**Education Council Symposium**

**SU - BB-201B - Education Council Symposium**

10-AM - Education Council Symposium - Effective Use of Web-Based Resources to Enrich Classroom and Collaborative Learning Activities

Presented by: Dr. Perry Sprawls, PhD, Sprawls Educational Foundation, Montreat, NC, 28757

Email: sprawls@emory.edu

10-AM - The AAPM Resources for Continuing Education - Increasing Effectiveness for the Future

Presented by: Mr. Jeffrey P. Limmer, MS MEd, Aspirus Regional Cancer Centers, Wausau, WI, 54401-4120

Email: jeff.limmer@aspirus.org

10-AM - Education Council Symposium - Effective Use of the RSNA/AAPM Modules

Presented by: Dr. William R. Hendee, PhD, Medical College of Wisconsin, Rochester, MN, 55903

Email: whendee@mcw.edu

10-AM - Education Council Symposium - Online Courses and Degree Granting Programs

Presented by: Brent Liu

Email: brentliu@usc.edu

**Imaging Symposia**

**MO - D-201B - Emerging X-ray Imaging Technology**

10-AM - Carbon Nanotube X-ray: Promises and Challenges

Presented by: Dr. Otto Zhou, University of North Carolina, Chapel Hill, NC, 27599

Email: zhou@physics.unc.edu
10-AM - Distributed X-ray Source Development
Presented by: Kris Frutschy, GE Global Research, Niskayuna, NY, 12309
Email: frutschy@research.ge.com

10-AM - Emerging X-ray Detector Technologies
Presented by: Dr. Wei Zhao, PhD, SUNY Stony Brook, Stony Brook, NY, 11794-8460
Email: wei.zhao@sunysb.edu

MO - D-201C - Advances in MRI
10-AM - Advances in MR: State of the Art Today and Future Directions MR Instrumentation
Presented by: Dr. Norbert J. Pelc, ScD, Stanford University, Stanford, CA, 94305-5488
Email: pelc@stanford.edu

10-AM - Advances in MR: State of the Art Today and Future Directions Advanced Applications
Presented by: Dr. John C. Gore, PhD, Vanderbilt Univ. Medical Ctr., Nashville, TN, 37232
Email: john.gore@vanderbilt.edu

10-AM - Advances in MR: State of the Art Today and Future Directions MR-Guided Interventions
Presented by: R. Jason Stafford, PhD, UT MD Anderson Cancer Center, Houston, TX, 77030-4009
Email: jstafford@mdanderson.org

TU - C-201C - New Trends for Translating Emerging Imaging Technology to Address the Cancer Problem
10-AM - NCI Initiatives on Translational Research: An Overview of Funding Opportunities
Presented by: Dr. Laurence P. Clarke, PhD, National Cancer Institute, Bethesda, MD, 20892-7440
Email: lclarke@mail.nih.gov
WE - C-201C - Advances in Breast Imaging

10-AM - Perspective on the Developing Modalities for Breast Cancer Imaging

Presented by: Dr. Andrew Karellas, PhD, University of Massachusetts Medical School, Worcester, MA, 1655

Email: Andrew.Karellas@umassmed.edu

10-AM - Advances in Breast MRI: Clinical and Scientific Perspective

Presented by: Mitchell D. Schnall, MD, PhD, Hospital of the University of Pennsylvania, Philadelphia, PA, 19104

Email: schnall@oasis.rad.upenn.edu

10-AM - Tissue Discrimination Methods in Mammography and Tomosynthesis

Presented by: Dr. Andrew A. Maidment, PhD, University Pennsylvania, Philadelphia, PA, 19104-4283

Email: Andrew.Maidment@uphs.upenn.edu

WE - D-201B - Advances in Cardiovascular Imaging

10-AM - Wide Area Detector CT in Cardiovascular Imaging

Presented by: Frank J Rybicki, MD, PhD, Brigham and Women's Hospital, Boston, MA, 2115

Email: frybicki@partners.org

10-AM - Cardiovascular MR Imaging: Recent Improvements in Speed, Resolution, and Contrast

Presented by: Dr. Stephen J. Riederer, PhD, Mayo Clinic, Rochester, MN, 55905

Email: riederer@mayo.edu
10-AM - Recent Advances in PET Quantitation of Myocardial Blood Flow
Presented by: Dr. Georges El Fakhri, PhD, Massachusetts General Hospital, Boston, MA, 2114
Email: elfakhri@pet.mgh.harvard.edu

WE - D-201C - Advances Image-Guided Interventions

10-AM - Ultrasound Modulation of the Blood-Brain-Barrier for Targeted Drug Delivery
Presented by: Nathan McDannold, Harvard Medical School, Brigham & Women's Hospital, Boston, MA, 2115
Email: njm@bwh.harvard.edu

10-AM - SonoKnife -- Feasibility of Line-Focused Ultrasound for Thermal Ablation
Presented by: Eduardo G. Moros, PhD, University of Arkansas for Medical Sci, Little Rock, AR, 72205
Email: emoros@uams.edu

WE - D-202 - MRI Safety

10-AM - MRI Safety
Presented by: Tobias Gilk, Mednovus, Inc., Overland Park, KS, 66213
Email: Tobias.Gilk@Mednovus.com

WE - D-203 - PQI

10-AM - Practice Quality Improvement (PQI) and MOC
Presented by: Dr. G. Donald Frey, PhD, Medical Univ of South Carolina, Charleston, SC, 29425
Email: freyd@musc.edu
10-AM - Practice Quality Improvement (PQI) and MOC
Presented by: Dr. Michael V. Yester, PhD, UAB Medical Center, Birmingham, AL, 35249
Email: myester@uab.edu

10-AM - Practice Quality Improvement (PQI) and MOC
Presented by: Mr. Michael S. Taylor, MS, Kaiser Permanente, Portland, OR, 97227-1196
Email: mike.taylor.m@gmail.com

