Program of the Meeting

CALENDAR OF EVENTS

Saturday, April 07, 2018

Best Poster Competition

- **PO-BPC-Foyer Best Poster Competition**
  - **PO-BPC-Foyer-01** Fetus Phantom Constructions for Organ Dose Assessment of Pregnant Patients Who Underwent Radiotherapy - R. Makkia *, K. Nelson, M. Dingfelder
  - **PO-BPC-Foyer-02** How to Determine the MRI Safety and Compatibility of an Implant or a Medical Device? - S. Sammet *
  - **PO-BPC-Foyer-03** Electronic Records with Alerts for CT Technologist QC Across Multiple Locations - K. Little *, A. Leiby, X. Jiang, X. Yang, D. Hintenlang
  - **PO-BPC-Foyer-04** A Quality Control Monitoring Program in Digital Radiography - M. Hoerner *, A. Mustafa
  - **PO-BPC-Foyer-05** Shielding a High-Sensitivity Digital Detector From Electromagnetic Interference (EMI) - D. Hintenlang *, K. Little, X. Jiang
  - **PO-BPC-Foyer-06** Implementation of Quality Assurance Program for Diffusion Weighted Imaging, Employing ACR Phantom, in Large Medical Center Setting - Y. Rudzевич *, E. Cameron, C. Lin
  - **PO-BPC-Foyer-07** Leveraging Deep Learning Artificial Intelligence to Conduct Quality Control On Chest X-Ray Images - M. Zhang, K. Nye, G. Avinash, J. Sabol *
  - **PO-BPC-Foyer-08** Using Max Standardized Uptake Value (SUV) From Positron Emission Tomography (PET) to Assess Tumor Responses After Lung Stereotactic Body Radiation Therapy (SBRT) for Different Prescriptions - M. Ding *, W. Zollinger, R. Ebeling, D. Heard, R. Posey
  - **PO-BPC-Foyer-10** A User Friendly GUI for Calculation of Radiobiological Indices and Applier Displacements in HDR Brachytherapy - M. Rahaman *, M. Shojaei, S. Pella, G. Kalantzis
  - **PO-BPC-Foyer-11** SSIM Index for the Quantitative Evaluation of Radiotherapy Dose Distribution - C. Shi *, S. Lim, M. Chan
  - **PO-BPC-Foyer-12** Assessment of Setup Error Correction of Total Marrow Irradiation Using ‘Interrupt-Scan-Registration’ MVCT Image Guided Registration - F. Zhu *, D. Chang, W. Wu, Y. Wang, T. Xia
  - **PO-BPC-Foyer-14** Comparing Results from a Single Vendor’s Patient QA Solutions - S. Mitchell *
  - **PO-BPC-Foyer-16** Using TG-132 Digital Phantoms to Compare Registration Results Between the MIM Maestro and Raystation Systems - J. Pursley *
  - **PO-BPC-Foyer-17** Quantification of TG 119 in the VMAT Era - J. Roring *, K. Rasmussen, S. Statthakis, D. Saenz, N. Kirby, N. Papanikolau
  - **PO-BPC-Foyer-18** Photon Beam Profile Deconvolution for Fields with and without the Flattening Filter Using a Neural Network - H. Liu *, F. Li, J. Park, S. Lebrong, J. Wu, B. Barracough, J. Li, C. Liu, G. Yan
  - **PO-BPC-Foyer-19** A Practical Method for the Reuse of NanoDot OSLDs Up to at Least 50Gy - A. Zhuang *, A. Olch

