fisher, R Miller	SAM Ultrasound Symposium Carson-Zagzebski Distinguished Lectureship on Medical Ultrasound Moderators: C Diederich, T Liu K Ferrara
H 1:45–2:45	SAM Therapy Educational Course MR guided RT: Treating with On-board MRI Moderator: Y Yang X Li, O Green, B Raaymakers, Y Yang	SAM Professional Symposium The Understanding and Courage to Lead—Part 3 Moderator: J Johnson A Cucolo, C Glide-Hurst, T Atwood	Therapy Scientific Session In-Vivo and Real-Time Dosimetry I El Naqa, K Parodi	Therapy Scientific Session Knowledge-Based and Automated Treatment Planning T Li, Y Xiao	Multi-Disciplinary Scientific Session SCIENCE COUNCIL SESSION: Data Science in Medical Physics J Deasy, M Giger	SAM Multi-Disciplinary Scientific Symposium WMIS/AAPM Joint Symposium: Nanotechnology Moderator: J Hazle S Chen, R Ivkov, S Krishnan	Imaging Scientific Symposium Biomedical Modeling Using Imaging Data Moderator: W Zbijewski P Boyle, D Tward, D Holdsworth, C Grassberger	SAM Imaging Educational Course Patient Dose Monitoring in CT with Tube Current Modulation and Multiple Series Moderator: X Li J Boone, R Dixon, B Li, D Zhang, X Li	SAM Practical Medical Physics Course ACR Updates Moderator: D Gress D Gress, E Berns, C Dillon, A Jones	SAM Ultrasound Symposium Advances in Image-Guided Focused Ultrasound Applications Moderators: A Payne, M O'Reilly B Denis de Senneville, A Payne, C Lafon, H Chen"
I 2:45–3:45		SAM Professional Symposium The Understanding and Courage to Lead—Part 4 Moderator: J Johnson A Cucolo, J Goodwin, J Johnson								
L 4:30–6:00	History Symposium Physics and Technology of Mammography and Fluoroscopy: A Historical Perspective Moderators: S Tabakov, P Sprawls P Sprawls, S Balter	Professional Symposium New Member Symposium: Becoming Employed and Involved in Medical Physics Moderator: L Johnson A Johnson, C McColough, K Rasmussen, L Johnson	SAM Therapy Educational Course Optimizing Safety and Efficiency in Brachytherapy Moderator: L Beaulieu C Deufel, J Cygler, D Todor, M Joyner	SAM Therapy Scientific Symposium The Promise of FLASH Moderator: A Koong J Pollard-Larkin, L Dong, B Loo"	SAM Multi-Disciplinary Scientific Symposium Integrating Radiomics and Genomics for Personalized Cancer Therapy in the Era of AI and Big Data Moderator: R Li J Wang, J Oh, R Li	Multi-Disciplinary Scientific Session Novel Reconstruction and Image Formation Methods J Park, N Yue	Imaging Scientific Symposium Novel Imaging Methods Moderator: J Stayman J Stayman, M Rosen, E Boctor	SAM Imaging Educational Course Session in Memory of Edward Nickoloff: Joint Commission Update: Satisfying the Joint Commission Fluoroscopy Requirements Moderator: T Fisher A Dutta, M Mahesh, A Browne	Imaging Scientific Session Radiomics and Quantitative Imaging U Mahmood, M McNitt-Gray	SAM Ultrasound Symposium Focused Ultrasound in Radiation Oncology Moderators: H Chen, M Altman M Altman, G Czarnota, S Brueningk

PROGRAM AT A GLANCE | WEDNESDAY, JULY 17

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

EXHIBIT HALL ACTIVITIES

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

ANNUAL BUSINESS MEETING | TOWN HALL MEETING

6:15–7:30 pm Stars at Night 2-3, Convention Center

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

PROGRAM AT A GLANCE | THURSDAY, JULY 18

■ Imaging Education

■ Imaging Scientific

■ Therapy Education

■ Therapy Scientific

■ Multi-Disciplinary Scientific

■ Professional

■ Practical Medical Physics

■ Specialty Track: Ultrasound

⚙️ *President's Sessions of Note*

BREAKS

9:30–10:00 am

Coffee Break
Stars at Night Ballroom Foyer
Meeting Room Level—near 221

12:00–12:50 pm

Boxed Lunch
Stars at Night Ballroom Foyer
Meeting Room Level—near 221

CLOSE OF MEETING

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

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

TECHNICAL EXHIBITS

Henry B. González Convention Center

EXHIBIT DISPLAYS

Halls 2 - 3

Sunday	12:30 pm – 5:00 pm
Monday – Tuesday	9:00 am – 5:00 pm
Wednesday	9:00 am – 2:00 pm

ePOSTER DISPLAYS

Halls 2 – 3 | Forums 1 - 9

ePoster Presentations

Best in Physics (Forums 1 – 3)