TH - D-204B - Compressed Sensing in Image Reconstruction and Dose Optimization
10-AM - Theory and Applications in MR Imaging of Compressive Sensing
Presented by: Thomas Goldstein, Stanford University, St. Louis, Mo, 90035
Email: tomgold2@gmail.com

10-AM - IMRT and VMAT Inverse Planning with Compressed Sensing Techniques
Presented by: Dr. Lei Xing, PhD, Stanford University School of Medicine, Stanford, CA, 94305-5847
Email: lei@stanford.edu

Therapy Symposia

MO - D-202 - Treatment Planning System Algorithms and QA
10-AM - Dose Calculation and Optimization Algorithms: A Clinical Perspective
Presented by: Dr. Daryl P Nazareth, PhD, Roswell Park Cancer Institute, Buffalo, NY, 14263
Email: daryl.nazareth@roswellpark.org
10-AM - Dose Calculation and Optimization Algorithms: A Clinical Perspective
Presented by: Dr. Thomas R. Mackie, PhD, University of Wisconsin - ADCL, Madison, WI, 53706
Email: trmackie@facstaff.wisc.edu

10-AM - Dose Calculation and Optimization Algorithms: A Clinical Perspective
Presented by: Dr. David M. Shepard, PhD, Swedish Cancer Institute, Seattle, WA, 98104
Email: david.shepard@swedish.org

MO - D-203 - HAZMAT I Training
10-AM - Department of Transportation Hazmat Employee Training for Shippers of Radioactive Materials - Part I
Presented by: Roy A. Parker, Ph.D., Baton Rouge, Louisiana, 70808
Email: roy@royparker.org

MO - D-BRA - Nano - Cancer and Radiation Therapy
10-AM - Nano - Cancer and Radiation Therapy
Presented by: Gregory Lanza, Washington University Medical School, St. Louis, MO, 63108
Email: greg.lanza@mac.com

10-AM - Nano - Cancer and Radiation Therapy
Presented by: Mohamed Khan, Roswell Park Cancer Institute, Buffalo, NY, 14263
Email: Khan@RoswellPark.org
MO - E-202 - A Primer on Proton Therapy

10-AM - A Primer on Proton Therapy

Moderator: Dr. Jatinder R. Palta, PhD, University of Florida Health Science Center, Gainesville, FL, 32610-0385

Email: paltajr@ufl.edu

Presented by: Roelf Slopsema, University of Florida Proton Institute, Jacksonville, FL, 32206

Email: slopsema@ufl.edu

10-AM - A Primer on Proton Therapy

Presented by: Dr. Martijn Engelsman, PhD, Massachusetts General Hospital, Boston, MA, 2114

Email: mengelsman@partners.org

10-AM - A Primer on Proton Therapy

Presented by: Dr. Lei Dong, PhD, UT MD Anderson Cancer Center, Houston, TX, 77030

Email: ldong@mdanderson.org

MO - E-203 - HAZMAT II Training

10-AM - Department of Transportation Hazmat Employee Training for Shippers of Radioactive Materials - Part II

Presented by: Roy A. Parker, Ph.D, Baton Rouge, Louisiana, 70808

Email: roy@royparker.org

TU - D-201B - Advances in CT Dose Reduction and CT Dose Measurement

10-AM - Challenges and Experience in CT Dose Assessment & Dose Reduction - An International Perspective

Presented by: Dr. Madan M. Rehani, PhD, International Atomic Energy Agency, Vienna, A-1400

Email: M.Rehani@iaea.org
10-AM - Current and Future Measurements of CT Dose
Presented by: Dr. Dianna D. Cody, PhD, U.T.M.D Anderson Cancer Center, Houston, TX, 77030-4009
Email: dcody@mdanderson.org

10-AM - The Latest in Radiation Dose Reduction Techniques in CT
Presented by: Dr. Cynthia H. McCollough, PhD, Mayo Clinic, Rochester, MN, 55905
Email: mccollough.cynthia@mayo.edu

10-AM - CT Dose Reduction and Image Quality From a Clinical Perspective
Presented by: Mannudeep Kalra
Email: mkalra@partners.org

TU - D-202 - Establishing an SBRT Program
10-AM - Overview of the AAPM TG 101
Presented by: Dr. Stanley H. Benedict, PhD, University of Virginia Health Systems, Charlottesville, VA, 22908-0375
Email: shb4x@virginia.edu

10-AM - Physics and Dosimetry
Presented by: Dr. Lu Wang, PhD, Fox Chase Cancer Center, Philadelphia, PA, 19111
Email: l_wang@fccc.edu

10-AM - Clinical and Radiobiological Considerations
Presented by: Dr Brian Kavanagh, MD, University of Colorado Denver, Aurora, CO, 80045
Email: Brian.Kavanagh@ucdenver.edu
TU - D-203 - International Symposium

10-AM - The Situation of Medical Physics in Developing Countries
Email: A.Meghzifene@iaea.org

10-AM - The Situation of Medical Physics in Developing Countries
Presented by: Mr Sonwabile Ngcezu, Steve Biko Academic Hospital, Pretoria
Email: sonwabilengcezu@gmail.com

10-AM - The Situation of Medical Physics in Developing Countries
Presented by: Carlos Daniel Venencia, MSc, Instituto de Radioterapia, Cordoba, Argentina
Email: dvenencia@radioncologia-zunino.org

TU - D-BRA - Real-time Image Guidance for Radiation Therapy

10-AM - Real-Time Guidance in Radiation Therapy: Present and Future Perspectives
Presented by: Patrick Kupelian, MD Anderson Cancer Center Orlando, Orlando, FL, 32806
Email: Patrick.Kupelian@orlandohealth.com

10-AM - Real-Time-Image Guidence in Radiation Therapy: Is There a Role for Ultrasound Imaging?
Presented by: Mr. Dimitre Hristov, PhD, Stanford University Cancer Center, Palo Alto, CA, 94305
Email: dimitre.hristov@stanford.edu
TU - E-202 - Baldrige QA

