

## ENEE 698E Fall 2003 Graduate Seminar: Microelectronics Time Schedule

Tu 17:00-17:50; AVW 2328 (Seminar Room)

Tuesday	Tuesday
<p>09/02/03</p> <p>Organize; Set dates for student presentations Guest Speaker: Dr. Jeffrey Frey Topic: Patents 101</p>	<p>09/09/03</p> <p>Finalize dates, topics, for student presentations Topic 1: 300MS/s D/A Converter in Logic CMOS Presenter: Eric L. Tan (1<sup>st</sup>) Commentator: Afshin Sepehri (1<sup>st</sup>) Topic 2: Source Coupled CMOS Multivibrator Presenter: Jonah Pezeshki Commentator: Amit Juneja</p>
<p>09/16/03</p> <p>Topic 1: Time-Frequency Acoustic Processing Presenter: Amit Juneja Commentator: Jonah Pezeshki Topic 2: Design of a Neural Optimization Circuit Presenter: Fuat Keceli Commentator: Li-Chiang Kuo (1<sup>st</sup>) Topic 3: Folded Cascode CMOS OpAmp Presenter: Xinhua He Commentator: Weixin Kong (1st)</p>	<p>09/23/03</p> <p>Topic 1: Translinear Log-Domain Filters Presenter: Eric L. Tan (2<sup>nd</sup>) Commentator: Yves T. Ngu (1<sup>st</sup>) Topic 2: Sum Addressed Memory Cache Presenter: Afshin Sepehri (1<sup>st</sup>) Commentator: Alireza Modafe</p>
<p>09/30/03</p> <p>Final paper choice Topic 1: Micropower Log-Domain Filter Presenter: Yijie Huo Commentator: Yiming Zhai Topic 2: Generalized Translinear Principles Presenter: Yiming Zhai Commentator: Yijie Huo Topic 3: Prescription Chips Presenter: Rajasekhar Jammalamadaka Commentator: Svetlana Radosavac</p>	<p>10/07/03</p> <p>Topic 1: Properties of InAs/GaSb Heterosystem Presenter: Arun S. Mampazhy (1<sup>st</sup>) Commentator: Li-Chiang Kuo (2nd) Topic 2: Low-Voltage CMOS Current Mode Op-Amps Presenter: Xuanhua Li Commentator: Fang Liu Topic 3: Issue Logic for Execution Microprocessor Presenter: Aamer Jaleel Commentator: Akshay K. Naik (1<sup>st</sup>)</p>
<p>10/14/03</p> <p>Topic 1: InAs/GaSb Quantum Well FETs Presenter: Arun S. Mampazhy (2<sup>nd</sup>) Commentator: Eric L. Tan (1st) Topic 2: Dynamic V Scaled Microprocessor System Presenter: Nuengwong Tuaycharoen (1<sup>st</sup>) Commentator: Aimaschana Niruntasukrat (1<sup>st</sup>) Topic 3: Electromigration Damage in Al Interconnect Presenter: Nahan A. Moody Commentator: Justin Teller Topic 4: Filtering to Lower LC Oscillator Phase Noise Presenter: Weixin Kong (1st) Commentator: Xinhua He</p>	<p>10/21/03</p> <p>Topic 1: Linear Transconductor Presenter: Dong H. Park Commentator: Arun S. Mampazhy (1<sup>st</sup>) Topic 2: Nanotechnology Goals and Challenges Presenter: Yves T. Ngu (1<sup>st</sup>) Commentator: Wanli Liu Topic 3: Hot-Carrier Stress on 0.18u NMOSFET Circuits Presenter: Akshay K. Naik (1<sup>st</sup>) Commentator: Aamer Jaleel</p>

