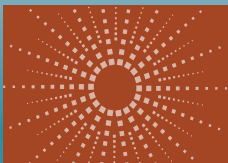


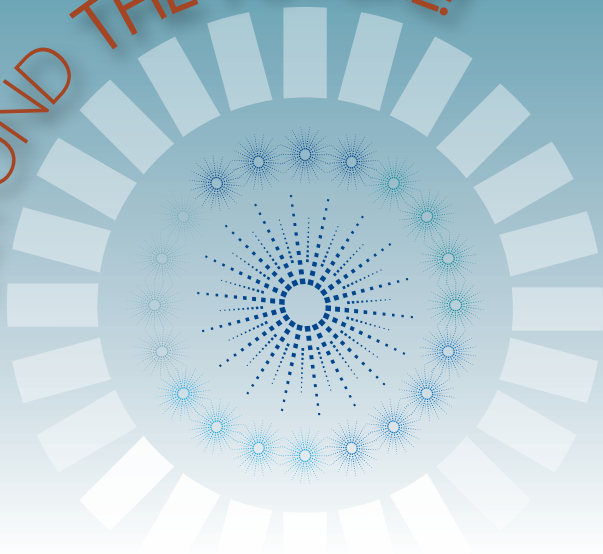
# AAPM 2018

JUL 29–AUG 2



60<sup>TH</sup> ANNUAL MEETING & EXHIBITION | NASHVILLE, TN

BEYOND THE FUTURE!



# POCKET PROGRAM

# AAPM POLICY AGAINST HARASSMENT AND DISRUPTIVE BEHAVIOR AT MEETINGS

## Professional Policy 31-A

### 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.

### Reporting Harassment

Any individual covered by this policy who believes that he or she has been subjected to harassment may file a complaint during the meeting in any of the following ways:

1. In person by contacting AAPM Headquarters, any AAPM staff member, any AAPM Board member, the committee chair, the session moderator, or the course (program) director, or
2. Using an online form available at:  
**[aapm.ethicspoint.com](http://aapm.ethicspoint.com)**

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# | BEYOND THE FUTURE

Welcome to the 60th AAPM Annual Meeting & Exhibition, which is the result of many hours of thoughtful consideration of content and ideas.

You are attending the world's largest program of scientific, educational, and professional presentations and exhibits in the medical physics community. We offer symposia, panel discussions, courses, and workshops on the latest medical physics topics. Our exhibit hall provides the perfect opportunity to connect with vendors, learn about new products and services, and seek technical support.

The theme for the meeting is "**Beyond the Future!**" To adapt for the changes approaching medical physics, we have to plan further ahead than five years, beyond what we can predict. At this meeting, we will work toward plotting a course for AAPM for the future.

I hope you make plans with friends and colleagues to really experience Nashville. You may know it for its unique mix of music, but it is quickly becoming a foodie favorite as well. Enjoy!

**Bruce Thomadsen**  
**President, AAPM**



## SESSIONS OF NOTE FROM THE PRESIDENT:

- AAPM Medical Physics Student Meeting: The Role of Automation in Clinics of the Future
- Optimization of Treatment Planning
- QA for Emerging Technologies
- Novel Imaging Applications
- Adaptive Radiation Therapy
- Treatment Planning and Machine Learning
- Novel Applications
- New Delivery and Treatment Techniques
- Medical Physicists and the Global Health Challenge



- Automation in Radiation Therapy: Past, Present, and Future
- Building a Successful Adaptive Radiotherapy Program
- Automation and Standardization of Planning, Plan Evaluation and System Testing Through Advanced Programming in Treatment Planning System
- President's Symposium: Beyond the Future
- Intelligent Automation for Treatment Planning Workflows
- Outcomes Modeling (Tumor Control, Response Modeling, Clinical Decision Making)
- President's Workshop — Generating Visions for the Path Forward
- WMIS/AAPM Joint Symposium: Imaging Immunity: Why and How?
- Image Guided Cancer Therapy
- Automation in Radiotherapy — Fasten Your Seatbelt!
- Quantitative Imaging: Translation to Practice
- Exploring Collaboration with Industry and the Physicist in the Clinic
- Quantitative Imaging in Radiomics and Machine Learning
- Role of the Diagnostic Physicist
- Radiobiology: Experiments and Modeling
- Optimizing Efficiency and Safety of Radiation Therapy Process
- Mentoring Within AAPM: Lessons and Opportunities — SCAMP Update
- Applications in Deep Learning in Imaging and Therapy
- Novel Computing Applications in Imaging and Therapy
- New Member Symposium - New Initiatives for AAPM
- Novel Imaging Modalities and Applications
- Introduction to Radiomics (Session 1 of the Certificate Series)

- Knowledge-based Treatment Planning
- Workforce Supply/Demand Into The Future
- Joint AAPM-ESTRO Symposium: Automated Treatment Planning in Clinical Practice
- Machine Learning for Radiomics (Session 2 of the Certificate Series)
- Intelligent Automation for Treatment Planning Workflows
- Breaking Out of the Clinic: Nontraditional Medical Physics Careers
- Convolutional Neural Nets (Session 3 of the Certificate Series)
- Prospective Risk Management in the Wild: Tales From the Clinic
- NIH Grants in Imaging and Radiation Therapy: What's New, How to Get and Manage One
- Roles of RT in Immunotherapy
- Discharging the Bias: Recognizing and Addressing Unconscious Bias in the Workplace
- Novel Molecular Imaging Techniques to Personalize Cancer Treatment
- Novel Treatment Delivery and Verification Strategies
- Radiomics (Session 5 of the Certificate Series)
- Point/Counterpoint Live Debate: Artificial Intelligence Will Soon Change the Landscape of Medical Physics Research and Practice
- Adaptive Radiation Therapy
- The Vision and Components of Medical Physics 3.0 Practice
- Deep Learning with Medical Images (Session 6 of the Certificate Series)
- Cover Your Assets: My Employer Has My Back (Right?)
- Errors and Data Mining in EMR
- Is That Big Bang a \$2 Million Lawsuit?
- Experimental and Computational Dosimetry for MRgRT

