

AAPM 2016

JUL 31—AUG 4



58TH ANNUAL MEETING & EXHIBITION | WASHINGTON, DC

POCKET PROGRAM



COMMUNICATING OUR VALUE.
IMPROVING OUR FUTURE.

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“COMMUNICATING OUR VALUE. IMPROVING OUR FUTURE.”

The theme for 2016 and the AAPM Annual Meeting is “Communicating our Value. Improving our Future.” I have observed over recent years that the importance of the Medical Physicist to both imaging and treatment processes has lessened in many institutions. We are losing/have lost our place as key players on the diagnosis and treatment teams, often relegated to the role of technicians in the eyes of our colleagues and administrators. This is true in academic/research arenas as well, where grant opportunities for improvements in technology and process, areas in which we are major players, have been on the decline. We need to reverse these trends in order to survive and thrive.

AAPM can help medical physicists achieve better recognition by providing tools and guidance in promoting our value to our institutions and colleagues. Medical Physics 3.0, the Medical Physics Leadership Academy, and the 2016 Summer School on Leadership are all venues that have this goal (among others). Our Annual Meeting provides opportunities for sharing/improving your scientific knowledge, clinical skills, and professional leadership. Involvement in AAPM committees and task groups enable you to help shape our future, clinically, scientifically, and professionally.

These opportunities, however, are only of value if you take advantage of them and work to incorporate them into your research, clinical practice, or interactions with your colleagues. I echo John Boone's words from 2015: “I invite you — indeed I challenge you — to take advantage of the outstanding opportunities offered at this summer's meeting to reinvigorate your professional, [clinical, and scientific] excellence.”

In reviewing the sessions of this year's AAPM Annual Meeting, it is apparent that, whatever your area of expertise, there are opportunities to enhance your abilities and provide you with new/improved skills in practicing medical physics. I have noted several scientific, educational, and professional sessions that I feel are of significance, highlighted by the hexagon. Take advantage of these or any of the sessions available; enhance your value and your future will improve.



Bruce Curran, 2016 AAPM President

Sessions of Note from the President:

Sunday:

- Education Council Symposium
- Professional Council Symposium
- Preclinical Science

Monday:

- Young Investigator Symposium
- Presidential Symposium
- Medical Physics Leadership Academy

Tuesday:

- Grand Challenges in Medical Imaging and Radiomics
- Optimizing the Treatment Planning Process

Wednesday:

- Connecting Radiation Physics with Computational Biology
- Learning from Medical Errors: A Partnership for Progress
- Fostering a Successful Career in Research
- Carson/Zagzebski Distinguished Lectureship: Image Guided Ultrasound Therapy

Thursday:

- The Pursuit of Radiation Oncology Performance Excellence
- Challenges and Opportunities for Nuclear Medicine Theranostics

Day of Week – (SU–TH) – Time Block (A–H) – Room Assignment – Talk Number

| TIME BLOCK | SESSION ROOMS | | | | | | | | | | |
|---|----------------|-------|-------|-------|-------|-------|--------|-------|-------|--------|--|
| | 204 | 201 | BRC | BRB | BRA | 202 | 207A | 206 | 209 | 207B | |
| Block A 7:30 – 8:25 | A-204 | A-201 | A-BRC | A-BRB | A-BRA | A-202 | A-207A | A-206 | A-209 | A-207B | |
| | B-204 | B-201 | B-BRC | B-BRB | B-BRA | B-202 | B-207A | B-206 | B-209 | B-207B | |
| Break 9:30 – 10:15 | | | | | | | | | | | |
| Block C 9:30 – 11:00 | C-204 | C-201 | C-BRC | C-BRB | C-BRA | C-202 | C-207A | C-206 | C-209 | C-207B | |
| | D-204 | D-201 | D-BRC | D-BRB | D-BRA | D-202 | D-207A | D-206 | D-209 | D-207B | |
| Lunch and Visit the Technical Exhibits 12:15 – 1:45 | | | | | | | | | | | |
| Block E 1:45 – 3:15 | E-204 | E-201 | E-BRC | E-BRB | E-BRA | E-202 | E-207A | E-206 | E-209 | E-207B | |
| | ... and so on. | | | | | | | | | | |

HOW THE MEETING IS ORGANIZED

The numbering scheme encodes the day, time block, room assignment and talk number into the abstract presentation code. The organization for each day (Monday – Thursday) is shown in the table below. Times and rooms vary on Sunday and Thursday.

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)**
Ballrooms A, B, C, Rooms 201, 202, 204, 207B, 209
- **Imaging (Education & Scientific)**
Rooms 206, 207A, 207B, 209
- **Joint Imaging-Therapy**
Ballrooms A, B, C, Rooms 201, 202, 207B
- **Professional**
Partners in Solutions Room, Rooms 201, 204, 206
- **Practical Medical Physics**
Ballrooms A, B, Room 209
- **Radiomics**
Rooms 207A, 207B

CONTINUING EDUCATION

Medical Physicists

The AAPM 58th 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 and Best in Physics poster displays. To obtain credit, attendees MUST complete an online evaluation survey.

The AAPM 58th 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 Walter E. Washington Convention Center (AAPM session rooms, exhibit hall and function space).

The Online Evaluation System will remain open through **11:59 pm ET, September 5**. Evaluations **MUST** be completed by that time for credits to be earned. MPCEC, MDCB, RLI and SAM credits will be released on **September 12, 2016**.



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 the **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 58th 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 58th 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 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 sessions 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 Participation Device (PD) 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 a Participation Device (PD) pre-meeting or onsite.

- Stop at the Participation Device (PD) registration counter so your PD can be activated.
- Upon entering a designated SAM session, your attendance will automatically be verified via your PD. You must attend the entire SAM session to be eligible to obtain SAM credit.

Do You Image Wisely®?

EVERY year?



Your pledge to Image Wisely is now an annual renewal event that will expire **Dec. 31, 2016**, and every Dec. 31 thereafter.

Earn CE Credits With Free Radiation Safety Cases

To image wisely every day and provide the best quality and safest adult patient care, make the annual commitment and keep informed by regularly visiting imagewisely.org, which offers imaging professionals, referring providers and patients easy access to the latest information and resources.

By taking the pledge, you are helping to ensure adults receive only necessary and safe medical imaging procedures.

Ways to show you are imaging wisely:

- Take the pledge every year
- Sign up for RSS safety news feeds
- Keep your accreditations up-to-date
- Participate in a dose index registry
- Share free online materials with your patients
- Visit imagegently.org for pediatric information

imagewisely.org |  

imagewisely@acr.org

1.800.227.5463



- 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, Monday, September 5, 2016**. 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/2016AM/PRHandouts.asp

Handouts will not be distributed in hard copy on site.

SPEAKER READY ROOM

Room 203, Level 2, Convention Center

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

Thursday 7:00 am – 2:30 pm



CAREER SERVICES **on-site here in DC!**



Are you hiring or looking to be hired?

Stop by the AAPM Career Services Center,
Hall D – E Bridge, 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

Magnolia, Mezzanine, Marriott Marquis

| | |
|--------------------|----------------------|
| 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

East Overlook, Level 2, 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 SERVICES CENTER

Hall D – E Bridge, Level 2, Convention Center

(202) 249-4029

| | |
|--------------------|-------------------|
| 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 CENTER

Hall D – E Bridge, 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

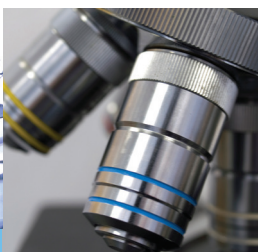
Hall D – E Bridge, Level 2, Convention Center

| | |
|--------------------|-------------------|
| 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



focus on our future

Visit the AAPM E&R Fund Donors' Lounge Hall D – E Bridge, 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 20 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

GENERAL MEETING INFORMATION

REGISTRATION

Salon ABC, Street Level, Convention Center

(202) 249-4022

Registration will be open during the following times:

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

Thursday 7:00 am – 3:00 pm

EXHIBIT HOURS: EXHIBIT HALLS D – E

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

Password is required: ourfuture16.

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: Level 3

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 on Level 3.

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 205, Level 2, Convention Center

A Companions' Welcome Center is available to registered companions of the AAPM 58th Annual Meeting & Exhibition.

