

# THE JOHN LAWRENCE SEMINARS



## "LOWER-COST ULTRAHIGH-RESOLUTION PET/CT DEVELOPMENT AND CLINICAL COMMERCIALIZATION"

**WAI-HOI (GARY) WONG, PH.D.**  
**M.D. ANDERSON CANCER CENTER**

The intrinsic image resolution of clinical PET/CT has been in the 4.5-6 mm range for the last 2 decades. PET/CT with ultrahigh resolution of 1.5-2.0 mm has been achieved in the preclinical micro-PET systems, but the ultrahigh-resolution micro-PET technology has not been extended to the large clinical PET/CT, due to high cost. Affordable ultrahigh-resolution clinical PET/CT and lower-cost preclinical PET/CT have been achieved recently, using the same low-cost design platform. These are demonstrated in the preclinical and clinical PET/CT systems that we developed, achieving 2.7-mm and 1.2-mm image resolution respectively (FBP). The design, engineering, production engineering, and performance of these systems will be presented. The clinical PET/CT system has been commercialized in 2014, and the results from patient studies will be presented.

**TUES., OCT. 13<sup>TH</sup>**  
**4:00 P.M.**

**717 POTTER STREET**  
**ROOM 141**  
**BERKELEY LAB**

**HOST:**  
**WOON-SENG CHOONG**

Schedule of Seminars: [lsd.lbl.gov/News\\_&\\_Events/seminars.html](http://lsd.lbl.gov/News_&_Events/seminars.html)  
Non-LBNL attendees: please RSVP to [FGuagliardo@lbl.gov](mailto:FGuagliardo@lbl.gov) or 510-486-6490