



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

**AAPM MIDWEST CHAPTER SPRING MEETING
Saturday, April 18, 2009**

**Midwest Regional Cancer Center
2520 Elisha Avenue, Zion, IL 60099**

Schedule of Events

9:00 Registration and Coffee
9:25 Welcome and Announcements, Yuri Ellis, MS

Young Investigator's Symposium - Moderator: Chet Reft, PhD, Univ. of Chicago

9:30 *Gradient Cumulative Index: A Method of Dose Gradient Evaluation in Radiosurgical Dosimetry*, Robert Laureckas, MS, Rosalind Franklin University, North Chicago, IL

9:45 *Development of a Gated Frameless Stereotactic Radiosurgery/Radiotherapy System with Real-Time 3D Position Monitoring and Adaptive Head Motion Compensation*, Zhifei Wen, University of Chicago

10:00 *An evaluation of the sensitivity of using an ultrasound fusion method for verification of Mammosite Balloon Fill Volume*, Stephanie Haddad, Rosalind Franklin University, North Chicago, IL

10:15 *An efficient computational research tool: Histogram Analysis in Radiation Therapy (HART)*, Anil Pyakuryal, Northwestern Memorial Hospital, Chicago, IL and the University of Illinois at Chicago, Chicago, IL

Open Talk - Moderator: Vythialinga Sathiaseelan, PhD

10:30 *Acceptance testing the new O-arm imaging system*, G. Prasad, PhD

10:50 *Passing of Professor Skaggs announcement*, Chet Reft, PhD

10:55 *Passing of Dr. Arnold Feldman announcement*, Allen Hrejsa, PhD

11:00 Coffee Break

Invited Speaker - Moderator: Alex Markovic, PhD

11:30 *Radiosurgery Using the GammaKnife Perfexion*, Gregg DeVanna, MS

12:20 Business meeting, Vythialinga Sathiaseelan, PhD, President

1:00 Lunch and tour of facilities

2:00

AAPM Midwest chapter board meeting