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 AREA

Exhibit Hall E • ePoster Theater

In addition to the general poster displays, AAPM now has state of the art electronic posters displays.

Poster Set Up

| | |
|----------|----------------------|
| Saturday | 8:00 am – 6:00 pm |
| Sunday | 7:00 am – 12:00 Noon |

Poster Discussion Sessions (authors in attendance)

| | |
|--------------------------|-------------------|
| Sunday | |
| Best in Physics ePosters | 3:30 pm – 4:00 pm |
| General Poster | 3:00 pm – 5:00 pm |
| Monday – Tuesday | |
| ePosters | 4:30 pm – 6:00 pm |

Poster Viewing

| | |
|------------------|--------------------|
| Sunday | 12:30 pm – 5:00 pm |
| Monday – Tuesday | 9:00 am – 6:00 pm |
| Wednesday | 9:00 am – 12:15 pm |

Poster Tear Down

| | |
|-----------|--------------------|
| Wednesday | 12:15 pm – 2:00 pm |
|-----------|--------------------|

During exhibit hours, you may enter the Poster Area through Hall D main exhibit entrance. After exhibit hours, you may enter through the Hall E Poster Area entrance.

LOST AND FOUND

Found items should be turned in at the AAPM registration desk. Items will be turned over to Convention Center Security at the end of each day. If you have lost an item, please check with registration first; if registration is closed, call Convention Center Command Center at (202) 249-3333.

FIRST AID OFFICE

Hall D Entrance, Level 2, Convention Center

For minor medical issues you may visit the First Aid Office personally. If you have a medical emergency, please call the Command Center at (202) 249-3333. They will dispatch a medical services provider to your location.

WELLNESS ROOM

Room 305, Level 3, Convention Center

Individuals who need a private room for personal medical reasons are welcome to use the Wellness Room.

REFLECTION/PRAYER ROOM

Room 304, Level 3, Convention Center

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

LUGGAGE STORAGE SERVICE

Salon F, Level 1, Convention Center • \$2/checked bag

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

FOOD & BEVERAGE SERVICES

EXHIBIT HALL CONCESSIONS

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

| | |
|------------------|--------------------|
| 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 D – E (see Technical Exhibits Map). Vouchers are valid Monday and Tuesday only, between 12:15 pm – 1:45 pm.

Voucher Options

- *Monday, August 1*
Choice of:
Chicken Caesar Salad OR
Kale, Quinoa & Cranberry Salad (V, GF)
Chips, Water
- *Tuesday, August 2*
Choice of:
Turkey and Cheese Wrap OR
Garbanzo Spinach Salad (V, GF)
Whole fruit, 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 3 Foyer

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

Level 3 Foyer

| | |
|------------------------|-----------------------|
| Thursday Boxed Lunches | 12:00 Noon – 12:50 pm |
|------------------------|-----------------------|

AAPM CHAPTERS: HISTORICAL POSTERS

SUNDAY – THURSDAY

HALL D-E BRIDGE, 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. (* denotes Chapter President)

- **Arizona Chapter:** C. Watchman*, E. Gurgoze, S. Sapareto, T. Mian
- **Delaware Valley Chapter:** A. Maidment*, H. Perera, C. Peng, E. Garver, F. Mourtada, Y. Xiao
- **Florida Chapter:** K. Hintenlang*, T. Willoughby, R. Staton, P. Patton, E. Bossart, R. Pooley
- **Mid-Atlantic Chapter:** L. Myers, B. Hasson*, T. McNutt, M. Jacobs, H. Chung, J. Moore, A. Goode, C. Yu
- **Missouri River Valley Chapter:** D. Wang*, M. Zhang, O. Wooten, L. Fox, E. Nixon
- **New England Chapter:** C. Bradford*, G. Sharp, R. Berbeco, S. Amadon, J. Turcotte, I. Iftimia
- **New Jersey Chapter:** M. Zhang*, T. Chen, J. Napoli, N. Yue
- **New York Chapter:** L. Rothenberg, J. Jeong, Z. Saleh, J. Sillanpaa, J. St. Germain, C. Marshall, D. Fontenla, Y. Pipman, G. Mageras
- **North Central Chapter:** C. Abing, S. Tripathi*, T. Murphy, W. Culberson, P. Yadav
- **Northwest Chapter:** L. Sweeney, C. Holloway
- **Ohio River Valley Chapter:** N. Sperling*, W. Luo, A. Cetnar, E. Parsai, D. Pearson
- **Penn-Ohio Chapter:** K. Wilson, V. Colussi, M. Ohm, D. Jordan*, K. Blodget, A. Siochi
- **Rocky Mountain Chapter:** A. Markovic*
- **San Francisco Bay Chapter:** O. Morin*, J. Perks, C. Chuang, S. Benedict
- **Southwest Chapter:** R. Kudchadker
- **Rocky Mountain Chapter:** A. Markovic*
- **Upstate New York Chapter:** Daryl Nazareth*, PhD, Vikas Patel, PhD, Brendan Loughran, PhD, Iris Wang, PhD

AAPM 2016 JUL 31–AUG 4



THANK YOU!

AAPM would like to express its sincere thanks to the following exhibitors for their contributions and support of the 2016 AAPM Annual Meeting & Exhibition:

Integrated Medical Technologies, Inc. (Booth #4087)
Wide Emotion — Media Wall

LAP of America Laser Application, LLC (Booth #5011)
Wide Emotion — Media Wall

Mobius Medical Systems, LP (Booth #4029)
Meeting App — Splash Screen

MuCheck - Oncology Data Systems (Booth #4009)
Wide Emotion — Media Wall

NELCO (Booth #4013)
Mobile Device Charging Station – Welcome Lounge

Orfit Industries America (Booth #3063)
Wide Emotion — Media Wall

PTW - New York Corporation (Booth #3029)
Internet and Meeting Evaluation Centers
Mobile Device Charging Stations
Wide Emotion — Media Wall

Radiological Imaging Technology, Inc. (Booth #4001)
Wide Emotion — Media Wall

RaySearch Laboratories AB (Booth #4015)
Meeting App — Enhanced Listing

Sun Nuclear Corporation (Booth #4051)
Annual 5K Run/Walk in Honor of Dr. Charles Lescrenier
Wide Emotion — Media Wall



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- Toshiba America Medical Systems, 2045
- Unfors RaySafe/Fluke Biomedical, 5008
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ASTRO is the premier radiation oncology society in the world, with more than 10,000 members. As the leading organization in radiation oncology,

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PROGRAM AT A GLANCE | SUNDAY, JULY 31

