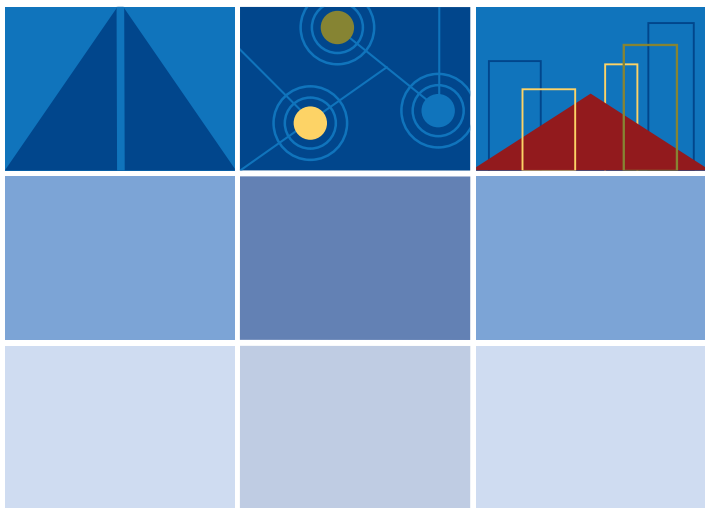
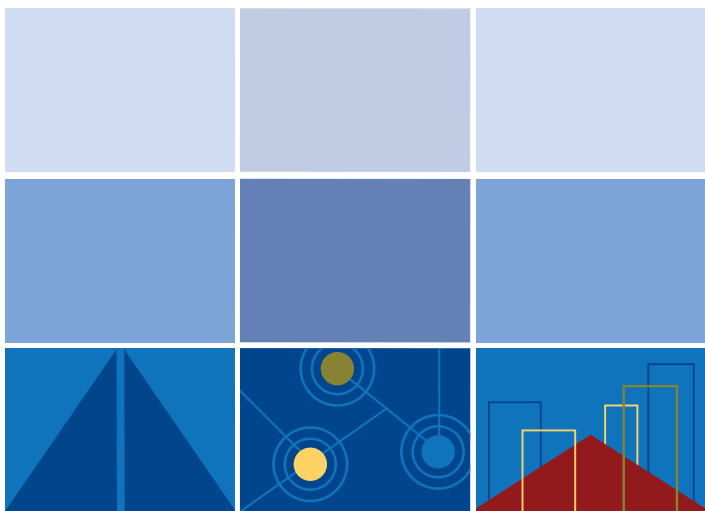


AAPM 2017 JUL 30—AUG 3

59TH ANNUAL MEETING & EXHIBITION | DENVER, CO



POCKET PROGRAM



CONNECTING OUR PATHWAYS.
UNIFYING OUR PROFESSION.

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“CONNECTING OUR PATHWAYS. UNIFYING OUR PROFESSION.”

I'd like to welcome you to the AAPM 59th Annual Meeting & Exhibition. Every year the Annual Meeting draws thousands of medical physicists who come to attend the world's largest program of scientific, educational and professional presentations and exhibits in the medical physics community.

This year, in an effort to further unite our profession and bring medical physicists together, the theme of the Annual Meeting is **Connecting Our Pathways. Unifying Our Profession.** The Annual Meeting has a variety of symposia, panel discussions, courses, and workshops on the latest medical physics topics. All these activities and events are planned to help give members several opportunities to learn and interact with peers and colleagues, make new connections, and reconnect with old friends.

Denver is a beautiful city and offers a wide range of activities. Plus, it boasts of over 300 days of annual sunshine, almost guaranteeing a sun-filled meeting week. Along with the city's great weather, Denver has a walkable downtown area. Within a 1-mile radius there are more than 300 restaurants, brew pubs, rooftop cafes, and music venues.

Enjoy the meeting!

Melissa C. Martin
President, AAPM

SESSIONS OF NOTE FROM THE PRESIDENT:

- **SAM Therapy Scientific Symposium:** Joint Scientific Symposium with ESTRO: From Bench to Bedside Via Veterinary Radiation Oncology
- **SAM Therapy Scientific Symposium:** Joint Symposium of AAPM and ASTRO: Normal Tissue Dose-Volume Effects of Head/Neck and Liver/GI SBRT
- **Joint Imaging-Therapy Symposium:** FUTURE: Provocative Questions in Medical Physics



- **SAM Joint Imaging-Therapy Scientific Symposium:** Research Funding
- **SAM Imaging Scientific Symposium:** 2017 ICRU Gray Medal: Presentation of the Medal and Lectures by the Pioneers
- **SAM Imaging Scientific Symposium:** Low Dose CT: Where Do We Stand Now?
- **Imaging Educational Course:** Anne and Donald Herbert Distinguished Lectureship in Modern Statistical Modeling
- **SAM Imaging Educational Course:** How to Select and Evaluate a PET Auto-segmentation Tool - Insights from AAPM TG211
- **SAM Therapy Educational Course:** In Memoriam of Michael Goitein: Milestones in Treatment Planning, Biophysical Modeling, and Delivery of Proton Therapy
- **SAM Therapy Educational Course:** HDR Brachytherapy: Interstitial Treatments for GYN Panel Discussion
- **SAM Practical Medical Physics:** Identifying Image Artifacts, Their Causes, and Solutions
- **SAM Practical Medical Physics:** Compliance with AAPM, ACR, TJC Guidelines on CT Clinical Practice
- **SAM Professional Symposium:** Recent Medical Physics Practice Guidelines and Your Delivery Path
- **Professional Symposium:** Panel Discussion: Mentor and Mentee Roles
- **Ultrasound Symposium:** The Carson/Zagzebski Distinguished Lecture on Medical Ultrasound
- **Ultrasound Symposium:** HIFU in Oncology
- **Joint Imaging-Therapy Symposium:** WMIS/AAPM Joint Symposium: Imaging Hypoxia
- **President's Symposium:** Connecting Our Pathways. Unifying Our Profession.
- **Education Council Symposium:** Future Trends in Medical Physics Education
- **Professional Council Symposium:** Communicating with Patients: A Vital Skill for a Medical Physicist
- **Joint Council Symposium:** New Opportunities for Medical Physics
- **SAM Joint Imaging-Therapy Scientific Symposium:** The Roles and Task of Medical Physicists in Clinical Trial



MEDPHYS

3. 

**THE FUTURE IS
IN YOUR HANDS!**

MEDICAL PHYSICS 3.0 is an initiative to define and practice sustainable excellence in medical physics. Visiting our roots and re-envisioning our desired contributions to quality healthcare, MP3.0 asks the question of whether we are fulfilling our potential, and if we are not, how we can do so.

**HELP US REDEFINE AND REINVIGORATE
THE ROLE OF PHYSICS IN MODERN MEDICINE!**

ATTEND SESSIONS

- **Special AAPM 2017 Sessions on
Wednesday, August 2:**
Medical Physics 3.0 in Design
Medical Physics 3.0 in Practice

GIVE OPINIONS

- **Visit the MP3.0 Booth**
Smile and speak, tell us what you think!

Learn more about MP3.0 at:
aapm.org/MedPhys30/

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)**
Four Seasons 1, 2, Room 702
- **Imaging (Education & Scientific)**
Rooms 601, 702
- **Joint Imaging-Therapy**
Four Seasons 4, Room 605
- **Professional**
Partners in Solutions Room, Room 108
- **Practical Medical Physics**
Room 201
- **Ultrasound**
Room 708

CONTINUING EDUCATION

Medical Physicists

The AAPM 59th 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, symposia, and proffered paper session. Up to 8 hours of credit will be awarded for the viewing of general, Best in Physics, and ePoster displays. To obtain credit, attendees **MUST** complete an online evaluation survey.

The AAPM 59th Annual Meeting & Exhibition has been approved by the Radiology Leadership Institute (RLI) to offer continuing education credits for select professional sessions. To obtain credit, attendees must complete the online evaluation. Please note, in addition to your Badge ID, your ACR # is also required. AAPM will report RLI credits to the Radiology Leadership Institute (RLI).

Medical Dosimetrists

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

required. Internet/CEC terminals are available in the convention center for this purpose.

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 Colorado Convention Center (AAPM session rooms, Exhibit Hall and function space).

The Online Evaluation System will remain open through **11:59 pm ET, September 6**. Evaluations **MUST** be completed by that time for credits to be earned. MPCEC, MDCB, RLI and SAM credits will be released on **September 13, 2017**.



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 59th 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 59th 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.

NEW! In an effort to provide increased SAM offerings and to allow the maximum time for speakers to adequately cover presentation content, AAPM has implemented a new 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. SAM questions are no longer embedded in SAM presentations, so audience interaction is not needed.

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

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



Have-A-Heart



Kids with heart disease need special care.

And like all children, they are more sensitive to radiation. So when these kids need imaging:

- When appropriate, choose heart ultrasound, MRI or another exam that does not use x-rays
- Child-size CT, fluoroscopy and nuclear medicine exams
- And, during catheterization:
 - lower the frame rate
 - manage dose settings
 - increase the field of view of the image receptor (reduce electronic magnification)
 - lower the image receptor to the patient
 - collimate (reduce the size of the x-ray field)

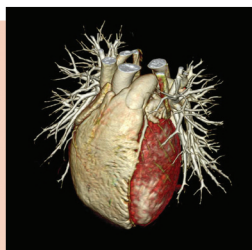


image
gently[®]



Medical Imaging Saves Lives

The care we provide now can last a lifetime.

