



The IEEE Southeastern Michigan Section Announces the New Nano-Technology Council Chapter

Chapter 17 Welcome Event: May 7, 2009 6 - 8 p.m. 1003 EECS UM North Campus, Ann Arbor

'Nano was, is or will be everywhere?' The detailed answer may be subjective but my answer is 'all of the above'. For example, when we rub our faces with a towel, we may be engaged in 'nano-surgery', removing a few nanometers of our skin everyday! The new Chapter 17 of IEEE SEM section is delighted to inform you that, we are here and have a huge nano program for the current year.

The 'chapter welcome' is scheduled for May 7, 2009 and we have started planning for a conference on 'Nanotechnology, Nanorobotics and Nanobusiness' to be held in the first week of November (the date will be announced soon). A nano-education¹ summer workshop for K-12 teachers will also be offered. The Chapter 17 will be highly appreciative of your participation, ideas, and suggestions for these events.



IEEE SEM NTC Welcome Program: May 7th

1003 EECS, UM North Campus, Ann Arbor

6:00 p.m. Light Dinner

6:30 p.m. Nano Talk: Prof. Wei Lu

7:30 p.m. Tour of Lurie Nanofabrication Facility

'Nanodevices based on one-dimensional wires'

Dr. Wei Lu, Assistant Professor of Electrical Engineering and Computer Science, UM

Abstract: Nanowire is a one-dimensional structure with "diameter" of tens of nanometers and length up to tens of micrometers. In this talk, I will discuss my group's research on several types of devices based on both nano-fabricated nanowires (using the so-called top-down approach) and chemically-grown nanowires (so-called bottom-up approach). Examples include "crossbar" structures based on an array of two-terminal resistive switches (memristors) that can act as high density memories as well as reconfigurable interconnects in biologically inspired circuits; transparent and flexible electronics based on nanowire thin-film devices that operate in the 100 MHz range; and electromechanical resonators that offer high-Q.

Registration Deadline: May 1, 2009. Please e-mail Dean Aslam at aslam@msu.edu to register. There is no cost for registration.

Chair, Prof. Dean Aslam

Assoc. Director, NSF ERC for WIMS
Assoc. VP Americas, MANCEF
Electrical and Computer Engineering
Michigan State University
aslam@msu.edu

Vice Chair, Prof. L. Jay Guo

Associate Professor, Electrical Engineering &
Computer Science University of Michigan
guo@eecs.umich.edu

Treasurer, Prof. Wen Li

Electrical and Computer Engineering
Michigan State University
wenli@egr.msu.edu

Secretary: Doug Czinder, Trinity Health
czinderd@trinity-health.org

Planned Events:

Welcome Event – May 7, 2009, 6 - 8 p.m.,
1003 EECS, U of Michigan, North Campus,
Ann Arbor

Summer K-12 Workshop:
'Nanoeducation'

IEEE SEM Fall Conference:
'Nanotechnology, Nanorobotics,
Nanobusiness'

¹ "We mix dry learning topics with Legos, drive them around with robots, levitate them in the air with static charges and shock them with high voltage from Lego Van de Graaff generators." Suddenly they become fun and everyone wants to learn them.