Saturday, April 07, 2018

- **PO-BPC-Foyer-20** An Approach to Improved MLC Transmission Modeling for Highly-Modulated Treatments in Pinnacle Treatment Planning System - D. Heins *, E. Grant, C. Large
  - **PO-BPC-Foyer-21** Concurrent 3D Isocentricity Analysis for Clinical LINACs - C. Velten *, Y. Wang, P. Black, J. Adams, S. Amsward
  - **PO-BPC-Foyer-22** Clinical Implementation and End-To-End Testing of Varian SRS Cones - C. Hand *, C. Fitzherbert, F. Zhou, P. Imren
  - **PO-BPC-Foyer-23** On the Development of Computational Methods to Aid in Performing Medical Physics Tasks Leveraging Portal Dosimetry Application - E. Rokaj *, M. Schmidt
  - **PO-BPC-Foyer-24** Feasibility of the DP-850 Phantom as An Annual End-To-End Testing Device - L. Helsinki *, B. Murray, S. Goetsch
  - **PO-BPC-Foyer-25** A Dosimetric Comparison of Lung Treatment Plans Using High Definition MLC and Standard MLC - M. Pudassaini *, N. Dumitru, M. Shojaei, S. Pella
  - **PO-BPC-Foyer-26** Three Year Experience of Electronic Portal Image Device Based DailyQA for Photon Radiation Beams - B. Cai, Y. He, D. Bollinger, R. Morris, S. Goddu, S. Mutic, B. Sun *
  - **PO-BPC-Foyer-27** A Feasibility Study of Using SGRT for Esophagus Tumor - W. Jiang *, D. Cao, V. Mehta, D. Shepard
  - **PO-BPC-Foyer-28** Electron Monte Carlo Dose Calculation Model Dependency On Optional Applicator Specific 1D Profiles - R. Sharp *
  - **PO-BPC-Foyer-29** Benchmarking Techniques for Stereotactic Body Radiotherapy to Early-Stage Glottic Laryngeal Cancer: LINAC-Based Non-Coplanar VMAT Vs Cyberknife Planning - Y. Zhang *, T. Chiu, J. Dubas, Z. Tian, P. Lee, X. Gu, D. Sher, B. Zhao
  - **PO-BPC-Foyer-30** 3D Correlation Between Breast Volumes and Heart Doses for Left-Sided Whole Breast Treatment in Photon and Proton Radiation Therapy - J. Yu *, A. Gutierrez, M. Fagundes, M. Mehta
  - **PO-BPC-Foyer-31** Plan Scoring Metric Using Only DVH Information for Evaluation and Comparison of IMRT Treatment Plans - J. Gillz *, W. Weaver, M. DeWeese
  - **PO-BPC-Foyer-32** Evaluation of a Hybrid Verification Technique for Pre-Treatment QA of Single Isocenter Multi-Metastatic SRS Treatments - S. Ahmed *, J. Kapatose, G. Zhang, E. Moros, V. Feygelman
  - **PO-BPC-Foyer-34** Applicator Displacements Study For Endometrial Cancer Treatment With The Fractionated High-Dose Rate GYN Brachytherapy - M. Shojaei *, M. Rahaman, S. Pella, G. Kalantzis
  - **PO-BPC-Foyer-35** Dose Blurring of Three Types of Left-Sided Breast Cancer Plans Due to the Setup Error: 3D-CRT, FIMRT, and VMAT - T. Hwang *, T. Koo
  - **PO-BPC-Foyer-37** Instability of OSMS Camera Caused by HVAC Vent - B. Rice *, C. Bass
  - **PO-BPC-Foyer-39** Variation of Fluoroscopy Technique & Exposure Rate for Different Phantoms for Dose Estimation Program - V. Garcia *, W. Wang
  - **PO-BPC-Foyer-40** Mapping Force-Equivalent Vector Fields Using the Maxwell Stress Tensor - A. Shutler *, I. Rutel
  - **PO-BPC-Foyer-41** Fabrication of Photon and Electron Bolus Using 3D Printing Technology - F. Li *, J. Jung, S. Lebron, J. Park, G. Yan, J. Li, C. Liu, B. Lu

* = Presenting Author
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PO-BPC-Foyer-42 A Prospective Study of the Impact of PTV Margin Reduction for Patients with Localized Prostate Cancer: Delivered Dose and Quality of Life - A. Kumarasiri *, C. Liu, S. Brown, C. Glidewurst, M. Elshaikh, B. Movaas, I. Chetty

PO-BPC-Foyer-43 Clinical QA of the D2RSRS Micro-MLC Attachment - C. Kabat *, H. Parenica, Y. Liu, H. Wen, E. Pappas, N. Papamikolau, S. Stathakis

PO-BPC-Foyer-44 Annealing and Decay Characteristics of OSLDs - B. Owen *, S. Mahendra, W. Jackson

PO-BPC-Foyer-45 Dosimetric Comparison Between IMAT and IMRT for Different Planning Target Volume of Esophageal Cancer - R. Zhang, Y. Gao, W. Bai *, Q. Zhang, R. Li, M. Miao

