



8th Annual COT Open House

Workshop B – Nanophotonics

Tuesday, 6 October 2009
Rauch Business Center, Perella Auditorium

- 8:00am** **Registration / Continental Breakfast**
- 8:30am** **Start and Brief Introduction to the Workshop**
- 8:35am** **Nanophotonics and New Applications**
- 8:35 am-9:20 am
 Dr. Mark Webster (Lightwire, Inc.)
 Advances in Silicon Photonics
- 9:20 am-9:40 am
 Ravi Tummidu (Lehigh University)
 Spontaneous Emission Enhancement in Slot Waveguide Silicon Light-Emitting Diodes
- 9:40am-10:00 am
 Prof. Ivan Biaggio (Lehigh University)
 Hybrid Organic and Inorganic Nanophotonics
- 10:00am-10:45 am
 Prof. P.-C. Ku (University of Michigan-Ann Arbor)
 Nanostructured Semiconductor Light Sources
- 10:45am** **Break (30 Minutes)**
- 11:15am** **Material and Substrate Technology for Energy Applications (Part I)**
- 11:45am-12:15 pm
 Dr. Keith Evans (Kyma Technologies Inc.)
 Gallium Nitride Substrates and Templates for III-N LED Applications
- 12:00pm** **Lunch Break and Poster Session (60 Minutes)**
- 1:00pm** **Material and Substrate Technology for Energy Applications (Part II)**
- 1:00pm-1:45 pm
 Dr. Scott Zimmerman (Goldeneye Inc.)
 Flexible GaN Substrate for Energy Applications
- 1:45pm-2:30 pm
 Dr. Dong S. Lee (VEECO Instruments Inc.)
 MOCVD Epitaxy Technology for Solid State Lighting and Solar Applications
- 2:30pm** **Break (30 Minutes)**
- 3:00pm** **Novel Device Concepts in Solid State Lighting Technologies**
- 3:00pm-3:45 pm
 Dr. Jonathan J. Wierer (Sandia National Labs)
 Light Generation and Extraction in III-Nitride Light-Emitting Diodes
- 3:45pm-4:05 pm
 Yik-Khoon Ee (Lehigh University)
 Colloidal-Based Approaches for Light Extraction Efficiency Enhancement in Nitride LEDs
- 4:05pm-4:25 pm
 Hongping Zhao (Lehigh University)
 Novel Quantum Well Structures for High-Efficiency Green LEDs
- 4:30pm** **Lab Tour (MOCVD, Cleanroom, and Electron Microscopy Laboratories)**
- 5:00 pm** **Closing Remarks and Adjournments**