## 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)**  
Karl Dean Ballroom A1, A2  
Davidson Ballrooms A, B
- **Imaging (Education & Scientific)**  
Rooms 202, 205
- **Joint Imaging-Therapy**  
Karl Dean Ballroom B, C
- **Professional**  
Room 209
- **Practical Medical Physics**  
Room 207
- **Specialty Track Quantitative Imaging in the Era of Big Data and Precision Medicine**  
Davidson Ballroom B

## CONTINUING EDUCATION

### ***Medical Physicists***

The AAPM 60th 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 eight 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.

### ***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 Music City Center (AAPM session rooms, Exhibit Hall and function space).

The Online Evaluation System will remain open through **11:59 pm ET, September 14**. Evaluations **MUST** be completed by that time for credits to be earned. MPCEC, MDCB, and SAM credits will be released on **September 21, 2018**.



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 60th 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 60th 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, Wednesday, September 14, 2018**. 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:

[w3.aapm.org/meetings/2018AM/programInfo/programHandouts.php](http://w3.aapm.org/meetings/2018AM/programInfo/programHandouts.php)

Handouts will not be distributed in hard copy on site.

**SPEAKER READY ROOM**

**Room 203, Music City Center**

Saturday – Wednesday	7:00 am – 6:00 pm
Thursday	7:00 am – 2:30 pm



AMERICAN ASSOCIATION  
*of* PHYSICISTS IN MEDICINE

INTRODUCING...

# AAPM MERCHANDISE



**Now on Display at the  
AAPM Member  
Resources Center  
Level 3 Concourse!**

Show your AAPM pride with distinctive,  
high quality AAPM logo products made  
in America and custom-designed  
especially for AAPM.



Makes a great gift!

Order Yours Today:

[www.aapm.org/merchandise](http://www.aapm.org/merchandise)

AAPM 2018



## **CAREER SERVICES** **on-site here in Nashville!**



### **Are you hiring or looking to be hired?**

Stop by the AAPM Career Services Center,  
**Exhibit Hall Concourse, Level 3,**  
**Music City 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.

**[careers.aapm.org](https://careers.aapm.org)**

Available to job seeking and hiring members  
year-round!



# ASSOCIATION SERVICES

## AAPM HEADQUARTERS OFFICE

**Music Row 5, Level 2, Omni Hotel**

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 210, Music City 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

**Exhibit Hall Concourse, Level 3, Music City Center**

615-345-6501

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 Concourse, Level 3, Music City Center**

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

### E&R Fund Donors' Lounge

#### **Escalator Lobby, Level 3, Music City 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 & 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](http://www.aapm.org/education/edfundintro.asp)

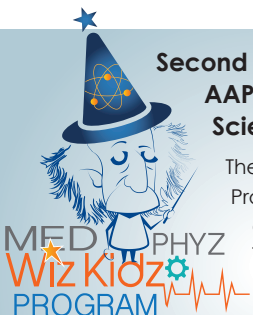
## AAPM NEW ATTENDEE ORIENTATION

### **Seating Lounge, Level 3 outside Hall A**

Sunday 7:30 am – 8:30 am

Monday 9:30 am – 10:30 am

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

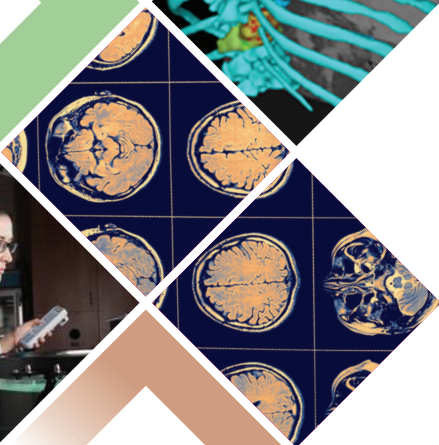
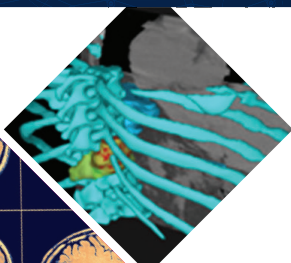


### Second Annual AAPM-Sponsored Science Outreach Event

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.

# AAPM

## Education & Research Fund Donors' Lounge



### focus on our future

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

**Escalator Lobby, Level 3**

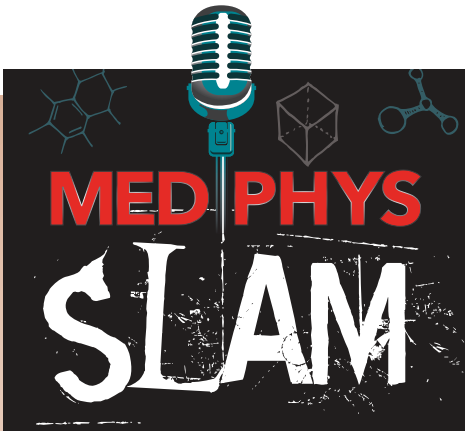
**Music City Center Center to DONATE NOW!**

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](http://www.aapm.org/education/edfundintro.asp)



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

## FOLLOW US ON INSTAGRAM!

[www.instagram.com/aapmHQ/](http://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!