PO-BPC-Foyer-46 Use of 4DCT Scans to Create Improved Custom Cardiac Blocks for Left-sided Breast Cancer Treatments - P. Dupre *, C. Fitzherbert, C. Hand, L. Solin


PO-BPC-Foyer-48 Investigation of 3D Gamma Analysis for Clinical SRS Treatments - Y. Wang *, C. Velten, P. Black, J. Adamovics, C. Wu

PO-BPC-Foyer-49 Evaluation of Quad Wedge and IC-Profiler to Calculate R50 for Non-Standard Electron Energies - J. Sick *, D. Perrin, J. Fontenot


PO-BPC-Foyer-51 Development of a High Precision Optical System to Assist Radioactive Seed Placement On Eye Plaques - K. Nealon *, A. Ayan, J. Woollard, N. Gupta

PO-BPC-Foyer-52 Potential Efficacy of Monte Carlo Dose Calculation for 6 MV FFF Beam of M4,a,c CyberKnife Using BO-BM4arc and DOSXYZnrc in EGSnrc Code System - T. Neupane *, M. Rahman, C. Shang

Professional Symposium - SAM

8:00 am - 10:00 am

Professional Symposium - SAM

8:00 am - 10:00 am

9:00 am C. Almanza, UT Southwestern Medical Center: Project Management Essentials: Increase Your Impact by Understanding the Bigger Picture - Part 3

9:30 am A. Pompos, UT Southwestern Medical Center: Project Management Essentials: Increase Your Impact by Understanding the Bigger Picture - Part 4

Break in Exhibit Hall

10:00 am - 10:30 am

Young Investigator Symposium

10:30 am - 12:30 pm

Young Investigator Symposium

10:30 am - 12:30 pm

Saturday, April 07, 2018

10:30 am SA-B-Ballroom 5-8-01 Clinical Quality Assurance Applications of a High Spatial Resolution Diode Array for Small Field Dosimetry - M. Held *, A. Sudhayadhom

10:40 am SA-B-Ballroom 5-8-02 Linear Accelerator Pulse-Synchronized Imaging of Scintillator Emission for Patient Surface Dosimetry - I. Tendler *, P. Bruza, J. Andreozzi, B. Williams, L. Jarvis, D. Gladstone, B. Pogue

10:50 am SA-B-Ballroom 5-8-03 Real-Time Dose Accumulation and Radiobiological Prediction for Multi-Metastasis Single Isocenter Stereotactic Radiosurgery - E. Welch *, A. Yock

11:00 am SA-B-Ballroom 5-8-04 Automation of a Monte Carlo Dose Verification System for Proton Therapy - M. Kaluuarachchi *, F. Pirelespos, E. Xie, V. Moskin, A. Faught

11:10 am SA-B-Ballroom 5-8-05 Development of a Clinical Workflow for Patient-Specific 3D-Printed Bolus Caps for Total Scalp Irradiation - G. Baltz *, P. Chi, C. Wang, D. Craft, P. Wong, S. Hsinyi Lin, S. Kry, A. Gardan, R. Howell

11:20 am SA-B-Ballroom 5-8-06 A Novel 3D Printed Liquid-Based Brachytherapy Ultrasound QA Phantom - B. Leong *, M. Ostyn, S. Kim

11:30 am SA-B-Ballroom 5-8-07 Gafchromic Film-Based Explicit Output Verification Method for Linear Accelerators Utilizing Automatic Analysis - C. Gao *, J. Gijwang, S. Kim, T. Kim

11:40 am SA-B-Ballroom 5-8-08 Clinical Verification of Varian Representative Data for SRS Cones Through Multiple Dosimetric Methods - P. Iremen *, C. Fitzherbert, F. Zhou, C. Hand

11:50 am SA-B-Ballroom 5-8-09 Characterization of X-Ray Tube Scatter and Its Potential Impact On Occupational Radiation Exposure - A. Tao *, M. Hindal, D. Miller, K. Feretely

12:00 pm SA-B-Ballroom 5-8-10 Characterization of the Helcyon SXI Multi-Leaf Collimator System - T. Lim *, I. Dragojevic, D. Hoffman, E. Flores-Martinez, G. Kim

