



MEMS Innovators Workshop
University of New Mexico
Manufacturing Training and Technology Center (MTTC)
March 26, 2010, 10 am to 3 pm

Workshop Description

This workshop is a capstone activity that encompasses MEMS applications, MEMS components, and MEMS fabrication. Participants will work in teams to design and develop a component for a MEMS that addresses a specific problem in one of three fields: biomedical, environmental, or consumer product. Once the component is designed and constructed, the team will develop a process flow which addresses the fabrication building blocks needed to build the MEMS component. Workshop discussions will include where and how this material and the related activities can be incorporated into an existing curriculum.

Audience: High School and Community College Instructors

Participant Preparation (download educational materials from scme-nm.org):

- Participants need to read the following educational materials prior to the workshop:
 - o MEMS Applications
 - o Sensors, Transducers, & Actuators
 - o MEMS Micromachining
- Participants have full access to these and all of SCME's educational materials via scme-nm.org.

Participant Workshop Materials (SCME Provided)

- MEMS Innovators Activity
- All materials necessary to complete all workshop activities

Participants are encouraged to bring cameras.

Discussion Led Format for presentations – Ask questions!

Workshop Schedule - Note: Schedule is subject to change as required by SCME/MTTC.

Saturday, March 26: 10 am to 3 pm

10:00-10:30

- Welcome and Introductions
- Overview of Workshop and Expectations
 - o Pre workshop survey

10:30-12:00

- MEMS Applications Overview
- MEMS Components Overview
- Build a model of a MEMS component

12:00 – 13:00 Lunch at MTTC (provided by SCME)

13:00-15:00

- MEMS Linkage Process Flow
- Design MEMS component process
- Present your design
- Dissemination and Wrap-up