Sunday	3:00 pm – 4:00 pm
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Campus (Forums 1 – 3) Provost will moderate

Sunday	4:00 pm – 5:00 pm
Monday – Tuesday	4:30 pm – 5:30 pm

General ePoster Discussions (Forums 1 - 9)

Sunday	3:00 pm – 5:00 pm
Monday	9:30 am – 10:00 am

Tuesday	9:30 am – 11:00 am
	1:15 pm – 1:45 pm
	3:45 pm – 4:15 pm

Wednesday	9:30 am – 11:00 am
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General ePoster Viewing (Forums 1 – 9)

Sunday	12:30 pm – 5:00 pm
Monday – Tuesday	9:00 am – 5:00 pm
Wednesday	9:00 am – 2:00 pm

PARTNERS in SOLUTIONS (PinS)

Hall 2 | PinS Session Room

Monday (Therapy)	1:30 pm – 3:45 pm
Tuesday (Imaging)	10:00 am – 12:15 pm
Wednesday (Therapy)	10:15 am – 12:00 pm

EDUCATIONAL TOPIC-SPECIFIC GUIDED TOURS

Hall 1 | Tour Session Rooms

Tuesday	1:45 pm – 3:30 pm
Wednesday	10:15 am – 11:50 am

ASSOCIATION SERVICES

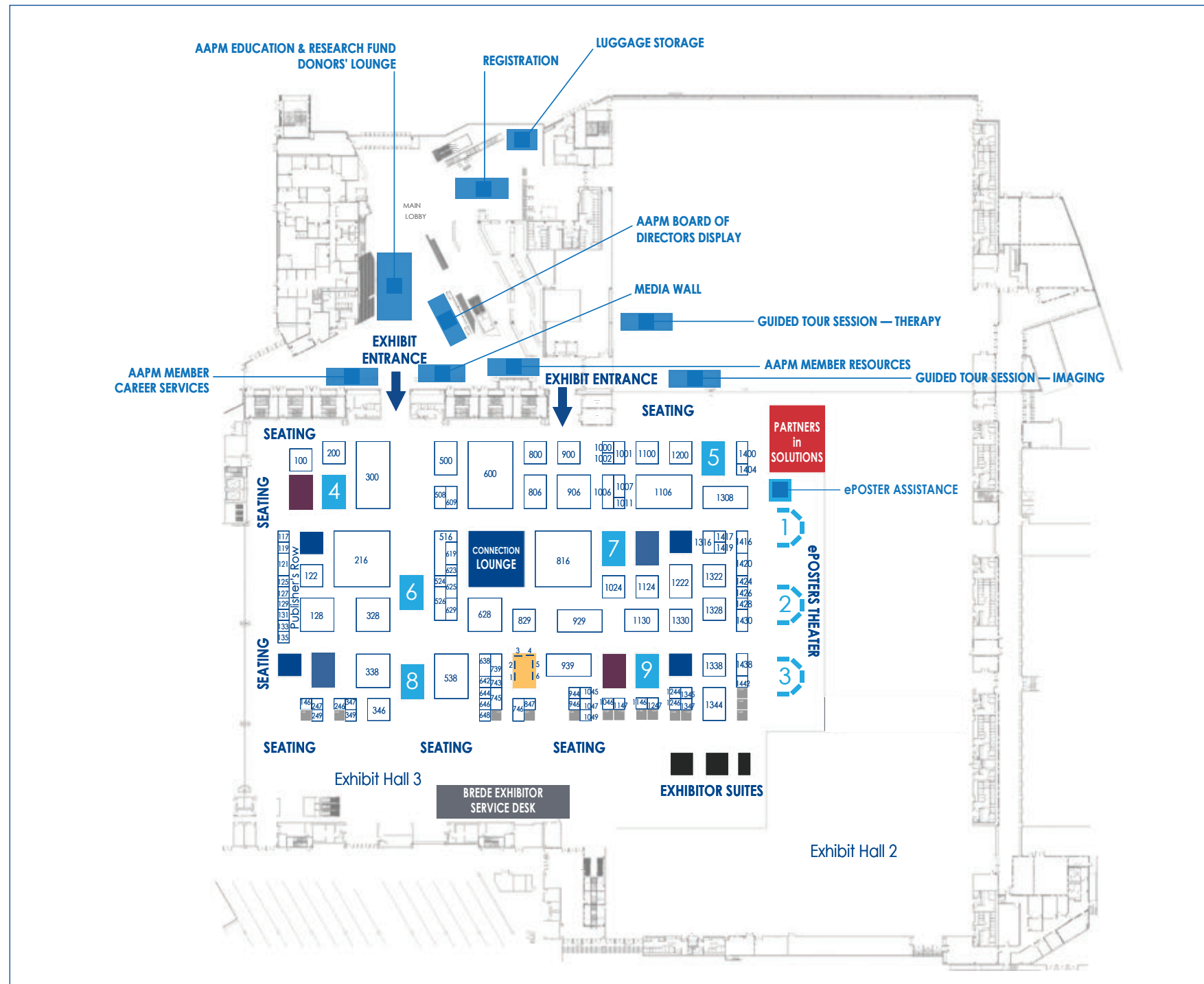
AAPM Member Resources

AAPM Career Services

AAPM Education & Research Fund Donors' Lounge

Registration Lobby

Sunday–Wednesday	7:30 am – 6:30 pm
Thursday	7:30 am – 3:00 pm

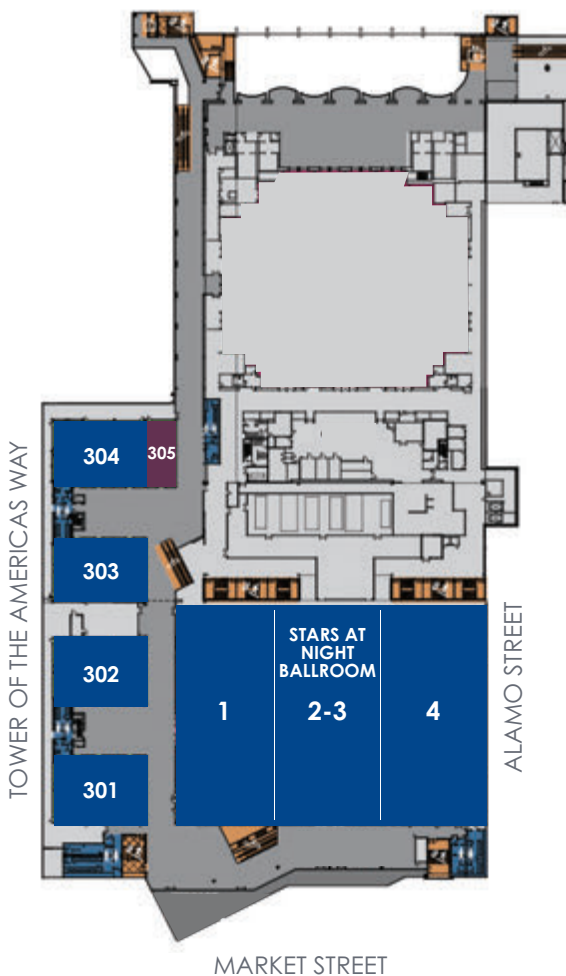


- ePoster Forums 1–9
- Partners in Solutions — Session Room
- Exhibitor Suites
- Entrepreneur Start-Up Showcase
- Refreshment Break Lounge – Lunch Bundle Pick-Up Monday & Tuesday
- Refreshment Break Lounge
- Lounge
- Brede Exhibitor Service Desk

