RAMPSP Me

RAMPS Radiological and Medical Physics Society of New York, Inc.

Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, New York, NY 10065 (212) 639 - 5855

MEETING ANNOUNCEMENT SAL VACIRCA YOUNG INVESTIGATORS SYMPOSIUM

Hoffman Auditorium (C-186), Memorial Sloan-Kettering Cancer Center, 1275 York Ave, New York, NY

> Tuesday, March 27, 2012 Coffee and Cookies at 6:00 PM Presentations : 6:30 PM – 8:00 PM (10 minutes per presentation: 8+2)

SPEAKERS:

- **1. Bertrand Biritz, Ph.D.- Cornell** Dose planning with ¹⁰⁶Ru eye plaques
- 2. Oleksandr Dzyubak, Ph.D. MSKCC Comparative evaluation of respiratory motion-corrected cone-beam CT images derived from treatment-day vs. simulation-day respiration-correlated CT scans
- **3. Louise Fanchon, M.Sc.- MSKCC** Treatment room activation after 15MV single fraction radiation treatment delivered using a Varian True Beam linear accelerator
- **4. Russell Kincaid, Ph.D. MSKCC** Investigation of gated cone-beam CT to reduce respiratory motion blurring
- **5. Rajesh Regmi, Ph.D. MSKCC** Tracking implanted fiducials using Kilovoltage (kV) projection images: A feasibility study
- 6. Ziad Saleh, Ph.D.- MSKCC A Novel Method for Evaluating Organ Sub-Volume Sensitivity to Irradiation by Deforming 3D Dose Distributions of a Patient Cohort onto an Arbitrarily-Selected "Reference Patient"
- 7. Ming Yan, Ph.D.-MSKCC

Measuring uncertainty in dose delivered to the cochlea due to setup error during external beam treatment of patients with cancer of the head & neck

- 8. Ping Yan, Ph.D.-Columbia Ultrasound-based Diaphragm Tracking Mitigates Respiratory Phase Variance by External Surrogate-based Respiratory Gating System
- 9. Lili Zhou, Ph.D.-Cornell Fast Iterative Cone Beam CT Reconstruction on GPGPU using OpenCL

Educational Objectives: Attendees will learn about the following topics in clinical medical physics:

- 1. ¹⁰⁶Ru eye plaques dose planning
- 2. Respiratory motion-corrected CBCT.
- 3. Linac vault activation from a high dose single fraction treatment with 15MV-X.
- 4. Feasibility of gated CBCT.
- 5. Tracking implanted fiducials using kV images during treatment.

- 6. Evaluating sub-organ radiation sensitivity based on 3D dose distributions.
- 7. Uncertainty in dose delivery for H&N patients due to setup error.
- 8. Using an US-based diaphragm tracking system for gating.
- 9. Fast iterative CBCT reconstruction algorithms.

RAMPS Board Meeting: 5-6PM, MSKCC: S-1132 (Schwartz Building) -- All members are welcome to attend.

Dinner at a nearby restaurant @ 8:30PM, \$20 for everyone, free for the speakers.

Note: 1.5 MPCEC was applied to CAMPEP.



By Subway

Take the #6 train to East 68th Street. Walk four blocks east to First Avenue, or take the M66 bus eastbound to First Avenue.

By Bus

- Take the M31 to the East 67th Street stop, directly in front of Memorial Hospital. (The M31 operates north and south on York Avenue, and across town on 57th Street.)
- Take M15 north bound to First Avenue and 67 Street stop.
- Take M15 south bound to Second Avenue and 68 Street. Walk one block east to First Avenue.

By Car

• Approaching from South of East 68th Street, take the FDR Drive northbound to the 61st Street exit. Make right onto York Avenue and go north to 68th Street.

• Approaching from North of East 68th Street, take the FDR Drive southbound to the 71st Street exit. Make left onto York Avenue and go south to 68th Street.