

**EECS Seminar**  
**on**  
**Micro and Nano Technology at the Lurie Nanofabrication Facility**

**Sandrine Martin, Ph.D.**

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Ann Arbor, Michigan

**Date** : September 16, 2009 (Wednesday)

**Time** : 10am-11am

**Venue** : SSOE Seminar Room (NI 1027)

**Abstract:**

This seminar will give an overview of micro and nano technologies at the University of Michigan Lurie Nanofabrication Facility (LNF). In addition, we will present examples of research accomplishments and applications of these technologies in diverse fields including but not limited to Electrical Engineering, Physics, Life Sciences, Biomedical Engineering and Chemical Engineering. Operated by the University of Michigan Solid-State Electronics Laboratory (SSEL), the LNF has extensive experience in microelectronics, micromechanics, optoelectronics, and micro and nano technologies based on silicon, compound semiconductor, and organic materials. It offers a complete laboratory for the fabrication of nanofabricated semiconductor and polymer electronic and optoelectronic devices and circuits, micromachined sensors, actuators, MEMS and microsystems, microfluidic devices, and analog and digital integrated circuits. The LNF is a member of the National Nanotechnology Infrastructure Network (NNIN) which is supported by the National Science Foundation. The NNIN is a network of facilities from 14 universities, whose mission is to provide researchers across the nation open-access to leading-edge tools and capabilities. This seminar will also describe how the LNF and NNIN capabilities can be useful to researchers external to the University of Michigan.

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**Sandrine Martin** received her Ph.D. from the University of Paris VI, France, in 1996. She conducted her Ph.D. research on amorphous-silicon thin-film transistors for active-matrix liquid-crystal displays at the National Center for Telecommunication Studies (CNET, Lannion, France) in collaboration with Sagem. She then joined the Center for Display Technology and Manufacturing at the University of Michigan in Ann Arbor, Michigan, USA. Since 1999, she has been a research scientist at the University of Michigan in the Organics and Molecular Electronics Research Group, in the Solid State Electronics Laboratory (Department of EECS). Her current research interests include organic polymer thin-film devices and circuits, active-matrix flat-panel displays, and application of flat-panel displays to medical imaging.