MAPS

HENRY B. GONZÁLEZ CONVENTION CENTER

BALLROOM LEVEL

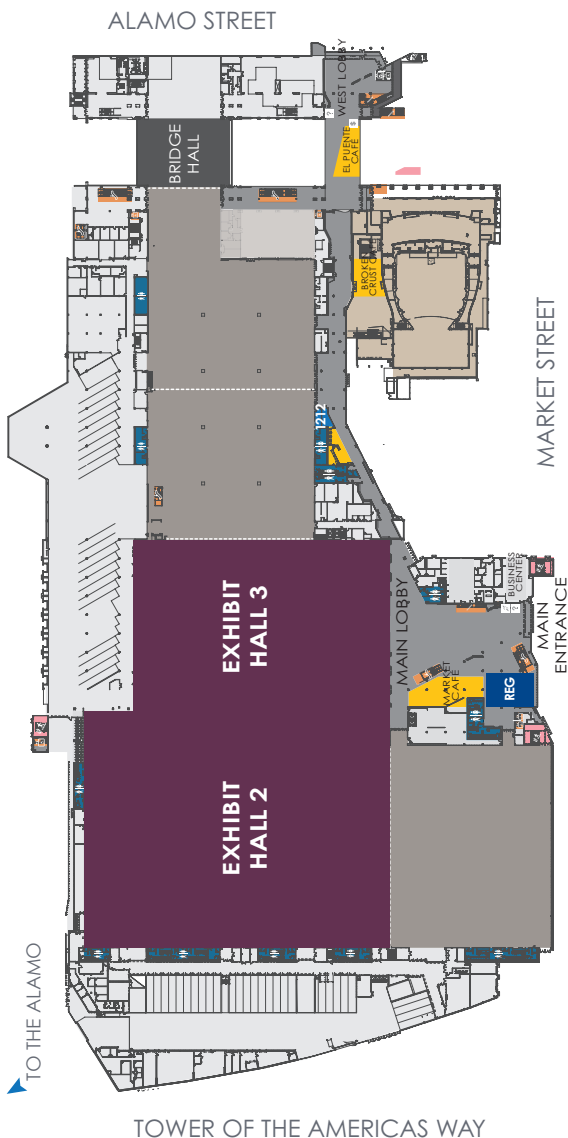


- Session Rooms:**
301 | 302 | 303 | 304
Stars at Night Ballroom
- Show Management Office:** 305

MEETING LEVEL



STREET LEVEL



- Exhibits
- Registration
- Nursing Mothers Room:
1212 Between Halls 3 and 4



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Kissimmee, FL
March 30–April 2, 2019
- 60th AAPM Annual Meeting & Exhibition
Nashville, TN
July 29–August 2, 2018

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- 2019 AAPM Summer School —
Practical Medical Image Analysis
Burlington, VT
June 3–7, 2019
- 61st AAPM Annual Meeting & Exhibition
San Antonio, TX
July 14–18, 2019

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John A Adamovics, PhD
412 Sunset Rd.
Skillman, NJ 8558
Phone: 609-306-0806
johnadamovics@me.com

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IBA Dosimetry**Booth: 628**

Jessica Matinca
Bahnhofstrasse 5
Schwarzenbruck, 90592
GERMANY
dosimetry-exhibits@iba-group.com

Protect, Enhance and Save Lives. At IBA Dosimetry, we protect, enhance, and save lives of patients that are exposed to radiation during medical imaging and radiation therapy. We enable healthcare professionals around the world to maximize patient safety and treatment efficiency by implementing Integrated Quality Assurance solutions.

Imaging Technology News**Booth: 119**

3030 W. Salt Creek Ln., Ste. 201
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AMERICAN ASSOCIATION
of PHYSICISTS IN MEDICINE

THANK YOU!

AAPM would like to acknowledge
and extend our gratitude to the
Focused Ultrasound Foundation
for their support of the
Ultrasound Special Program
whose generous contribution was
instrumental in providing the resources
necessary for inviting a diverse group of
experts to participate

**In addition,
thanks to the following companies:**

Philips Healthcare

GE Healthcare

Canon Medical Systems Corporation

Acertara Acoustic Laboratories, LLC

CIRS Inc.

GAMMEX/RMI – Sun Nuclear Corporation

Cablon Medical b.v., The Netherlands

for donating equipment and materials for the:

**Diagnostic Ultrasound QA/QC
Hands-On Workshop**

Wednesday, July 17, 2019

7:30 am – 9:30 am



Imalogix**Booth: 743**

Jennifer Lavelle
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www.imalogix.com
jennifer.lavelle@imalogix.com

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IMT**Booth: 746**

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www.imtqa.com
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IMT is a manufacturer of Quality Assurance Phantoms and Patient Positioning Products for Radiation Oncology. IMT specializes in rapid development of both clinical and OEM solutions. IMT welcomes inquiry and input from the Radiation Oncology Community.