# GENERAL INFORMATION

## REGISTRATION

### **Level 2, Music City Center**

615-345-6500

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 B-C-D

### **Level 3, Music City 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 Music City Center (AAPM session rooms, Exhibit Hall, and function space). *Look for AAPM2018 and use password: 60years*

### **Internet/CEC Terminals**

#### **Level 2, Music City 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

### **Level 2, Music City Center**

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, Level 2.

## WELCOME CENTER

### **Exhibit Hall, Level 3, Music City Center**

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

## CHILD CARE SERVICES

### **Room 101AB, Level 1, Music City 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 – Wednesday

7:00 am – 6:30 pm

Thursday

7:00 am – 3:00 pm

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

## COMPANIONS' WELCOME CENTER

### **Room 101C, Level 1, Music City Center**

A Companions' Welcome Center is available to registered companions of the AAPM 60th 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

## POSTER DISPLAY AREAS

### **Exhibit Halls B,C,D**

#### **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 forum locations throughout the Exhibit Halls. 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
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#### **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 Forums)

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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Any displays remaining after the designated removal time will be available at our General Poster Pick-Up Counter located on Level 3 outside the Exhibit Hall C entrance 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 C Exhibit entrance. After exhibit hours, you may enter through the Hall D Poster Area entrance.

## LOST AND FOUND

Return found items to the AAPM Registration Desk. Items will be turned over to Music City Center Security at the end of each day. If you have lost an item, please check with Registration first; if Registration is closed, call MCC Security at 615-401-1300.

## FIRST AID OFFICE

**Level 3, across from the Escalator Lobby,  
Music City Center**

For minor medical issues, you may visit the First Aid Office personally. If you have a medical emergency, please call MCC Security at 615-401-1300. They will dispatch a medical services provider to your location.

## WELLNESS/NURSING MOTHERS ROOM

**Room 214, Level 2, Music City Center**

Individuals needing a private room for expressing, nursing, or personal medical reasons may use the Wellness Room. There is also a dedicated Nursing Mothers Room just across from the Fresh Pick Café on Level 3.

## REFLECTION/PRAYER ROOM

**Room 213, Level 2, Music City Center**

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

## LUGGAGE STORAGE SERVICE

**Exhibit Hall Concourse, Level 3, Music City Center**  
**\$3/bag**

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



# FOOD & BEVERAGE SERVICES

## FRESH PICK MARKET & CAFÉ

**Exhibit Hall Concourse, Hall D Entrance,  
Level 3, Music City Center**

6:00 am – 8:00 pm

Open daily, the market and cafe offers breakfast, lunch and dinner items along with grab-and-go snack and drink options and travel necessities. The cafe offerings include local beers, a full coffee bar featuring barista beverages, and an outdoor terrace with fire pits and additional seating for *al fresco* dining.

## COMPLIMENTARY FOOD SERVICE

### Lunch Vouchers

Each Scientific Attendee at the Annual Meeting will receive TWO lunch vouchers with their registration materials. **NEW** this year – 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 B-C (see Technical Exhibits Map). Vouchers are valid Monday and Tuesday only, between 12:15 pm – 1:45 pm.

### Voucher Options

- Monday, July 30  
**Vegetarian/GF:** Ancient Grains Salad  
**Regular:** Chicken Caesar Wrap
- Tuesday, July 31  
**Vegetarian/GF:** Chickpea Salad Wrap  
**Regular:** Turkey BLT Wrap

*Includes 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

### Level 2 Foyer and Karl Dean Ballroom Foyer, Level 4

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

### Level 2 Foyer and Karl Dean Ballroom Foyer, Level 4

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

## SUNDAY – THURSDAY

### EXHIBIT HALL CONCOURSE, LEVEL 3, MUSIC CITY 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.

- **Arizona Chapter:** C Watchman, E Clouser, J Shen
- **Connecticut Chapter:** H Lincoln, G Cardarelli, C Tien, A Nunn, J Kim, A Jones
- **Delaware Valley Chapter:** P Salanitro, Y Xiao, A Harrison, C Peng, J Dave
- **Florida Chapter:** K Hintenlang, O Zeidan, S Herchko, M Studenski, W Sensakovic, K Padgett
- **Great Lakes Chapter:** J Zhou, M Huberts, D Lack, S Gardner, C Lee
- **Mid-Atlantic Chapter:** H Chung, J Moore, M Jacobs, C Yu, L Padilla, K Dou
- **Missouri River Valley:** B Dirksen, M Zhang, S Yaddanapudi, M Hyun, N Mensah-Brown
- **New England Chapter:** F Fahey, G Sharp, L Berkowitz, D Gladstone, I Iftimia, S Amadon
- **Northern California:** B Fahimian, A Yu, O Morin, C McGuiness, Y Rong
- **Northwest Chapter:** L Long, T Wong, M Lambert, R Miller, T Blackwell
- **Ohio River Valley Chapter:** M Gossman, W Luo, P Sandwall, A Cetnar, M Barker
- **Penn-Ohio Chapter:** K Wilson, K Blodgett, A Godley, R Siochi, J Donaghue, V Colussi
- **RAMPS-NY:** Z Saleh, U Mahmood, N Tyagi, C Della-Biancia, K Hamacher, J Sillanpaa
- **Rocky Mountain Chapter:** R Marsh, A Markovic, E Kinsey, K McCullough, V Sarkar
- **Southeastern Chapter:** N Koch, B Sintay, J Gersh, M Wells, C Mart, T Hayes
- **Southwest Chapter:** A Jones, D Gress, C Baird, B Parker, L Page, S McCullogh
- **Upstate New York Chapter:** H Malhotra, L Kumaraswamy, M Shaikh, S Raina, V Patel

