

SCME's Microsystems and MEMS Educational Resources

Matthias W. Pleil; Ph.D.
Southwest Center for Microsystems Education
University of New Mexico
mpleil@unm.edu

The Southwest Center from Microsystems Education (SCME), a National Science Foundation funded Advanced Technological Education Center, (DUE #1205138) provides support, training, mentoring, and materials targeting undergraduate tech programs, 2yr, 4yr, and secondary STEM programs. The SCME has developed fifty learning modules, a dozen hands-on kits while offering over 100 workshops, online short courses, videos, webinars, and an extensive infrastructure of support capabilities and resources. These educational materials include topics ranging from cleanroom protocol and safety, to MEMS History and Applications, BioMEMS, and Microsystems Fabrication.

The attendees will be provided an overview of the SCME's wide range of modular educational resources that may be adapted, modified and inserted into existing programs or used to create new courses and program offerings enabling evolving Tech and STEM programs to maintain relevancy and students to upgrade their skills.