



**American Association of Physicists in Medicine  
Midwest Chapter**

**AAPM MIDWEST CHAPTER SPRING MEETING**  
**Saturday, April 16, 2011**  
**University of Phoenix Warrenville Learning Center**  
(Next door to the CDH Procure Proton Center)  
4525 Weaver Parkway  
Warrenville, Illinois

**Schedule of Events**

**8:00 Registration and Coffee**  
**8:30 Welcome and Announcements**  
**Mark Pankuch, PhD**

**Invited Presentation**  
**Moderator: Plato C. Lee, PhD**

**8:45 ACR Accreditation:**  
Patrick Conway, MD  
ACR & Gunderson Lutheran Hospital, La Crosse, WI

**Young Investigator's Symposium**  
**Moderator: Chet Reft, PhD**

**9:45 Motion Management through DMLC Tracking in Volume-modulated Arc Therapy**  
Baozhou Sun, PhD and Dharanipathy Rangaraj, PhD  
Washington University School of Medicine, St. Louis, MO

**10:05 SRS Diode and Diamond Detector Signal Response Correction Factors in a Small Diameter Stereotactic Radiosurgery Fields'**  
Gocha Khelashvili Ph.D., James Chu, PhD., Damian Bernard, PhD., Aidnag Diaz, MD, and Julius Turian PhD.  
Rush University Medical Center, Chicago, Illinois

**10:25 Prognostic Value of Automatically Segmented Lung Volumes During Chemotherapy for Patients with Mesothelioma**  
Zacariah Labby, BS, William Sensakovic, PhD, Anna Nowak, MBBS, PhD, Hedy Kindler, MD, Samuel Armato, III,  
University of Chicago, Chicago, Illinois

**10:45 Coffee Break: Raffle tickets to be distributed!**  
**Scientific Session**  
**Moderator: Alex Markovic, PhD**

**11:15 Theoretical Investigation of the Pencil-Beam Solution from the Fermi-Eyges' Partial Differential Equation**  
Damodar Pokhrel, PhD and Jeffrey F. Williamson, PhD  
Northwestern Memorial Hospital, Chicago, Illinois and Virginia Commonwealth University, Virginia

**11:45 Lunch**

**Scientific Session**  
**Moderator: Alex Markovic, PhD**

**12:45 Challenges of Implementing Lean and Six Sigma Principles in Radiation Therapy (Community) Clinics**  
Dharanipathy Rangaraj, PhD  
Washington University School of Medicine, St. Louis, MO

**1:45 The CDH Proton Therapy Center: An overview of center and our experiences thus far**  
Mark Pankuch PhD, CDH Proton Center: A ProCure Center, Warrenville, Illinois

**2:35 Secondary Neutron Dose Equivalent in a Uniform Scanning Proton Therapy System**  
Draik Hecksel, M.S. CDH Proton Center: A ProCure Center, Warrenville, Illinois

**3:00 Midwest Chapter AAPM Raffle Drawing, Mary Ellen Smajo, PhD, Secretary**

**3:10 Business Meeting, Alex Markovic, PhD, President**

**3:40 Tour of CDH Proton Center Facility**

**4:10 Midwest Chapter AAPM Board Meeting, Alex Markovic, PhD, President**

The Association's Scientific Journal is MEDICAL PHYSICS.

Member Society of the American Institute of Physics and the International Organization of Medical Physics.