# 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

**Broadway Ballroom, Level 2, Omni**

**Monday, July 30 | 6:30 pm – 8:00 pm**

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

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

## NIGHT OUT: COUNTRY MUSIC HALL OF FAME

**222 Fifth Avenue South**

**Tuesday, July 31 | 6:30 pm – 10:00 pm**

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!

AAPM will take over the entire Country Music Hall of Fame® and Museum, featuring two expansive floors of gallery space. Follow the evolution of country music within the context of American history. For those who like to dance, Gary Jenkins & the Thundering Hearts will be playing upstairs. If you've ever yearned to try line dancing, two instructors will give lessons to those willing to try!

*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.*

**DON'T FORGET!** Trade in your Night Out ticket for a lanyard/event map required for admittance. Stop by the AAPM Registration Desk on Monday or Tuesday for your Ticket/Lanyard trade.

# AAPM 2018 JUL 29–AUG 2



**THANK YOU!** AAPM would like to express its sincere thanks to the following exhibitors for their contributions and support of the 2018 AAPM Annual Meeting & Exhibition:

- **LAP of America Laser Applications, LLC — Booth #907**  
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- **MIM Software, Inc. — Booth #920**  
Wide Emotion Media Wall
- **Mirada Medical — Booth #107**  
Wide Emotion Media Wall
- **Modus Medical Device — Booth #513**  
Wide Emotion Media Wall
- **MUCheck - Oncology Data Systems, Inc. — Booth #613**  
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- **PTW - New York — Booth #1020**  
Wide Emotion Media Wall
- **Qfix — Booth #801**  
Attendee Tote Bags
- **Radformation — Booths #300 & #649**  
Meeting Banners – Level 1 5th Ave.  
Entrance Window Clings
- **Radiological Imaging Technology, Inc. — Booth #1033**  
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- **RTI Electronics, Inc. — Booth #616**  
Student Night Out
- **ScandiDos, Inc. — Booth #1007**  
Student Night Out & Welcome Lounge
- **Standard Imaging — Booth #733**  
Meeting Banners – Demonbreun Street  
Escalators Clings
- **Sun Nuclear Corporation — Booths #433 & #541**  
Meeting Banners - Level 3 Grand Lobby  
Column Clings, Meeting Application – Splash  
Screen, & Wide Emotion Media Wall

# 2018 EXHIBITORS GUIDE

- 100, Wolters Kluwer
- 101, C-RAD
- 102, IOP Publishing
- 104, Wiley
- 106, Imaging Technology News
- 107, Mirada Medical
- 108, Medical Physics Publishing
- 120, Vision RT
- 201, Imalogix
- 203, Mission Search
- 207, QalibreMD
- 209, Civatech Oncology
- 221, CIVCO Radiotherapy
- 233, Provision Healthcare
- 237, Sensus Healthcare
- 239, Acceletronics/Rad Parts
- 300, 649, Radformation
- 301, Elekta
- 302, S.E. International, Inc.
- 306, IsoAid
- 313, Carl Zeiss Meditec, Inc.
- 315, Fluke Biomedical/ RaySafe/LANDAUER
- 321, RaySearch Laboratories AB
- 332, Preferred Healthcare Staffing
- 333, DoseOptics, LLC
- 334, Orfit Industries America
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- 412, Radcal Corporation
- 413, ViewRay, Inc.
- 416, K & S Associates, Inc.
- 432, Radiation Products Design, Inc.
- 433, Sun Nuclear Corporation
- 436, Mirion Technologies Dosimetry Services Division
- 438, SECTRA
- 501, Siemens Healthineers
- 513, ModusQA
- 533, LifeLine Software, Inc./RadCalc
- 541, Sun Nuclear – Patient Alignment
- 601, Varian Medical Systems
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- 613, MUCheck - Oncology Data Systems, Inc.
- 616, RTI, Inc.
- 617, NELCO
- 641, GE Healthcare
- 645, Bionix Radiation Therapy
- 649, Radformation
- 712, The Phantom Laboratory/Image Owl
- 713, University of Wisconsin - ADCL
- 717, LinaTech, LLC
- 721, IBA Dosimetry GmbH
- 733, Standard Imaging
- 740, CDR Systems, Inc.
- 741, American Board of Medical Physics