**International Organization for
Medical Physics (IOMP)****Booth: 133**

Madan M. Rehani, PhD
175 Cambridge St., Ste. 244
Boston, MA 2114
www.iomp.org
madan.rehani@gmail.com

The International Organization for Medical Physics (IOMP) represents about 25,000 medical physicists worldwide and 86 adhering national member organizations. The mission of IOMP is to advance medical physics practice worldwide by disseminating

scientific and technical information, fostering the educational and professional development of medical physicists, and promoting the highest quality medical services for patients.

iRT Systems GmbH

Booth: 100

IsoAid

Booth: 1101

Jamie Gibson
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IsoRay

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K & S Associates, Inc.

Booth: 1011

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Fax: 615-871-0856
www.kslab.com
jrobinson@kslab.com

K&S Associates is a calibration laboratory accredited by A2LA for the calibration of precision instruments and survey instruments including environmental level measurements. K&S is also accredited by the AAPM for precision dosimetry calibrations for radiation therapy and diagnostic x-ray and by A2LA for kVp, time, voltage, current and light calibrations.

Klarity**Booth: 246**

Eliza Larson

1987 Coffman Rd.

Newark, OH 43055

info@klaritymedical.com

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Kyoto Kagaku America, Inc.**Booth: 946****LAP of America Laser Applications, LLC****Booth: 1106**

Neil Johnston

161 Commerce Rd. #3

Boynton Beach, FL 33426

Phone: 561-416-9250

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N.Johnston@lap-laser.com

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LinaTech, LLC**Booth: 1047**

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Sunnyvale, CA 94086

Linear Physics, LLC**Booth: 1046**

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linearphysics.com
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LinearPhysics provides precise comprehensive commissioning for all major treatment planning systems by ABR certified physicists. Additional commissioning services include shielding design, acceptance, validation of treatment planning software, SRS cone and small field MLC commissioning. LinearPhysics also provides linear accelerator quality assurance, including annual calibrations based on TG-142 recommendations, TG-51 absolute calibrations, and initial baseline measurements.

Logos Systems Int'l, Inc.**Booth: 1146**

Mr. Brett Nelson, MS
175 El Pueblo Rd.
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Phone: 831-600-6101
www.logosvisionsystem.com
brett@logosvisionsystem.com

Logos Systems makes innovative real-time QA digital camera phantoms for Proton and X-ray beam therapy systems, using novel scintillators. The conical XRV-100/124 3D phantoms easily measure beam duration, profile, vector, and position at 0.3 mm accuracy. The flat surface XRV-2000/3000/4000 2D phantoms measure duration, profile, and position on areas up to 42x32 cm, with manual or motorized rotation at angles from 0–360 degrees. The LCW-200/300 dual stepped wedges measure Bragg peak dose depths.

Ludlum Measurements, Inc.**Booth: 1426**

Allan Hartfield

501 Oak St.

P.O. Box 810

Sweetwater, TX 79556

Phone: 325-235-5494

Fax: 325-235-4672

ahartfield@ludlums.com

Ludlum Measurements, Inc. has been designing, manufacturing, and supplying radiation detection and measurement equipment in response to the world's need for greater safety since 1962. Throughout its more than 5-decade history, it has developed radiation detection technologies and instruments in support of enhancing the safety of personnel and the environment.

Macromedics, LLC Entrepreneur Start-up Kiosk: 5

Anthony Palin

3545 Ellicott Mills Dr.

Ellicott, MD 21042

www.macromedics.com

a.palin@macromedics.com

Driven by the objective to help patients and therapists through innovation, MacroMedics works in cooperation with radiotherapy professionals to design, produce and distribute high-end positioning products for radiotherapy which prioritise accuracy, workflow efficiency and patient comfort.

Medical Physics Publishing**Booth: 121**

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Medical Physics Publishing (MPP) is a not-for-profit publishing organization dedicated to serving the medical physics and educational communities since 1985. We are the publishing home of the most dedicated and knowledgeable authors in our field.

