D. Optimization to the Millennium MLC for Single SBRT Switching From Type Delineation PO

Heterogeneity E.

Assurance Using Dynalog Analysis and Portal Dosimetry F.

Multi-Progressive Resolution Optimizer (PRO) Optimization Using Varian Photon and Acuros L.

J. Used During Intraoperative Breast Radiotherapy Z.

Return Effect Distributions Ophthalmic Anatomy in Modeling I.

C. Dosimetry with OSLDs S. Cranial Metastases Radiosurgery Investigation Strategies C.

Best Poster Competition - Exhibit Hall


Saturday, March 18, 2017

Program of the Meeting

CALENDAR OF EVENTS

Saturday, March 18, 2017

Best Poster Competition - Exhibit Hall


Professional Symposium

8:00 am - 10:00 am

SA-A-BRA|B Medical Physics Leadership

Moderator: Jennifer Lynn Johnson, UT MD Anderson Cancer Center, Houston, TX
8:00 am M. Howard, Parkridge Medical Ctr: Healthcare Finance 9:00 am P. Halvorsen, Lahey Health and Medical Center: Financial Fundamentals: Advocating for Your Needs

Break in Exhibit Hall

10:00 am - 10:30 am

Young Investigator Symposium

10:30 am - 12:30 pm

SA-A-BRA|B Young Investigator Clinical Symposium

Moderators: Austin Hadley, Mayo Clinic, Jacksonville, FL and Jeffrey Moirano, University of Washington, Seattle, WA
### Saturday, March 18, 2017

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
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<tbody>
<tr>
<td>11:50 am</td>
<td>SA-B-BRA</td>
<td>B-09 Characterization and Validation of Optically Stimulated Luminescent Dosimeters for In-Vivo Surface Dosimetry of HDR Breast Brachytherapy Treatments - J. Van Schelt*, L. Young, L. Wootton, J. Meyer, C. Dempsey</td>
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<tr>
<td>12:00 pm</td>
<td>SA-B-BRA</td>
<td>B-10 Closing the Quality Management Loop with An Automated Plan Check That Draws From An Incident Reporting System - B. Neali*, J. Nasheh Teherani, J. Siebers</td>
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**Lunch Break**

12:30 pm - 2:00 pm

### Therapy Symposium - SAM

2:00 pm - 4:00 pm

**SA-C-BRA|B Building a New Radiation Therapy Clinic: Wait, Where Do I Start? - Part I**
Moderator: Annie Hsu, Stanford Cancer Center, Stanford, CA

2:00 pm  M. Martin, Therapy Physics, Inc.: Shielding Trends in Radiation Therapy

3:00 pm  G. Sherouse, Landauer Medical Physics: Commissioning a Linac Today

### Diagnostic Symposium - SAM

2:00 pm - 4:00 pm

**SA-C-BRC Protocol Review and Optimization**
Moderator: William Sensakovic, Florida Hospital, Orlando, FL

2:00 pm  K. Strauss, Children’s Hospital Medical Center: Optimization of Pediatric DR

2:40 pm  A. Panda, Mayo Clinic, Arizona: MR Protocol Review

3:20 pm  D. Gauntt, UAB Medical Center: CT Protocol Review - Validation and Verification

**Break in Exhibit Hall**

4:00 pm - 4:30 pm

### Therapy Symposium - SAM

4:30 pm - 5:30 pm

**SA-D-BRA|B Building a New Radiation Therapy Clinic: Wait, Where Do I Start? - Part II**
Moderator: Annie Hsu, Stanford Cancer Center, Stanford, CA

4:30 pm  K. Prado, University of Maryland School of Medicine: How to Open a New Radiation Oncology Center

