

# **3rd Workshop on MEMS/Nanostructures: Fabrication Techniques and Applications**

**08:30am to 01:00pm  
Friday November 14, 2003  
Candle Room, Atrium Building  
111 Research Drive, Innovation Place  
Saskatoon, Saskatchewan**

Presented by *TRLabs*, CLSI (Canadian Light Source Inc.), and the Institute of Electrical and Electronic Engineers (IEEE).

This workshop is the third in a series of workshops exploring the opportunities for research and commercial applications of micro and nanoscale devices. No longer science fiction, these devices are being built today using a variety of techniques and finding commercial applications in many different areas including optics, wireless communications, microfluidics, mechanical, and biomedical devices.

This workshop will discuss various fabrication techniques and materials for novel 2D and 3D micro/nanostructuring, and give examples and insights into commercial applications for these devices. In addition, an update on the Canadian Synchrotron Nanostructures Facility at the CLS will be presented.

Micro and Nanostructures can be thought of as the next wave of precision manufacturing, allowing companies to differentiate themselves and develop unique capabilities to create and market custom devices for a broad spectrum of industries.

## **Agenda:**

08:30 – 08:45	Registration (Coffee and muffins)
08:45 – 09:00	Introductions
09:00 – 10:00	“Deep X-Ray Lithography and LIGA: Microstructures and Applications”, Jill M. Hruby, Sandia National Laboratories, Livermore, California
10:00 – 10:15	Coffee Break
10:15 – 11:00	“Micro and Nanostructures: Materials and Volume Replication”, Teodor Veres, Industrial Materials Institute, NRC
11:00 – 11:45	“Novel Structures by Thin Film Deposition and Applications”, Michael Brett, Micralyne/NSERC Senior Industrial Research Chair, University of Alberta
11:45 – 12:00	“Canadian Synchrotron Nanostructures Facility Status” David Klymyshyn, <i>TRLabs</i> Scientist, University of Saskatchewan
12:00 – 13:00	Lunch and open discussions

**Cost:** \$20 per person

**To Register:** Contact Ms. Vera Ljubovic  
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