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Medscint, Inc. Entrepreneur Start-up Kiosk: 2

Mr Francois Therriault-Proulx

1405 du Parc-Technologique

Quebec, QC G1P 4P5

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www.medscint.com

francois.tp@medscint.com

Medscint is a company specialized in scintillation dosimetry for radiation therapy. With an experienced team in optics & photonics, medical physics and product development, Medscint provides revolutionary real-time dose measurement tools to help physicist in ensuring quality assurance of the treatment.

Mevion Medical Systems

Booth: 800

Melanie Benton, BS

300 Foster St.

Littleton, MA 1460

Phone: 978-540-1500

Fax: 978-540-1501

www.mevion.com

melanie@mevion.com

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MIM Software, Inc.

Booth: 1308

Ashley Hanley
25800 Science Park Dr., Ste. 180
Cleveland, OH 44122
Phone: 216-455-0595
Fax: 216-455-0601
www.mimsoftware.com
ahanley@mimsoftware.com

MIM Software Inc. provides indispensable software that standardizes clinical workflows in Radiation Oncology and helps manage and fully leverage the increasing volume and variety of medical imaging required for improved treatment planning. MIM Assistant® provides automation of routine and even complex processes, increasing planning efficiency and minimizing error.

Mirada Medical

Booth: 1338

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Mirion Technologies

Booth: 1400

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Irvine, CA 92614
Phone: 949-419-1000
Fax: 949-296-1144
www.mirion.com
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Mission Search**Booth: 944**

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ModusQA**Booth: 516**

Nick Glover

1570 North Routledge Park

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CANADA

Phone: 519-438-2409

Fax: 519-643-0127

www.modusQA.com

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Modus Medical Devices Inc. develops and manufactures cost-effective and innovative quality assurance tools for advanced radiotherapy and medical imaging. From QA phantoms and software for MRI, IGRT, Motion and IMRT to 3D dosimetry and optical CT scanners, Modus QA products are built to provide medical physicists with confidence that every patient is receiving the best possible treatment. There are over 4,900 QUASAR™ phantoms being used in more than 3,000 leading treatment centres worldwide.



MuCheck - Oncology Data Systems

Booth: 609

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Fax: 405-680-5444

www.mucheck.com

mail@mucheck.com

Doing business since 1998, Oncology Data Systems, Inc. is one of the pioneers of independent dose validation software for radiation treatment planning. Our MuCheck suite of products provides a customizable range of solutions for linac-based calculations - conformal, IMRT, forward plans, and VMAT - as well as CyberKnife, brachytherapy, TomoTherapy, and Gamma Knife. Visit our website at www.mucheck.com to learn more.

Multi Leaf

Entrepreneur Start-up Kiosk: 4

Consulting

Randy Taylor

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Orfit Industries America

Booth: 1430

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Jericho, NY 11753-1175

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Fax: 516-935-8505

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www.dosemonitor.com

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DoseMonitor® is an automated, enterprise-wide, vendor neutral patient radiation dose data collection, aggregation & reporting system. DoseMonitor® identifies patients who may be at risk for ionizing radiation overexposure based on customer-provided thresholds & guidelines. By managing radiation dose effectively, facilities can adapt to new technologies and meet evolving regulatory standards and operations compliance requirements.

Philips**Booth: 1100**

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Philips is a health technology company focused on improving people's lives through meaningful innovation across the health continuum – from healthy living and prevention to diagnosis, treatment and home care. Applying advanced technologies and deep clinical and consumer insights, Philips partners with customers to deliver integrated solutions that enable better outcomes at lower cost.

ProtonVDA, Inc. Entrepreneur Start-up Kiosk: 1

Don F. DeJongh
1700 Park St., Ste. 208
Naperville, IL 60563
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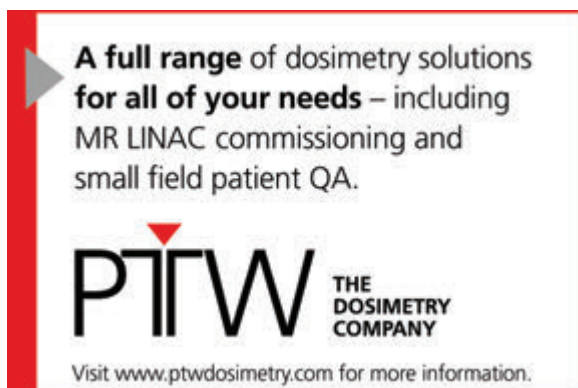
Proton imaging is a method of directly measuring proton stopping power in order to reduce range uncertainties for proton radiation therapy. ProtonVDA has demonstrated, in treatment rooms with pencil beam scanning, a fully functional proton imaging prototype producing radiography and tomography images. Our system automatically combines data acquisition and image reconstruction to promptly display images accurately in terms of water equivalent thickness and with excellent spatial resolution.