| PROFESSIONAL | THERAPY EDUCATION | THERAPY SCIENTIFIC | JOINT IMAGING – THERAPY SCIENTIFIC | IMAGING SCIENTIFIC | IMAGING EDUCATION | PRACTICAL MEDICAL PHYSICS | RADIOMICS | TECHNICAL EXHIBIT HALL | | | |
|--|---|--|--|--|--|--|---|--|--|--|---|
| A 9:30–11:00 |  Education Council Symposium Revitalizing Your Medical Physics Classroom: Some Examples and Thoughts From the Trenches Moderator: V Montmayor V Montemayor, R Howell, S Naqvi, J Burmeister Ballroom A | | | | AAPM Medical Physics Student Meeting The Many Paths of Medical Physics Moderators: A Roth, N Viscariello A Roth, D Shepard, N Childress, K Ruchala, R Ochs, R Howell Ballroom C | | | | | | |
| B 11:00–12:30 |  PROFESSIONAL COUNCIL SYMPOSIUM The Medical Physicist Value Proposition for Tomorrow and Today. (If a Medical Physicist Fell In the Woods, Would Anyone Hear It?) Moderator: D Pavord G Sherouse, G White, S Burri, D McNary, D Pavord, J Clements, P Halvorsen, J Hazle, V Wilcut Ballroom A | | | | | | | | | | |
| 12:30 Exhibit Hall Opens Refreshment Break in Exhibit Hall | | | | | | | | | | | |
| C 1:00-1:55 | Room 204  SNAP Oral Preclinical Science J Wong, S Krishnan | SNAP Oral Next Generation Dosimetry L Beaulieu, A Molineu | SNAP Oral Dose Calculation J Robar, G Yan | SNAP Oral Contouring and Auto-Planning S Zhou, L Schubert | SNAP Oral Image Registration and Segmentation D Mackin, X Gu | SNAP Oral Imaging for Radiotherapy I J Roeske, P Galavis | SNAP Oral Proton Therapy T Borfeld, C Cheng | SNAP Oral CT A Dhabaan, L Zhu | SNAP Oral Mammography/Fluoroscopy R Marsh, S Rudin | SNAP Oral Image Processing/Segmentation/Registration/CAD J Wang, W Lu | HAZMAT Training for the Medical Physicist - Part I Moderator: R Tarver R Parker |
| D 2:05–3:00 | SNAP Oral Modeling and Outcomes F Yin, P Mavroidis | SNAP Oral Performance Assessment K Hendrickson, J Johnson | SNAP Oral Particle Therapy Dosimetry and QA S James, M Bues | SNAP Oral Knowledge-Based Planning B Wu, J Siebers | SNAP Oral Monitoring Patient Motion C Shang, G Ding | SNAP Oral Imaging in Radiotherapy II J Unkelbach, R Kudchadker | SNAP Oral MRI in Radiotherapy B Fallone, D Yan | SNAP Oral Cone-beam CT S Leng, X Jia | SNAP Oral Mammography/Fluoroscopy - Radiation Dose A Badal, H Chan | SNAP Oral Radiomics H Aerts, R Li | |
| Exhibit Hall (Refreshment Breaks, Posters and Technical Exhibits) 3:00 – 3:30 Refreshment Break in Exhibit Hall | | | | | | | | | | | |
| E 3:00–4:00 | BEST IN PHYSICS (3:00-4:00 pm) ePoster Theaters and Discussion in the Exhibit Hall Presenting Authors available 3:30 - 4:00 | | | | | | | | | | |
| F 3:00–6:00 | GENERAL POSTER DISCUSSION Education, Professional, Imaging, Joint Imaging-Therapy, Therapy, Radiomics, and Society of Physics Students (SPS) Undergraduate Research Presenting Authors available 3:00 - 6:00 | | | | | | | | | | |
| G 4:00–6:00 |  GENERAL ePOSTER DISCUSSION THERAPY TOPICS: 4:00-4:30 Dose Calculation and Treatment Planning 4:30-5:00 Physical Measurements 5:00-5:30 Preclinical Science 5:30-6:00 Radiation Therapy Quality Control ePoster Theater in Exhibit Hall E Presenting Authors available | SNAP Oral Brachytherapy and Radionuclide Therapy W Song, S Richardson | SNAP Oral External Beam Treatment Planning L Santanam, B Fahimian | SNAP Oral Dosimetry and QA Tools B Han, M Carbone | SNAP Oral Tumor Tracking B Bednarz, M Hunt |  GENERAL ePOSTER DISCUSSION JOINT IMAGING-THERAPY TOPICS: 4:00-4:30 Target Tracking 4:30-5:00 MR-guided Radiotherapy 5:00-5:30 IGRT 5:30-6:00 Monitoring Inter- and Intra-Fraction Motion ePoster Theater in Exhibit Hall E Presenting Authors available | SNAP Oral CT - QA/QC, Calibration and Imaging Protocols B Li, J Rong |  GENERAL ePOSTER DISCUSSION IMAGING TOPICS: 4:00-4:30 MRI 4:30-5:00 CT 5:00-5:30 X-Ray Imaging 5:30-6:00 Multimodal Imaging ePoster Theater in Exhibit Hall E Presenting Authors available | HAZMAT Training for the Medical Physicist - Part II Moderator: R Tarver R Parker Partners in Solution Room in Exhibit Hall E | | |

PROGRAM AT A GLANCE | MONDAY, AUGUST 1

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|---|--|---|---|---|--|--|--|---|---|--|---|
| Room 204 | Room 201 | Ballroom C | Ballroom B | Ballroom A | Room 202 | Room 207A | Room 206 | Room 209 | Room 207B | Exhibit Hall E | |
| A 7:30–8:25 | Interoperability in Radiation Oncology: IHE-RO Committee Update Moderator: S Hadley, J Seibert, C Pauer, W Bosch | A Cliff's Notes Version of Proton Therapy Moderator: J Kruse, J Kruse | TG167: Clinical Recommendations for Innovative Brachytherapy Devices and Applicators Moderator: R Nath, R Nath, M Rivard | TG191: Clinical Use of Luminescent Dosimeters Moderator: S Kry, S Kry | John R. Cameron Young Investigator Symposium Moderators: M Martel, M Giger, Ballroom A | | Nuclear Medicine Physics and Testing Moderator: S White, T Turkington, J Halama | Financial Perspectives on Scientific Publishing Moderator: S Armato, S Armato, D Bourland, M Svatos | Segmentation & Feature Extraction Techniques H Veeraraghavan | | |
| B 8:30–9:30 | Motion Management in Current Stereotactic Body Radiation Therapy (SBRT) Practice Moderator: C Shang, C Shang, S Flampouri, O Green | Prostate HDR Treatment Planning – Considering Different Imaging Modalities Moderator: J Prisciandaro, J Prisciandaro, Z Chang, J Zoberi, F Mourtada | Three Dimensional Dosimetry Moderator: J Schreiner, J Schreiner, G Ibbott, S Ceberg, T Juang | | | | Certificate Extension Process for DBT and the Medical Physicist's Role Moderator: I Reiser, K Chakrabarti | Harmonization & Robustness in Radiomics L Court | | | |
| Visit the Vendors 9:30 – 10:15 Coffee Break Exhibit Hall | | | | | | | | | | | |
| C 10:15–12:15 | President's Symposium Inspiring Leadership Moderator: B Curran B Curran, R Arenson, D Beyer, B Greenspan, K Kennedy, Ballroom B | | | | | | | | | | |
| Visit the Vendors 12:15 – 1:45 Lunch Break Exhibit Hall | | | | | | | | | | | |
| D 1:45–2:40 | International Symposium: Patient Dose Reduction in Diagnostic Radiology Moderator: E Lief, Y Pipman, M Rehani, V Tsapaki, D Schick, J Kofler | SAM: Professional Symposium Medical Physics Leadership Academy Moderator: J Clements, J Johnson, R Ritenour Panel: J Clements, J Johnson, R Ritenour, R Miller | SAM: (1:45 - 2:45) In Memoriam of Jan van de Geijn: Knowledge-based Planning Moderator: P Xia, B Fraass, P Xia, J Wu, J Donaghue | SAM: (1:45 - 2:45) SBRT Workflow Overview Moderator: L Xing, F Yin, Y Yong, J Roper | Innovation in Medical Physics Education Moderator: V Montemayor | SAM: Image-Guided Interventions: Advances in Intraoperative Imaging, Guidance, and an Emerging Role for Medical Physics in Surgery Moderator: J Siewerdsen, K Farahani, J Siewerdsen, T Kapur, R Shekhar | CT - Image Reconstruction F Noo, X Tang | Joint WMIS-AAPM Symposium: Metabolic Imaging of Cancer Moderators: J Hazle, Z Bhujwala, G Pratz, S Cherry, J Bankson | SAM: DBT Physics Basic to Advanced Moderator: A Maidment, A Maidment, J Mainprize, W Zhao, I Sechopoulos | Radiomics & Data Mining Methods and Robustness E Moros, L Court | PARTNERS IN SOLUTIONS (1:45-2:45) Therapy: MR Simulation Moderator: R Stern Partners in Solution Room in Exhibit Hall E |
| E 2:45–3:45 | SAM: Online Adaptive Radiotherapy - Considerations for Practical Clinical Implementation Moderator: S Mufic, R Kashani, J Lamb, A Li | INTERACTIVE / SAM: PANEL DISCUSSION: SBRT/SRS Case Studies - Lung Moderator: S Benedict Panel: S Benedict, J Lerner, B Salter | | | | | | | | | |
| Visit the Vendors 3:45 – 4:30 Refreshment Break Exhibit Hall | | | | | | | | | | | |
| F 4:30–5:15 | Preparing for the ABR Diagnostic and Nuclear Medical Physics Exams Moderator: N Bevins, S McKenney, T Szczykutowicz, J Zambelli, R MacDougall | PANEL DISCUSSION: Preparing for Parts 2 and 3 of the ABR Therapy Medical Physics Exam Moderators: L Padilla, J Evans Panel: J Evans, L Padilla, M Studenski, T McNutt | SAM: Joint AAPM-ESTRO Symposium: Advances in Experimental Medical Physics Moderator: R Berbeco, L Sancey, J Robar, D Westerly, K Parodi | INTERACTIVE SESSION AAPM Presidential Debate! Moderators: K Brock, R Stern Debaters: J Bayouth, J Hazle, M Herman, J Seibert | Motion Management A Sawant, C Williams | Next Generation Quality Assurance P Greer, J Lewis | SAM: Radiation and Cancer: Reality, Extrapolations, Myths & Practice Moderator: M Rehani, M Rehani, D Brenner, D Frush | SAM: Practical Statistics for Medical Physicists Moderator: W Sensakovic, M Altman, W Sensakovic, Z Labby, E Hipp | SAM: Recent Advances in Virtual Tools for Validation of 3D/4D Breast Imaging Systems (TG234) Moderators: P Bakic, K Myers, K Myers, C Graff, P Bakic, M Das, A Avnanski | State-of-the-Art in Radiomics in Radiology and Radiation Oncology Moderators: M Giger, J Deasy, H Aerts, H Li, P Tiwari, W Lu | ePoster Campus IMAGING 4:30-5:00 Mammography/Radiography/Fluoroscopy 5:00-5:30 CT 5:30-6:00 MRI Provost: A Karellas JOINT IMAGING-THERAPY 4:30-5:00 Range Estimation/Verification in Proton Therapy 5:00-5:30 MR-guided Radiotherapy 5:30-6:00 Patient Positioning Provost: B Winey THERAPY 4:30-5:00 Next Generation QA 5:00-5:30 Optimization and Inverse Planning 5:30-6:00 Proton Therapy Provost: J Farr |
| G 5:15–6:00 | The American Board of Radiology Maintenance of Certification Process Moderator: G Frey, M Herman, G Ibbott | Knowledge-Based Planning K Sheng, Q Wu | | | | | | | | | |