- 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, Wednesday, September 6, 2017**. Evaluations **MUST** be completed by that time for credits to be earned.

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:

www.aapm.org/meetings/2017AM/PRHandouts.asp

Handouts will not be distributed in hard copy on site.

SPEAKER READY ROOM

Room 102, Convention Center

Saturday – Wednesday 7:00 am – 6:00 pm

Thursday 7:00 am – 2:30 pm



CAREER SERVICES on-site here in Denver!



Are you hiring or looking to be hired?

Stop by the AAPM Career Services Center,
Exhibit Hall A Entrance, Level 2,
Convention Center

to see what exciting jobs and candidates are
available among your fellow meeting attendees.

In addition, an interview room is available
and open for reservations should you find
that perfect candidate.

Staff will gladly assist with reservations, as well
as demonstrate and answer questions regarding
the online AAPM Career Services site.

www.aapm.org/careers

Available to job seeking and hiring members
year-round!

ASSOCIATION SERVICES

AAPM HEADQUARTERS OFFICE

Quartz, Third Floor

Friday	3:00 pm – 6:00 pm
Saturday – Sunday	7:30 am – 6:00 pm
Monday – Wednesday	8:00 am – 6:00 pm
Thursday	8:00 am – 12:00 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 101, Convention Center

Friday – Wednesday	8:00 am – 6:00 pm
Thursday	8:00 am – 12:00 Noon

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

AAPM MEMBER RESOURCES

Exhibit Hall A Entrance, Level 2, Convention Center

(303) 228-8426

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

The Member Services team assists with membership and general questions.

AAPM CAREER SERVICES

Exhibit Hall A Entrance, Level 2, Convention Center

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

AAPM Career Services (www.aapm.org/careers) 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

E&R Fund Donors' Lounge

Exhibit Hall A Entrance, Level 2, Convention Center

Sunday – Wednesday 7:30 am – 6:30 pm

Thursday 7:30 am – 3:00 pm

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

www.aapm.org/education/edfundintro.asp

HISTORY DISPLAY


Dr. Saul Hertz Discovers The Medical Uses of RAI

Exhibit Hall A Entrance, Level 2, Convention Center

Sunday – Wednesday 7:00 am – 6:30 pm

Thursday 7:00 am – 3:00 pm

Stop by to see how Dr. Saul Hertz brought his groundbreaking research to fruition and established the cornerstone of Nuclear Medicine. The collection includes journal reprints, vivid photos, and the handwritten data charts of the very first patients treated with RAI. Hosted by the AAPM History Committee. Materials supplied by Barbara Hertz, Curator of The Saul Hertz, MD Archives.



First Annual AAPM-Sponsored Science Outreach Event

The AAPM Women's Professional Subcommittee and the Students and Trainees Subcommittee collaborated on this inaugural 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.

focus on our future



**Visit the AAPM E&R Fund Donors' Lounge,
Exhibit Hall A Entrance, Level 2,
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 22 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



GOVERNANCE QUALITY IMPROVEMENT PROJECT

If you are a voting AAPM member, you will receive an e-ballot for amendment of the AAPM By-Laws shortly after the Annual Meeting in Denver.

This proposal deserves your careful consideration for improving AAPM and hopefully a "YES" vote on the proposed changes. For more information, visit:
www.aapm.org/org/governance/

If you have questions about the proposed changes, please come to the
Annual Business Meeting and Town Hall
Wednesday, August 2
6:15 pm
Four Seasons 2.



REGISTRATION

Lobby A, Street Level, Convention Center

(303) 228-8425

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. **All beacons must be returned at the end of the meeting.** Look for bins to drop off your beacon before you head to the airport.

EXHIBIT HOURS: EXHIBIT HALLS A – B

Level 2, 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 Colorado Convention Center (AAPM session rooms, Exhibit Hall, and function space).

Look for AAPM2017 and use password: bluebearcc

Internet/CEC Terminals

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

Location: Foyer, Four Seasons Level

CHARGING STATIONS

Need to charge your phone or other electronic device? Charging stations are available in the Welcome Center in the Exhibit Hall and at the Internet/CEC terminals, Foyer, Four Seasons Level.

WELCOME CENTER

Exhibit Hall, Convention Center

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

COMPANIONS' WELCOME CENTER

Room 202, Level 1, Convention Center

A Companions' Welcome Center is available to registered companions of the AAPM 59th 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

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

POSTER DISPLAY AREAS

Exhibit Hall C • ePoster Lounges

NEW and IMPROVED General ePoster Discussions

In addition to the moderated ePosters in the ePoster Theater, we will expand our ePoster capabilities and include ePoster stations throughout the lounge areas in the Exhibit Hall. General ePosters 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 occur in the ePoster Theater and throughout the Exhibit Hall promoting lively discussion and scientific exchange.

Poster Set Up

Saturday 8:00 am – 6:00 pm

Sunday 7:00 am – Noon

ePoster Presentations:

Best in Physics (ePoster Theater)

Sunday 3:00 pm – 4:00 pm

Campus (ePoster Theater) Provost will moderate

Sunday 4:00 pm – 5:00 pm

Monday and Tuesday 4:30 pm – 5:30 pm

General ePoster Discussions

(ePoster Theater & ePoster Lounges)

Sunday	3:00 pm – 5:00 pm
Monday	9:30 am – 10:00 am 1:15 pm – 1:45 pm 3:45 pm – 4:15 pm
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

ePoster Viewing

Sunday	4:00 pm – 6:00 pm
Monday – Tuesday	9:00 am – 4:30 pm
Wednesday	9:00 am – 2:00 pm

General Poster Presentations

Sunday	3:00 pm – 6:00 pm
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General Poster Viewing

Sunday	12:30 pm – 6:00 pm
Monday – Tuesday	9:00 am – 6:00 pm
Wednesday	9:00 am – 2:00 pm

Poster Tear Down

Wednesday	12:15 pm – 2:00 pm
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NEW Any displays remaining after the designated removal time will be available at our General Poster Pick-Up Counter located in Lobby B on Wednesday at 5:00 pm through the end of the meeting on Thursday.

During exhibit hours, you may enter the Poster Area through the Hall B Main Exhibit entrance. After exhibit hours, you may enter through the Hall C Poster Area entrance.

LOST AND FOUND

Return found items to the AAPM Registration Desk. Items will be turned over to Colorado 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 CCC Security at 303-228-8030 or *200 from any house phone.

FIRST AID OFFICE**E Lobby near Room 507, Convention Center**

For minor medical issues, you may visit the First Aid Office personally. If you have a medical emergency, please call CCC Security at 303-228-8030 or *200 from any house phone. They will dispatch a medical services provider to your location.

WELLNESS ROOM

Room 604, Level 1, Convention Center

Individuals needing a private room for expressing, nursing, or personal medical reasons may use the Wellness Room. Nursing mothers may also use the Mothers Room located behind AAPM Registration.

MOTHERS ROOM

Saturday – Wednesday, 7:00 am – 6:30 pm

Thursday, 7:00 am – 2:00 pm

Behind Registration, Street Level, Convention Center

Individuals who need a private room for expressing or nursing have two options: the Mothers Room or the Wellness Room.

REFLECTION/PRAYER ROOM

Room 608, Level 1, Convention Center

Sunday – Wednesday 7:30 am – 6:00 pm

Thursday 7:30 am – 3:00 pm

LUGGAGE STORAGE SERVICE

Room 106, Convention Center • \$3/bag

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

Thursday 7:00 am – 3:00 pm

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!

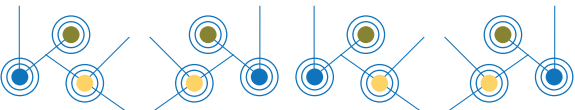


EXHIBIT HALL CONCESSIONS

Food and beverages will be available for purchase in the Exhibit Hall.

Sunday – Tuesday	12:30 pm – 3:30 pm
Wednesday	12:00 pm – 2:00 pm

COMPLIMENTARY FOOD SERVICE

Lunch Vouchers

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

Voucher Options

- *Monday, July 31*
Vegetarian/GF: Arugula, Black & White Quinoa, Orange Segments, Fresh Blueberries, Sherry Vinaigrette
Regular: Chicken Caesar Salad with Parmesan Cheese, Marinated Cherry Tomatoes, Kalamata Olive Pieces, Creamy Caesar Dressing
- *Tuesday, August 1*
Vegetarian/GF: Roasted Cauliflower and Lentil Salad with Dates, Red Onion, Toasted Almonds, Honey Yogurt Vinaigrette, Baby Spinach
Regular: Shaved Boars Head Mesquite Turkey with Tomatoes, Lettuce, Provolone Cheese, Pesto Aioli on a Spinach Wrap

Includes Choice of Bags of Chips and Soda or Bottled Water

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

B Lobby

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

B Lobby

Thursday Boxed Lunches	12:00 Noon – 12:50 pm
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AAPM CHAPTERS: HISTORICAL POSTERS

