

## MTL SEMINAR SERIES

MTL hosts a series of talks each semester known as the MTL Seminar Series. Speakers for the series are selected on the basis of their knowledge and competence in the areas of microelectronics research, manufacturing, or policy. The series is held on the MIT Campus during the academic year on Tuesdays at 4:00 pm. The seminar series is open to the public. A listing of recent seminars is also provided at <http://mtlweb.mit.edu>.

Streaming videos of the series are available online exclusively to individuals whose companies are members of the Microsystems Industrial Group at MTL. For more information regarding the MTL Seminar Series, send e-mail to [valeried@mit.edu](mailto:valeried@mit.edu).

### Fall 2008

September 30  
Lakshminarayan Srinivasan, Ph.D; Massachusetts General Hospital  
**Fast responses without false starts: Dorsal anterior cingulate cortex in simple reactive behavior**

October 7  
Alyssa Apsel, Ph.d, Cornell University  
**Mixed Signal Electronics in a Digital Environment**

October 21  
Dr. Umesh Mishra, UCSB  
**Could Gallium Nitride and Silicon be the dominant semiconductors in the future?**

October 28  
Dr. Martin Izzard, Texas Instruments  
**Gaining Focus: Developing an "Applications-Oriented" Approach to Multicore Processor Architectures**

November 4  
Dr. Mark Pinto, Applied Materials  
**Has The Sun Finally Risen on Photovoltaics?**

November 18  
Mondira Pant, Ph.D, Intel  
**Challenges in avoiding an unruly power grid in microprocessors**

November 18  
Marc Baldo, MIT  
**Excitonics**

December 9  
Polina Anikeeva  
**MTL Doctoral Dissertation Seminar: Physical Properties and Design of Light-Emitting Devices Based on Organic Materials and Nanoparticles**

### Spring 2009

February 4  
Stephen Senturia, Professor Emeritus, MIT; Chairman and CTO, Polychromix  
**Peanuts vs. Pyramids: Two Perspectives on MEMS**

March 3  
Beth Pruitt, Assistant Professor of Mechanical Engineering, Stanford University  
**Microsystems and Mechanotransduction**

March 31  
Susanne Paul, Black Sand Technologies  
**Class P Architectures in Linear 3G CMOS Power Amplifiers**

April 7  
David Arnold, University of Florida  
**Micromagnets for Microsystems**

April 14  
Subhasish Mitra  
**Robust System Design in Scaled CMOS and Emerging Nanotechnologies**

April 28  
Julia Greer, California Institute of Technology  
**Mechanical Properties of Materials at Nanoscale**

May 5  
Christoph Lang, Bosch Research & Technology Center  
**MEMS Sensors**

May 12  
Soumyajit Mandal  
**MTL Doctoral Dissertation Seminar: Collective Analog Bioelectric Computation**