### Diagnostic Symposium - SAM

4:30 pm - 5:30 pm

**SA-D-BRC Nuclear Medicine TG177 Update**
Moderator: William Sensakovic, Florida Hospital, Orlando, FL

4:30 pm  J. Halama, Loyola University Medical Center: An Update on TG177

### Sunday, March 19, 2017

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
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<tbody>
<tr>
<td>8:00 am</td>
<td><strong>Therapy Symposium - SAM</strong></td>
<td>Ballroom A</td>
</tr>
</tbody>
</table>
| 8:00 am | **SU-A-BRA|B You Too Can Create Great Incident Reports!**
Moderator: Jennifer Lynn Johnson, UT MD Anderson Cancer Center, Houston, TX
8:00 am  B. Miller, Henry Ford Health System: An Overview of Incident Reporting
8:40 am  B. Thomadsen, University of Wisconsin: Essential Elements of Incident Narratives
9:20 am  J. Palta, Virginia Commonwealth University: Standardizing Incident Reporting in the VA Medical System | Ballroom A|B                                    |
| 8:00 am | **Mammography Symposium - SAM**                                                                     | Ballroom C                      |
| 8:00 am | **SU-A-BRC Clinical Trends in Breast Imaging**
Moderator: Nicole Ranger, Aspirus Wausau Hospital, Wausau, WI
8:00 am  C. Hruska, Mayo Clinic: From Detection to Prediction: Imaging Markers of Breast Cancer Risk
9:00 am  A. Kerger, The Ohio State University: A Clinical Perspective On DBT-Guided Stereotactic Breast Biopsy | Ballroom C                      |
| 10:00 am| **Professional Symposium - SAM**                                                                    | Ballroom A|B                                    |
| 10:30 am| **SU-B-BRA|B TG275 and Radiation Professional Workforces**
Moderator: Brent Parker, University Texas Medical Branch of Galveston, Galveston, TX
10:30 am  D. Schofield, Saint Vincent Hospital: TG275
10:50 am  P. Johnson, University of Miami: Review of Current Trends in the Physics Chart Check Process: Results from the TG275 Survey of Practices
11:10 am  L. Feng de los Santos, Mayo Clinic: Review of Current Trends in the Physics Chart Check Process: Results from the TG275 Survey of Practices
11:30 am  W. Newhauser, Louisiana State University: Radiation Professional Workforces (Therapy)
12:00 pm  D. Greer, MD Anderson Cancer Center: The Path to Assessing Diagnostic Workforce | Ballroom A|B                                    |
| 10:30 am| **Diagnostic Symposium - SAM**                                                                      | Ballroom C                      |
| 10:30 am| **SU-B-BRC Exposure Indices and Target Values in Radiography: What Are They and How Can You Use Them?**
Moderator: Jeffrey Moirano, University of Washington, Seattle, WA
10:30 am  I. Reiser, The University of Chicago: Definition and Validation of Exposure Indices
11:10 am  A. Walz-Flanagan, Mayo Clinic: Clinical Utilization Strategies and Challenges
11:50 am  C. Willis, MD Anderson Cancer Center: Rethinking Action Limits Based On Findings of TG151 Multi-site Survey | Ballroom C                      |
| 12:30 pm| **Lunch Break**                                                                                    | Ballroom C                      |
### Sunday, March 19, 2017

**Therapy Symposium**
2:00 pm - 4:00 pm  
**SU-C-BRA|B Hands-On Workshop: Using Incidents to Improve Patient Care**
Moderator: Brett Miller, Henry Ford Health System, Clinton Township, MI  
- G. Kim, University of California, San Diego: Using Root Cause Analysis When Analyzing Incidents  
- J. Johnson, UT MD Anderson Cancer Center: Classification of Incidents  
- L. Schubert, Univ. of Colorado Denver: Developing a Corrective Action Plan

**Professional Symposium**
2:00 pm - 4:00 pm
**SU-C-BRC ABR MOC Update / Networking**
Moderator: Matthew Meineke, Ohio State University, Columbus, OH  
- G. Frey, The American Board of Radiology: Changes in the ABR MOC Program  
- G. Ibott, UT MD Anderson Cancer Center: Changes in the ABR MOC Program  
- M. Meineke, Ohio State University: Professional Networking (and We Don’t Mean Ethernet!)

**Break in Exhibit Hall**
4:00 pm - 4:30 pm

**Therapy Symposium - SAM**
4:30 pm - 5:30 pm
**SU-D-BRA|B Buyer Beware: Quality Assurance of Outsourced Products**
Moderator: Kyle Antes, Texas Oncology, PA, Dallas, TX  
- J. Gibbons, Ochsner Health System: Quality Assurance of Outsourced Beam Modulators and Physics Work  
- R. Kuchadkher, UT MD Anderson Cancer Center: Quality Assurance of Outsourced Brachytherapy Loading and Treatment Planning

**Mammography Symposium - SAM**
4:30 pm - 5:30 pm
**SU-D-BRC FFDM Accreditation**
Moderator: Jessica Clements, Kaiser Permanente, Los Angeles, CA  
- D. Pfeiffer, Boulder Community Health: Everything You Need to Know About the New ACR FFDM Manual

### Monday, March 20, 2017

**Mammography Symposium - SAM**
8:00 am - 9:00 am
**MO-A-BRA|B Breast Ultrasound**
Moderator: Jessica Clements, Kaiser Permanente, Los Angeles, CA  
8:00 am W. Lee, GE Healthcare: Automated Breast Ultrasound System (ABUS)

9:00 am - 10:00 am
**MO-A-BRC Breast and General US Accreditation**
Moderator: Jessica Clements, Kaiser Permanente, Los Angeles, CA  
9:00 am D. Hohreiter, Kaiser Permanente: Setting Up A New US QC Program

