



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

AAPM MIDWEST CHAPTER FALL MEETING

Saturday, November 5, 2011

University of Chicago Medical Center

Dora Lee Hall, Room L167

5758 S Maryland Avenue

Chicago, Illinois 60637

Schedule of Events

8:00 Registration and Coffee
8:20 Welcome and Announcements
Chester Reft, PhD

Invited Presentation

Moderator: Plato C. Lee, PhD

8:25 Update on AAPM JMWPLSC - Licensure and more
Robert Pizzutiello, MS, FACR, FAAPM, FACMP
Sr. VP Imaging Services, Global Physics Solutions, Inc.
President, Upstate Medical Physics, New York

9:25 Update on IEMA's Rules & Regulations
Wendell M. Hickman, MS
Inspection & Enforcement Section, Bureau of Radiation Safety
IEMA, West Chicago, Illinois

10:25 Coffee Break

Scientific Session

Moderator: Alex Markovic, PhD

10:55 Using the two-peak ratio in TLDs to determine the LET and the separate dose components in a mixed radiation field
Chester Reft, PhD
University of Chicago Medical Center, Chicago, Illinois

11:15 Dual-Energy Subtraction Imaging of the Chest using the Varian On-Board Imager
MA Hoggarth, MS¹, Jason Luce, BGS^{1,2}, Tracy S. Bray, MD¹, Jeffrey Lin, BS¹, Suneel N. Nagda, MD¹, John C. Roeske, PhD¹
¹Loyola University Medical Center, Maywood, Illinois, ²DePaul University, Chicago IL

11:40 Isocenter measurements with EPID-based Winston-Lutz tests
Alistair K Templeton, James CH Chu, Julius V Turian
Rush University Medical Center, Chicago IL

12:05 Business Meeting & Election Results, Alex Markovic, PhD, President

12:25 Lunch

Scientific Session

Moderator: Alex Markovic, PhD

1:30 An automated optimal ROI discovery method for real-time 3D surface image monitoring of head motion
Hyejoo Kang, Ph.D.
University of Chicago/Northwestern Memorial Hospital, Chicago, Illinois

1:50 Fourier-Based Image Registration
Jason Luce, BGS^{1,2}, James Gray, BS², MA Hoggarth, MS², Jeffrey Lin, BS², John Roeske, PhD².
¹ Depaul University, Chicago, Illinois & ² Loyola University Medical Center, Maywood, Illinois

2:15 A New Radiologic Staging System for Rhinosinusitis: Preliminary Results
William F. Sensakovic, PhD¹, Jonathan Garneau², Jayant Pinto, MD², and Samuel G. Armato III, PhD²
¹Rush University Medical Center, Chicago, Illinois & ²University of Chicago Medical Center, Chicago, Illinois