PROGRAM AT A GLANCE | TUESDAY, AUGUST 2

| PROFESSIONAL | THERAPY EDUCATION | THERAPY SCIENTIFIC | JOINT IMAGING – THERAPY SCIENTIFIC | IMAGING SCIENTIFIC | IMAGING EDUCATION | PRACTICAL MEDICAL PHYSICS | RADIOMICS | TECHNICAL EXHIBIT HALL | | | |
|--|--|--|--|---|--|---|--|--|---|--|---|
| | Room 204 | Room 201 | Ballroom C | Ballroom B | Ballroom A | Room 202 | Room 207A | Room 206 | Room 209 | Room 207B | Exhibit Hall E |
| A 7:30–8:25 | CDRH/FDA Regulatory Processes and Device Science Activities Moderator: A Nosratfieh, J Delfino, S Gonzales, A Badano, R Ochs | SAM: (7:30 - 8:30) Image Guidance Technologies and Management Strategies Moderator: J Evans, K Wijesooriya, J Chang | Innovations in Dose Calculation H Bouchard, C Ma | SAM: (7:30 - 8:30) PANEL DISCUSSION: SBRT/SRS Case Studies - Brain and Spine Moderator: D Schlesinger Panel: D Schlesinger, L Ma, B Winey | MR-Guided Radiotherapy J Balter, C Glide-Hurst | Image Registration and Segmentation S Bowen, J Cai | SAM: CT Systems Course Moderator: B Li, B Li, J Hsieh, F Dong | SAM: (7:30 - 8:30) Professional Liability Insurance – What You Need to Know Moderator: D Jordan, G Fuller, A Orfali | Model Observer Design and its Validation for Task-based Evaluation of Digital Breast Tomosynthesis Moderator: S Park, J Lo, S Park, H Gifford, H Bosmans | Imaging Genomics Associations and Biological Correlates of Radiomics Y Zhu | SAM: Challenges in Radiomics and Big Data K Drukker |
| B 8:30–9:30 | | SAM: TG180: Imaging Dose During RT Moderator: G Ding, G Ding, P Alaei, R Flynn | | SAM: PANEL DISCUSSION: SBRT/SRS Case Studies - Liver Moderators: A Brade, J Evans Panel: A Brade, T Craig, S Hadley | | | | SAM: Ethics Symposium: Do the Right Thing Moderator: J Limmer, J Limmer, G Sherouse | | | |
| Visit the Vendors 9:30 – 10:15 Coffee Break Exhibit Hall | | | | | | | | | | | |
| C 9:30–11:00 | VISIT THE VENDORS • Technical Exhibits Area | | | | | NEW | EXPANDING HORIZONS • ePoster Theater in the Exhibit Hall Presenting Authors will be available | | | | |
| D 11:00–12:15 | The Gadget: Making of the Atomic Bomb Moderator: K Strubler, K Strubler, R Miller | Proffered Session R Tarver | SAM: The EPID Strikes Back Moderator: A Sawant, J Rottman, P Greer, L Antonuk | SAM: Dual Energy CT in Radiation Therapy Moderator: Z Labby, N Pelc, J Schoepf, C Coolens | SAM: Treatment Planning System Commissioning and QA Moderator: M Sharpe, M Sharpe, S Mutic, J Smilowitz | SAM: Rest In Peace- ITV Moderator: M Van Herk, M Van Herk, P Keall, D Low | Quantitative Assessment of CT Systems with Iterative Image Reconstruction Algorithms Moderator: G Chen, K Li, S Leng, E Samei, K Li | Body Tomosynthesis Moderator: M Flynn, M Bath, M Flynn, J Sabol, K Jones | Mammography/ Radiography/ Fluoroscopy - Radiation Dose M Goodsitt, D Bednarek | Prognostic and Response to Therapy Predictive Models K Drukker, J Yang | PARTNERS IN SOLUTIONS Imaging: Digital Breast Tomosynthesis I Moderator: T Wilson, PinS Room, Exhibit Hall E |
| Visit the Vendors 12:15 – 1:45 Lunch Break Exhibit Hall | | | | | | | | | | | |
| E 1:45–3:15 | NEW SAM • Exhibit Hall Guided Tours Tour Leaders: X Jing, I Das Imaging - Dosimeters for QC • Therapy - Microdosimeters Location: Hall E Concourse | | | | | | | | | | |
| F 1:45–2:45 | SAM: Compliance with the AAPM CT Clinical Practice and Joint Commission Guidelines Moderator: T Szczykutowicz, T Szczykutowicz, M Mahesh, K Kanal, D Cody, A Browne | Performance Assessment Safely and QA S Mutic, G Kim | SAM: Radiation and Immunotherapy: How to Ignite Long Term Anti-Cancer Response Moderator: M Oldham, E Repasky, S Formentii, N Coleman, M Oldham | SCIENCE COUNCIL SESSION: Imaging for Particle Therapy J Moran, G Sharp | SAM: Optimizing the Treatment Planning Process Moderator: W Feng, W Feng, J Chang, A Kapur | SAM: Advances and Innovations in Image Guided Brachytherapy Moderator: R Cormack, O Craciunescu, A Damato, A Cunha | Grand Challenges in Medical Imaging and Radiomics Moderators: C McCullough, S Armato, M Giger, S Armato, N Pelc | SAM: Imaging Informatics Moderator: P Nagy, M Flynn, W Sensakovic, P Nagy | X-Ray Imaging - Radiography/ Fluoroscopy C Willis, C Ionita | Federal Funding Opportunities and Grantsmanship Moderator: K Farahani, B Whelan, S Krosnick, D Narayanan, K Farahani, W Olbricht | PARTNERS IN SOLUTIONS Imaging: Digital Breast Tomosynthesis II Moderator: C Sammet, PinS Room, Exhibit Hall E |
| G 2:45–3:45 | | | | | | | | | | | PARTNERS IN SOLUTIONS Imaging: Digital Breast Tomosynthesis III Moderator: S Sammet, PinS Room, Exhibit Hall E |
| Visit the Vendors 3:45 – 4:30 Refreshment Break Exhibit Hall | | | | | | | | | | | |
| H 4:30–6:00 | SAM: Work of ICRP, NCRP and Others and How They Impact on Medical Physicists Moderators: M Rehani, L Dauer, M Rehani, L Dauer, D Miller | New Member Symposium Moderators: J Keener, A Johnson, J Palta, R Miller, D Pavord, B curran, J Dobbis, B Fraass, J Keener | Novel Devices and Applications R Howell, P Maxim | SAM: Radiation Countermeasures Research and Development Moderator: D Bourland, D Bourland, L Taliadro, T Hu, P Prasanna, J Huff | MR-LINAC Design T Waldron, J Dempsey | SAM: CT Ventilation Imaging: The New Clinical Reality of Functional Avoidance and Response Assessment in Lung Cancer Radiation Therapy Moderator: P Keall, T Yamamoto, J Vinogradskiy, J Bayouth, J Kipritidis | CT - Calibration, QA/QC, Protocol Management S Molloy, D Zhang | Nuclear Medicine, PET, MRI, US - QA/QC S Kappadath, T Pan | SAM: Planning and Delivering HDR APBI Treatments Moderator: S Pella, A Kyriacou, M Chilukuri, S Pella | Session in Memory of Laurence Clarke: Moving Radiomics Forward: Funding, Regulatory Issues, and Clinical Translation Moderator: K Myers, J Boone, P Jacobs, K Myers, L Schwartz | ePoster Campus IMAGING 4-5:00 Monte Carlo Simulations 5-5:30 Virtual Tools, Simulations and Phantoms 5-6:00 Image Processing/ Segmentation/ Registration/CAD Provost: I Sechopoulos JOINT IMAGING-THERAPY 4-5:00 Image Registration Performance 5-5:30 Contouring in Radiotherapy 5-6:00 Adaptive Radiation Therapy Provost: R Ten Haken THERAPY 4-5:00 New Approaches to Radiotherapy 5-5:30 Preclinical Science 5:30-6:00 Nanoparticles in Radiation Therapy Provost: W Ngwa |
| AAPM Night Out 6:30 – 10:00 @ Newseum 555 Pennsylvania Avenue, NW | | | | | | | | | | | |