12:10 pm SA-B-Ballroom 5-8-11 Characterizing the Response of Gafchromic Film to Magnetic Fields On an MRI-Guided Linear Accelerator - I. Xhaferllari *, J. Kim, R. Liyangan, D. Du, M. Damas, C. Liu, I. Chetty, N. Wen

12:20 pm SA-B-Ballroom 5-8-12 Cherenkov Imaging Verification of Matched Photon and Electron Fields - P. Black *, Y. Wang, C. Velten, C. Wu

Visit the Vendors | Lunch

12:30 pm - 2:00 pm - Exhibit Hall

Joint Therapy-Diagnostic Symposium

2:00 pm - 4:00 pm - Ballroom 5-8

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

2:00 pm Y. Rong, University of California-Davis: The Use of MRI in High Dose Rate Brachytherapy Treatment for Cervical Cancer

2:30 pm M. Cao, UCLA School of Medicine: MRI Guided Adaptive Radiotherapy, Present and Future

3:00 pm N. Tyagi, Memorial Sloan-Kettering Cancer Center: Use of MRI for External Beam Treatment Planning

3:30 pm Y. Hu, Mayo Clinic Arizona: Use of MRI in Radiotherapy: Technical Considerations

Break in Exhibit Hall

4:00 pm - 4:30 pm - Exhibit Hall
**Saturday, April 07, 2018**

**Therapy Symposium - SAM**  
4:30 pm - 5:30 pm  
-Marquis Ballroom 5-8  
**SA-D-Ballroom 5-8 IGRT: Making Effective Clinical Choices**  
Moderator: Annie Hsu, Stanford Cancer Center, Stanford, CA  
4:30 pm  
J. Chang, Northwell Health: IGRT: Effective Decisions with Multi-Modality Imaging Systems  
5:00 pm  
L. Cervino, UC San Diego: Clinical Review of Imaging for Treatment Verification  

**Diagnostic Symposium - SAM**  
4:30 pm - 5:30 pm  
-Marquis Ballroom 1-4  
**SA-D-Ballroom 1-4 Joint Commission Diagnostic Imaging Updates**  
Moderator: Jeffrey Moirano, University of Washington, Seattle, WA  
4:30 pm  
A. Browne, The Joint Commission: Current Standards for Diagnostic Imaging and Future Addition of Fluoroscopy  

**Welcome Reception**  
6:00 pm - 7:30 pm

**Sunday, April 08, 2018**

**Therapy Symposium - SAM**  
8:00 am - 10:00 am  
-Marquis Ballroom 5-8  
**SU-A-Ballroom 5-8 To Measure or Not to Measure for Patient Specific QA**  
Moderator: Sotirios Stathakis, University of Texas Health, San Antonio, TX  
8:00 am  
M. Miften, University of Colorado School of Medicine: Measurement-Based Patient-Specific IMRT QA: Fact and Fiction  
9:00 am  
B. Yi, University of Maryland School Of Medicine: Is It Safe, Non-Measurement Based Patient Specific IMRT QA?  

**Diagnostic Symposium - SAM**  
8:00 am - 10:00 am  
-Marquis Ballroom 1-4  
**SU-A-Ballroom 1-4 The Zagzebski/Carson Distinguished Lecture on Medical Ultrasound**  
Moderator: Jeffrey Moirano, University of Washington, Seattle, WA  
8:00 am  
J. Zagzebski, University of Wisconsin: Ultrasound Instrumentation: An Important Focus for the Medical Physicist  
9:00 am  

**Break in Exhibit Hall | Visit the Vendors**  
10:00 am - 10:30 am

**Professional Symposium - SAM**  
10:30 am - 12:30 pm  
-Marquis Ballroom 5-8  
**SU-B-Ballroom 5-8 Medical Physics Information Technology**  
Moderator: Matthew Meineke, Ohio State University, Columbus, OH  

**SU-B-Ballroom 5-8 AAPM TG 210 Review - Conventional LINAC Acceptance Testing**  
Moderator: Sotirios Stathakis, University of Texas Health, San Antonio, TX

