** RAMPS**

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

Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, New York, NY 10065

(212) 639 - 5169

**MEETING ANNOUNCEMENT**

**Image Reconstruction in PET and SPECT:**

**Past, Present and Future**

*SPEAKER:*

***Ross Schmidtlein, PhD***

Department of Medical Physics
Memorial Sloan-Kettering Cancer Center
New York, NY

**Memorial Sloan-Kettering Cancer Center**

**Room RRL-116**

**430 East 67th Street (Lobby Level), New York, NY**

**Monday, September 28, 2015**

**Coffee and Cookies at 6:00 PM**

**Presentation Commences at 6:30 PM**

**Educational Objectives:**

1. Understand the data acquisition equation in PET and SPECT imaging, including:
	1. data structure
	2. additive Noise
	3. system operator (matrix)
2. Examine the methods used to invert the data acquisition equation:
	1. Analytical methods
	2. Maximum-likelihood methods
	3. Penalized-likelihood
3. Discuss the challenges in penalized-likelihood image reconstruction.
4. Explain the role of sparse representation in imaging.
5. Discuss the future trends in image reconstruction.

RAMPS Board Meeting: 5:00-6:00PM, MSKCC: Library S-1134B (Schwartz Building). All members are welcome to attend.

Dinner at nearby restaurant @ 8:00PM, $25 pre-paid via PayPal ($30 at the door) for everyone, free for the speaker.

CAMPEP credits: 1.0 MPCEC hours 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 York 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 two blocks east to York 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.
* Approaching from North of East 68th Street, take the FDR Drive southbound to the 71st Street exit. Make left onto York Avenue.