PROGRAM AT A GLANCE | WEDNESDAY, AUGUST 3

| PROFESSIONAL | | THERAPY EDUCATION | THERAPY SCIENTIFIC | JOINT IMAGING – THERAPY SCIENTIFIC | IMAGING SCIENTIFIC | IMAGING EDUCATION | PRACTICAL MEDICAL PHYSICS | RADIOMICS | TECHNICAL EXHIBIT HALL | | |
|--|---|--|--|--|---|--|---|--|---|---|---|
| Room 204 | | Room 201 | Ballroom C | Ballroom B | Ballroom A | Room 202 | Room 207A | Room 206 | Room 209 | Room 207B | Exhibit Hall E |
| A 7:30–8:25 | <p>SAM: Diversity and Inclusion in Medical Physics Moderator: S Avery, B Curran, S Avery, W Ngwa, P Hammer, D Chew, T Ngoma, R Laguardia, E Higginbotham</p> | <p>SAM: (7:30 - 8:30) Session in Memory of Donald Herbert: Anne and Donald Herbert Distinguished Lectureship on Modern Statistical Modeling Moderator: J Deasy, C Marshall, A Niemierko</p> | <p>SAM: (7:30 - 8:30) Certificate of Completion Course The Quality Gap Moderator: J Palta, J Palta, S Evans, D Followill</p> | <p>SAM: Session in Memory of Robert J. Shalek: High Resolution Dosimetry from 2D to 3D to Real-time 3D Moderator: H Li, H Li, M Oldham, S Beddar, B Pogue</p> | <p>Image-Guided Interventions Y Vinogradskiy, J Lian</p> | <p>Functional Imaging for Radiotherapy J Bayouth, T Yamamoto</p> | <p>Cone-beam CT W Zbijewski, K Yang</p> | <p>Diagnostic Ultrasound QA/ QC Hands-on Workshop Moderator: Z Lu, J Zagzebski, J Walter</p> | <p>Optimization and Inverse Planning L Xing, P Manser</p> | <p>Modeling and Outcomes I Chetty, D Carlson</p> | |
| | | <p>SAM: Statistical Failings That Keep Us All In the Dark Moderator: D Schlesinger, D Schlesinger, J Sloan</p> | <p>SAM: Certificate of Completion Course Concepts in Risk-based Assessment Moderator: B Fraass, F Rath, D Fraass, E Samei</p> | | | | | | | | |
| B 8:30–9:30 | | | | | | | | | | | |
| Visit the Vendors 9:30 – 10:15 Coffee Break Exhibit Hall | | | | | | | | | | | |
| C 10:15–11:45 | <p>NEW SAM • Exhibit Hall Guided Tours Tour Leaders: X Jing, I Das Imaging - Dosimeters for QC • Therapy - Microdosimeters Location: Hall E Concourse</p> | | | | | | | | | | |
| D 10:15–11:15 | <p>Session in Memory of Franca Kuchnir: Excellence in Medical Physics Residency Education Moderator: K Hendrickson, D Fontenla, W Parker, S Dieterich</p> | <p>Brachytherapy Radionuclide Therapy R Cormack, O Craciunescu</p> | <p>SAM: Certificate of Completion Course Learning the New Approaches of TG-100 and Beyond Moderator: S Huq, S Huq, J Palta, P Dunscombe, B Thomadsen, E Yorke</p> | <p>SAM: Basics of Proton Therapy Moderators: B Arjomandy, C Hua, B Arjomandy, M Pankuch, C Hua, K Teo</p> | <p>In-Room IGRT Devices and Systems L Ren, M Pankuch</p> | <p>SAM: Connecting Radiation Physics with Computational Biology Moderator: J Schuemann, J Schuemann, R Stewart, S McMahon</p> | <p>Advances in Image-guided Neurointerventions - Clinical Pull and Technology Push Moderator: G Chen, C Strother, G Chen, M Gounis, S Rudin</p> | <p>SAM: MRI Physics Moderator: Y Shu, K Gorny, A Kocharian, C Lin, R Pooley</p> | <p>SAM: Practical Implementation of Deep Inspiration Breath Hold Techniques for Breast Radiation Therapy Moderator: R Howell, R Howell, D Comsa, M Sharpe, S Hadley, X Tang, K Gifford</p> | <p>Breast X-Ray Imaging W Zhao, B Liu</p> | <p>(10:15 - 12:00 PM) Interview Workshop</p> |
| E 11:15–12:15 | <p>Where to Send My Manuscript Moderator: E Klein, E Klein, J Williamson, A Karellas</p> | | <p>SAM: Motion Management for Pencil Beam Scanning Proton Therapy Moderator: L Lin, R Zhu, L Lin, H Li</p> | | | | | | | | |
| Visit the Vendors 12:15 – 1:45 Lunch Break Posters close at 12:15 pm Exhibits close at 2:00 pm | | | | | | | | | | | |
| F 1:45–2:40 | <p>SAM: Fostering a Successful Career in Research Moderator: C Peeler, R Mohan, R Mohan, M Giger, J Dempsey</p> | <p>SAM: High impact Technologies for Low Resource Environments Moderator: L Court, N Ramanujam, L Court, I Feain, J Palta</p> | <p>SAM: Certificate of Completion Course Learning from Medical Errors: A Partnership for Progress Moderators: M Herman, J Moran, L Schweitzer</p> | <p>SAM: The Challenges of Predicting RBE Effects in Particle Therapy and Opportunities for Improving Cancer Therapy Moderator: D Carlson, H Paganetti, D Grosshans, D Carlson, K Held</p> | <p>Preclinical Science R Berbeco, M Bazalova-Carter</p> | <p>Imaging Assessment of Treatment Response R Jeraj, M Cao</p> | <p>SAM: Advances in Dedicated Breast CT Moderator: S Vedantham, S Vedantham, A O'Connell, J Boone, W Kalender, A Karellas</p> | <p>MRI - Quantitative Imaging Y Cao, N Tyagi</p> | <p>SAM: (1:45 - 2:45) Practical Medical Physics A Practical Guide to Radiation Safety Surveys Moderator: C Dillon, C Dillon, M Martin</p> | <p>CT - Spectral/Dual-Energy Imaging D Cody, K Taguchi</p> | |
| G 2:45–3:45 | <p>Post-graduate Training of the Next Generation of Academic Medical Physicists Moderator: J Hazle, J Hazle, J Deasy</p> | | <p>SAM: Certificate of Completion Course Experiences with TG-100 in Clinical Use Moderator: G Kim, G Kim, J Mayadev, S Parker</p> | | | | | | | | |
| 3:45 – 4:30 Refreshment Break Level 3 Foyer | | | | | | | | | | | |
| H 4:30–6:00 | <p>History Committee Symposium Moderator: M Gossman, D Allard, G Good, M Mueller</p> | <p>Opportunities for Physicists to Support Low and Mid-Income Countries Moderator: J Pollard, J Pollard, W Ngwa, Y Pipman, P Sprawls</p> | <p>Certificate of Completion Course Risk Assessment and Patient Safety: New Results E Ford, K Moore</p> | <p>SAM: Big Data in Radiation Oncology Moderator: S Benedict, S Benedict, L Xing, T McNutt</p> | <p>Biophysical Modeling R Mohan, J Schuemann</p> | <p>SAM: Session in Memory of Jean Pouliot: Next-Generation Deformable Image Registration Moderator: G Hugo, N Kirby, K Brock, G Hugo, G Christensen</p> | <p>Molecular Imaging G Clarke, G Pratz</p> | <p>Advances in Preclinical Imaging Moderator: G Chen, L Wang, B Tsui, S Cho</p> | <p>SAM: Carson/Zagzebski Distinguished Lectureship: Image Guided Ultrasound Therapy Moderator: T Wilson, K Hynynen</p> | <p>SAM: MRgRT Moderators: T Stanescu, O Green, T Stanescu, M Cao, C Shang, O Green</p> | |
| AAPM Annual Business Meeting Town Hall Meeting with AAPM Board of Director Members 6:15 – 7:30 Ballroom B | | | | | | | | | | | |