10-AM - Applying Baldrige National Program Methodology to Achieve Medical Physics Performance Excellence

Presented by: Dr. Edward S. Sternick, PhD, Rhode Island Hospital/Brown Medical School, Providence, RI, 2903

Email: esternick@lifespan.org

Mr. Bruce H. Curran, MEng, Rhode Island Hospital/Brown Medical Center, Providence, RI, 2903

Email: bcurran1@lifespan.org

TU - E-204C - Multicriteria Optimization

10-AM - Basic Concepts in Multicriteria Optimization and their Application in Radiation Therapy

Presented by: Dr. Thomas R. Bortfeld, PhD, Massachusetts General Hospital, Boston, MA, 2114

Email: tbortfeld@partners.org

10-AM - VMAT and the Tradeoff Between Treatment Time and Dose Conformality

Presented by: Dr. Cedric X. Yu, DSc, Univ Maryland School of Medicine, Baltimore, MD, 21201-1595

Email: cyu002@umaryland.edu

10-AM - How to Make Clinical Decisions in the Multicriteria Framework

Presented by: Dr. Mark H. Phillips, PhD, Univ Washington, Seattle, WA, 98195-6043

Email: markp@u.washington.edu

10-AM - New Directions and Clinical Applications of Multicriteria Optimization

Presented by: David Craft, Massachusetts General Hospital, Boston, MA, 2114

Email: dcraft@partners.org
Joint Imaging-Therapy Symposia

TU - E-BRA - Optimizing MR Imaging for Treatment Planning

10-AM - Optimizing MR Imaging for Treatment Planning

Presented by: Nina A Mayr, The Ohio State University, Columbus, OH, 43210
Email: nina.mayr@osumc.edu

10-AM - Optimizing MR Imaging for Treatment Planning

Presented by: Dr. Edward F. Jackson, PhD, UT MD Anderson Cancer Center, Houston, TX, 77030
Email: ejackson@mdanderson.org

10-AM - Optimizing MR Imaging for Treatment Planning

Presented by: Kristy K. Brock, PhD, Princess Margaret Hospital, Toronto, ON, MSG2M9
Email: kristy.brock@rmp.uhn.on.ca

WE - A-204B - Latest Developments in Ultrasound Imaging and Treatment in Radiation Oncology

10-AM - Possible Causes for the Reduced Efficacy of US Based Image Guided Treatment of Prostate Cancer with External Beam Radiation Therapy

Presented by: Prof. Frank Van den Heuvel, PhD, University Hospitals K.U. Leuven, Leuven, B-3000
Email: frank.vandenheuvel@uz.kuleuven.ac.be

10-AM - Monitoring Tumor and Normal Tissue Response in Radiotherapy: Application of Quantitative Ultrasonic Imaging

Presented by: Tian Liu, Emory University, Atlanta, GA, 30322
Email: tian@radonc.emory.org
10-AM - Image Guidance of Focused Ultrasound

Presented by: Dr. Kim Butts Pauly, Stanford University, Stanford, CA, 94305

Email: kbpauly@stanford.edu

TH - C-204C - The Use of Magnetic Resonance Imaging and Spectroscopy for In-vivo Dosimetric and Verification of Therapy Photon and Proton Beams

10-AM - A Physicist Perspective of the Use of MRI and Spectroscopy for In-vivo Verification of Photon and Proton Beam Therapy

Presented by: Dr. Joao Seco, PhD, Mass General Hospital; Harvard Medical, Boston, MA, 2114

Email: jseco@partners.org

10-AM - Advanced MR Spectroscopy Methods for Studying Metabolism and Radiation Treatment Response in Brain Tumors

Presented by: Ovidiu C Andronesi, MD, PhD, Massachusetts General Hospital, Charlestown, MA, 2129

Email: ovidiu@nmr.mgh.harvard.edu

10-AM - Radiation Necrosis and its Characterization Using Advanced MRI

Presented by: Dr Sarah C Jost, Swedish Neuroscience Institute, Seattle, WA, 98121

Email: Sarah.Jost@swedish.org

TH - D-BRA - Late Effects from Radiation Therapy and Diagnostic Imaging

10-AM - Epidemiologic Evidence of Late Effects from Diagnostic Imaging and Radiation Therapy

Presented by: Rebecca M Howell, PhD, UT MD Anderson Cancer Center, Houston, TX, 77030

Email: rhowell@mdanderson.org
10-AM - Late Effects from Modern Radiation Therapy
Presented by: Dr. Wayne David Newhauser, PhD, MD Anderson Cancer Ctr., Houston, TX, 77030
Email: wnewhaus@mdanderson.org

Presidents Symposium

MO - C-BRB - President's Symposium - Diagnosis and Treatment, the Patient's Perspective
10-AM - President's Symposium
Moderator by: Michael G. Herman, PhD, Mayo Clinic, Rochester, MN, 55905
Email: herman.michael@mayo.edu
Presented by: Dr. James Donnelly, Lexington, Kentucky, 40507-1697
Email: jimdonn4@aol.com

10-AM - President's Symposium
Presented by: Dr. Robert Foote, Mayo Clinic, Rochester, MN, 55905
Email: Foote.robert@mayo.edu

Professional Symposia

SU - AA-204B - Professional Council Symposium
10-AM - Professional Council Symposium
Presented by: Mr. Robert J. Pizzutiello, MS, Upstate Medical Physics, Victor, NY, 14564
Email: bobp@upstatemp.com
10-AM - Professional Council Symposium
Presented by: Mr. Douglas E. Pfeiffer, MS, Boulder Community Foothills Hospital, Boulder, CO, 80303
Email: xraydoug@me.com

Special Symposium on Patient Safety Symposia

SU - FF-BRA - Special Symposium on Patient Safety
10-AM - Special Symposium on Patient Safety
Presented by: Walter Bogdanich