SUNDAY – THURSDAY

HALL A ENTRANCE, LEVEL 2, 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:** G. Cardarelli, J. Kim, C. Tien, L. Fu, D. Carlson, A. Nunn, D. Fortunato, Z. Chen
- **Delaware Valley Chapter:** A. Maidment, A. Harrison, C. Peng, E. Garver, P. Salanitro, Y. Xiao
- **Florida Chapter:** K. Hintenlang, T. Willoughby, P. Patton, M. Studenski, W. Sensakovic, K. Padgett
- **Great Lakes Chapter:** C. Glide-Hurst, L. Zhuang, D. Lack, S. Gardner, M. Huberts
- **Mid-Atlantic Chapter:** L. Myers, B. Hasson, T. McNutt, M. Jacobs, H. Chung, Y. Wang, C. Yu
- **Missouri River Valley Chapter:** D. Wang, M. Zhang, S. Yaddanapudi, A. Mensah-Brown, B. Dirksen
- **New England Chapter:** L. Berkowitz, G. Sharp, C. Bradford, S. Amadon, J. Turcotte, N. Gagne, F. Fahey, M. Fraser, J. Hiatt, J. Killoran, R. Cormack, J. Kukluk
- **New York Chapter:** L. Rothenberg, J. Jeong, Z. Saleh, J. Sillanpaa, J. St. Germain, C. Marshall, D. Fontenla, Y. Pipman, G. Magera
- **North Central Chapter:** P. Hill, M. Kowalok, W. Culberson, P. Yadav
- **Northwest Chapter:** L. Sweeney, C. Holloway, T. Blackwell
- **Ohio River Valley Chapter:** N. Sperling, W. Luo, A. Cetnar, P. Sandwall, M. Gossman
- **Penn-Ohio Chapter:** K. Wilson, V. Colussi, D. Jordan, K. Blodgett, R. Siochi, A. Godley
- **San Francisco Bay Chapter:** O. Morin, J. Perks, C. Chuang, S. Benedict, B. Fahimian
- **Southeastern Chapter:** B. Sintay, C. Mart, P. Sprawls
- **Southwest Chapter:** D. Gress, C. Baird, S. McCullough, B. Parker, R. Tarver
- **Upstate New York Chapter:** L. Kumaraswamy, M. Shaikh, D. Nazareth, V. Patel, I. Wang

SOCIAL PROGRAM

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.

AAPM AWARDS CEREMONY & RECEPTION

Centennial Ballroom, Third Floor, Hyatt Regency

Monday, July 31 • 6:30 pm – 8:00 pm

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

Capitol Ballroom, Fourth Floor

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

NIGHT OUT: DENVER ART MUSEUM

100 W. 14th Avenue Pkwy

Tuesday, August 1 • 6:30 pm – 10:00 pm

The 2017 Night Out will not be a dinner event.

You are encouraged to 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! Either make reservations on your own or with help from the Information Desk at the Convention Center.

Buses will depart from the Welton Street entrance of the Convention Center and loop continually to the Denver Art Museum. If you decide to walk (.8 mile), look for guides along your way. Don't forget your ticket!

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 2017 JUL 30—AUG 3



THANK YOU!

AAPM would like to express its sincere thanks to the following exhibitors for their contributions and support of the 2017

AAPM Annual Meeting & Exhibition:

Accuray, Inc. (Booth #2085)

Wide Emotion Media Wall

Bayer (Booth #4068)

Convention Center Banners,
Meeting Room Banner & Lobby Banner &
Monday Afternoon Break

**LAP of America Laser Applications, LLC
(Booth #5077)**

Wide Emotion Media Wall

MIM Software, Inc. (Booth #7083)

Wide Emotion Media Wall

Mobius Medical Systems (Booth #5031)

Mobile Device Charging Station &
Wide Emotion Media Wall

ModusQA (Booth #5016)

Electronic Hotel Key Cards

MuCheck - Oncology Data Systems (Booth #2068)

Wide Emotion Media Wall

PTW - New York (Booth #5039)

Wide Emotion Media Wall

Q-Fix (Booth #2045)

Attendee Tote Bags

Radiological Imaging Technology (Booth #5069)

Wide Emotion Media Wall

Sun Nuclear Corporation (Booth #5001)

Meeting Application Splash Screen &
Wide Emotion Media Wall

EXHIBITORS GUIDE

- 1001, Best Medical International, Inc.
- 1009, Best Medical International, Inc.
- 1017, Best Medical International, Inc.
- 1025, ScandiDos
- 1031, Precision X-Ray
- 1033, American Board of Medical Physics
- 1035, The American Board of Radiology
- 1037, RAD Technology Medical Systems, LLC
- 1049, Philips
- 1061, humediQ
- 1069, CIRS
- 1073, SECTRA
- 1079, C-RAD
- 1085, Vision RT
- 2001, Best Medical International, Inc.
- 2030, Orfit Industries America
- 2031, Mevion Medical Systems
- 2037, Siemens Healthnieers
- 2045, Qfix
- 2051, ProTom International
- 2068, MuCheck - Oncology Data Systems
- 2072, LinaTech, LLC
- 2085, Accuray, Inc.
- 2093, H3D, Inc.
- 2095, RadiaDyne
- 3001, Best Medical International, Inc.
- 3009, Best Medical International, Inc.
- 3017, Best Medical International, Inc.
- 3025, Varian Medical Systems
- 3061, University of Wisconsin - ADCL
- 3069, Ludlum Medical Physics
- 3073, DOSIsoft
- 3092, 3D Bolus, Inc.
- 3093, ZapIT! Medical
- 3094, K & S Associates
- 3095, Mission Search Healthcare Staffing
- 4001, Radformation, Inc.
- 4003, Bayer Oncology
- 4005, Civatech Oncology, Inc.
- 4009, ViewRay, Inc.
- 4017, D3 Oncology Solutions
- 4051, Standard Imaging, Inc.
- 4060, Oncology Systems Limited
- 4061, Ashland
- 4062, Theragenics Corporation
- 4068, Bayer
- 4069, CDR Systems
- 4070, American College of Radiology
- 4072, Bionix Radiation Therapy
- 4073, Bard Medical
- 4092, GE Healthcare
- 5000, RTI Electronics, Inc.
- 5001, Sun Nuclear Corporation
- 5004, Prowess, Inc.

- 5009, The Phantom Laboratory/Image Owl
- 5013, IsoRay Medical
- 5016, ModusQA
- 5017, Carl Zeiss Meditec, Inc.
- 5019, Radcal Corporation
- 5025, CIVCO Radiotherapy
- 5031, Mobius Medical Systems
- 5039, PTW - New York
- 5047, Elekta
- 5059, NELCO
- 5061, LANDAUER
- 5068, UT MD Anderson Cancer Center
- 5069, Radiological Imaging Technology
- 5077, LAP of America Laser Applications, LLC
- 5079, RaySearch Laboratories AB
- 5083, IBA SA
- 5091, LifeLine Software, Inc.
- 6008, PACSHealth, LLC
- 6010, Xoft, a subsidiary of iCAD, Inc.
- 6012, DoseOptics, LLC
- 6016, Mirion Technologies, Dosimetry Services
- 6020, Augmenix, Inc.
- 6058, Toshiba Medical Systems
- 6060, Radiation Products Design, Inc.
- 6091, Imalogix
- 6093, Samsung
- 7009, Aktina Medical
- 7017, IMT
- 7025, Mirada Medical
- 7031, Brainlab
- 7043, Infab Corporation
- 7045, Sensus Healthcare
- 7047, Crux Quality Solutions, LLC
- 7051, QalibreMD
- 7053, Fluke Biomedical/RaySafe
- 7061, Heuris, Inc.
- 7063, Preferred Healthcare Staffing
- 7069, IsoAid
- 7073, Logos Systems Intl
- 7083, MIM Software, Inc.
- 8009, John Wiley & Sons, Inc.
- 8011, Medical Physics Publishing, Inc.
- 8015, CRC Press, Taylor & Francis Group
- 8016, International Org. for Medical Physics (IOMP)
- 8017, Wolters Kluwer
- 8018, Conference of Radiation Control Program Directors
- 8019, IOP Publishing
- 8021, Imaging Technology News
- 8023, Pearl Insurance
- 8025, Virtual Phantoms, Inc.
- 8027, Veritas Medical Solutions
- 8031, American Institute of Physics
- 8035, C4 Imaging

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**Exhibit Hall
Entrance A**

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**Exhibit Hall
Entrance A**

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 Medical Physics 3.0 Booth

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Exhibit Hall**Entrance A**

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3D Bolus, Inc.**3092**

Peter Hickey

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www.3dbolus.com

peter.hickey@3dbolus.com

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American Board of Medical Physics **1033**

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The American Board of Medical Physics certifies physicists and related scientists to practice clinical medical physics. Currently, certification is offered in two specialties: Medical Health Physics, and MRI Physics.

American College of Radiology **4070**

1891 Preston White Dr.
Reston, VA 20191
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The American College of Radiology is a leading professional medical society dedicated to serving patients and society by empowering radiology professionals to advance the practice, science, and professions of radiological care. ACR Accreditation and Appropriateness Criteria are the standards for safe imaging and patient care. The ACR's 37,000 members include radiologists, radiation oncologists, nuclear medicine physicians and medical physicists.