**Sunday, April 08, 2018**

10:30 am  
W. Feng, Bayhealth Medical Center: IT Basics and Trouble Shooting for the Clinical Medical Physicist  
11:00 am  
B. Curran, Virginia Commonwealth University Medical Center: Current Standards for Information Exchange in Radiation Oncology: DICOM, DICOM-RT, and HL7  
11:30 am  
P. Balter, UT MD Anderson Cancer Center: Database Basics Including Applications in Radiotherapy for Safety and Efficiency  
12:00 pm  
C. Mayo, University of Michigan: If Only My Planning System Could...Using Scripting to Push the Envelope On Clinical Capabilities of Treatment Planning Systems

**Diagnostic Symposium - SAM**  
10:30 am - 12:30 pm  
-Marquis Ballroom 1-4  
**SU-B-Ballroom 1-4 CT Dosimetry and Applications**  
Moderator: William Sensakovic, Florida Hospital, Orlando, FL  
10:30 am  
M. Arroela, University of Florida: CT Dosimetry in the Clinical Environment: Methods and Analysis  
11:30 am  
M. Mahesh, Johns Hopkins University: Cardiac CT Principles and Radiation Doses

**Lunch Break in Exhibit Hall | Visit the Vendors**  
12:30 pm - 2:00 pm

**Therapy Symposium**  
2:00 pm - 4:00 pm  
-Marquis Ballroom 5-8  
**SU-C-Ballroom 5-8 AAPM TG 275: Live Demonstration of Chart Checks**  
Moderator: Annie Hsu, Stanford Cancer Center, Stanford, CA  
2:00 pm  
G. Kim, University of California, San Diego: EBRT Plan Review - Eclipse/ARIA  
2:30 pm  
A. Greener, VA Medical Center: EBRT Plan Review - Pinnacle/Mosaiq  
3:00 pm  
S. Parker, University North Carolina: EBRT Plan Review - RayStation/Mosaiq  
3:30 pm  
P. Johnson, University of Miami: HDR Plan Review - Oncentra/Aria

**Professional Symposium - SAM**  
2:00 pm - 4:00 pm  
-Marquis Ballroom 1-4  
**SU-C-Ballroom 1-4 Navigating IT Requirements in Today's Electronic Environment**  
Moderator: Matthew Meineke, Ohio State University, Columbus, OH  
2:00 pm  
B. Murray, OMPC Therapy, LLC and OMPC Diagnostics, LLC: Current and Future IT Applications in the Clinical Medical Physics World  
3:00 pm  
S. Wilson, Riverside Methodist Hospital: Developing a Relationship with Your IT Department: Understanding Modern Technology Requirements

**Break in Exhibit Hall | Visit the Vendors**  
4:00 pm - 4:30 pm

**Therapy Symposium - SAM**  
4:30 pm - 5:30 pm  
-Marquis Ballroom 5-8  
**SU-D-Ballroom 5-8 AAPM TG 210 Review - Conventional LINAC Acceptance Testing**  
Moderator: Sotirios Stathakis, University of Texas Health, San Antonio, TX
### Sunday, April 08, 2018

#### 4:30 pm
- **A. Perez-Andujar, University of San Francisco:** Empowering the Physicist in the Linac Acceptance Process, the TG210- Perspective

#### Mammography Symposium - SAM
4:30 pm - 5:30 pm  - Marquis Ballroom 1-4

**SU-D-Ballroom 1-4: The Art of the Image in Mammography**
Moderator: Nicole Ranger, Aspirus Wausau Hospital, Wausau, WI
- **B. Schueler, Mayo Clinic:** Artifacts in 2D and 3D Breast Imaging: Their Origin, Presentation, and Remediation

### Monday, April 09, 2018

#### Therapy Symposium - SAM
8:00 am - 10:00 am  - Marquis Ballroom 5-8

**MO-A-Ballroom 5-8: Automation in Therapy: The Future is Now**
Moderator: Scott Davidson, University Texas Medical Branch of Galveston, Galveston, TX
- **C. Mayo, University of Michigan:** Automation in Plan Quality Assurance (QA)
- **L. Court, UT MD Anderson Cancer Center:** Automation in Treatment Planning

**Mammography Symposium - SAM**
8:00 am - 10:00 am  - Marquis Ballroom 1-4

**MO-A-Ballroom 1-4: Future Directions in Breast Imaging QC and Dosimetry**
Moderator: Nicole Ranger, Aspirus Wausau Hospital, Wausau, WI
- **D. Pfeiffer, Boulder Community Health:** Introduction to the ACR Breast Tomosynthesis QC Program
- **A. Hernandez, University of California-Davis:** The History, Current Practice, and Future of Breast Imaging Dosimetry