<p style="text-align: center;">10/28/03</p> <p>Topic 1: CMOS Implemented C-Element Presenter: Cagdas Dirik Commentator: Samuel V. Rodriguez</p> <p>Topic 2: Deep Submicron Cache Presenter: Samuel V. Rodriguez Commentator: Cagdas Dirik</p> <p>Topic 3: Hot-Carrier Stress - MOSFET Leakage Presenter: Akshay K. Naik (2nd) Commentator: Rajasekhar Jammalamadaka</p>	<p style="text-align: center;">11/04/03</p> <p>Topic 1: 15mW I/Q Synthesizer for Bluetooth Presenter: Weixin Kong (2<sup>nd</sup>) Commentator: Mohamed M. Fahmi</p> <p>Topic 2: A/D Converter for 3-D Ultrasound Imaging Presenter: Aimaschana Niruntasukrat (1<sup>st</sup>) Commentator: Nuengwong Tuaycharoen (1<sup>st</sup>)</p> <p>Topic 3: 30nm CMOS Transistors Presenter: Yves T. Ngu (2nd) Commentator: Sanaz Adl</p>
<p style="text-align: center;">11/11/03</p> <p>Topic 1: Design of Low Power Frequency Dividers Presenter: Fang Liu Commentator: Xuanhua Li</p> <p>Topic 2: Vibration-to-Electric Energy Conversion Presenter: Alireza Modafi Commentator: Afshin Sepehri (2<sup>nd</sup>)</p> <p>Topic 3: Filters Using Current Conveyors Presenter: Mohamed M. Fahmi Commentator: Weixing Kong (2<sup>nd</sup>)</p> <p>Topic 4: Gain Boosting Amplifier Small Signal Analysis Presenter: Sanaz Adl Commentator: Yves T. Ngu (2nd)</p>	<p style="text-align: center;">11/18/03</p> <p>Topic 1: Dynamic V Scaling Conserving Portable Power Presenter: Nuengwong Tuaycharoen (2<sup>nd</sup>) Commentator: Aimaschana Niruntasukrat (2<sup>nd</sup>)</p> <p>Topic 2: 3-D Nanolithography Using Proton Beams Presenter: John R. Harris Commentator: Arun S. Mampazhy (2<sup>nd</sup>)</p>
<p style="text-align: center;">11/25/03</p> <p>Topic 1: Spiral Inductor Capacitor Model Presenter: Li-Chiang Kuo Commentator: John R. Harris &amp; Shu-Zhee A. Lo</p> <p>Topic 2: Nanoscale Silicon Rod FET Logic Presenter: Justin Teller Commentator: Nathan A. Moody</p> <p>Topic 3: Current Mode Op-Amp Presenter: Behnam Neekzad Commentator: Mohamed Haeri Kermani</p> <p>Topic 4: Robust &amp; Constraint Based IP Watermarking Presenter: Jesus M. Molina Commentator: Irena Bojanic</p>	<p style="text-align: center;">12/02/03</p> <p>Topic 1: Design of Precise Meander Delay Lines Presenter: Mohamed Haeri Kermani Commentator: Eric L. Tan (2nd)</p> <p>Topic 2: A 0.18u CMOS Processor Presenter: Afshin Sepehri (2<sup>nd</sup>) Commentator: Behnam Neekzad</p> <p>Topic 3: Optimum Design of Carry-Skip Adders Presenter: Wanli Liu Commentator: Dong H. Park</p> <p>Topic 4: Bridge on a Chip for Mobile Internet and IP Presenter: Svetlana Radosavac Commentator: Akshay K. Naik (2nd)</p>
<p style="text-align: center;">12/09/03</p> <p>Topic 1: Digital Calibration of an A/D Converter Presenter: Aimaschana Niruntasukrat (2<sup>nd</sup>) Commentator: Nuengwong Tuaycharoen (2<sup>nd</sup>)</p> <p>Topic 2: Optoelectronic Measurements of Surfaces Presenter: Shu-Zhee A. Lo Commentator: Fuat Keceli</p> <p>Topic 3: Active Micro Device for DNA Analysis Presenter: Irena Bojanic Commentator: Jesus M. Molina</p>	