

**NTROI Retreat—June 2, 2005**  
**Hyatt Regency Newport Beach, CA**  
**Garden/Garden Room I**

**4:00-5:30pm**      **Garden Reception and Poster Viewing**

**5:30-6:30pm**      **Dinner**

**Introductory Comments Bruce Tromberg**

6:45-7:15pm:      **Simultaneous Bilateral Breast Imaging with DYNOT**, Randall Barbour, SUNY  
Downstate Medical Center

7:15-7:45pm:      **Optical Transillumination, a new tool for breast cancer risk assessment and  
intervention monitoring?** Lothar Lilge, Division of Biophysics and Bioimaging,  
Ontario Cancer Institute

**NTROI Retreat—June 3, 2005**  
**Hyatt Regency Newport Beach, CA**  
**Plaza I/Plaza Arbor**

**7:30-8:00am: Continental breakfast**

**Translational Chair— Bruce Tromberg**

8:15-8:45am: **Update on Dartmouth Clinical Trial "Summary of Multispectral NIR Properties observed in Breast Lesion Imaging and Correlation to Pathology**, K. Paulsen, Thayer School of Engineering, Dartmouth College

8:45-9:15am: **Combined Diffuse Optical Spectroscopy and Magnetic Resonance Imaging**, N. Shah, Beckman Laser Institute, University of California, Irvine

9:15-9:45am: **Six year survey of human breast cancer detection by intrinsic and extrinsic signals: Detection of intrinsic signals with high ROC/AUC by a handheld breast cancer detector** B.Chance, S. Nioka, University of Pennsylvania

**9:45-10:00am: Coffee Break and Poster Viewing**

10:00-10:30am: **3D Diffuse optical tomography of Neoadjuvant chemotherapy monitoring**, Regine Choe, A. Corlu, K. Lee, S. D. Konecky, T. Durduran, A. DeMichele, M. A. Rosen, B. Chance, A. G. Yodh, University of Pennsylvania

10:30-11:00am: **Time-Domain Optical Mammography SoftScan®: Initial Results**, X. Intes, PhD, S. Djeziri, PhD, Z. Ichalalene, MSc, N. Mincu, PhD, Y. Wang, PhD, P. St-Jean, PhD, F. Lesage, PhD, D. Hall, PhD, D. Boas, PhD, M. Polyzos, RN, D. Fleiszer, MD, B. Mesurolle, MD. ART, Advanced Research Technologies Inc.

11:00-11:30am: **Update on Broadband DOS Spectra of Breast Tumors and the Origins of Optical Contrast**, Albert Cerussi

**Computation Chair— Keith Paulsen**

11:30am-12:00pm: **Update on Software core: Direct comparison of Spectral and Spatial Priors, Spectral Priors are more important**, Subhadra Srinivasan, Dartmouth College

**12:00-1:00pm: Lunch and Poster Viewing**

1:00-1:30pm: **Improving Spectral, Temporal and Contrast-based methods for tomography**, Brian Pogue, Dartmouth College (Update on new reconstruction methods ongoing related to the network)

1:30-2:00pm: **Quantitative Spectroscopic Diffuse Optical Tomography Guided by Imperfect A Priori Structural Information**, David Boas Group Harvard Medical School Massachusetts General Hospital

2:00-2:30pm:

**A Software platform for multi-modal information integration & visualization:  
Diffuse Optical Tomography and MRI of Breast Cancer** Fred Azar, Siemens  
Corporate Research

**NTROI Retreat—June 3, 2005 (cont'd)**  
**Hyatt Regency Newport Beach, CA**  
**Plaza I/Plaza Arbor**

**2:30-3:00pm: Coffee Break and Poster Viewing**

**Instrumentation: Chair— Enrico Gratton**

**3:00-3:30pm: Data Management for NTROI Multi-institutional Collaboration: Progress Report**  
Fusheng Wang, Peiya Liu, Fred Azar, John Pearson, Siemens Corporate Research

**3:30-4:00pm: Dynamic compression of breast tissue: characterizing the changes in total hemoglobin concentration and oxygenation**, David Boas Group Harvard Medical School Massachusetts General Hospital

**4:00-4:30pm: Design and implementation of a multi-frequency diffuse optical tomography system (MF-DOT) system compatible with MRI**, Gultekin Gulsen, University of California, Irvine

**4:30-5:00pm: Physiological changes in the brain detected by a ultrafast-broadband spectral detector** Enrico Gratton, University of Illinois, Urbana-Champaign

**6:00pm: Dinner**

**NTROI Retreat—June 4, 2005**  
**Hyatt Regency Newport Beach, CA**  
**Plaza I/Plaza Arbor**

**8:30-10:00am: Continental breakfast and Poster Viewing**

8:30-10:00am: Executive Committee Meeting

10:00-11:30am: Corp Advisory Board and Executive Committee Meeting

**11:30am-12:30pm: Lunch and Wrap up**

Poster Breakdown