Prowess, Inc.**Booth: 1007**

Rick Smith
1844 Clayton Rd.
Concord, CA 94520
Phone: 530-342-7090
Fax: 925-356-0363
www.prowess.com
rick.smith@prowess.com

Prowess Inc., is a leading innovator of radiation oncology software solutions that is headquartered in Concord, California. Products offerings include: Panther TPS for external beam planning

(Conformal, IMRT, and VMAT), Panther Brachy for LDR Brachytherapy planning, and Panther OISIR&V for electronic charting, scheduling, and LINAC connectivity/verification. All of Prowess' Panther products are vendor neutral and have 510(k) clearance and CE marking for international distribution.

The advertisement features a red vertical bar on the left with a grey triangle pointing right. The text reads: "A full range of dosimetry solutions for all of your needs – including MR LINAC commissioning and small field patient QA." Below this is the PTW logo, which consists of the letters "PTW" in a large, bold, sans-serif font, with a red triangle above the "T". To the right of "PTW" is the text "THE DOSIMETRY COMPANY" in a smaller, bold, sans-serif font. At the bottom, it says "Visit www.ptwdosimetry.com for more information."

PTW North America Corporation

Booth: 538

Lilly Leon

140 58th St., Ste. 5H-3

Brooklyn, NY 11220

Phone: 516-827-3181

Fax: 516-827-3184

www.ptwdosimetry.com

lily@ptwny.com

Pymedix, Inc.

Entrepreneur Start-up Kiosk: 6

1873 Willowview Terrace

Northfield, IL 60093

QAELUM

Booth: 247

Scarlette Ye

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QalibreMD**Entrepreneur Start-up Kiosk: 3**

Kevin Miller

4601 Nautilus Ct. South, Ste. 100

Boulder, CO 80301

kmiller@qalibre-md.com

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**Qfix****Booth: 900**

Lisa Vandenberg

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Phone: 610-268-0585

www.qfix.com

Lisa.Vandenberg@qfix.com

Qfix is a global leader specializing in innovative positioning and immobilization solutions that

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Booth: 847

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RAD Technology Medical Systems

Booth: 347

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Radiation Products Design, Inc.

Booth: 629

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Radii Medical, Inc.

Booth: 1247

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Canada



Radiological Imaging Technology, Inc. Booth: 806

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Radiological Imaging Technology provides medical physicists with an all-encompassing range of industry-leading QA software solutions, specifically engineered to ensure proper compliance with established protocols within the fields of therapeutic and diagnostic physics. RIT's convenient packages include patient, machine and imaging QA for linear accelerators (TG-142), comprehensive routines for TomoTherapy® (TG-148) & CyberKnife® (TG-135), and automated phantom analysis for diagnostic imaging.



RaySearch Laboratories AB

Booth: 600

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Booth: 1000

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Booth: 1424

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ScandiDos — headquartered in Uppsala, Sweden and with offices in Madison (WI, USA) and in Beijing

(China)— is the world leader in QA and Dosimetry for modern Radiation Therapy. Our company provides unique measurement systems and software that are designed for QA and validation of new dynamic and modulated treatments that are being implemented in clinics around the world.

SECTRA

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Shelton, CT 06484

SegAna

Booth: 146

Sensus Healthcare

Booth: 349

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851 Broken Sound Pkwy., NW#215
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Booth: 1045

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Standard Imaging

Booth: 328

Becki Sell

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Standard Imaging is committed to the fight against cancer! We offer innovative QA products aimed at supporting radiation therapy for cancer treatment. Standard Imaging's product line includes electrometers, ion chambers, phantoms, QA software, beam QA instruments and brachytherapy calibration devices ideally suited to our customers' needs. Standard Imaging is proud to be a leading manufacturer of radiation calibration and QA instruments that promote patient safety and effective cancer treatment.