American Institute of Physics **8031**

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Augmenix, Inc. **6020**

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Bedford, MA 01730

Bard Medical**4073**

Danielle Garner
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Bionix Radiation Therapy**4072**

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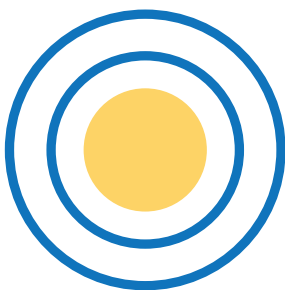
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PROGRAM AT A GLANCE | SUNDAY, JULY 30

Certificate Course	Professional	Therapy Education	Therapy Scientific	Joint Imaging-Therapy Scientific	Joint Imaging-Therapy Education	Imaging Scientific	Imaging Education	Practical Medical Physics	Ultrasound	Technical Exhibit Hall	
A 8:30-10:00	AAPM Medical Physics Student Meeting Provocative Questions in Medical Physics Training Moderators: N Viscariello, A Diamant-Boustead M Lawless, J Seuntjens, D Hyer, M Giger, M Svatos, M Morales, N Viscariello Location: Four Seasons 2										
SPS 10:00-10:30	Undergraduate Networking Moderator: Brad Conrad Location: Four Seasons 2										
B 9:30-10:30	Professional Council Symposium Communicating with Patients: A Vital Skill for a Medical Physicist Moderator: D Pavord D Pavord, R Pizzutiello, D Brown Location: Four Seasons 4										
C 10:30-11:30	Joint Council Symposium New Opportunities for Medical Physics Moderator: J Dobbins J Dobbins, R Jeraj, E Samei, J Paila Location: Four Seasons 4										
D 11:30-12:30	Education Council Symposium Future Trends in Medical Physics Education Moderator: J Dobbins J Dobbins, E Jackson, J Prisciandaro, V Montemayor Location: Four Seasons 4										
12:30 Exhibit Hall Opens Refreshment Break in Exhibit Hall											
	Room 205	Room 108	Four Seasons 2	Four Seasons 1	Room 605	Four Seasons 4	Room 601	Room 702	Room 201	Room 708	Exhibit Hall C
E 1:00-1:55	Therapy SNAP Oral Brachytherapy J Zhou, T Podder	Therapy SNAP Oral Phantoms D Mackin, R Howell	Therapy SNAP Oral Treatment Planning I S Yu, D Brown	Therapy SNAP Oral Preclinical Studies W Ngwa, R Wiersma	Joint Imaging-Therapy SNAP Oral Functional Imaging and Modeling G Pratz, S Shen	Joint Imaging-Therapy SNAP Oral Adaptive Therapy and Image Guidance L Dong, N Wen	Joint Imaging-Therapy SNAP Oral Tracking and Image Guidance B Fahimian, B Bednarz	Imaging SNAP Oral Radiography/Fluorocopy S Rudin, K Yang	Imaging SNAP Oral Cone Beam CT I X Jia, F Noo	Imaging SNAP Oral Nuclear Medicine T Pan, Z Qi	
F 2:05-3:00	Therapy SNAP Oral Novel Treatment Investigations Z Wen, P Keall	Therapy SNAP Oral Dosimetry S Yu, E Parsai	Therapy SNAP Oral Treatment Planning II J Roper, A Yock	Therapy SNAP Oral Dose Response Studies D Fried, I El Naqa	Joint Imaging-Therapy SNAP Oral Radiomics H Gao, D Li	Joint Imaging-Therapy SNAP Oral Image Segmentation B Han, S James	Joint Imaging-Therapy SNAP Oral Image Guidance and Verification of Proton Therapy Y Yang, D Mirkovic	Imaging SNAP Oral Mam/Rad/Flu I Reiser, B Schueler	Imaging SNAP Oral Cone Beam CT II X Tang, T Zhang	Ultrasound SNAP Oral Ultrasound Imaging and Guidance of Radiation Therapy X Yang, J Cunha	
EXHIBIT HALL (Refreshment Breaks, Posters and Technical Exhibits) 3:00-3:30 Refreshment Break in Exhibit Hall											
G 3:00-4:00 BIP	BEST IN PHYSICS Presenting Authors available 3:30-4:00 Location: ePoster Theaters in the Exhibit Hall										
H 3:00-5:00 GePD	GENERAL ePOSTER DISCUSSION Imaging Joint Imaging-Therapy Therapy Location: Lounge Areas in the Exhibit Hall										
I 3:00-6:00 GPD	GENERAL POSTER DISCUSSION Education Professional Imaging Joint Imaging-Therapy Therapy Ultrasound Society of Physics Students (SPS) Undergraduate Research Presenting Authors available 3:00-6:00										
J 4:00-5:00 CAMPUS	ePoster CAMPUS Imaging: Innovations in Imaging Provost J Wang Joint Imaging-Therapy: Image Analysis and Therapeutic Guidance Provost Y Xie Therapy: QA and Dosimetry Provost D Mihailidis Location: ePoster Theaters in the Exhibit Hall										
K 4:00-6:00	Therapy SNAP Oral Dose Measurements and Shielding P Balter, D Ionascu	Therapy SNAP Oral Particle Therapy C Peeler, H Paganetti	Therapy SNAP Oral Broad and Interesting Therapy Topics H Alipour, M Aristophanos	Therapy SNAP Oral Treatment Planning III C Mayo, B Bednarz	Joint Imaging-Therapy SNAP Oral Imaging H Al-Hallaq, D Pafundi	Joint Imaging-Therapy SNAP Oral Image Analysis and Learning P Keall, J Star-Lack	Joint Imaging-Therapy SNAP Oral CT/MR/Multi-Modal Imaging in Radiation Therapy K Ding, K Bush	Imaging SNAP Oral Novel Systems and Preclinical Imaging X Pan, B Pogue	Imaging SNAP Oral CT M McNitt-Gray, K Li	Imaging SNAP Oral MRI J Ma, J Cai	

PROGRAM AT A GLANCE | MONDAY, JULY 31

Certificate Course	Professional	Therapy Education	Therapy Scientific	Joint Imaging-Therapy Scientific	Joint Imaging-Therapy Education	Imaging Scientific	Imaging Education	Practical Medical Physics	Ultrasound	Technical Exhibit Hall		
	Room 205	Room 108	Four Seasons 2	Four Seasons 1	Four Seasons 4		Room 702	Room 201	Room 708	Exhibit Hall C		
A 7:30–8:25	Therapy Educational Course Personalized Electron Beam Therapy Using Custom Treatment Devices Moderator: J Antolak, J Antolak, K Hogstrom	Professional Symposium Advanced Training of Medical Physicists Beyond North America Moderator: E Lief, E Lief, Y Pipman, V Tsapaki, J Damilakis, M Rehani, J Van Dyk	Therapy Educational Course Machine Learning in Medical Physics Moderator: X Tang, X Tang, H Lin, L Xing, T Kadir	Therapy Educational Course Clinical Implementation of Pencil Beam Scanning (PBS) Proton Therapy Moderator: L Dong, L Dong, X Zhu, M Pankuch	John R. Cameron Young Investigator Symposium Moderators: M Martel, M Giger		Imaging Educational Course Multi-modality 4D Imaging: From Principles to Applications Moderator: L Ren, G Hugo, D Low, L Ren, W Yang	Practical Medical Physics Tailoring CT Protocols to the Patient's Age, Size, and Clinical Scenario Moderator: D Bakalyar, D Bakalyar, F Ranallo, K Applegate	Ultrasound Symposium Ultrasound Imaging and Therapy Hands-On Workshop Moderator: Z Lu, Z Lu, S Sammet			
B 8:30–9:30												
RAM 9:30–10:00 GEPD	GENERAL ePOSTER DISCUSSION Imaging Joint Imaging-Therapy Therapy Location: Lounge Areas and ePoster Theaters in the Exhibit Hall											
9:30–10:15 Coffee Break in Exhibit Hall												
C 10:15–12:15	President's Symposium Connecting Our Pathways. Unifying Our Profession. Moderator: M Martin M Martin, J Borgstede, B Kavanagh, P Naine Four Seasons 2											
12:15–1:45 Lunch Break + Visit the Technical Exhibits												
L 1:15–1:45 GEPD	GENERAL ePOSTER DISCUSSION Imaging Joint Imaging-Therapy Therapy Location: Lounge Areas and ePoster Theaters in the Exhibit Hall											
	Room 205	Room 108	Four Seasons 2	Four Seasons 1	Room 605	Four Seasons 4	Room 601	Room 702	Room 201	Room 708	Exhibit Hall C	
D 1:45–2:45	SAM: Joint Imaging-Therapy Symposium In Memoriam of Michael Sharpe: The Future of Precision in RT Moderator: D Jaffray, Memorial Lecturer: D Jaffray, T McNutt, D Moseley, K Brock	SAM: Professional Symposium Recent Medical Physics Practice Guidelines and Your Delivery Path Moderator: R Tarver, B Parker, P Halvorsen, D Jacqumin, J Fontenot	SAM: Therapy Educational Course HDR Brachytherapy: Interstitial Treatments for GYN Panel Discussion Moderator: H Al-Hallaq, H Al-Hallaq, J Prisciandaro, J Zoberi	Therapy Scientific Session Novel Delivery and QA Techniques K Kisling, J Farr	Therapy Scientific Session Radiobiology and Small Animal Systems I Chetty, T Zhu	SAM: Therapy Educational Course HDR Brachytherapy: Treatment Verification Methods Moderator: A Damato, O Craciunescu, I Buzurovic, G Cohen	Joint Imaging-Therapy Symposium WMIS/AAPM Joint Symposium: Imaging Hypoxia Moderators: J Hazle, S Gambhir, K Krohn, R Mason, E Graves	SAM: Imaging Symposium Deep Learning and Applications in Medical Imaging Moderator: B Sahiner, B Sahiner, L Hadjiiski, M Giger, R Summers	SAM: Imaging Educational Course MR in RT: MR Pulse Sequences and Image Acquisition (Including Radiation Therapy Applications) Moderator: D Jordan, N Yanasak, K Sheng, H Gach	Education Session Innovation in Medical Physics Education V Montemayor	SAM: Ultrasound Symposium US Guidance for RT Interventions Moderator: B Salter, D Fontanarosa, K Ding, D Hristov	PARTNERS IN SOLUTIONS (1:45-3:15) Imaging: Metal Artifact Reduction Moderators: N Brown, C Dodge PinS Room Hall C
E 2:45–3:45												
RPM 3:45–4:15 GEPD	GENERAL ePOSTER DISCUSSION Imaging Joint Imaging-Therapy Therapy Location: Lounge Areas and ePoster Theaters in the Exhibit Hall											
3:45–4:30 Refreshment Break in Exhibit Hall												
F 4:30–5:30 CAMPUS	Imaging: MRI/PET-MRI Provost K Gorny Joint Imaging-Therapy: Clinical Applications of Imaging for Therapy Provost I Chetty Therapy: Treatment Planning and Optimization Provost R Cardan Location: ePoster Theaters in the Exhibit Hall											
F 4:30–6:00	Joint Imaging-Therapy Scientific Session Image Segmentation D Low, L Ren	Professional Symposium Recent Changes to the ABR MOC Process Moderator: G Frey, J Seibert, G Ibbott	SAM: Therapy Educational Course MR in RT: MR Image Processing, Registration and Planning in Radiation Therapy Moderator: J Cai, J Cai, D Schlesinger, Y Yang	Therapy Scientific Session New Treatment Devices and Approaches E Moros, R Berbeco	SAM: Joint Imaging-Therapy Symposium Machine Learning Role in Radiomics and Radiogenomics Moderators: I El Naqa, R Ten Haken, S Gulliford, G Pandey, C Fuller	Joint Imaging Therapy Symposium FUTURE: Provocative Questions in Medical Physics Moderators: R Jeraj, T Bortfeld, G Liu, R Austin, R Jeraj, T Bortfeld	SAM: Imaging Symposium 2017 ICRU Gray Medal: Presentation of the Medal and Lectures by the Pioneers Moderators: P DeLuca, G Chen, C Mistretta, C Strother, T Grist	SAM: Imaging Educational Course El Di Oh! Implementation and Interpretation of the Exposure Indicator for Digital Radiography Moderator: A Jones, R Fisher, K Hulme, A Jones, J Dave, R MacDougall, C Willis	SAM: Practical Medical Physics Statistical Failings that Keep Us in the Dark & Practical Statistics Moderator: D Schlesinger, D Schlesinger, J Sloan, W Sensakovic	SAM: Ultrasound Symposium US Guided Systems for Brachytherapy Moderator: L Beaulieu, A Fenster, X Yang, L Beaulieu	INTERVIEW WORKSHOP	
6:30–8:00 AAPM Awards Ceremony, Hyatt Regency, Centennial Ballroom 8:00–9:00 Reception, Hyatt Regency, Capital Ballroom												