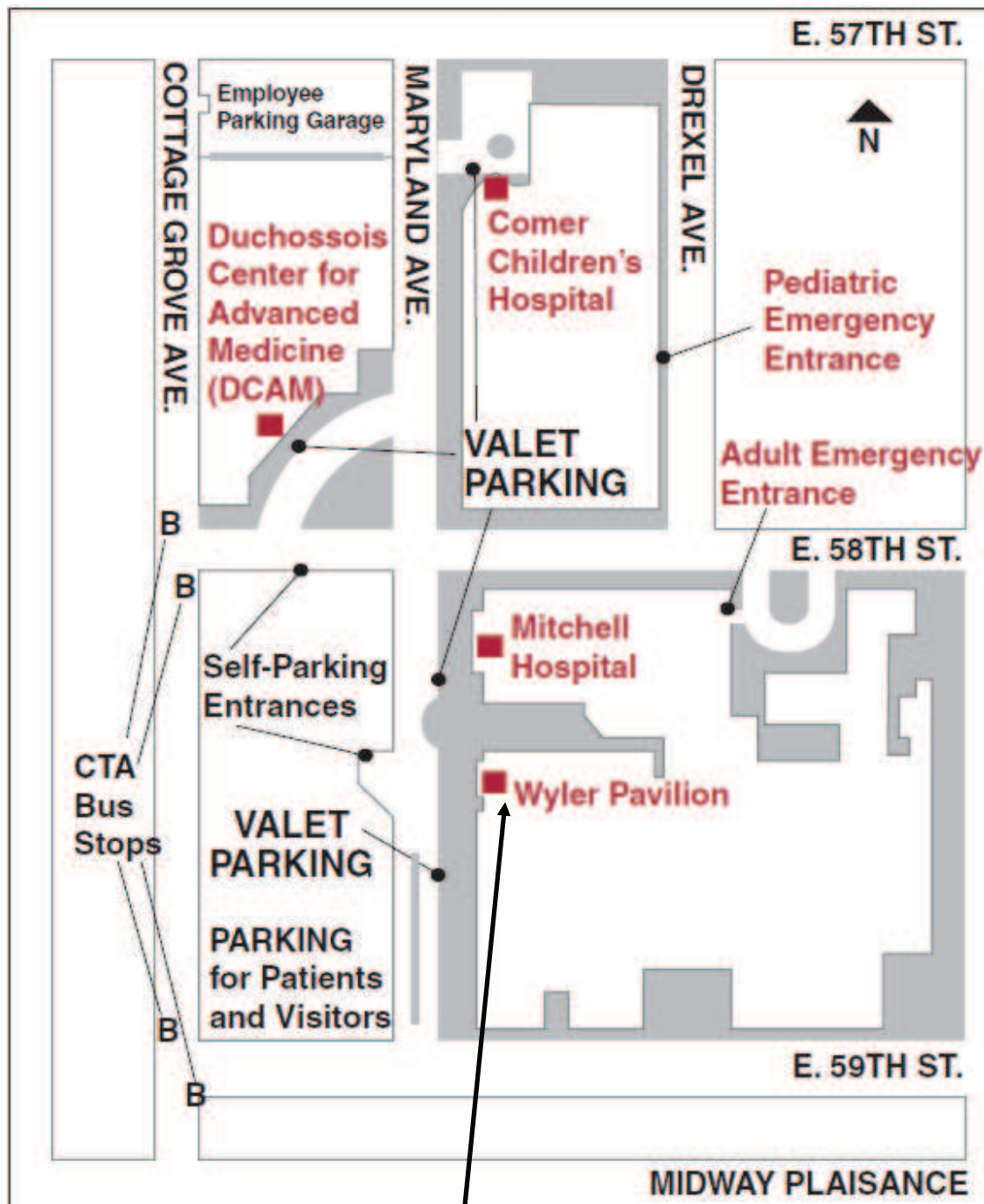
2:35 Quality Assurance and Clinical Implementation of Low kV Intra-Operative Radiation Therapy (IORT) using the Intrabeam System for Low Risk Breast Cancer Patients
Damodar Pokhrel, PhD., James David, MS and Vythialingam Sathiaselam, PhD
Northwestern University Feinberg School of Medicine, Chicago, IL 60611