PROGRAM AT A GLANCE | THURSDAY, AUGUST 4

| PROFESSIONAL | | THERAPY EDUCATION | THERAPY SCIENTIFIC | JOINT IMAGING – THERAPY SCIENTIFIC | IMAGING SCIENTIFIC | IMAGING EDUCATION | PRACTICAL MEDICAL PHYSICS | RADIOMICS | TECHNICAL EXHIBIT HALL | | | |
|--|---|--|--|--|--|---|---|--|--|---|-----------|--|
| | | Room 204 | Room 201 | Ballroom C | Ballroom B | Ballroom A | Room 202 | Room 207A | Room 206 | Room 209 | Room 207B | Exhibit Hall E |
| A 7:30–8:25 | SAM: Key Dosimetry Data – Impact of New ICRU Recommendations Moderator: R Tosh, S Seltzer, M McEwen | Dosimetry and QA Methods L DeWard, J Seuntjens | SAM: (7:30 - 8:30) New Task Groups for External Beam QA: An Overview Moderator: S Dieterich, S Dieterich, S Goetsch, M Miffen | SAM: Research Opportunities with Digital Linear Accelerators Moderator: K Sheng, D Hristov, Q Wu, K Sheng, V Yu, S Nill | MRgRT O Green, B Keller | Technologies for Tumor Tracking U Oelfke, C Hua | CT - Dose M McNitt-Gray, N Bevins |  SAM: Challenges and Opportunities for Nuclear Medicine Theranostics Moderator: O Mawlawi, J Humm, A Delpassand | Emerging Modalities K Stantz, A Kapadia | SAM: Shear-wave Imaging and a QIBA US Biomarker Update Moderator: P Carson, S Chen, B Garra | | |
| | SAM: Implanted Markers for Radiation Therapy and TG199 Update Moderator: Z Wang, Q Cu, S Park, Z Wang | | SAM: How to Identify and Resolve Potential Clinical Errors Before They Impact Patients Treatment: Lessons Learned Moderator: I Das, I Das, S Suttief, D Followill | | | | | | | | | SAM: Pediatric Image Quality Optimization Moderator: C Sammet, C Dodge, J Deng |
| 9:30 – 10:00 Coffee Break Level 3 Foyer | | | | | | | | | | | | |
| C 10:00–10:55 | Medical Physics Workshop: An Update on the Journal's Improvement Activities and Guidance on Writing and Reviewing Papers Moderator: J Williamson, J Williamson, S Das, M Goodsitt | Next Generation Dosimetry E Parsai, H Li | SAM: Emerging Technologies in SRS/SBRT Delivery Moderators: L Ren, L Wang, L Ma, L Wang, L Ren | SAM: Open Source Hardware in Medical Physics and its Potential to Accelerate Innovation Moderator: F Theriault-Proulx, F Theriault-Proulx, S Prajapati, A Cunha | MRgRT Dosimetry G Ibbott, B Raaymakers | Use of Images in Radiotherapy Treatment Planning M Aristophanous, G Sharp | Monitoring Intra- and Inter-Fraction Motion L Cervino, G Cazoulat | Image Processing / Segmentation / Registration / CAD A Fenster, H Gao | Proton Planning and Delivery S Psoroulas, H Li | CT - Novel Systems & Image Quality J Stayman, L Yu | | |
| |  SAM: The Pursuit of Radiation Oncology Performance Excellence Moderator: E Sternick, E Sternick | | SAM: Educational Point Counter/Point: Has Photon RT Hit the Limits? Moderator: B Aydogan, B Aydogan, S Hahn, H Paganetti, C Yu | | | | | | | | | SAM: An Introduction to Research and Clinical Development Using Treatment Planning System APIs Moderator: R Popple, R Popple, R Cardan, J Eley, J Moore |
| 12:00–12:50 Boxed Lunch Level 3 | | | | | | | | | | | | |
| E 1:00–1:55 | SAM: AAPM-AMPR (Russia)-SEFM (Spain) Joint Course on Challenges and Advantages of Small Field Radiation Treatment Techniques Moderators: J Cygler, C Borras, J Seuntjens, J Puxeu Vaque, T Krylova, E Ford | SAM: (1:00 - 2:00) Teaching Radiology Residents: What, How, and Expectation Moderator: J Zhang, W Sensakovic, J Zhang, A Key | (12:15 - 2:50 PM) TG100 Workshop Moderator: P Dunscombe, P Dunscombe, S Huq, B Thomadsen, E Yorke | Advanced Delivery Techniques R Wiersma, J Rottmann | 4D Imaging - CT and MRI S Kim, Z Labby | | | Preclinical and Small-animal Imaging Systems G Kagadis, Y Seo | | SAM: (1:00 - 2:00) Radiation Dose Monitoring and Protocol Management Moderator: M Palmer, B Liu, R MacDougall, D Zhang | | |
| | Writing Good Multiple Choice Questions Moderator: C Bloch, C Block, G Ibbott | | | | | | | | | | | MRI for Radiation Therapy Moderator: J Cai, W Miler, G Li, J Cai |
| F 2:00–2:50 | | | | | | | | | | | | |
| CLOSE OF MEETING See you next year in Denver, CO July 30 – August 3, 2017 | | | | | | | | | | | | |

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Calvin Waller
360 Foothill Rd.
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Phone: 908-231-0960

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Diagnostic Ultrasound QA/QC Hands-On Workshop

Wednesday, August 3

Room 206

7:30 am – 9:30 am

Certificate of Completion

During the Annual Meeting AAPM offers a day-long Certificate Course on a topic of current interest. The topic this year will be patient safety and quality improvement. With the release of AAPM Task Group 100, this topic becomes increasingly important and relevant to the practicing medical physicist and trainee. Upon fulfilling the requirements of the course, participants will receive a formal certificate of completion as recognition of their mastery of the material.

The course runs all day Wednesday and consists of 6 sessions, including educational and scientific sessions, and proffered papers. These sessions which provide basic education as well as a survey of emerging and advanced concepts. Participants must enroll in advance. In addition to the Wednesday course there is an optional workshop component on Thursday which provides 3-hours of hands-on experience with risk analysis methods.

A highlight of this course is the special guest keynote speaker, Leilani Schweitzer, sharing her story of medical error and the lessons that have emerged from it.

AAPM member attendees may register for the Certificate Program on-site at Registration.

We hope to see you there!