- 743, American Board of Radiology
- 744, Mercer
- 745, Conference of Radiation Control Program Directors
- 748, Taylor & Francis
- 749, Ludlum Medical Physics
- 801, Qfix
- 807, HUMEDIQ US, Inc.
- 812, CIRS
- 816, Canon Medical Systems USA, Inc.
- 833, UT MD Anderson Cancer Center
- 840, Heuris, Inc.
- 842, PACSHealth, LLC
- 844, International Org. for Medical Physics (IOMP)
- 848, RadiaDyne
- 849, IRT Systems GmbH
- 901, Mevion Medical Systems
- 907, LAP of America Laser Applications, LLC
- 920, MIM Software, Inc.
- 932, Theragenics Corporation
- 933, Brainlab
- 934, H3D, Inc.
- 936, QAELUM
- 1001, Accuray, Inc.
- 1007, ScandiDos
- 1020, PTW - New York
- 1033, Radiological Imaging Technology, Inc.
- 1101, 1107, 1201, 1213, 1221, Team Best
- 1113, Aktina Medical Corp
- 1121, Philips
- 1133, Dyn'R
- 1135, IsoRay
- 1137, DOSIsoft
- 1141, D3 Oncology Solutions
- 1145, American College of Radiology
- 1232, IMT
- 1233, RAD Technology Medical Systems
- 1235, BAYER
- 1236, Quantek Systems
- 1237, American Institute of Physics
- 1240, Augmenix, Inc.
- 1244, Precision X-Ray
- 1332, Logos Systems Intl
- 1334, Crux Quality Solutions
- 1336, Chiyoda Technol Corporation

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Concourse**

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 Nashville. Be sure and check out the NEW AAPM signature merchandise and find out how you can order yours!

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AAPM Career Services 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**

2018.MP30WG@aapm.org

[www.aapm.org/org/structure/default  
asp?committee\\_code=MP30WG](http://www.aapm.org/org/structure/default.asp?committee_code=MP30WG)**Level 3  
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Medical physicists have a unique calling and expertise to be scientific agents of precision and innovation in the development and practices of

medicine. MP3.0 aims to foster a culture within medical physics of seizing such opportunities, engaging proactively and meaningfully in patient care, and growing and building upon the skills of medical physicists. Come visit with us at our booth and explore how you can get involved.

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[www.aapm.org/education/edfundintro.asp](http://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.

**Acceletronics/Rad Parts**

**239**

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[abmpexam@gmail.com](mailto:abmpexam@gmail.com)

Established in 1987, the ABMP awards certification by peer examination to medical health physicists and MRI scientists. It also maintains the certification of many medical physicists in six specialties. The direction of the ABMP is set entirely by prominent medical physicists volunteering on behalf of our sponsors: the American Academy of Health Physics (AAHP), AAPM, and the International Society for Magnetic Resonance in Medicine (ISMRM). Contact us if you'd like to know more!

**American Board of Radiology****743****American College of Radiology****1145**

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Accreditation and Appropriateness Criteria are the standards for safe imaging and patient care. The ACR's 38,000 members include radiologists, radiation oncologists, nuclear medicine physicians and medical physicists.

**American Institute of Physics**

**1237**

Liz Caron

One Physics Ellipse

College Park, MD 20470

Phone: 301-209-3034

[www.aip.org](http://www.aip.org)

[lcaron@aip.org](mailto:lcaron@aip.org)

AAPM is a Member Society of the American Institute of Physics (AIP), a federation of ten societies, representing 120,000 physical scientists. AIP supports AAPM members with Physics Today magazine, eligibility to apply for Science Policy Fellowships, and other benefits like access to insurance (APSIT). AIP reaches a broader public through "greater good" activities in the areas of education, workforce and education statistics, policy and advocacy, science news, and history of science.

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 Toledo, OH 43612  
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 Fax: 800-455-5678  
[www.BionixRT.com](http://www.BionixRT.com)  
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 Chicago, IL 60611  
 Phone: 708-409-1343  
 Fax: 708-409-1619  
[www.brainlab.com](http://www.brainlab.com)  
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## **C-RAD**

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[www.zeiss.com/meditec](http://www.zeiss.com/meditec)  
[peter.mabanglo@zeiss.com](mailto:peter.mabanglo@zeiss.com)

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 Canada  
 Phone: 1-403- 483-0075  
 Fax: (403) 271-0201  
[www.cdrsyst.ca](http://www.cdrsyst.ca)  
[info@cdsyst.ca](mailto:info@cdsyst.ca)

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**Chiyoda Technol Corporation****1336**