A dark gray rectangular graphic with a white circle containing a right-pointing arrow on the left. To the right of the arrow, the text "Patient Safety Starts Here" is written in a large, white, sans-serif font. At the bottom left is the Sun Nuclear Corporation logo, which consists of a yellow circle with horizontal lines and the text "SUN NUCLEAR corporation" in white. At the bottom right, the text "See us in Booths 200 & 300" is written in a smaller, white, sans-serif font, with "Booths 200 & 300" in a light blue color.

 **SUN NUCLEAR**
corporation

See us in
Booths 200 & 300

Sun Nuclear Corporation - Patient Alignment

Booth: 200

Kerianne Langlois

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Melbourne, FL 32940-7508

Phone: 321-259-6862

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Sun Nuclear Corporation

Booth: 300

Kerianne Langlois
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Melbourne, FL 32940-7508
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Fax: 321-259-7979
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keriannelanglois@sunnuclear.com

Sun Nuclear provides innovative QA solutions for Radiation Therapy and Diagnostic Imaging. Our mission is to enable healthier lives by improving the avoidance, detection and treatment of cancer. More than 5,000 cancer centers rely on us for independent, integrated Quality Management. With a focus on support, we aim to ease technology adoption, improve outcomes and enhance workflows — so that healthcare providers can achieve real results for Patient Safety. Visit us in Booth 300 to learn more.

The Phantom Laboratory / Image Owl Booth: 526

Megan Stalter
P.O. Box 511
Salem, NY 12865-0511
Phone: 518-692-1190
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www.phantomlab.com
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The Phantom Laboratory/Image Owl provides high-precision, innovative phantoms for medical imaging and radiotherapy. Our newest offering is the Magphan® RT, designed for performance evaluation of MR scanners used in radiotherapy. The phantom is analyzed automatically through Image Owl's Total QA® service. We also make phantoms for CT, SPECT, Digital Breast Tomosynthesis, radiosurgery and OEM

applications. Our partners at Image Owl provide analysis tools and management solutions for RT machine QA.

Theragenics Corporation

Booth: 1417

Lory Bradley
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www.theragenics.com.
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**U.S. National Cancer Institute
Radiation Epidemiology Branch**

Booth: 125

David Borrego, PhD
9609 Medical Cancer Center Dr., Room 7E-502
Bethesda, MD 20892
Phone: 240-276-5414

NCIDOSE is the collection of tools and data for medical radiation dosimetry developed by radiation physicists at the Division of Cancer Epidemiology and Genetics of the National Cancer Institute. The resources are based on years of research and development in collaboration with a number of research institutions and clinical centers. All data and tools will be available free of charge for research purpose.

University of Wisconsin - ADCL**Booth: 625**

John Haugen-Wente

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Madison, WI 53705

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uwmrrc.wisc.edu

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The University of Wisconsin Accredited Dosimetry Calibration Lab (UWADCL), in the Department of Medical Physics, is a non-profit education and research-oriented service lab. Calibration services are available for almost any type of radiation measurement instrumentation in the medical or health physics community. UWADCL services are accredited by the AAPM and the American Association for Laboratory Accreditation (A2LA) to the ISO/IEC 17025: 2017 Standard.

UT MD Anderson Cancer Center**Booth: 1316**

Elizabeth Bryan

Section of Outreach Physics

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irochouston.mdanderson.org

ESBryan@mdanderson.org

MD Anderson Cancer Center's Section of Outreach Physics includes Radiation Dosimetry Services, the MDACC Accredited Dosimetry Calibration Laboratory and the MDACC Phantom Laboratory. We are a customer focused QA group that provides QA services ranging from radiation therapy beam dose monitoring to accredited NIST traceable ADCL calibrations to anthropomorphic phantom end to end planning and dose delivery verification. Please visit our booth to see how we can help meet your calibration/QA needs!

UT Southwestern Medical Center**Booth: 1404**

2280 Inwood Rd.

Dallas, TX 75390

Varian Medical Systems**Booth: 816**

Jenna Huff

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Palo Alto, CA 94304-1038

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MEET THE EDITORS RECEPTION

Wednesday, July 17

3:45 pm – 4:30 pm

Room 220

just prior to the session

Outstanding Science Published in 2018:

Medical Physics and JACMP

Room 225BCD

Sweet and savory
refreshments will be served.



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2020

AAPM Spring Clinical Meeting

April 4–7

Minneapolis, MN

62nd Annual Meeting & Exhibition

July 12–16

Vancouver, BC



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