Eric Ford, PhD and Jatinder Palta, PhD
Course Organizers

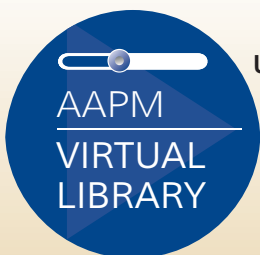
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- **Slides of the Presentations**
- **2016 Spring Clinical Meeting**
Salt Lake City, UT • March 5-8, 2016
- **2016 CRCPD**
Lexington, KY • May 15-16, 2016
- **57th AAPM Annual Meeting & Exhibition**
Anaheim, CA • July 16-16, 2014

Coming Soon:

- **2016 AAPM Summer School-Medical Physics Leadership Academy**
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- **58th AAPM Annual Meeting & Exhibition**
Washington, DC

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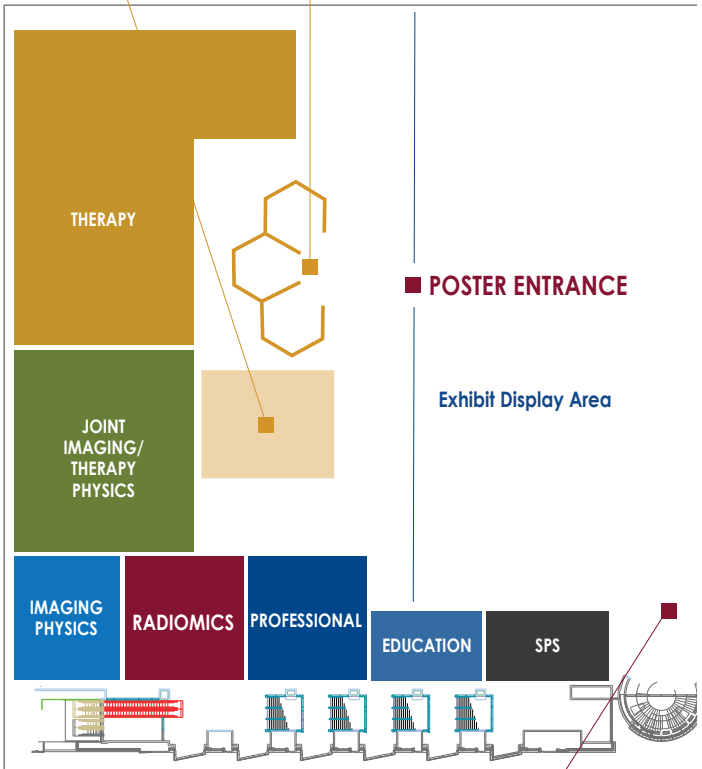
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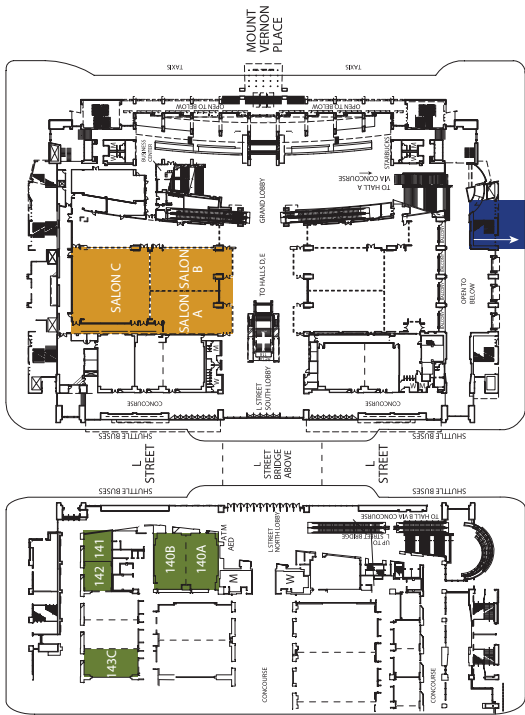
Salons ABC

MEETING ROOMS

140, 141, 142, 143C

MARRIOTT MARQUIS

AAPM Headquarters Hotel
Magnolia Room | Mezanine Level



WALTER E. WASHINGTON CONVENTION CENTER | LEVEL 2

SPEAKER READY ROOM

203

COMPANIONS' WELCOME CENTER

205

SHOW MANAGEMENT OFFICE

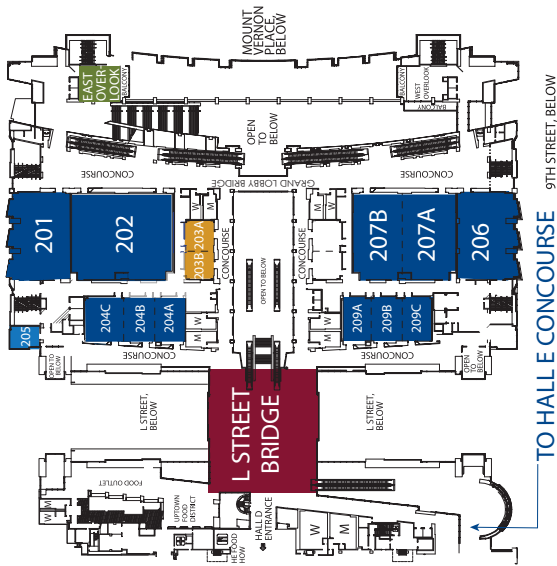
East Overlook

SESSION ROOMS

201, 202, 204, 206, 207A, 207B, 209

L STREET BRIDGE

E & R Fund Donors' Lounge
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MODERATOR BRIEFING
301

SESSION ROOMS
Ballrooms A, B, C

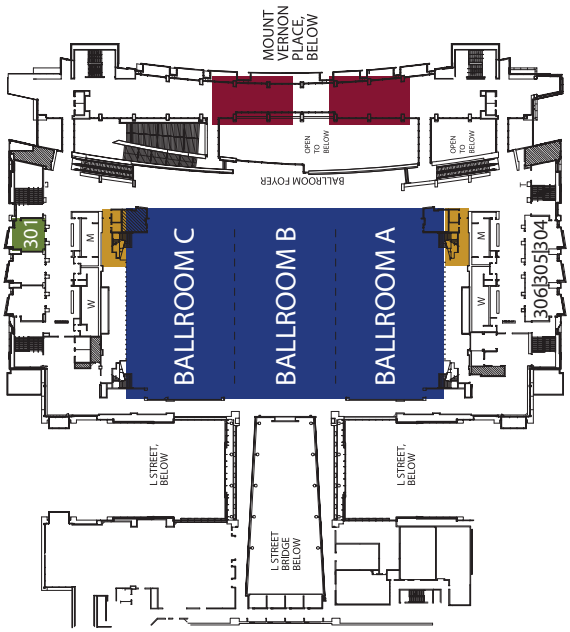
RESIDENCY FAIR/CAREER EXPO

Foyer

Reflection Room, 304

Wellness Room, 305

Career Services Interviews, 306



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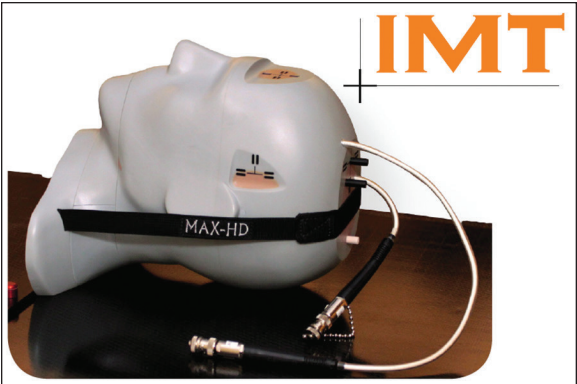
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The graphic features a blue background with a white grid pattern. At the top left is the Mobius3D logo, which consists of a stylized 'M' made of vertical bars of increasing height, followed by the text 'Mobius3D' and 'UPGRADE YOUR PATIENT SAFETY' below it. A vertical line of four white circles connects the text '3D PATIENT PLAN QA', '3D IMRT/VMAT PRE-TREATMENT QA', '3D IN VIVO DAILY TREATMENT QA', and 'ONLINE PATIENT POSITIONING QA'. At the bottom left is the Mobius Medical Systems logo, a stylized 'M' with a ribbon, followed by 'MOBIUS MEDICAL SYSTEMS'. At the bottom right is the text 'BOOTH #4029'.