PROGRAM AT A GLANCE | TUESDAY, AUGUST 1

Certificate Course	Professional	Therapy Education	Therapy Scientific	Joint Imaging-Therapy Scientific	Joint Imaging-Therapy Education	Imaging Scientific	Imaging Education	Practical Medical Physics	Ultrasound	Technical Exhibit Hall	
	Room 205	Room 108	Four Seasons 2	Four Seasons 1	Room 605	Four Seasons 4	Room 601	Room 702	Room 201	Room 708	Exhibit Hall C
A 7:30-8:30	SAM: Therapy Symposium Microscopic Monte Carlo Simulations for Radiobiology Modeling: Advances and Challenges Moderator: X Jia, J Schuemann, I Plante, A McNamara, Z Tian	SAM: Professional Symposium Code of Ethics: Practicing Our Values Moderator: C Skourou, G Sherouse, K Osterman	SAM: Therapy Educational Course Inverse Optimization Meets High Performance Computing Moderator: K Sheng, D O'Connor, D Nguyen, A Modiri, H Paganetti	SAM: Therapy Symposium QA for Modern Radiation Therapy Moderator: R Wiersma, Y Yang, R Wiersma, D Yang	SAM: Therapy Educational Course Big Data 1: Current Big Data Resources and Technology in Radiation Oncology Moderator: S Benedict, S Benedict, T McNutt, L Xing, E Roelofs	SAM: Joint Imaging-Therapy Symposium Design for Care Moderator: E Ford, E Ford, C Negrut, E Krupinski, A Samost-Williams	Imaging Scientific Session MRI R Stafford, Y Shu	SAM: Imaging Educational Course A Concise Introduction to MRI Moderator: A Wolbarst, A Wolbarst, N Yanasak, R Stafford	SAM: Practical Medical Physics Good, Bad and Ugly of Patient Exposure and Dose Tracking Moderator: M Rehani, M Rehani, M Kalra, M McNitt-Gray	SAM: Ultrasound Symposium Therapeutic Ultrasound and Immunotherapy: A Primer Moderator: E Maros, E Repasky	
B 8:30-9:30		SAM: Professional Symposium MR in RT: Professional Requirements for Physicists in MRI Guided Radiation Therapy Moderator: J Och, M Amuraa, G Clarke			SAM: Therapy Educational Course Big Data 2: New and Emerging Big Data Strategies in Radiation Oncology Moderator: J Deng, J Deng, C Mayo, S Mutic			SAM: Practical Medical Physics Identifying Image Artifacts, Their Causes, and Solutions Moderator: R Pooley, R Pooley, J Kofler, B Kemp	SAM: Ultrasound Symposium HIFU in Oncology Moderator: C Diederich, K Sharma, G Ter Haar	Professional Symposium How to Prepare for and Navigate the Board Certification Process in Diagnostic and Nuclear Imaging Moderator: T Szczytkowicz, N Bevins, T Szczytkowicz, N Busse PinS Room Hall C	
9:30-11:00 Coffee Break in Exhibit Hall											
C 9:30-11:00 GePD	GENERAL ePOSTER DISCUSSION Imaging Joint Imaging-Therapy Therapy Location: Lounge Areas and ePoster Theaters in the Exhibit Hall										
9:30-11:00	VISIT THE VENDORS: Technical Exhibits Area EXPANDING HORIZONS: General Poster Area in Exhibit Hall C										
D 11:00-12:15	Therapy Scientific Session Dose Calculations U Tift, B Fallone	Therapy Scientific Session Inverse Planning and Optimization D Craft, K Sheng	Professional Symposium What to Do: Medical Physicist Assistants Moderator: P Halvorsen, G Ezzell, D Fontenla, B Schueler	SAM: Therapy Educational Course Developments in Clinical Reference Dosimetry Moderator: B Muir, B Muir, M McEwen, S Kry, V Feyselman	SAM: Joint Imaging-Therapy Symposium Roles of In-vivo Dose Verification in Radiation Therapy Moderator: S Beddar, S Beddar, J Polf, K Tanderup	Joint Imaging-Therapy Scientific Session MRI and Radiation Therapy D Hristov, N Dogan	Imaging Scientific Session MRI J Hazle, Y Zhou	SAM: Imaging Educational Course Best Practices in Pediatric Imaging Moderator: C Sammet, L Johnson, C Sammet	SAM: Practical Medical Physics MR in RT: Implementation in RT Planning and Delivery Moderator: J Wang, C Glade-Hurst, Y Hu, J Bourland	Ultrasound Symposium Advanced Novel Technologies & Delivery Strategies in HIFU Moderator: A Payne, K Hynynen, R Chopra	
12:15-1:45 Lunch Break + Visit the Technical Exhibits											
L 1:15-1:45 GePD	GENERAL ePOSTER DISCUSSION Imaging Joint Imaging-Therapy Therapy Location: Lounge Areas and ePoster Theaters in the Exhibit Hall										
E 1:45-3:30	SAM Educational Topic-Specific Guided Tours Organizer: N Brown Imaging - Quality Assurance Phantoms in Diagnostic Imaging : Room 113 Therapy - Secondary Dose Calculation Programs : Room 111 [TICKETED EVENT]										
F 1:45-2:45	Therapy Scientific Session Dose Measurements T McNutt, M Oldham	SAM: Professional Symposium Leading From the Middle Moderator: R Miller, N Henjum, L Quinn [TICKETED EVENT]	Joint Imaging-Therapy Scientific Session MRI-Guided Radiation Therapy J Cai, T Niedermayr	Imaging Educational Course Anne and Donald Herbert Distinguished Lectureship in Modern Statistical Modeling Moderator: S Sammet, D Krewski	Joint Imaging - Therapy Scientific Session SCIENCE COUNCIL SESSION: Big Data, Deep Learning, and AI in Imaging and Radiation Oncology M Giger, C Mayo	SAM: Joint Imaging-Therapy Symposium MR-guided Radiotherapy Moderator: J Bayouth, E Paulson, C Glade-Hurst, M Bassetti	SAM: Imaging Symposium Photon Counting Detectors and Their Applications in Medical Imaging Moderators: C McCollough, T Schmidt, S Leng, S Moloi, K Li	Therapy Scientific Session Patient Safety J Johnson, R Backul	SAM: Practical Medical Physics Compliance with AAPM, ACR, TJC Guidelines on CT Clinical Practice Moderator: T Szczytkowicz, T Szczytkowicz, I Reiser, A Browne	SAM: Ultrasound Symposium Therapeutic Strategies and Image Guidance in HIFU Moderator: R Chopra, C Caskey, C Guha, A Payne, T Khokhlova	Professional Symposium Navigating the Board Certification Process: Therapy Physics Moderator: D Hyer, D Hyer, B Dirksen PinS Room Hall C
G 2:45 - 3:45				Imaging Educational Course The Future of Medical Physics in Relation to Low Dose Radiation Effects Moderator: R Layman, L Wagner, M O'Connor					SAM: Practical Medical Physics DBT Quality Assurance: Medical Physicists Role, From Equipment Evaluation to Soft Copy Image Display Moderator: K Chakrabarti, K Chakrabarti		Joint Imaging-Therapy Symposium PROSTATEx-2 Challenge Moderator: S Armato, K Farahani, S Armato, K Drukker PinS Room Hall C
RPM 3:45-4:15 GePD	GENERAL ePOSTER DISCUSSION Imaging Joint Imaging-Therapy Therapy Location: Lounge Areas and ePoster Theaters in the Exhibit Hall										
3:45-4:30 Refreshment Break in Exhibit Hall											
H 4:30-5:30 CAMPUS	Imaging: CT and CBCT Provost J Stayman Joint Imaging-Therapy: Quantitative Imaging and Analytics Tools Provost W Mao Therapy: Proton Therapy Provost R Amos Location: ePoster Theaters in the Exhibit Hall										
H 4:30-6:00	SAM: Joint Imaging-Therapy Symposium Radiomics for Lung Cancer Moderator: R Li, F Yin, R Li, D Mackin	Professional Symposium New Member Symposium Moderators: L Johnson, C Gnaster, L Johnson, M Marlin, J Clements, T Pawlicki, G Sherouse	SAM: Therapy Educational Course Electronic Charting in Radiation Oncology and Integration with Hospital EMR Moderator: J Mechalakos, G Kim, Y Huang, L Fong de los Santos, M Surucu, Y Yu	Imaging Educational Course Joint Scientific Symposium with ESTRO: From Bench to Bedside Via Veterinary Radiation Oncology Moderator: S Dieterich, S Saporeto, T Yamamoto, M Kent, S Dieterich	Joint Imaging-Therapy Scientific Session Image Guided Radiation Therapy R Hamilton, E Schreibmann	Joint Imaging-Therapy Scientific Session Radiomics and Image Analysis L Xing, I El Naqa	SAM: Imaging Symposium Non-conventional Multi-source X-Ray Imaging: Cardiac, Breast Imaging and Cone Beam CT Moderator: M Speidel, T Zhang, Q Zhou, M Speidel, S Hsieh	SAM: Imaging Educational Course 90Y-Microsphere Therapy: Emerging Trends and Future Directions Moderator: K Little, V Gates, M Vanderhoeck	SAM: Practical Medical Physics An Interactive Safety Session for New Brachytherapy Practitioners Moderator: S Richardson, S Richardson, Z Ouhib, T Showalter	Ultrasound Symposium HIFU Treatment Planning, Modeling, and Dose Moderator: D Christensen, J Jenne, D Christensen, D Schlesinger	
6:30-10:00 AAPM Night Out Denver Art Museum											