10-AM - Special Symposium on Patient Safety
Presented by: Dr. William R. Hendee, PhD, Medical College of Wisconsin, Rochester, MN, 55903
Email: whendee@mcw.edu

10-AM - Special Symposium on Patient Safety
Presented by: Michael G. Herman, PhD, Mayo Clinic, Rochester, MN, 55905
Email: herman.michael@mayo.edu

10-AM - Special Symposium on Patient Safety
Presented by: Ola Holmberg, IAEA, Vienna
Email: o.holmberg@iaea.org
Continuing Education Courses Symposia - Imaging

**MO - A-204C - Educational Course - Imaging MRI I**

10-AM - Pulse Sequences and Acquisition Techniques for Breast MRI

Presented by: Dr. Ronald Price. PhD, Vanderbilt Medical Center, Nashville, TN, 37232-2675

Email: ron.price@vanderbilt.edu

10-AM - Breast MRI Quality Control

Presented by: Ms. Donna M. Reeve. MS, UT MD Anderson Cancer Center, Houston, TX, 77030-4009

Email: dmreeve@mdanderson.org

**MO - B-201C - Educational Course - Imaging Informatics I**

10-AM - Color Monitors for Medical Workstations

Presented by: Dr. Ehsan Samei, PhD, Duke University Medical Center, Durham, NC, 27705

Email: samei@duke.edu

10-AM - Color Monitors for Medical Workstations

Presented by: Dr. Michael J. Flynn. PhD, Henry Ford Health System, Detroit, MI, 48202

Email: mikey@rad.hfh.edu

10-AM - Color Monitors for Medical Workstations Limit from 5-2 rem

Presented by: Hans Roehrig
MO - B-202 - Educational Course - Imaging Safety/Risk I
10-AM - Status/Impact of Lowering the Annual Limit from 5-2 rem
Presented by: Donald Cool, Ph.D, U.S. Nuclear Regulatory Commission, Washington, D.C., 20555
Email: donald.cool@nrc.gov

MO - B-204C - Educational Course - Imaging Breast Imaging I
10-AM - Practical Aspects of Medical Physics Surveys of Mammography Equipment and Facilities
Presented by: Ms. Melissa Carol Martin, MS, Therapy Physics, Inc., Gardena, CA, 90248
Email: melissa@therapyphysics.com

TU - A-201C - Educational Course - Imaging Multimodality I
10-AM - Multi-modality Imaging: Current State of the Art
Presented by: Michael W. Vannier, University of Chicago, Chicago, IL, 60637
Email: mvannier@radiology.bsd.uchicago.edu

10-AM - Multi-modality Breast Imaging Systems: Tomo/Ultrasound/Optics, Ultrasound
Presented by: Dr. Paul L. Carson, PhD, The University of Michigan Health System, Ann Arbor, MI, 48109
Email: pcarson@umich.edu

TU - A-202 - Educational Course - Imaging Radiology/Fluoroscopy II
10-AM - Peak Skin Dose Reconstruction and TJC Sentinel Event
Presented by: Dr. Jon A. Anderson, PhD, UT Southwestern Medical Ctr at Dallas, Dallas, TX, 75390
Email: jon.anderson@utsouthwestern.edu
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<th>Course Code</th>
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| TU - A-204C | Educational Course - Imaging Computed Tomography II | 10-AM  | New Technologies for Image Quality Improvement and Dose Reduction in CT  
Presented by: Dr. Mahadevappa Mahesh, MS, PhD, Johns Hopkins Univ, Baltimore, MD, 21287  
Email: mmahesh@jhmi.edu |
| TU - B-201C | Educational Course - Imaging Radionuclide Imaging I | 10-AM  | Gamma Camera and SPECT Routine Quality Assurance Testing  
Presented by: Dr. Sharon L. White, PhD, University Of Alabama, Birmingham, AL, 35249  
Email: shlwhite@uabmc.edu |
Presented by: Cynthia A Carpenter, U.S. Nuclear Regulatory Commission, Rockville, Maryland, 20852  
Email: cynthia.carpenter@nrc.gov |
| TU - B-204C | Educational Course - Imaging Breast Imaging II    | 10-AM  | Breast Specific Gamma Imaging  
Presented by: Lillian H Stern, MD, Thomas Jefferson University, Philadelphia, PA, 19148  
Email: doctorlil.stern20@gmail.com |
| WE - A-201C | Educational Course - Imaging Ultrasound II        | 10-AM  | Current US QC Recommendations and Techniques  
Presented by: Dr. Evan J. Boote, PhD, Univ Missouri, Columbia, MO, 65212  
Email: BooteE@missouri.edu |
WE - A-202 - Educational Course - Imaging Radiology/Fluoroscopy III

10-AM - Dose and Image Quality in C-arm CT Rotational Angiography

Presented by: Dr. Rebecca Fahrig, Stanford University, London, ON, N6A 5K8

Email: fahrig@stanford.edu

WE - A-204C - Educational Course - Imaging MRI III

10-AM - Magnetic Resonance Safety and Compatibility Issues at High Magnetic Fields

Presented by: Dr. Geoffrey D. Clarke, PhD, UT Health Sciences Center, San Antonio, TX, 78229

Email: clarkeg@uthscsa.edu

WE - B-201C - Educational Course - Imaging Informatics II

10-AM - CT Dose Reporting

Presented by: Dr. Michael J. Flynn, PhD, Henry Ford Health System, Detroit, MI, 48202

Email: mikef@rad.hfh.edu

10-AM - CT Dose Reporting

Presented by: Dr. Richard L. Morin, PhD, Mayo Clinic, Jacksonville, FL, 32224

Email: morin@mayo.edu

10-AM - CT Dose Reporting

Presented by: Dr. Michael F. McNitt-Gray, PhD, UCLA School of Medicine, Los Angeles, CA, 90025