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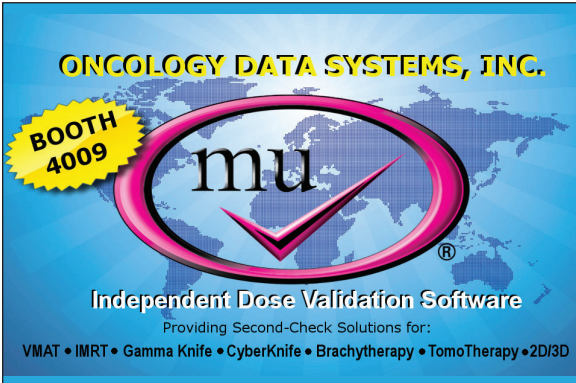
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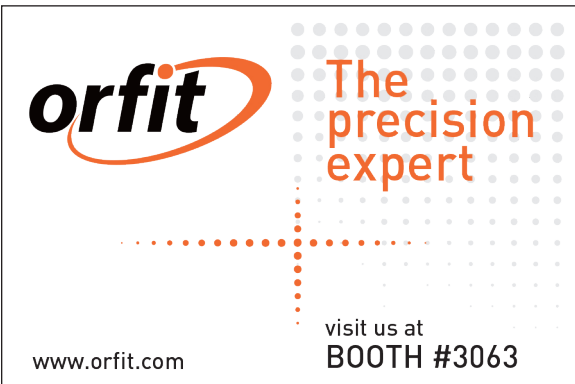
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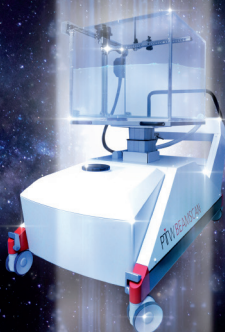
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SMILC B7550 ROOM_5
Technique: SMILC
Machine: ROOM_5
No. beams: 7
No. segm.: 50

RTI Electronics, Inc.

4000

Bob Mahl
33 Jacksonville Rd., Bldg. 1
Towaco, NJ 07082
Phone: 800-222-7537 / Ext: 606
Fax: 973-439-0248
www.rtigroup.com | bob.mahl@rtigroup.com

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Madison, 53711
SWEDEN

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3101

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2 Enterprise Dr., Ste. 507
Shelton, CT 06484
Phone: 800-307-4425 / Ext: 268
Fax: 203-925-0906
www.sectra.com | info.na@sectra.com

Sectra DoseTrack is a complete web-based solution for radiation dose monitoring that gathers and reports dose data from all necessary sources

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Sensus Healthcare

4104

Josephine Roger
851 Broken Sound Pkwy., NW #215
Boca Raton, FL 33487

Phone: 561-922-5808 / Ext: 100

Fax: 561-948-2071

www.sensushealthcare.com

jroger@sensushealthcare.com

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5088

Bob Gravett
157 Ashley Crescent
London, N6E 3P9
CANADA

Phone: 519-690-0874

Fax: 519-690-0875

www.simutec.com | bob.gravett@sympatico.ca

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Siemens**2063**

Emilie Theophile-Catherine
40 Liberty Blvd.
Malvern, PA 19355

Phone: 610-448-3413

emilie.theophile-catherine@siemens.com

Siemens Healthcare develops innovations that support better patient outcomes with greater efficiencies, giving providers the confidence they need to meet the clinical, operational and financial challenges of a changing healthcare landscape. As a global leader in medical imaging, laboratory diagnostics, and healthcare information technology, we have a keen understanding of the entire patient care continuum—from prevention and early detection to diagnosis and treatment.

Standard Imaging, Inc.**1036**

Mark Spatafore
3120 Deming Way
Middleton, WI 53562-1461

Phone: 608-824-7813

Fax: 608-831-2202

www.standardimaging.com

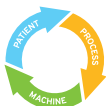
mspatafore@standardimaging.com

In the fight against cancer, Standard Imaging delivers precision QA products that help lead to better patient outcomes. Standard Imaging is advancing radiation QA with Adaptivo™, our revolutionary, new software for automatic patient dosimetry. We offer complete solutions for linear accelerator QA, including DoseView 3D for commissioning, SuperMax Electrometer and Exradin ion chambers for absolute dosimetry, PIPspro Software for TG 142, and the Lucy 3D QA Phantom for stereotactic treatments.

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Sun Nuclear Corporation

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3275 Suntree Blvd.
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Phone: 321-259-6862

Fax: 321-259-7979

www.sunnuclear.com

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Sun Nuclear is the market leader in QA and dosimetry solutions for radiation oncology. We design and manufacture medical devices and software for treatment delivery systems and patient prescription verification. Our solutions perform measurement, data collection, testing, performance assessment, and analytics for more than 4,000 clinics worldwide. Gammex, a leader in laser alignment solutions and QA tools for the diagnostic radiology industry, is a wholly-owned subsidiary of Sun Nuclear.

Theragenics Corporation

1051

Lisa Russel
5203 Bristol Industrial Way
Buford, GA 30518

Phone: 770-831-5137

Fax: 770-831-5294

www.theragenics.com. | russell@theragenics.com

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Phone: 440-542-3650 / Ext: 0

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University of Wisconsin – ADCL **2050**

John Haugen-Wente
Room B1002, WIMR, 1111 Highland Ave.
Madison, WI 53705

Phone: 608-263-4355

uwmrc.wisc.edu | haugenwente@wisc.edu

The University of Wisconsin Accredited Dosimetry Calibration Lab (UWADCL), in the Department of Medical Physics, is a non-profit education and research-oriented service lab. Calibration services are available for almost any type of radiation measurement instrumentation in the medical or health physics community. UWADCL services are accredited by the AAPM and the American Association for Laboratory Accreditation (A2LA) to the ISO/IEC 17025:2005 Standard.

UT MD Anderson Cancer Center**2037**

Elizabeth Bryan
1515 Holcombe Blvd., Unit 607
Houston, TX 77030

Phone: 713-745-8989

Fax: 713-794-1364

www.irochouston.org | esbryan@mdanderson.org

The Section of Outreach Physics within The UT MD Anderson Cancer Center are non-profit, customer-focused quality assurance centers that provide a wide range of services including dose monitoring for radiation therapy beams, special techniques and blood irradiators in addition to AAPM accredited, NIST traceable ADCL calibrations for radiation therapy equipment and brachytherapy sources and anthropomorphic phantom end to end testing for treatment planning and dose delivery verification.

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Bob Capuzelo
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Phone: 650-424-5927

Fax: 650-842-5149

www.varian.com | bob.capuzelo@varian.com

Varian Medical Systems, Inc., of Palo Alto, California, is the world's leading manufacturer of medical devices and software for treating cancer and other medical conditions with radiotherapy, radiosurgery, and brachytherapy. The company supplies informatics software for managing comprehensive cancer clinics, radiotherapy centers and medical oncology practices.

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Rhonda Journey
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Oakwood Village, OH 44146

Phone: 650-787-3955

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viewray.com | sales@viewray.com

ViewRay®, Inc. (NASDAQ:VRAY), designs, manufactures, and markets the MRIdian® radiation therapy system. MRIdian integrates MRI technology, radiation delivery and proprietary software to locate, target and track the position and shape of

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Vision RT

1063

Tim Nicholson
Dove House, Arcadia Ave.
London, N3 2JU
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Phone: +1-866-778-2379

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www.visionrt.com

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Wolters Kluwer

6073

3052 S Buchanan St. C-1
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Xcision Medical Systems, LLC

4091

Steve Rubenstein
9176 Red Branch Rd., Ste. O
Columbia, MD 21045

Phone: 443-681-7463

Fax: 443-445-9201

www.xcision.com | steve.rubenstein@xcision.com

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XECAN**3072**

Steven Levy
Ste. 400, Bldg. 2, 275 Grove St.
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www.xecan.com | slevy@xecan.com

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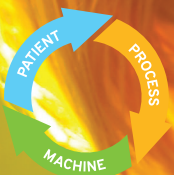
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Drew Purcell
6371 Riverside Dr.
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www.zapitmedical.com
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