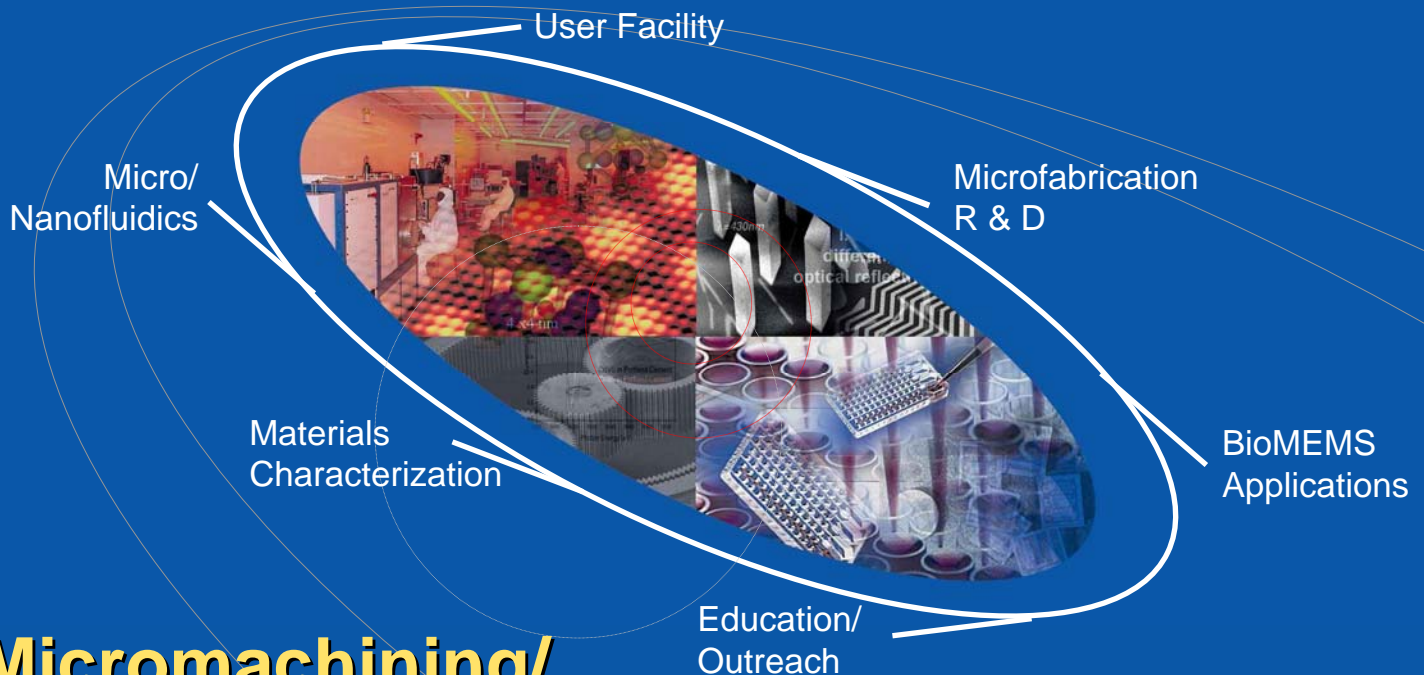




# Center for BioModular Multi-Scale Systems

Micro/Nanofabrication Research  
and Services for BioMEMS



## Micromachining/ Nanomachining

Materials Research

User Facility

Materials Characterization

R & D Partners

BioMEMS Collaborations

CBM<sup>2</sup>

Louisiana State University  
Baton Rouge, Louisiana 70803  
U. S. A.