PROGRAM AT A GLANCE | WEDNESDAY, AUGUST 2

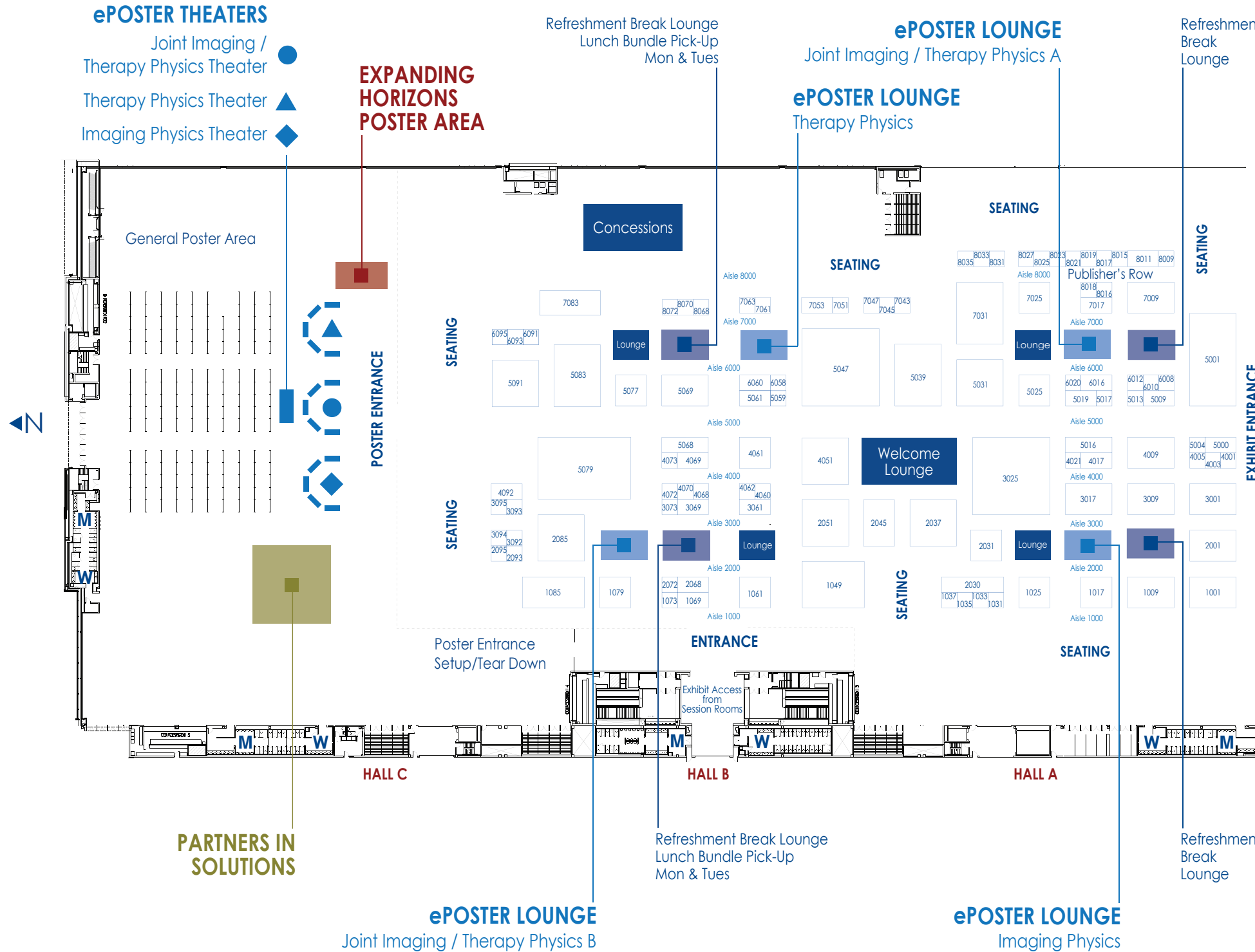
Certificate Course	Professional	Therapy Education	Therapy Scientific	Joint Imaging-Therapy Scientific	Joint Imaging-Therapy Education	Imaging Scientific	Imaging Education	Practical Medical Physics	Ultrasound	Technical Exhibit Hall	
	Room 205	Room 108	Four Seasons 2	Four Seasons 1	Room 605	Four Seasons 4	Room 601	Room 702	Room 201	Room 708	Exhibit Hall C
A 7:30-8:25	SAM: Imaging Educational Course Certificate of Completion Course Overview of Imaging's Role in Clinical Trial Moderators: M McNitt-Gray, J Wang, J Cai J Wang, K Farahani, T Turkington, D Cody	SAM (7:30-8:30): Professional Symposium Physicists' Roles and Workload for NCTN (National Clinical Trials Network) Clinical Trials Moderator: A Moineu A Moineu, H Al-Hallaq, J Monroe	SAM: Joint Imaging-Therapy Educational Course In Memoriam of Bob Gorson: Radiation Programs in Medical Centers Moderator: M Martin Memorial Lecturer: C Barros M Martin, J Clements, J Fairbanks, M Sheetz	SAM: Therapy Symposium The Role of Physics in Long Term Epidemiological Studies of Pediatric Radiotherapy Patients Moderator: C Lee A Berrington deGonzalez, R Howell, C Lee, W Newhauser	Therapy Scientific Session Advances in Brachytherapy S Vedam, R Cormack	SAM: Joint Imaging-Therapy Symposium Optical Image-guided Surgery Moderator: K Farahani B Pogue, A Glaser, M Bradbury, K Farahani	Imaging Scientific Session Radiography/Fluoroscopy A Karellas, M Speidel	SAM (7:30-8:30): Imaging Educational Course Advanced Breast Imaging: Stereotactic Breast Biopsy Updates and Contrast Enhanced Spectral Mammography Moderator: G Mihai G Mihai, W Geiser	SAM (7:30-8:30): Practical Medical Physics From the Trenches: Implementing the Changes of the New MR QA Manual Moderator: N Yanasak N Yanasak	Ultrasound Symposium Performance Evaluation of Ultrasound Systems: Advanced Methods and Applications Moderator: Z Lu N Hangiandreou	
B 8:30-9:30		Professional Symposium In Memoriam of Ann Wright: Panel Discussion: Promoting Diversity Through Active Mentoring Moderator: L Cervino Memorial Lecturer: C Orton Panel Members: L Cervino, N Ranger, E Krupinski, M McNitt-Gray, S Avery, J Moran, J Pollard						SAM: Therapy Educational Course Intra-Operative Radiotherapy (IORT): Breast and Beyond Moderator: Y Liao S Beddar, H Zhang, Y Liao, J Turian	SAM: Practical Medical Physics Perspectives in MRI Safety for Medical Physicists Moderator: M Amurao M Amurao, A Panda	Ultrasound Symposium The Carson/Zagzebski Distinguished Lecture on Medical Ultrasound Moderators: T Liu, C Diederich L Wang	
RAM 9:30-11:00 GEPD	GENERAL ePOSTER DISCUSSION Imaging Joint Imaging-Therapy Therapy Location: Lounge Areas and ePoster Theaters in the Exhibit Hall										
9:30 -11:00 Coffee Break in Exhibit Hall											
C 10:15-12:00	SAM Educational Topic-Specific Guided Tours Organizer: N Brown Imaging - Quality Assurance Phantoms in Diagnostic Imaging: Room 113 Therapy - Secondary Dose Calculation Programs: (10:15 - 11:40) Room 111 (TICKETED EVENT)										
D 10:15-11:15	SAM: Joint Imaging-Therapy Scientific Symposium Certificate of Completion Course Recent Advancement of Imaging Guidance in Clinical Trial Moderators: M McNitt-Gray, J Wang, J Cai W Lin, G Ibbott, F Kong, S Leng, E Jackson, L Court	Professional Symposium Professional Liability and Legal Considerations Moderator: D Jordan C Cardenas, J Masten	SAM: Joint Imaging-Therapy Educational Course Medical Physics 3.0 in Design Moderator: E Samei E Samei, R Miller, M Fox, M Giger, E Chin, B Whelan	SAM: Therapy Symposium Quantitative Imaging Guided Adaptive Radiotherapy Moderator: A Li J Deasy, F Kong, U van der Heide, A Li	Imaging Scientific Session Multi-Energy CT L Yu, T Schmidt	SAM: Joint Imaging-Therapy Symposium Research Funding Moderator: C Peeler K Farahani, C Peeler, A Sawant, C Gilde-Hurst	SAM: Imaging Symposium Emerging and New