

ENEE 698E Fall 2007 Graduate Seminar: Microelectronics Time Schedule  
 Tu 17:00-17:50; AVWilliams 2328 (ECE Seminar Room)

Tuesday 09/04/07	Tuesday 09/11/07
Organize; Set dates for student presentations Topic: Commentator:	Finalize dates, topics, for student presentations Topic 1: Nanotube FETs Presenter: Saeed Esmaili (1 <sup>st</sup> talk) Commentator: Pape Sylla (1 <sup>st</sup> )
09/18/07 Topic 1: Integrating nerve cells and semiconductor chips Presenter: Todd Finkler (1 <sup>st</sup> talk) Commentator: Weiwei Shan Topic 2: Presenter Commentator:	09/25/07 Topic 1: Si chip interfaced with snail neurons Presenter: Todd Finkler (2 <sup>nd</sup> talk) Commentator: Elliott Cooper-Balis Topic 2: Polarization insensitive cross correlation in Si photodiode Presenter: Pape Sylla (1 <sup>st</sup> talk) Commentator: Todd Finkler (1 <sup>st</sup> )
10/02/07 Final paper choice Topic 1: VLSI implementation of fuzzy logic controller Presenter: Weiwei Shan Commentator: Pape Sylla (2 <sup>nd</sup> )	10/09/07 Topic 1: CMOS technology characterization for analog and RF design Presenter: Kyungjin Yoo (1 <sup>st</sup> talk) Commentator: Sang-Kyo Han (1 <sup>st</sup> ) Topic 2: Two photon absorption in optical clock recovery Presenter: Pape Sylla (2 <sup>nd</sup> talk) Commentator: Saeed Esmaili (1 <sup>st</sup> )
10/16/07 Topic 1: Low power circuits for cryptography in embedded systems Presenter: Bobba, Rakesh Commentator: Vladimir Ivanov Topic 2: Suppressing WLAN signals in UWB receivers Presenter: Li Bo Commentator: Bobba, Rakesh	10/23/07 Topic 1: MEMS gas sensor Presenter: Elliott Cooper-Balis Commentator: Todd Finkler (2 <sup>nd</sup> ) Topic 2: PLL frequency synthesizers Presenter: Vladimir Ivanov Commentator: Li Bo
10/30/07 Topic 1: Characterization of Si device at cryogenic temp. Presenter: Kwangsik Choi Commentator: Sang-Kyo Han (2 <sup>nd</sup> ) Topic 2: Measuring the gap between FPGAs and ASICs Presenter: Sang-Kyo Han (1 <sup>st</sup> talk) Commentator: Kwangsik Choi	11/06/07 Topic 1: Tin based absorbers for Infrared detection part 1 Presenter: Justin Markunas (1 <sup>st</sup> talk) Commentator: Nathan Siwak Topic 2: Oxygen sensing characteristics of ZnO nanowire transistors Presenter: Saeed Esmaili (2 <sup>nd</sup> talk) Commentator: Karandeep Singh (1 <sup>st</sup> )
11/13/07 Topic 1: 3D Die-stacked microprocessor Presenter: Meng-Ju Wu Commentator: Karandeep Singh (2 <sup>nd</sup> ) Topic 2: True random number generator with digital circuit Presenter: Karandeep Singh (1 <sup>st</sup> talk) Commentator: Justin Markunas (1 <sup>st</sup> )	11/20/07 Topic 1: Leakage power analysis of a 90nm FPGA Presenter: Sang-Kyo Han (2 <sup>nd</sup> talk) Commentator: Kyungjin Yoo (1 <sup>st</sup> ) Topic 2: Design consideration for future RF circuits Presenter: Kyungjin Yoo (2 <sup>nd</sup> talk) Commentator: Jui-Ping Chiang
11/27/07 Topic 1: InP MEMs optical waveguide Presenter: Nathan Siwak Commentator: Justin Markunas (2 <sup>nd</sup> ) Topic 2: Tin based absorbers for Infrared detection part 2 Presenter: Justin Markunas (2 <sup>nd</sup> talk) Commentator: Saeed Esmaili (2 <sup>nd</sup> )	12/05/07 Topic 1: Biomolecular charge based sensor with carbon nanotube transistor arrays Presenter: Jui-Ping Chiang Commentator: Kyungjin Yoo (2 <sup>nd</sup> ) Topic 2: Si NanoDevices: physical random number generators Presenter: Karandeep Singh (2 <sup>nd</sup> talk) Commentator: Meng-Ju Wu
12/11/07 Last day of semester classes Topic 1:	