



8th Annual COT Open House

Workshop A – Optical Biosensors

Tuesday, 6 October 2009
Rauch Business Center, Room 91

- 8:15am** **Registration / Continental Breakfast**
- 8:45am** **Start and Brief Introduction to the Workshop**
- 9:00am** **Christian Sandmann, Becton, Dickinson and Company**
“Novel In-Vitro and In-Vivo Optical Biosensing Technologies”
- 9:45am** **Benjamin Miller, Department of Dermatology, University of Rochester**
“Using Arrayed Imaging Reflectometry for Label-Free Immune Response Monitoring and Viral Infection Surveillance”
- 10:30am** **Break (30 Minutes)**
- 11:00am** **Daniel Ou-Yang, Department of Physics, Lehigh University**
“Optofluidic Nanoparticle Detection”
- 11:30am** **Qiaoqiang Gan, Department of Electrical and Computer Engineering, Lehigh University**
“Plasmonic Mach-Zehnder Interferometer and Its Potential for Sensitive Optical Sensing”
- 12:00pm** **Lunch Break & Posters (60 Minutes)**
- 1:00pm** **Siegfried Janz, Institute for Microstructural Sciences, National Research Council of Canada**
“Silicon Photonic Wire Sensors Evanescent Field Sensors: From Sensor to Biochip Array”
- 1:45pm** **Cary Gunn, CTO and Founder, Genalyte Inc.**
“A Robust Silicon Photonic Platform for Multiparameter Biological Analysis”
- 2:30pm** **Break (30 Minutes)**
- 3:00pm** **Carlos Lopez, Department of Electrical & Computer Engineering, Boston University**
“Optical Biosensor and Surface Functionalization Technologies”
- 3:45pm** **Thomas Koch, Departments of Electrical and Computer Engineering & Physics, Lehigh University**
“Designs for Potential Sensitivity Improvements in Silicon Photonic Biosensors”
- 4:15 pm** **Closing Remarks and Adjournments**