Email: mmcnittgray@mednet.ucla.edu
WE - B-202 - Educational Course - Imaging Safety/Risk III
10-AM - IAEA Study of Cataract in Staff Working in Catheterization Laboratories
Presented by: Dr. Madan M. Rehani, PhD, International Atomic Energy Agency, Vienna, A-1400
Email: M.Rehani@iaea.org

WE - B-204C - Educational Course - Imaging Breast Imaging III
10-AM - Postron Emission Mammography
Presented by: Lawrence MacDonald, University of Washington, Seattle, WA, 98195
Email: macdon@uw.edu

TH - A-201C - Educational Course - Imaging Multimodality II
10-AM - Registration Methods In Multi-modality Imaging
Presented by: Ankur Kapoor, National Institutes of Health, Bethesda, MD, 20892
Email: kapooran@mail.nih.gov

TH - A-202 - Educational Course - Imaging Radiology/Fluoroscopy IV
10-AM - Risks in IR and Establishing a Patient Safety Program
Presented by: Mr. Aaron K Jones, PhD, UT MD Anderson Cancer Center, Houston, TX, 77030
Email: kyle.jones@di.mdacc.tmc.edu

TH - A-204C - Educational Course - Imaging Computed Tomography III
10-AM - Cone-Beam CT: Principles, Practicalities, and Applications
Presented by: Jeffrey Siewerdsen, Johns Hopkins University, Baltimore, MD, 21205
Email: jeff.siewerdsen@jhu.edu
TH - B-201C - Educational Course - Imaging Radionuclide Imaging III

10-AM - Nuclear Medicine Accreditation, Acceptance Testing and Annual Surveys

Presented by: Mr. James M. Botti, MS, Medical Physics Consultants, Ann Arbor, MI, 48103

Email: jbotti@mpcphysics.com

TH - B-202 - Educational Course - Imaging Safety/Risk IV

10-AM - IAEA Smart Card Initiative for Patient Exposure

Presented by: Dr. Madan M. Rehani, PhD, International Atomic Energy Agency, Vienna, A-1400

Email: M.Rehani@iaea.org

TH - B-204C - Educational Course - Imaging MRI IV

10-AM - Parallel Imaging: Technology, Clinical Applications, and Image Quality Issues

Presented by: Dr. Nathan E Yanasak, PhD, Medical College of Georgia, Augusta, GA, 30912

Continuing Education Courses Symposia - Therapy

MO - A-BRA - Educational Course - Therapy Credentialing for Clinical Trials

10-AM - Credentialing for Clinical Trials

Presented by: Dr. Geoffrey S. Ibbott. PhD, UT MD Anderson Cancer Center, Houston, TX, 77030-4009

Email: gibbett@mdanderson.org

MO - B-203 - Educational Course - Therapy Robotic Brachytherapy

10-AM - Robotic Brachytherapy - Overview of Robotic Brachytherapy Approaches and Synergistic Applications

Presented by: Gabor Fichtinger, PhD, Queen's University, Kingston, ON, K7L 3N6

Email: gabor@cs.queensu.ca
10-AM - Overview of Design and Needle Interaction Related to Robotic Brachytherapy
Presented by: Dr. Michael A. Meltsner, Philips, Fitchburg, WI, 53711
Email: michael.meltsner@philips.com

10-AM - Clinical Implementation of Robotic Systems for Brachytherapy
Presented by: Dr. Tarun Podder, Thomas Jefferson University, Philadelphia, PA, 19107
Email: tarun.podder@jeffersonhospital.org

10-AM - Therapy Robotic Brachytherapy
Question and Answer

MO - B-BRA - Educational Course - Therapy Clinical Implementation and Application of Monte Carlo in Photon and Electron Dose Calculations

10-AM - Clinical Implementation and Application of Monte Carlo in Photon and Electron Dose Calculations
Presented by: Dr. John J. DeMarco, PhD, UCLA, Los Angeles, CA, 90095
Email: jdemarco@mednet.ucla.edu

10-AM - Clinical Implementation and Application of Monte Carlo in Photon and Electron Dose Calculations
Presented by: Dr. Joanna E. Cygler, PhD, The Ottawa Hospital Regional Cancer Ctr., Ottawa, ON, K1H8L6
Email: jcygler@ottawahospital.on.ca

10-AM - Clinical Implementation and Application of Monte Carlo in Photon and Electron Dose Calculations
Question and Answer
TU - A-203 - Educational Course - Therapy QUANTEC and the Clinical Physicist

10-AM - QUANTEC and the Clinical Physicist

Presented by: Dr. Andrew Jackson, PhD, Mem Sloan-Kettering Cancer Ctr, New York, NY, 10021
Email: jacksona@mskcc.org

TU - A-203 - Educational Course - Therapy QUANTEC and the Clinical Physicist

10-AM - QUANTEC and the Clinical Physicist

Presented by: Lawrence B Marks, University of North Carolina - Chapel Hill, Chapel Hill, NC, 27514
Email: marks@med.unc.edu

TU - A-BRB - Educational Course - Therapy Physics and Dosimetry of SBRT

10-AM - Physics and Dosimetry of SBRT

Presented by: Dr. Moyed M. Miiften, PhD, Univ. of Colorado Denver, Aurora, CO, 80045
Email: moyed.miiften@ucdenver.edu

10-AM - Physics and Dosimetry of SBRT

Presented by: Dr Brian Kavanagh, MD, University of Colorado Denver, Aurora, CO, 80045
Email: Brian.Kavanagh@ucdenver.edu

10-AM - Physics and Dosimetry of SBRT

Presented by: Nzhde Agazaryan, UCLA School of Medicine, Los Angeles, CA, 90095
Email: medphysics@gmail.com
TU - B-203 - Educational Course - Therapy QA of Radiation Delivery Systems