Further Information

<http://www.lsu.edu/cbmm>

Prof. Steven A. Soper

E-mail : [chsoper@lsu.edu](mailto:chsoper@lsu.edu)

Phone: (225) 578-1527

FAX: (225) 578-3458

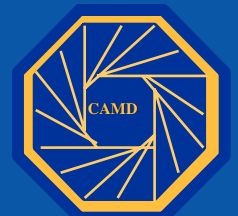
Prof. Michael C. Murphy

[murphy@me.lsu.edu](mailto:murphy@me.lsu.edu)

(225) 578-5921

(225) 578-5924

CBM<sup>2</sup> is a Center of Excellence for micro/nanofabrication with applications in genomics, proteomics and pharmaceutical research at Louisiana State University. The Center, in conjunction with CAMD, contains state-of-the-art equipment for the fabrication of high-aspect ratio microstructures in a variety of materials (glass, polymers, metals, ceramics) over several different size domains (nm to mm). CBM<sup>2</sup> also has expertise in fluidics (simulation/modeling), material characterization/modification, and reagent development. CBM<sup>2</sup> has a service program in micro/nanofabrication to assist outside users.





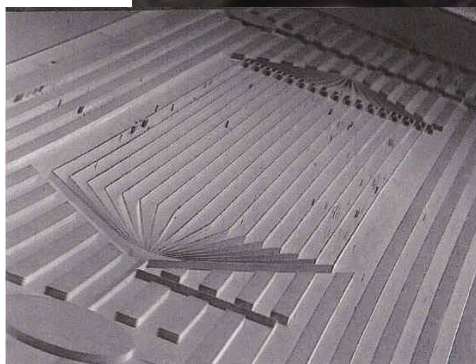
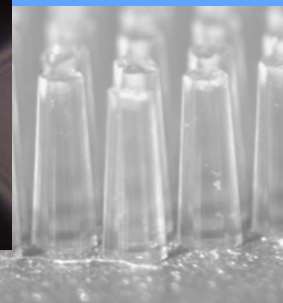
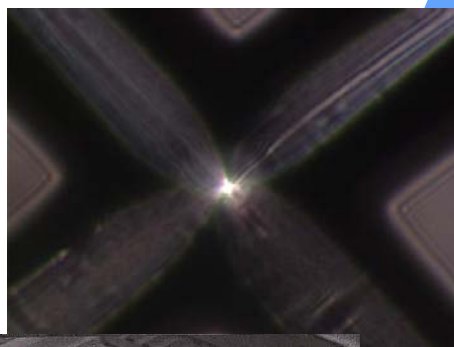
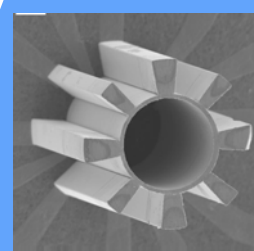
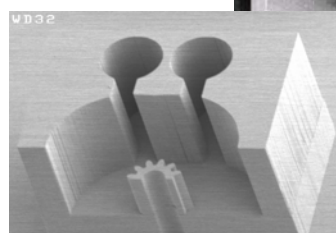
# Center for **Advanced Microstructures & Devices**

## Objectives

- CAMD is a synchrotron radiation user facility that provides service opportunities in micro/nanofabrication.
- CAMD offers access to and training for its microfabrication tools and supports user projects on different levels.
- CAMD provides technical support as well as full service in microfabrication to users from academia and industry.

## Tools for Micro- and Nanofabrication (CBM<sup>2</sup>/CAMD)

- 4 beamlines equipped with exposure stations available for x-ray lithography research and production of high and ultra-high aspect ratio microstructures.
- Rapid prototyping equipment (KERN micromilling machine, Laser Resonetics laser ablation machine) for one-day device turn-around.
- Class 100 clean room (2,500 sq. ft.).
- Metrology equipment (SEM, AFM, surface profiler, ellipsometer)
- $\mu$ PIV and epifluorescence microscopes
- DRIE
- Resist processing
- Ion milling
- Front/backside DUV exposure
- Molding of polymers and ceramics
- Material characterization/modification



## **CAMD**

Louisiana State University  
6980 Jefferson Hwy.  
Baton Rouge, Louisiana 70806  
U. S. A.

## Further Information

<http://www.camd.lsu.edu>  
Prof. Josef Hormes, Director CAMD  
E-mail : [hormes@lsu.edu](mailto:hormes@lsu.edu)  
Phone: (225) 578-4665