2:55 Tour of University of Chicago Radiation Oncology Facility

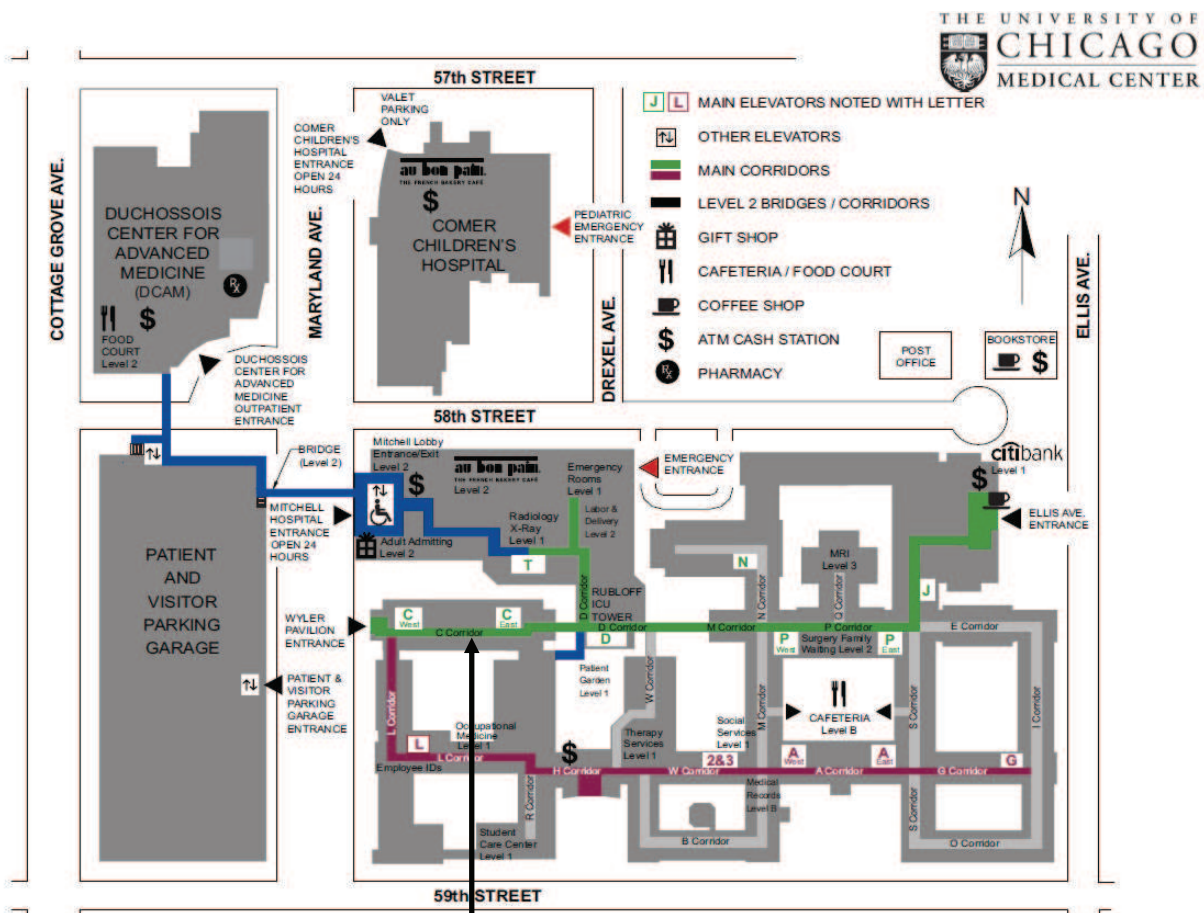
3:25 Midwest Chapter AAPM Board Meeting, Alex Markovic, PhD, President

The Association's Scientific Journal is MEDICAL PHYSICS.

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



The meeting is in Room L168 in the Wyler Pavilion
Parking is available in the garage across from the Wyler Pavilion.
The entrance is on Maryland Ave. Parking vouchers will be available.



Dora Lee Hall
Room L168

Directions By Car

From Lake Shore Drive:

Exit at 57th Drive (the Museum of Science and Industry). Go west and curve around the museum. Take the fourth right onto the Midway Plaisance and go west to the campus.

(About Parking)

From Indiana

Take I-65 N or I-80 W to the Skyway (I-90/94 W). Drive westbound on the Skyway, exiting at Stony Island. Drive north on Stony Island and turn left on 60th Street.

From the Dan Ryan Expressway (I-94):

Exit at Garfield Blvd. (55th St.) and drive east, following the signs for 55th Street through Washington Park. Once you cross over Cottage Grove Avenue, the campus is on your right.

From the Northern Suburbs:

Take I-90/94 to I-55 North to Lake Shore Drive South. Exit at 57th Drive (the Museum of Science and Industry). Go west and curve around the museum. Take the fourth right onto the Midway Plaisance and go west to the campus.

From the Western Suburbs:

Take the Eisenhower Expressway (I-290) to I-90/94 East. Exit on the I-55 North Exit and then to Lake Shore Drive South. Exit at 57th Drive (the Museum of Science and Industry). Go west and curve around the museum. Take the fourth right onto the Midway Plaisance and go west to the campus.

From the Southern Suburbs:

Take the Dan Ryan Expressway (I-94) northbound, exiting at Stony Island Avenue. Drive north on Stony Island to the westbound Midway Plaisance (between 60th and 59th Streets). Turn left onto the Midway Plaisance, and go west to campus. (I-57 travelers: Take I-94 east to reach the Stony Island ramp.)

From the Southwest Suburbs:

Take I-55 N. 5 miles to exit 292B, toward Indiana. Exit onto the Dan Ryan Expressway, continue for 0.6 miles. Merge onto I-90 E. Take exit number 57B towards W. 55th St./Garfield Blvd. Continue for almost a mile, then turn slightly right onto Morgan Drive. Morgan Drive becomes E. 57th Street. Continue down E.57th Street until S. Ellis Ave. Turn right onto S. Ellis Ave. Continue straight to campus.

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Applied for 4.58 MPCEC hours of credit from CAMPEP