Generation PET: Instrumentation, Technology, Characteristics and Clinical Practice Moderator: J Zhang T Turkington, J Zhang, O Mawlawi, J Karp	SAM: Imaging Educational Course Implementation of the 2016 ACR Digital Mammography Quality Control Manual Moderator: P Butler P Butler, D Pfeiffer, E Berns	SAM: Practical Medical Physics Improving Dose Prescriptions for Safety, Reporting, and Clinical Guideline Consistency Moderators: I Das, J Moran I Das, J Moran, M Langer	SAM: Ultrasound Symposium Advances in Ultrasound Contrast Agents for Diagnosis & Therapy Moderator: P Carson J Dahl, J Eisenbrey, K Hoyt	PARTNERS IN SOLUTIONS Therapy: In Vivo Dosimetry / Transmission Detection Systems Moderator: N Brown PinS Room Hall C
E 11:15-12:15		Professional Symposium Intellectual Property Law for the Medical Physicist Moderator: B Dirksen S Penner							SAM: Practical Medical Physics Management of Radiotherapy Patients with Cardiac Implantable Electronic Devices Moderator: M Milten D Mihalidis, S Kry, M Milten		
12:15-1:45 Lunch Break + Visit the Technical Exhibits (NOTE: Posters close at 12:15 pm and Exhibits close at 2:00 pm)											
F 1:45-3:45	Joint Imaging-Therapy Scientific Session Certificate of Completion Course Current and Future Aspects of Clinical Trials: Quality Assurance and Quantitative Imaging K Sheng, J Deng	Professional Symposium Economic Issues in Medical Physics Moderator: B Dirksen B Dirksen, W Smith Fuss, B Kavanagh	SAM: Joint Imaging-Therapy Educational Course Medical Physics 3.0 in Practice Moderator: E Samei N Hangiandreou, E Ford, X Li, T Atwood, D Pavord	SAM: Therapy Symposium Recent Advances in Brachytherapy Moderator: A Damato A Damato, M Rivard, W Song, B Fahimian	Joint Imaging-Therapy Scientific Session Imaging Guidance and QA R Berbeco, D Ruan	SAM: Therapy Symposium In Memoriam of John "Jack" F. Fowler: The Mathematics of Dose-fractionation Effects Moderator: B Thomadsen Memorial Lecturer: C Orton M Ritter, S Benitzen	SAM Imaging Symposium Low Dose CT: Where Do We Stand Now? Moderator: S Leng G Chen, J Stayman, C McCollough, P Pickhardt	SAM: Therapy Educational Course Strategies for Quality Improvement Based on RO-ILS Informatics Moderators: G Ezzell, K Kapetanovic N Agazaryan, G Ezzell, A Dicker, S Weintraub, L Santanam	Imaging Scientific Session Nuc Med O Mawlawi, S Bowen	Ultrasound Symposium Advances in Ultrasound Imaging Technology Moderator: M Holland B Byram, K Thomenius, M Insana	
3:45-4:30 Refreshment Break (B Lobby, Street Level)											
G 4:30-6:00	SAM: Joint Imaging-Therapy Scientific Symposium Certificate of Completion Course The Roles and Task of Medical Physicists in Clinical Trial Moderators: M McNitt-Gray, J Wang, J Cai R Jeraj, Y Xiao, P Kinahan, F Yin, M McNitt-Gray	History Symposium Radionuclide Therapy: Dr. Saul Hertz to Present Moderator: M Gossman F Fahey, B Greenspan, G Sgouros	SAM: Therapy Educational Course In Memoriam of Michael Goitein: Milestones in Treatment Planning, Biophysical Modeling, and Delivery of Proton Therapy Moderator: T Borfield Memorial Lecturer: G Goitein C Ling, R Mohan, A Niemierko	Therapy Scientific Session Outcome Modeling J Niedzielski, A Sawant	Joint Imaging-Therapy Scientific Session Applications of Imaging in Proton Therapy C Bloch, T Niu	SAM: Joint Imaging-Therapy Symposium ROC: A New Method in Radiotherapy QA Moderator: M Carlone E Krupinski, E Boehnke, L Archambault	Imaging Scientific Session Mam/Tomo/MBI S Vedantham, A Maidment	SAM: Imaging Educational Course Quantitative Multi-Energy Computed Tomography: Imaging and Therapy Advancements Moderator: R Layman T Schmidt, X Duan, R Layman	Imaging Scientific Session Image Processing/Analysis H Chan, W Lu	Ultrasound Symposium Ultrasound in Monitoring Treatment Response Moderator: T Liu X Li, T Liu, D Hristov	
6:15-7:30 AAPM Annual Business Meeting / Town Hall Meeting AAPM Board of Director Members Four Seasons 2											