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[www.c-technol.co.jp/eng](http://www.c-technol.co.jp/eng)  
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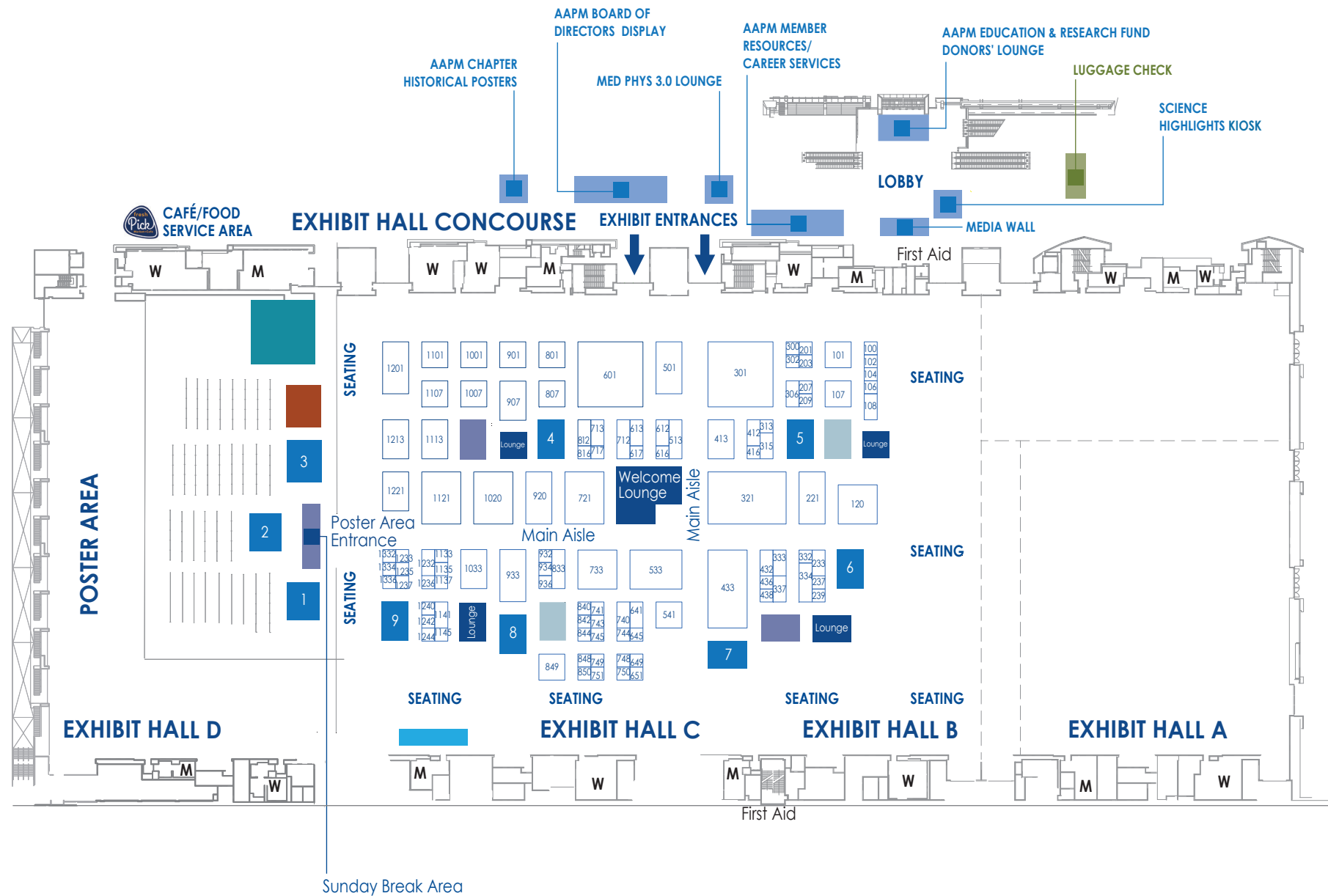
**DoseOptics, LLC** **333**

**DOSIsoft** **1137**

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- ePoster Forums 1–9
- Partners in Solutions — Session Room
- Expanding Horizons Poster Area
- Refreshment Break Lounge – Lunch Bundle Pick-Up Monday & Tuesday
- Refreshment Break Lounge
- Brede Exhibitor Service Desk

## TECHNICAL EXHIBITS

### Level 3, Music City Center

#### EXHIBITS: HALLS B & C

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 D | 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
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###### 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
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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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#### ASSOCIATION SERVICES

##### AAPM Member Resources | AAPM Career Services

###### Exhibit Hall B Entrance

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

##### AAPM Education & Research Fund Donors' Lounge

###### Escalator Lobby

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

#### Dyn'R

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dynr.com  
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LANDAUER joined Fluke Biomedical and RaySafe as a result of the Fortive acquisition in late 2017. By

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Presentations posted in the Virtual Library include:

- **Streaming Audio of the Speakers**
- **Slides of the Presentations**
- **2018 Spring Clinical Meeting**  
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- **59<sup>th</sup> AAPM Annual Meeting & Exhibition**  
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- Coming Soon:**
- **AAPM Workshop on Improving the Teaching and Mentoring of Medical Physics**  
Nashville, TN • June 26–27, 2018
  - **2018 AAPM Summer School — Image Guidance in Radiation Therapy: Techniques, Accuracy, and Limitations**  
Nashville, TN • June 26–28, 2018
  - **60<sup>th</sup> AAPM Annual Meeting & Exhibition**  
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■ Therapy Education

■ Therapy Scientific

■ Joint Imaging/Therapy Scienific

■ Professional

■ Practical Medical Physics

■ Certificate Course

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

 President's Sessions of Note

### REFRESHMENT BREAKS

- 9:30–10:00 am

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

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

### CLOSE OF MEETING

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

## PROGRAM AT A GLANCE | THURSDAY, AUGUST 2

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



PROGRAM AT A GLANCE | WEDNESDAY, AUGUST 1

■ Imaging Education

■ Imaging Scientific

■ Therapy Education

■ Therapy Scientific

■ Joint Imaging/Therapy Scienific

■ Professional

■ Practical Medical Physics

■ Certificate Course

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


 *President's Sessions of Note*

EXHIBIT HALL ACTIVITIES

EXHIBIT HALL HOURS

9:00 am–2:00 pm

BREAKS

9:30–10:15 am    Coffee Break

9:30–11:00 am    Visit the Vendors

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

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


POSTER VIEWING

9:30–11:00 am    GENERAL ePOSTER DISCUSSION

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

PARTNERS in SOLUTIONS

10:15 am–12:00 pm

 **THERAPY Intelligent Automation for Treatment Planning Workflows**

Moderator: D Schofield

*PinS Room | Hall D*

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

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IDENTIFY is an automated patient identification, positioning and motion management solution with an unparalleled user interface. IDENTIFY increases treatment quality and patient safety, mitigates risk and delivers a simple unified workflow between CT SIM and treatment suites. IDENTIFY continuously monitors, through SGRT, patient movement throughout the entire treatment session. IDENTIFY is a great, affordable, solution to perform mark-less set-up, DIBH, and other techniques, including SRS.