10-AM - TG-148 QA for Helical Tomotherapy

Presented by: Dr. Katja M Langen, PhD, MD Anderson Cancer Center Orlando, Orlando, FL, 32806
Email: Katja.Langen@orhs.org

10-AM - QA of Radiation Delivery Systems - TG-135 QA for Robotic Radiosurgery

Presented by: Dr. Sonja Dieterich, PhD, Stanford University Cancer Center, Stanford, CA, 94305
Email: sonja.dieterich@stanford.edu

TU - C-204C - Educational Course - Therapy Introduction to Cancer Biology

10-AM - Basic Cellular and Molecular Biology of Chemoradiotherapy and Molecular Imaging

Presented by: Elaine M. Zeman. Ph.D., UNC School of Medicine, Chapel Hill, NC, 27599-7512
Email: zeman@med.unc.edu

10-AM - PET Imaging of Tumor Hypoxia

Presented by: Dr. John L Humm, PhD, Memorial Sloan-Kettering Cancer Center, New York, NY, 10021
Email: hummj@mskcc.org

10-AM - Combination of Chemotherapy and Radiation Therapy

Presented by: Dr. Adam Dicker, Thomas Jefferson University, Philadelphia, PA, 19107
Email: adam.dicker@jeffersonhospital.org
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<th>WE - A-203 - Educational Course - Therapy X-ray Imaging Dose from IGRT</th>
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<td>10-AM - X-ray Imaging Dose from IGRT</td>
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<tr>
<td>Presented by: Dr. George X. Ding, PhD, Vanderbilt Univ Medical Ctr, Nashville, TN, 37232-5671</td>
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<td>Email: <a href="mailto:george.ding@vanderbilt.edu">george.ding@vanderbilt.edu</a></td>
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<td>10-AM - Single and Hypo-fractionated Stereotactic Irradiation of Brain &amp; Body Lesions</td>
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<tr>
<td>Presented by: Curtis Miyamoto, Temple University Hospital, Philadelphia, PA, 19140</td>
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<tr>
<td>Email: <a href="mailto:Curtis.Miyamoto@tuhs.temple.edu">Curtis.Miyamoto@tuhs.temple.edu</a></td>
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| 10-AM - Single and Hypo-fractionated Stereotactic Irradiation of Brain & Body Lesions            |
| Presented by: Dr. Shidong Li. PhD, Temple University Hospital, Philadelphia, PA, 19140         |
| Email: Shidong.Li@tuhs.temple.edu                                                             |

| 10-AM - Single and Hypo-fractionated Stereotactic Irradiation of Brain & Body Lesions            |
| Presented by: Dr. Michael C. Schell, PhD, Univ Rochester Medical Center, Rochester, NY, 14642   |
| Email: m.c.schell@rochester.edu                                                               |

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<tr>
<th>WE - B-203 - Educational Course - Therapy Small Field Dosimetry</th>
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<td>10-AM - Small Field Dosimetry</td>
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<tr>
<td>Presented by: Dr. Mania M Aspradakis, Cantonal Hospital of Lucerne</td>
</tr>
<tr>
<td>Email: <a href="mailto:maria.aspradakis@ksl.ch">maria.aspradakis@ksl.ch</a></td>
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</tbody>
</table>
10-AM - Small Field Dosimetry
Presented by: Otto A Sauer, PhD, Universität Würzburg, Würzburg, 97080
Email: sauer_o@klinik.uni-wuerzburg.de

10-AM - Modelling of small fields in Treatment Planning Systems
Presented by: Anders Ahnesjö, Ph. D., Uppsala University, Sweden and Nucletron, Sweden
Email: anders.ahnesjo@onkologi.uu.se, anders.ahnesjo@nucletron.com

WE - B-BRB - Educational Course - Therapy Out of Field Dose From Photon Radiotherapy: Magnitude, Evaluation, and Impact
10-AM - Out of Field Dose From Photon Radiotherapy: Magnitude, Evaluation, and Impact
Presented by: Dr. Stephen F Kry, PhD, MD Anderson Cancer Ctr., Houston, TX, 77030
Email: sfkry@mdanderson.org

WE - C-204C - Educational Course - Therapy Error Management and Patient Safety in Radiation Therapy
10-AM - Error Management and Patient Safety in Radiation Therapy
Presented by: Dr. Peter B. Dunscombe, PhD, Tom Baker Cancer Centre, Calgary, AB, T2N 4N2
Email: peterdun@cancerboard.ab.ca

10-AM - Error Management and Patient Safety in Radiation Therapy
Presented by: Dr. James M. Galvin, DSc, Thomas Jefferson Univ Hospital, Philadelphia, PA, 19107-5097
Email: james.galvin@jeffersonhospital.org

10-AM - Error Management and Patient Safety in Radiation Therapy
Presented by: Dr. Steven G. Sutlief, PhD, VA Medical Center, Seattle, WA, 98108-1597
Email: steven.sutlief@med.va.gov
10-AM - Error Management and Patient Safety in Radiation Therapy
Presented by: Mr. Sasa Mutic, MS, Washington University, Saint Louis, MO, 63141
Email: mutic@wustl.edu

10-AM - Error Management and Patient Safety in Radiation Therapy
Presented by: Dr. Eric C Ford, PhD, Johns Hopkins University, Baltimore, MD, 21231
Email: eric.ford@jhmi.edu

10-AM - Error Management and Patient Safety in Radiation Therapy
Presented by: Dr. Bruce R. Thomadsen, PhD, University of Wisconsin, Madison, WI, 53705-2275
Email: thomadsen@humonc.wisc.edu

TH - A-203 - Educational Course - Therapy Treating H&N with IMRT and VMAT

10-AM - Treating H&N with IMRT and VMAT
Moderator: Laurence Edward Court, PhD, Harvard Medical School, Boston, MA, 2115
Email: lcourt@lroc.harvard.edu
Presented by: Ms. Deborah L Schofield, Brigham and Women's Hospital, Boston, MA, 2115
Email: dschofield@lroc.harvard.edu