PROGRAM AT A GLANCE | THURSDAY, AUGUST 3

Certificate Course	Professional	Therapy Education	Therapy Scientific	Joint Imaging-Therapy Scientific	Joint Imaging-Therapy Education	Imaging Scientific	Imaging Education	Practical Medical Physics	Ultrasound	Technical Exhibit Hall	
	Room 205	Room 108	Four Seasons 2	Four Seasons 1	Room 605	Four Seasons 4	Room 601	Room 702	Room 201	Room 708	Exhibit Hall C
A 7:30-8:25	Joint Imaging-Therapy Scientific Session Tracking and Motion Management Y Yu, W Mao	Professional Symposium Diagnostic Workforce Study Report Moderator: D Gress, D Jordan, D Gress	SAM (7:30-8:30): Therapy Educational Course Best Practices for Physics Plan and Chart Review: Report of AAPM Task Group 275 Moderator: E Ford, E Ford, D Schofield, G Kim, L Fong de los Santos	Therapy SNAP Oral Safety and QA J Pollard, S Matic	Therapy Scientific Session Particle Therapy B Winey, Y Yan	Joint Imaging-Therapy Scientific Session Functional Imaging and Therapeutic Evaluation S Das, X Li	Imaging Scientific Session CBCT G Chen, J Boone	●	SAM: Imaging Educational Course How to Select and Evaluate a PET Auto-segmentation Tool - Insights from AAPM TG211 Moderator: A Kirov, C Schmittlein, I El Naqa, A Kirov, E Spezi	Joint Imaging-Therapy Scientific Session Radiomics and Quantitative Imaging N Yue, H Shim	Imaging Scientific Session New Tech/Precinlic S Cho, B Whiting
B 8:30-9:30		SAM: Professional Symposium Adult Learning (Andragogy) Techniques for Medical Physics Moderator: L Padilla, M Kissick, L Salkowski, L Padilla, M Porras-Chaverri	SAM: Therapy Educational Course Contour Quality Assurance and Decision Support: Implications, Issues, and the State-of-the-Art Moderator: M Altman, J Kavanaugh, T Purdie, K Brock								
9:30-10:00 Coffee Break (B Lobby, Street Level)											
C 10:00-10:55	Therapy Scientific Session Treatment Planning I J Adamson, A Melancon	Professional Symposium Session in Memory of Alex Turner. Medical Physics Journal Workshop: An Update On the Journal's Improvement Activities and Guidance On Writing and Reviewing Papers Moderator: J Williamson, Memorial Lecturer: R Tarver, J Williamson, S Das, M Goodsitt	SAM: Joint Imaging-Therapy Symposium Auto-segmentation for Thoracic Radiation Treatment Planning: A Grand Challenge Moderator: J Yang, S Armato, G Sharp, J Yang, H Veeraraghavan	●	SAM: Therapy Symposium Joint Symposium of AAPM and ASTRO: Normal Tissue Dose-Volume Effects of Head/Neck and Liver/GI SBRT Moderator: J Grimm, M Miften, B Kavanagh, P Mavroidis, V Moiseenko	SAM: Joint Imaging-Therapy Symposium Nanoparticles for Imaging and Therapy Moderator: R Berbeco, S Krishnan, T Lammers, R Berbeco	SAM: Therapy Educational Course Changing Paradigms for Linac QA Using EPIDS Moderator: S Matic, T Ritter, B McCurdy, B Cai, T Pawlicki	Imaging Scientific Session CT D Cody, C McCollough	SAM: Imaging Educational Course Computed Tomography Imaging: From the Order to Dose Monitoring and Review Moderator: M Supanich, M Supanich, S McKenney, J Wilson	SAM: Therapy Educational Course SRS/SBRT: Clinical Implementation and Small Volume Dose Limits in Brain/Spine Moderator: A Sethi, C Tseng, L Ma, A Sethi	Therapy Scientific Session New Treatment Techniques S Stathakis, L Court
D 11:00-12:00		●	Professional Symposium Panel Discussion: Mentor and Menlee Roles Moderator: Y Rong, Y Rong, T Fisher, R Stern, J Boone								
12:00-12:50 Boxed Lunch (B Lobby, Street Level)											
	Room 205	Four Seasons 2		Four Seasons 1	Room 605	Four Seasons 4	Room 601		Room 702		Exhibit Hall C
E 1:00-2:00	SAM: Therapy Educational Course Clinical IGRT: In-Room Imaging Technologies and Image Processing for Patient Alignment Moderator: J Chang, Y Rong, J Chang, J Sillanpaa	Professional Symposium Question Writer Workshop Moderator: G Frey, J Allison, Instructors: G Frey, G Ibbott, J Seibert, M Podgorsak		Therapy Scientific Session Treatment Planning II J Yang, A Modiri	Joint Imaging-Therapy Scientific Session 4D Imaging J Wang, A Sawant	SAM: Joint Imaging-Therapy Symposium Advancements in MRI and MR-Guided Interventions Moderator: J Cai, N Chen, J Cai, E Jackson	Imaging Scientific Session CT Dose S Leng, T Szczykutowicz		SAM: Imaging Educational Course Update on Task Group 270: Display Quality Assurance Moderator: M Silosky, A Walz-Flannigan, N Bevins, M Silosky		
F 2:00-3:00	SAM: Therapy Educational Course Clinical IGRT: Treatment Site Uncertainties, IGRT Protocol Design and Informed Margins Moderator: K Wijesooriya, K Wijesooriya, D Vile										
CLOSE OF MEETING See you next year in Nashville, TN July 29-August 2, 2018											

TECHNICAL EXHIBITS

Level 2, Convention Center



ePOSTER THEATERS

- Joint Imaging / Therapy Physics Theater
- ▲ Therapy Physics Theater
- ◆ Imaging Physics Theater

EXPANDING HORIZONS POSTER AREA

PARTNERS IN SOLUTIONS

ePOSTER LOUNGE Joint Imaging / Therapy Physics B

ePOSTER LOUNGE Joint Imaging / Therapy Physics A

ePOSTER LOUNGE Therapy Physics

ePOSTER LOUNGE Imaging Physics

EXHIBITS: HALLS A-B

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

POSTER DISPLAYS: HALL C • ePOSTER LOUNGES

Poster Set Up	
Saturday	8:00 am – 6:00 pm
Sunday	7:00 am – Noon

ePoster Presentations

Best in Physics (ePoster Theater)	
Sunday	3:00 pm – 4:00 pm
Campus (ePoster Theater) Provost will moderate	
Sunday	4:00 pm – 5:00 pm
Monday – Tuesday	4:30 pm – 5:30 pm

General ePoster Discussions (ePoster Theater & ePoster Lounges)

Sunday	3:00 pm – 5:00 pm
Monday	9:30 am – 10:00 am
	1:15 pm – 1:45 pm
	3:45 pm – 4:15 pm
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

ePoster Viewing

Sunday	4:00 pm – 6:00 pm
Monday – Tuesday	9:00 am – 4:30 pm
Wednesday	9:00 am – 2:00 pm

General Poster Presentations

Sunday	3:00 pm – 6:00 pm
General Poster Viewing	
Sunday	12:30 pm – 6:00 pm
Monday – Tuesday	9:00 am – 6:00 pm
Wednesday	9:00 am – 2:00 pm

Poster Tear Down

Wednesday	12:15 pm – 2:00 pm
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ASSOCIATION SERVICES: EXHIBIT HALL A ENTRANCE

AAPM Member Resources | AAPM Career Services

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

AAPM Education & Research Fund Donors' Lounge

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

History Display

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

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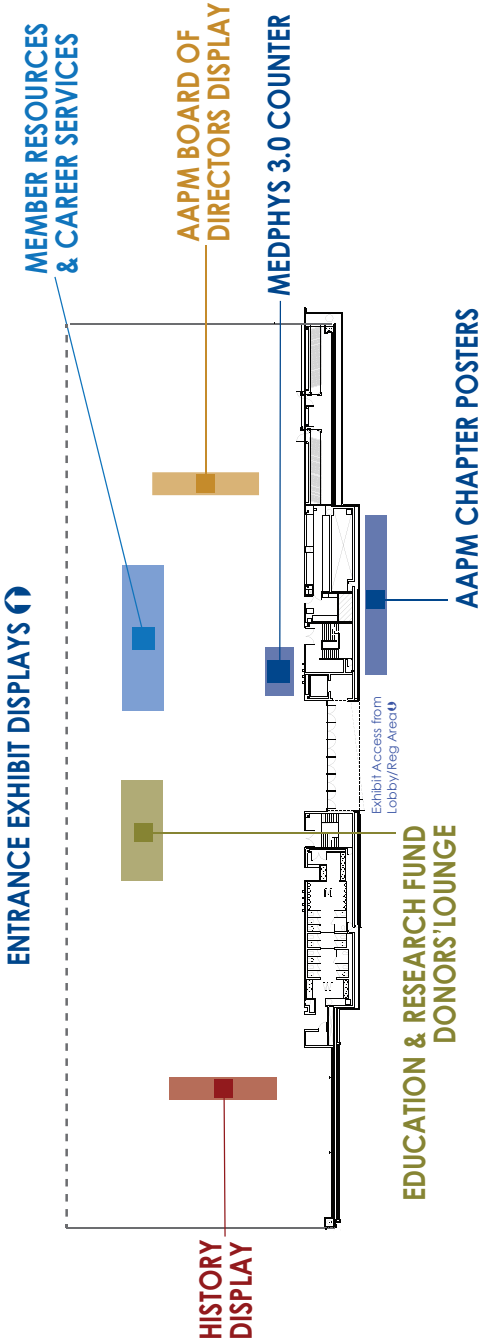
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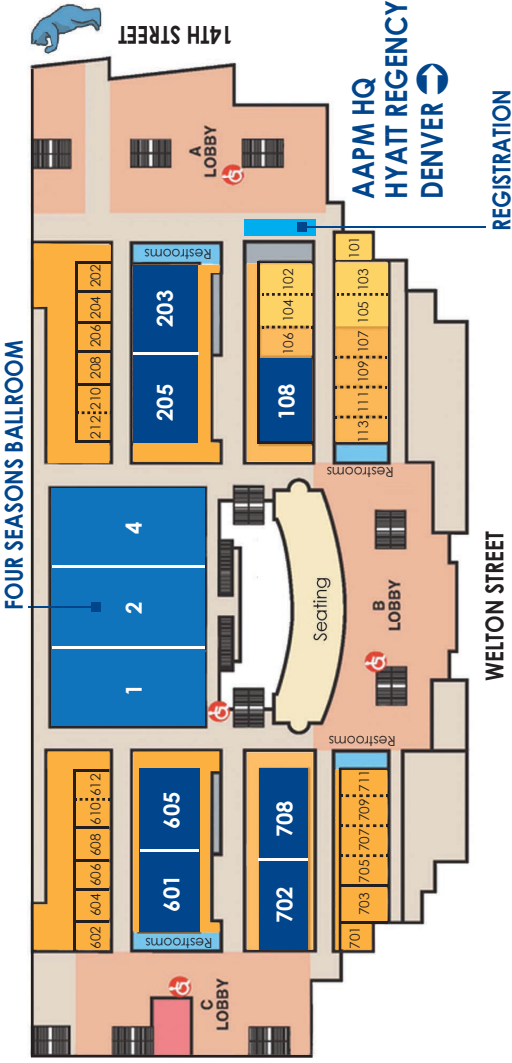
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1035

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UT MD Anderson Cancer Center**5068**

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