PROGRAM AT A GLANCE | MONDAY, JULY 30

■ Imaging Education

■ Imaging Scientific

■ Therapy Education

■ Therapy Scientific

■ Joint Imaging/Therapy Scienific

■ Professional

■ Practical Medical Physics

■ Certificate Course

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

President's Sessions of Note

EXHIBIT HALL ACTIVITIES

EXHIBIT HALL HOURS

9:00 am–5:00 pm

BREAKS

9:30–10:15 am

12:15–1:45 pm

3:45–4:30 pm

Coffee Break

Lunch Break + Visit the Technical Exhibits

Refreshment Break

PARTNERS in SOLUTIONS

1:30–3:45 pm

Therapy

Intelligent Automation for Treatment Planning Workflows

PinS Room | Hall D

Moderator: N Brown

POSTER VIEWING

9:00–10:00 am

1:15–1:45 pm

3:45–4:15 pm

4:30–5:30 pm

GENERAL ePOSTER DISCUSSION

Lounge Area & ePoster Theaters

Imaging | Joint Imaging-Therapy | Therapy

ePOSTER CAMPUS

ePoster Theaters

Imaging:

Clinical Applications

Provost: E Angel

Joint Imaging-Therapy:

Applications of MRI in Therapy

Provost: J Balter

Therapy:

Monte Carlo and Dose Planning

Provost: X Jia

4:30–6:00 pm

Interview Workshop

PinS Room | Hall D

AAPM AWARDS CEREMONY & RECEPTION

6:30–8:30 pm

8:00–9:00 pm

Ceremony Reception

Omni Hotel | Broadway Ballroom, Level 2

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

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MEDICAL PHYSICS 3.0 is an initiative to define and practice sustainable excellence in medical physics. As medical physicists, we are both scientists and healthcare professionals. MP3.0 asks the questions of whether we are fully, proactively, and meaningfully engaging in healthcare, and if we are not, how can we do so?

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Thursday, August 2nd at 7:30 AM – 9:30 AM | Room 209

- Overview of MP3.0 Approaches for Precision Medicine
- Participant Workshop to Develop Smart Initiatives
  - Smart Tools
  - Smart Practice
  - Smart Practitioners

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Visit the MP3.0 Booth!

Find us on Level 3 across from the Exhibit Hall & Member Services. Join us for discussion, feedback, and Nashville's famous Goo Goo Clusters!

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- Professional

■ Practical Medical Physics

■ Certificate Course

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

President's Sessions of Note

EXHIBIT HALL ACTIVITIES

EXHIBIT HALL HOURS

12:30–5:00 pm

BREAKS

12:30 pm and 3:00–3:30 pm

Refreshment Breaks

POSTER VIEWING

3:00–4:00 pm

BEST IN PHYSICS

ePoster Theaters

Presenting Authors available 3:30–4:00

3:00–5:00 pm

GENERAL ePOSTER DISCUSSION

Exhibit Hall

Imaging | Joint Imaging-Therapy | Therapy

3:00–6:00 pm

GENERAL POSTER DISCUSSION

Exhibit Hall

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

4:00–5:00 pm

ePOSTER CAMPUS

ePoster Theaters

Imaging: Ultrasound

Provost: Z Long



Joint Imaging-Therapy:

Novel Applications

Provost: A Sawant

Therapy:

Treatment Planning and Dose Delivery

Provost: N Dogan

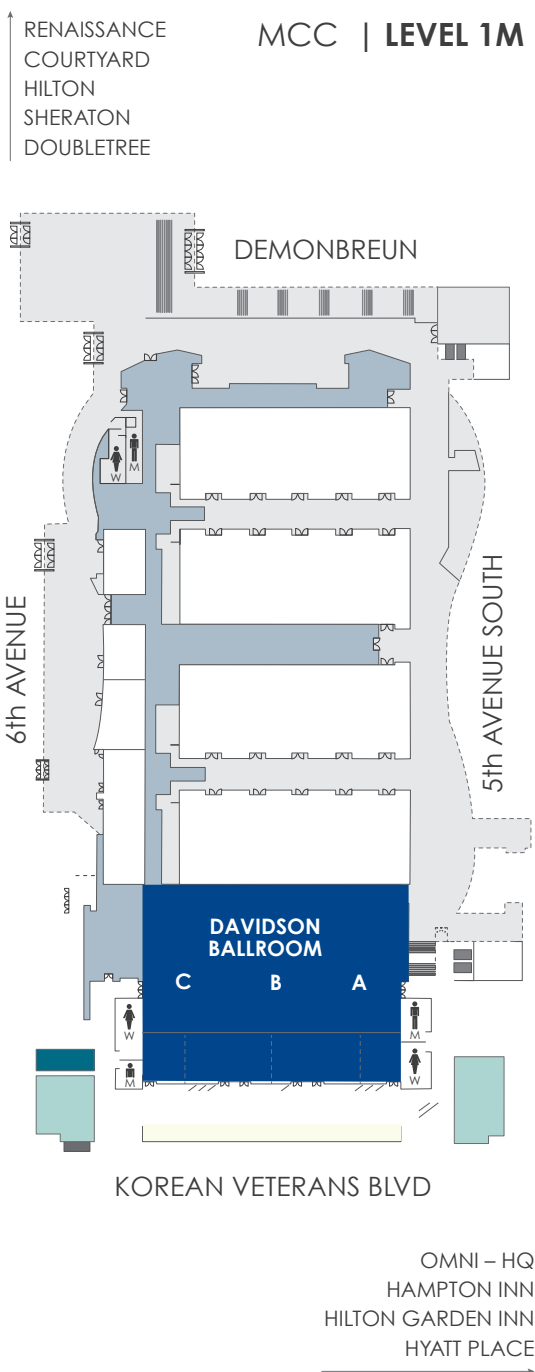
PROGRAM AT A GLANCE | SUNDAY, JULY 29

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

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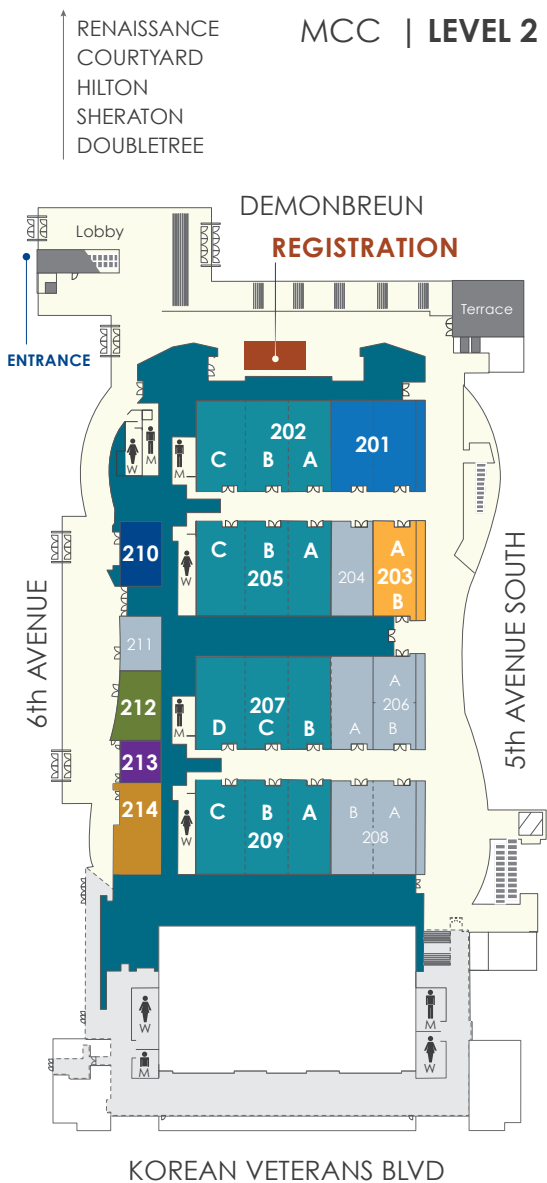


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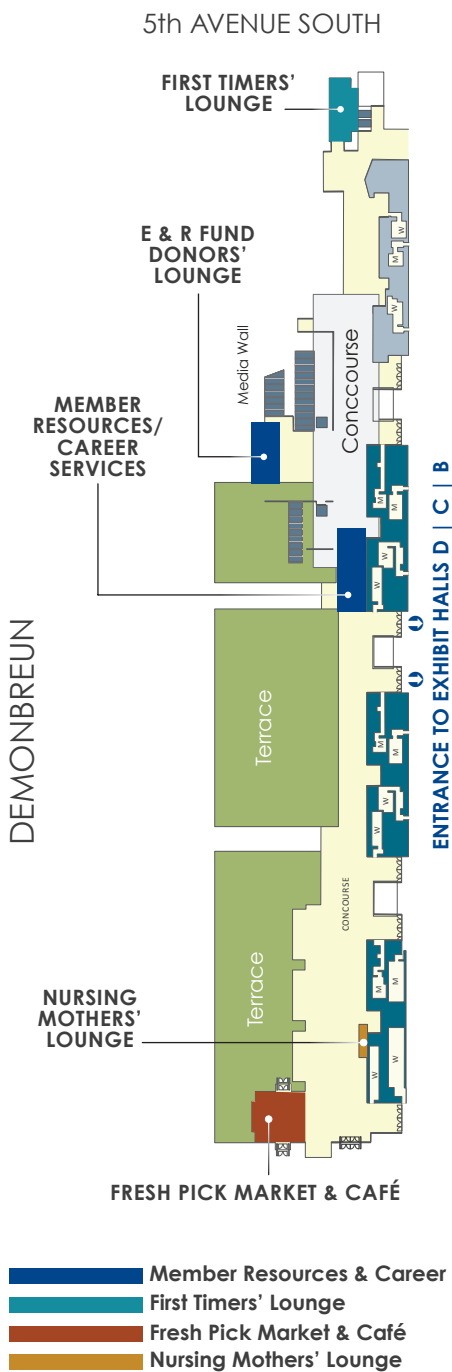




- 202, 205, 207, 209:  
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- 203: Speaker Ready
- 210: Show Management
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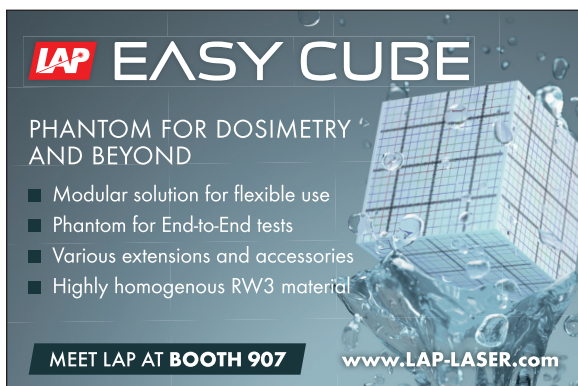
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