

Section 10
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 MTL Seminar Series is held on the MIT Campus on Tuesdays at 4:00 pm, and is open to the public. A listing of recent seminars is also provided at <http://mtlweb.mit.edu>. Streaming videos of the MTL Seminar Series are available online exclusively to individuals whose companies are members of the Microsystems Industrial Group (MIG) at MTL. For information regarding the MTL Seminar Series, send e-mail to rmaynard@mtl.mit.edu.

fall 2006

September 12, 2006

The Past, Present, and Future of Data Converters and Mixed Signals: A Universal Model

David Robertson, Analog Devices

September 26, 2006

Wafer Cleaning in Semiconductor Manufacturing: The Single-Wafer Inflection Point

John TC Lee, Applied Materials

November 14, 2006

"Brain Repair 101" for Electrical Engineers

Timothy Denison, Medtronic Neurological Technologies

December 5, 2006

Overview of Communication Technology Research at IBM

Mehmet Soyuer, IBM

December 12, 2006

Extended Drain CMOS Devices in Sub-100nm Processes Enabling High-performance Mixed-signal and Direct Battery Connection Analog Blocks

Baher Haroun, Texas Instruments

February 27, 2007

An Introduction to Ultra-High Speed Data Conversion

Gabriele Manganaro, National Semiconductor

March 6, 2007

High Mobility III-V MOSFET Technology

Matthias Passlack, Freescale Semiconductor

March 13, 2007

Why Are We So Interested in Carbon Nanotubes?

Mildred Dresselhaus, MIT

April 3, 2007

Unconventional Nanofabrication: Nanosciving, Crack Replication, and Related Techniques

George Whitesides, Harvard University

April 10, 2007

Trends and Requirements of Future CMOS FETs Based on a Simple Physical Device Model

Dimitri Antoniadis, MIT

April 24, 2007

Nanoscale CMOS Transistor Scaling Challenges and Strategy for High-Performance Low-Power Logic Technology

Tahir Ghani, Intel

May 1, 2007

MEMS at the Knee of the Curve

Roger Howe, Stanford University

May 15, 2007

MTL Doctoral Dissertation Seminar

Lane Brooks, MIT

spring 2007