**Break in Exhibit Hall**
10:00 am - 10:30 am

**Therapy Symposium - SAM**
10:30 am - 12:30 pm
**MO-B-BRA|B Big Data: How Standardizing RT Nomenclature Can Be Your Friend**
Moderator: Jean Moran, University Michigan Medical Center, Ann Arbor, MI  
10:30 am J. Moran, University Michigan Medical Center: TG 263: The Benefits of Standardizing Radiation Therapy Nomenclature  
11:10 am C. Fuller, MD Anderson Cancer Center: A Physician’s Perspective on Implementing Standard Nomenclature  
11:50 am J. Palta, Virginia Commonwealth University: Opportunities to use Standard RT Nomenclature to Improve Care in the VA Health System

**Diagnostic Symposium - SAM**
10:30 am - 12:30 pm
**MO-B-BRC Current Issues in CT Imaging**
Moderator: Jeffrey Moirano, University of Washington, Seattle, WA  
10:30 am C. Dillon, Alliance Medical Physics: Updates to the ACR CT Manual  
11:10 am J. Anderson, UT Southwestern Medical Ctr at Dallas: Practical Dosimetry of Cone-beam Geometry CT Scanners  
11:50 am D. Beaulieu, Boston Children's Hospital: Dual-Energy CT: The Many Technologies and Implementations and What They Mean for Physicists

**Lunch - On Your Own**
12:30 pm - 2:00 pm

**Professional Symposium**
2:00 pm - 4:00 pm
**MO-C-BRA|B Regulatory Update**
Moderator: Richard Martin, AAPM, Alexandria, VA  
2:00 pm M. Reiter, Capitol Associates, Inc.: What Does the New Legislative Year Look Like?  
2:30 pm J. Elee, LA Dept of Environmental Qual: Nuclear Medicine Inspections- What Problems Do We Find and Why?  
3:00 pm D. White, U.S. Nuclear Regulatory Commission: NRC Re-Evaluation of Category 3 Source Security and Accountability  
3:30 pm R. Martin, AAPM: Are Radioactive Materials Secure?
### Monday, March 20, 2017

**Break in Exhibit Hall**

4:00 pm - 4:30 pm

**Therapy Symposium - SAM**

4:30 pm - 5:30 pm

- Ballroom A/B

**MO-D-BRA/B Radiobiology for Hypofractionation: Basics for Clinical Physicists**

Moderator: Annie Hsu, Stanford Cancer Center, Stanford, CA

4:30 pm E. Yorke, Memorial Sloan-Kettering Cancer Center: Hypofractionated Radiation Therapy: Can Clinical Data Further Improve the Therapeutic Ratio?

4:50 pm P. Medin, UT Southwestern Medical Ctr at Dallas: The Tolerance of the Nervous System to SBRT: Dogma, Data and Recommendations

5:10 pm D. Carlson, Yale Univ. School of Medicine: Clinical Outcomes Modeling and Molecular Imaging for Hypofractionated Radiotherapy

**Diagnostic Symposium - SAM**

4:30 pm - 5:30 pm

- Ballroom C

**MO-D-BRC Dental Imaging: TG175 Report**

Moderator: Jeffrey Moirano, University of Washington, Seattle, WA

4:30 pm A. Kwan, : TG175 Overview and Best Practices

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**Tuesday, March 21, 2017**

**Therapy Symposium - SAM**

8:00 am - 10:00 am

- Ballroom A/B

**TU-A-BRA/B Emerging Technology: Real-time Monitoring of Treatment Delivery**

Moderator: Kyle Antes, Texas Oncology, PA, Dallas, TX

8:00 am A. Olch, University of Southern California and Childrens Hospital of Los Angeles: EPID Exit Dose QA

9:00 am S. Dieterich, UC Davis Medical Center: Real Time Patient Monitoring

**Diagnostic Symposium - SAM**

8:00 am - 10:00 am

- Ballroom C

**TU-A-BRC Current Topics in MR Imaging**

Moderator: William Sensakovic, Florida Hospital, Orlando, FL

8:00 am J. Och, Geisinger Medical Center: Imaging Implants

8:40 am N. Yanasak, Georgia Regents University: Artifacts and Mitigation

9:20 am R. Muthupillai, Baylor St. Luke's Medical Center: Myocardial Viability Imaging

**Break in Grand Ballroom Foyer**

10:00 am - 10:30 am

**Professional Symposium - SAM**

10:30 am - 12:30 pm

- Ballroom A/B

**TU-B-BRA/B Radiation Safety Officers Review**

Moderator: Matthew Meineke, Ohio State University, Columbus, OH

10:30 am S. Marsh, Baystate Health Systems, Inc.: Medical Radiation Safety Officers Review

11:30 am D. Pavord, Health Quest: But I Already Have A Full-Time Job! A Therapy Physicist As Radiation Safety Officer