

October 31, 2008

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Online Version: Click News & Events at [www.uml.edu/ece/](http://www.uml.edu/ece/)

Research

GRANTS:

Project Title: *Design and Performance Evaluation of a Programmable Edge Node with x86 Multi-core Processors and Network Processors*

Sponsor: NSF/BBN  
Amount: \$166,000  
Duration: 9/2008-8/2011  
PI: Yan Luo

Project Title: *Performance Evaluation and Acceleration of an Open Source VPN System on Tolapai Platform*

Sponsor: Intel  
Amount: \$25,000  
Duration: 7/2008-6/2009  
PI: Yan Luo

Project Title: *Noise Measurements in HEMTs*

Sponsor: Tyco Electronics  
Amount: \$21,737  
Duration: 10/2008-5/2009  
PI: S. Mil'shtein

Project Title: *Fabrication of HEMT with Two MIS Gates*

Sponsor: MA COM Technology Solutions  
Amount: \$39,949  
Duration: 10/2008-5/2009  
PI: S. Mil'shtein

Project Title: *Patterning the 50nm Gate of HEMT by SiN<sub>3</sub> Masking and Selective Wet Etching*

Sponsor: MA COM Technology Solutions  
Amount: \$35,656  
Duration: 10/2008-5/2009  
PI: S. Mil'shtein

Project Title: *Miniature Blood Pressure Sensor*

Sponsor: VasoTech Inc  
Amount: \$23,408  
Period: 9/2008 - 8/2009  
PI: Xingwei Wang

BOOK:

Prof. S. Mil'shtein and ECE doctoral student John Palma were offered to publish a book "Field Effect Transistors with Tailored Field" based on results of John's study by Verlag DM Ltd (Germany). The book will reflect on fundamentally new concept of controlling the flux of electrons in Quantum Electronic Field Effect Transistors (FETs) using tailoring of electrical field. The book will summarize newest developments in the design and fabrication of HEMTs and also include MESFETs and JFETs. Nice offer. Congratulations John!

CONFERENCE PRESENTATIONS:

Professor Salameh attended IEEE VPPC08 (Vehicle Power and Propulsion Conference) in Harbin China in September 3-7, 2008. He chaired a session on Super Capacitors. He was accompanied by two of his doctoral students Bong Kim and Frank Tredeau, each of whom presented a paper.

Professor Salameh received a certificate of recognition of his contribution to the field of electric vehicles.

Kim Bong, F. Tredeau and Ziyad Salameh, "Performance Evaluation of Lithium Polymer batteries for use in the Electric vehicles", *IEEE VPPC 2008*, Harbin, Sep 3-7, China.

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F. Tredeau, Kim Bong and Ziyad Salameh, "Performance Evaluation of Lithium Ion batteries for use in the Electric vehicles", *IEEE VPPC 2008*, Harbin, Sep 3-7, China.

Prof. Kanti Prasad will be attending preliminary ASEE regional conference to be held at Bridgeport on 7th November. The agenda will be finalization of the program for Spring Conference to be held at Bridgeport.

Prof. Yan Luo gave a presentation titled "Programmable Edge Node with Hybrid Multi-core Processors" at the 3<sup>rd</sup> GENI Engineering Conference, Oct 27-30, Palo Alto, CA.

## Calendar

### November

#### 7 Friday

**\*Faculty Advising Period Ends**

\*Last Day for Seniors to File DIG Form

11 Tuesday

\*Veterans Day Observed  
(University Closed)

#### 12 Wednesday

**\*Last Day for Students to withdraw from courses with grade of "W".**

**\*Enrollment for Spring 2009 courses begin using enrollment appointment dates obtained from student ISIS self service**

21 Friday

\*Last Day for Students to Complete Work for Incomplete Spring Semester and Summer Session (2008) Courses

26 Wednesday

\*Thanksgiving Recess begins  
10:00 PM

27 Thursday

\*Thanksgiving