

**ENEE 698e Graduate Seminar: Microelectronics**  
**Tu 5:00 – 6:00 Room AVW 2328**

Tu 01/31/06 Organize	Tu 02/07/06 Assemble papers for next talks
Tu 02/14/06 Title: Quantum Chaos for high power system Speaker: Sameer Hemmady Commentator: Sepehr Morshed	Tu 02/21/06 Title: Radiation Effects in SOI MOSFETs Speaker: Jean-Marie Lauenstein Commentator: Siddharth Potbhare
Tu 02/28/06 1 <sup>st</sup> Title: Programmable Log-Domain Filter 1 <sup>st</sup> Speaker: Patrick McAvoy 1 <sup>st</sup> Commentator: Ejiofor Odo 2 <sup>nd</sup> Title: Biomorphic Digital Image Sensor 2 <sup>nd</sup> Speaker: David Sander (1 <sup>st</sup> talk) 2 <sup>nd</sup> Commentator: Ruirui Gu	Tu 03/07/06 1 <sup>st</sup> Title: CMOS current comparator 1 <sup>st</sup> Speaker: Ejiofor Odo 1 <sup>st</sup> Commentator: Patrick McAvoy 2 <sup>nd</sup> Title: Ultra Wideband Technology 2 <sup>nd</sup> Speaker: Siddharth Potbhare 2 <sup>nd</sup> Commentator: Thomas Salter (1 <sup>st</sup> )
Tu 03/14/06 1 <sup>st</sup> Title: VCSEL's 1 <sup>st</sup> Speaker: Sepehr Morshed 1 <sup>st</sup> Commentator: Thomas Salter (2 <sup>nd</sup> ) 2 <sup>nd</sup> Title: Scalable Beamforming for real-time 3D ultrasonic imaging using nonuniform sampling 2 <sup>nd</sup> Speaker: Omkar Dandekar (1 <sup>st</sup> talk) 2 <sup>nd</sup> Commentator: Sambarta Rakshit (1 <sup>st</sup> )	Tu 03/21/06  Spring Recess
Tu 03/28/06 1 <sup>st</sup> Title: AER cont. 1 <sup>st</sup> Speaker: David Sander (2 <sup>nd</sup> talk) 1 <sup>st</sup> Commentator: Jean-Marie Lauenstein 2 <sup>nd</sup> Title: Micro-Total-Analysis Systems 2 <sup>nd</sup> Speaker: Marc Dandin (1 <sup>st</sup> talk) 2 <sup>nd</sup> Commentator: David Sander (1 <sup>st</sup> )	Tu 04/04/06 1 <sup>st</sup> Title: Ultra Low Power Transceiver:Receiver 1 <sup>st</sup> Speaker: Thomas Salter (1 <sup>st</sup> talk) 1 <sup>st</sup> Commentator: Omkar Dandekar (1 <sup>st</sup> ) 2 <sup>nd</sup> Title:Single Photo Source using MIS structure 2 <sup>nd</sup> Speaker: Binhui Hu 2 <sup>nd</sup> Commentator: Netsanet Gebeyehu
Tu 04/11/06 1 <sup>st</sup> Title:Ultra Low Power Transceiver:Transmitter 1 <sup>st</sup> Speaker: Thomas Salter (2 <sup>nd</sup> talk) 1 <sup>st</sup> Commentator: Omkar Dandekar (2 <sup>nd</sup> ) 2 <sup>nd</sup> Title: Stress in Floating Gate Memories 2 <sup>nd</sup> Speaker: Sambarta Rakshit (1 <sup>st</sup> talk) 2 <sup>nd</sup> Commentator: Marc Dandin (1 <sup>st</sup> )	Tu 04/18/06 1 <sup>st</sup> Title: VLSI Implementation of water marking 1 <sup>st</sup> Speaker: Jun Yong Shin 1 <sup>st</sup> Commentator:Yin-Chen Shaw 2 <sup>nd</sup> Title:Micro-Total-Analysis Systems(cont.) 2 <sup>nd</sup> Speaker: Marc Dandin (2 <sup>nd</sup> talk) 2 <sup>nd</sup> Commentator: Binhui Hu
Tu 04/25/06 1 <sup>st</sup> Title: Mapping Deep Nested Do-loop DSP Algorithms to FPGA Array Structure 1 <sup>st</sup> Speaker: Yin-Chen Shaw 1 <sup>st</sup> Commentator: Jun Yong Shin 2 <sup>nd</sup> Title: Ultrasonic Imaging and Beam Forming 2 <sup>nd</sup> Speaker: Omkar Dandekar (2 <sup>nd</sup> talk) 2 <sup>nd</sup> Commentator: Sambarta Rakshit (2 <sup>nd</sup> )	Tu 05/02/06 1 <sup>st</sup> Title: Optical Interconnects 1 <sup>st</sup> Speaker: Netsanet Gebeyehu 1 <sup>st</sup> Commentator: Sameer Hemmady 2 <sup>nd</sup> Title: Circuit Techniques for 1.8V NAND FLASH Memory 2 <sup>nd</sup> Speaker: Sambarta Rakshit (2 <sup>nd</sup> talk) 2 <sup>nd</sup> Commentator: Marc Dandin (2 <sup>nd</sup> )
Tu <b>05/09/06</b> Last class Title: Hardware Implementation of Sensor Networks Speaker: Ruirui Gu Commentator: David Sander (2 <sup>nd</sup> )	