10-AM - Treating H&N with IMRT and VMAT
Presented by: Dr. Charles S. Mayo, PhD, Mayo Clinic, Rochester, MN, 55905
Email: charles.mayo@umassmemorial.org
TH - A-204B - Educational Course - Therapy SBRT - User Experience

10-AM - SBRT - User Experience

Presented by: Dr. Lech S Papiez, PhD, UT Southwestern Medical Center, Dallas, TX, 75390
Email: lech.papiez@utsouthwestern.edu
Ms. Joanna M. Harper, MSc, Providence Cancer Center, Portland, OR, 97215
Email: joanna.harper@providence.org

TH - A-BRA - Educational Course - Therapy TG-104: In-room kV Imaging for IGRT

10-AM - TG-104: In-Room kV Imaging for IGRT

Presented by: Dr. John W. Wong, PhD, Johns Hopkins University, Baltimore, MD, 21231
Email: jwong35@jhmi.edu

10-AM - TG-104: In-Room kV Imaging for IGRT

Presented by: Dr. David A. Jaffray, PhD, Princess Margaret Hospital, Toronto, ON, M5G 2M9
Email: david.jaffray@rmpuhn.on.ca

10-AM - TG-104: In-Room kV Imaging for IGRT

Presented by: Dr. Fang-Fang Yin, PhD, Duke University Medical Center, Durham, NC, 27710
Email: fangfang.yin@duke.edu

10-AM - TG-104: In-Room kV Imaging for IGRT

Question and Answer
**TH - B-203 - Educational Course - Therapy Uniform Scanning and Energy Stacking with Proton Beams**

10-AM - Uniform Scanning and Energy Stacking with Proton Beams

Presented by: Michael F. Moyers, PhD, consultant, Colton, CA, 92324

Email: MFMoyers@roadrunner.com

10-AM - Uniform Scanning and Energy Stacking with Proton Beams

Presented by: Vladimir Anferov

Email: vanferov@indiana.edu

10-AM - Uniform Scanning and Energy Stacking with Proton Beams

Presented by: Dr Wen C His, PhD, Procure Training Center, Bloomington, IN, 47404

Email: wen.hsi@procure.com

**TH - B-204B - Educational Course - Therapy Advanced Optical Imaging and Tracking Techniques for IGRT**

10-AM - Advanced Optical Imaging and Tracking Techniques for IGRT

Presented by: Dr. Scott W Hadley, PhD, Univ Michigan, Ann Arbor, MI, 48109-5010

Email: swhadley@umich.edu

10-AM - Advanced Optical Imaging and Tracking Techniques for IGRT

Presented by: Dr. Sanford L. Meeks, PhD, M.D. Anderson Cancer Ctr Orlando, Orlando, FL, 32806

Email: sanford.meeks@orhs.org

10-AM - Advanced Optical Imaging and Tracking Techniques for IGRT

Presented by: Dr. Shidong Li, PhD, Temple University Hospital, Philadelphia, PA, 19140

Email: Shidong.Li@tuhs.temple.edu
<table>
<thead>
<tr>
<th>Time</th>
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<th>Presenter</th>
<th>Institution</th>
<th>Email Address</th>
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<tr>
<td>10-AM</td>
<td>Treatment Planning Based On CBCT Images Acquired for On-line Position Verification</td>
<td>Sua Yoo, PhD</td>
<td>Duke University Medical Center</td>
<td><a href="mailto:sua.yoo@duke.edu">sua.yoo@duke.edu</a></td>
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<td>Durham, NC, 27710</td>
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<tr>
<td>10-AM</td>
<td>Treatment Planning Based On CBCT Images Acquired for On-line Position Verification</td>
<td>Dr. Jean Pouliot, PhD</td>
<td>UC San Francisco, San Francisco, CA</td>
<td><a href="mailto:jpouliot@radonc.ucsf.edu">jpouliot@radonc.ucsf.edu</a></td>
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<td>10-AM</td>
<td>Treatment Planning Based On CBCT Images Acquired for On-line Position Verification</td>
<td>Dr Daniel Letourneau, PhD</td>
<td>Princess Margaret Hospital</td>
<td><a href="mailto:daniel.letourneau@rmp.uhn.on.ca">daniel.letourneau@rmp.uhn.on.ca</a></td>
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<td>Toronto, ON, M5G 2M9</td>
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<tr>
<td>10-AM</td>
<td>Treatment Planning Based On CBCT Images Acquired for On-line Position Verification</td>
<td>Dr. Lei Xing, PhD</td>
<td>Stanford Univ School of Medicine</td>
<td><a href="mailto:lei@stanford.edu">lei@stanford.edu</a></td>
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<td>Stanford, CA, 94305-5847</td>
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**Practical**

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<tr>
<td>10-AM</td>
<td>Ultrasound QA/QC Hands-On Workshop</td>
<td>Heather Pierce, CIRS</td>
<td>Norfolk, VA, 23513</td>
<td><a href="mailto:heather@cirsinc.com">heather@cirsinc.com</a></td>
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<tr>
<td>10-AM</td>
<td>QA/QC in Diagnostic Ultrasound Imaging</td>
<td>Dr. James A. Zagzebski, PhD</td>
<td>University of Wisconsin, Madison, WI</td>
<td><a href="mailto:jazagzeb@wisc.edu">jazagzeb@wisc.edu</a></td>
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10-AM - QA/QC of Ultrasound-Guided Radiotherapy
Presented by: Dr. Janelle A. Molloy, PhD, Univ Kentucky, Lexington, KY, 40536
Email: jmo222@email.uky.edu

10-AM - QA/QC for Endorectal Ultrasound Imaging In Prostate Brachytherapy
Presented by: Dr. Steven G. Sutlief, PhD, VA Medical Center, Seattle, WA, 98108-1597
Email: steven.sutlief@va.gov