#### Break in Exhibit Hall | Visit the Vendors
10:00 am - 10:30 am

### Monday, April 09, 2018

#### 11:30 am
- **A. Goode, University of Virginia Health Systems:** Clinical Experiences with a Patient Skin Dose Monitoring and Tracking Program

#### 12:00 pm
- **J. Clark, Virginia Commonwealth University Medical Center:** Institutional Infrastructure for Fluoroscopy Exposure Monitoring and Tracking

### Monday, April 09, 2018

#### Lunch - On Your Own | Hall Closed (12:30 – 1:30 pm)
Visit the Vendors (1:30 – 2:00 pm)
12:30 pm - 2:00 pm

#### Professional Symposium
2:00 pm - 4:00 pm  - Marquis Ballroom 1-4

**MO-C-Ballroom 1-4: ABR Update & Regulatory Update**
Moderator: Matthew Meineke, Ohio State University, Columbus, OH
- **J. Seibert, UC Davis Medical Center:** ABR MOC Update
- **M. Reiter, Capitol Associates, Inc.:** On the Hill: What Does the New Legislative Year Look Like?
- **J. Elec, LA Department of Environmental Quality:** Summary of Radiation Medical Events
- **R. Martin, AAPM:** Update of Radiation Safety Issues

#### Break in Exhibit Hall | Visit the Vendors
4:00 pm - 4:30 pm

#### Therapy Symposium - SAM
4:30 pm - 5:30 pm  - Marquis Ballroom 5-8

**MO-D-Ballroom 5-8: Special Topics: TBI and Brachytherapy**
Moderator: Annie Hsu, Stanford Cancer Center, Stanford, CA
- **X. Gu, UT Southwestern Medical Center:** Advances in TBI
- **J. Prisciandaro, University of Michigan:** MRI for HDR Treatment Planning

#### Diagnostic Symposium - SAM
4:30 pm - 5:30 pm  - Marquis Ballroom 1-4

**MO-D-Ballroom 1-4: DEXA Physics and Applications**
Moderator: William Sensakovic, Florida Hospital, Orlando, FL
- **D. Gauntt, UAB Medical Center:** Dual Energy X-Ray Absorptiometry (DXA): Science, Technology, and Practice

### Tuesday, April 10, 2018

#### Therapy Symposium - SAM
8:00 am - 10:00 am  - Marquis Ballroom 5-8

**TU-A-Ballroom 5-8: In the Era of Consolidation: Making Physics Minutes Count**
Moderator: Scott Davidson, University Texas Medical Branch of Galveston, Galveston, TX
- **A. Riegel, Northwell Health:** Resource Integration and Management in Multi-Site Radiation Oncology Departments
- **M. Price, Vanderbilt University Medical Ctr.:** Staffing Models for Multi-Site Institutions
- **L. Potters, Northwell Health:** Command and Control in the Era of Consolidation
**Mammography Symposium - SAM**

8:00 am - 10:00 am  
-Marquis Ballroom 1-4

**TU-A-Ballroom 1-4 Breast Imaging in the Clinic**
Moderator: Nicole Ranger, Aspirus Wausau Hospital, Wausau, WI
8:00 am  S. Friedewald, Northwestern University: Clinical Breast Imaging: What Every Physicist Should Know
9:00 am  W. Geiser, UT MD Anderson Cancer Center: Multi-Modality Stereotactic Breast Imaging Biopsy Systems

**Break in Marquis Ballroom Foyer**
10:00 am - 10:30 am

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**Professional Symposium - SAM**

10:30 am - 12:30 pm  
-Marquis Ballroom 5-8

**TU-B-Ballroom 5-8 Peer Support and Mentorship**
Moderator: Brent Parker, University Texas Medical Branch of Galveston, Galveston, TX
10:30 am  Y. Rong, University of California-Davis: Mentoring 101
10:55 am  R. Stern, UC Davis Cancer Center: Mentoring in an Academic Clinic
11:20 am  S. Evans, Yale University: Rationale for Peer Support
11:45 am  J. Johnson, Landauer Medical Physics: Needs Assessment of Peer Support in Medical Physics
12:10 pm  Y. Rong, University of California-Davis: Panel Discussion