

Feb 28, 2009

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### Calendar of Important Dates

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

## Research

### BOOK

Taylor and Francis offered a book contract to Professor D. K. Kalluri to publish the book with the Title: Electromagnetics of Time Varying Complex Media: Frequency and Polarization Transformer. The book is equivalent to a second edition of the earlier book except that it is twice the size of the first edition (550 pages). Four more parts are added to the first edition, which are Part I: Theory: Electromagnetic Wave Transformation in a Time\_Varying Magnetoplasma Medium, Part II: Numerical Solution: FDTD for Time-Varying Medium, Part III Application: Frequency and Polarization Transformer, Part IV: Experiments. The book of 550 pages is expected to be out by September 2009.

### PATENT

The patent #11,407,381 "Field Effect Transistor with Shifted Gate" by S. Mil'shtein and C. Liessner has been published by US Department of Commerce.

### JOURNAL PUBLICATION

D. K. Kalluri, S. Eker, and M. Ehsan " Frequency Transformation of a Whistler Wave by a Collapsing Medium in a Cavity: FDTD Solution", accepted for publication, IEEE Transactions on Antennas and Propagation, pp.(12 pages).

### CONFERENCE PUBLICATION

Sohan Purohit, Sai Rahul Chalamalasetti and Martin Margala, "A 1.2V, 1.02GHz 8 bit SIMD

Compatible Highly Parallel Arithmetic Data path for Multi-precision Arithmetic", accepted for publication in the Proceedings of IEEE/ACM Great Lakes Symposium on VLSI (GLSVLSI ), Boston, May 2009.

Sohan Purohit, Martin Margala, Marco Lanuzza and Pasquale Corsonello, "New Performance/Power/Area Efficient Reliable Full Adder Design", accepted for publication in the Proceedings of IEEE/ACM Great Lakes Symposium on VLSI (GLSVLSI ), Boston, May 2009.

Samed Maltabas, Martin Margala and Ugur CILINGIROGLU, "Varicap Threshold Logic", accepted for publication in the Proceedings of IEEE/ACM Great Lakes Symposium on VLSI (GLSVLSI ), Boston, May 2009.

Vikas Kaushal, Quentin Diduck and Martin Margala, "Study of Leakage Current Mechanisms In Ballistic Deflection Transistors", accepted for publication in the Proceedings of IEEE/ACM Great Lakes Symposium on VLSI (GLSVLSI), Boston, May 2009.

## Calendar

### **March**

#### **13 Friday**

\*Spring Recess Begins at 10PM

#### **23 Monday**

\*Classes Resume

\*Mid-Semester: At least One Evaluation Required in Each Course

#### **24 Tuesday**

ECE Ph.D/D.Eng Qualifying Exam

#### **30 Monday**

\* Faculty Advising Period for Fall Semester (2009) begins

\* First Day for Seniors to File DIG Forms