10-AM - Electronic Ultrasound System Testing Devices
Presented by: G. Wayne Moore, Unisyn Medical Technologies, Longmont, CO, 80503
Email: gwmoore@unisynmedical.com

TU - E-203 - New Member Symposium

10-AM - New Member Symposium
Presented by: Mr. Per H. Halvorsen, MSc, Alliance Imaging/Alliance Oncology, Newton, MA, 2461
Email: phalvorsen@allianceoncology.com

10-AM - New Member Symposium
Presented by: Michael G. Herman, PhD, Mayo Clinic, Rochester, MN, 55905
Email: herman.michael@mayo.edu

10-AM - New Member Symposium
Presented by: Dr. Maryellen L. Giger, PhD, Univ Chicago, Chicago, IL, 60637
Email: m-giger@uchicago.edu
10-AM - New Member Symposium
Presented by: Dr. Daniel A. Low, PhD, Washington University, Saint Louis, MO, 63110
Email: dlow@mednet.ucla.edu

10-AM - New Member Symposium
Presented by: George Starkschall, PhD

10-AM - New Member Symposium
Presented by: Mr. Per H. Halvorsen, MSc, Alliance Imaging/Alliance Oncology, Newton, MA, 2461

WE - C-203 - Workforce Study Report

10-AM - Workforce Study Report
Moderator: Dr. Edward S. Sternick. PhD, Rhode Island Hospital/Brown Medical School, Providence, RI, 2903
Email: esternick@lifespan.org
Presented by: Jean Moore
Email: jmm04@health.state.ny.us

10-AM - Workforce Study Report
Presented by: Margaret Langelier
Email: mhl02@health.state.ny.us

10-AM - Workforce Study Report
Presented by: Gaetano Forte
Email: gjf01@health.state.ny.us
WE - D-BRA - Technical Aspects of SBRT

10-AM - Stereotactic Body Radiotherapy (SBRT): Technical and Clinical Considerations
Presented by: Dr Brian Kavanagh, MD, University of Colorado Denver, Aurora, CO, 80045
Email: Brian.Kavanagh@ucdenver.edu

10-AM - Stereotactic Body Radiotherapy (SBRT): Technical and Clinical Considerations
Presented by: Dr. James M. Balter, PhD, University Michigan, Ann Arbor, MI, 48109-0030
Email: jbalter@umich.edu

10-AM - Stereotactic Body Radiotherapy (SBRT): Technical and Clinical Considerations
Presented by: Dr. Indrin J. Chetty, PhD, Henry Ford Health System, Detroit, MI, 48202
Email: ichetty1@hfhs.org

10-AM - Stereotactic Body Radiotherapy (SBRT): Technical and Clinical Considerations
Presented by: Dr. Timothy D. Solberg, PhD, UT Southwestern Medical Center, Dallas, TX, 75390-9183
Email: timothy.solberg@utsouthwestern.edu

10-AM - Stereotactic Body Radiotherapy (SBRT): Technical and Clinical Considerations
Question and Answer
WE - E-202 - Virtual Simulator CT QA

10-AM - Virtual Simulator CT QA

Presented by: Dr. Alexander Markovic, PhD, Evanston Hospital, Evanston, IL, 60201
Email: alex_medphys@yahoo.com

10-AM - Virtual Simulator CT QA

Presented by: Dr. Guru S. Prasad, PhD, NorthShore University Hospital, Evanston, IL, 60201
Email: gprasad@northshore.org

TH - C-202 - Practical Considerations of PET

10-AM - Positron Emission Tomography Imaging for Radiation Treatment Planning

Presented by: Dr. Andrei B. Pugachev, PhD, Virginia Commonwealth University, Richmond, VA, 23298-0058
Email: andrei127@gmail.com

10-AM - The Use of Novel Radiotracers In PET - Potential Applications for Dose Painting

Presented by: Dr. John L Humm, PhD, Memorial Sloan-Kettering Cancer Center, New York, NY, 10021
Email: hummj@mskcc.org

TH - C-BRA - Applications of Graphics Processing Units (GPUs) in Radiotherapy

10-AM - An Introduction to GPU Computing

Presented by: Mr. Gregory C. Sharp, PhD, Massachusetts General Hospital, Boston, MA, 02114-2696
Email: gcsharp@partners.org
10-AM - Image Registration on GPU
Presented by: Dr. Jinkoo Kim, PhD, Henry Ford Health System, Detroit, MI, 48202
Email: jkim3@hfhs.org

10-AM - GPU-based Cone Beam CT Reconstruction
Presented by: Xun Jia, University of California, San Diego, La Jolla, CA, 92093
Email: xunjia@ucsd.edu

10-AM - Radiation Therapy Dose Calculation using Graphics Processing Units
Presented by: Dr. Todd R McNutt, PhD, Johns Hopkins Medical Institute, Baltimore, MD, 21231-2410
Email: tmcnutt1@jhmi.edu

10-AM - Real-time Re-planning for Online Adaptive Radiotherapy
Presented by: Dr. Steve B. Jiang, PhD, University of California, San Diego, La Jolla, CA, 92093-0843
Email: sbjiang@ucsd.edu

TH - D-203 - Enhancing the Medical Physicist Patient Relationship
10-AM - Enhancing the Medical Physicist Patient Relationship
Presented by: Dr. G. Donald Frey, PhD, Medical University of South Carolina, Charleston, SC, 29425
Email: freyd@musc.edu

10-AM - Enhancing the Medical Physicist Patient Relationship
Presented by: Ms. Anita M Corrao, MS, Rhode Island Hospital, Providence, RI, 2903
Email: acorrao@lifespan.org
10-AM - Enhancing the Medical Physicist Patient Relationship

Presented by: George W. Sherouse, PhD, Vassar Brothers Medical Center, Kingston, NY, 12401

Email: gws@gwsherouse.com k@mcg.edu