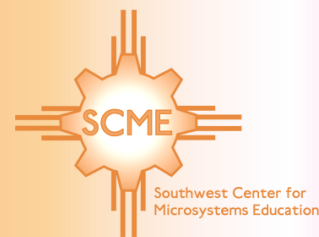




MEMS 201: Crystal Structures
June 28, 2012
Presented by the
Southwest Center for Microsystems Education



Questions that will be answered during this webinar

- What can the Southwest Center for Microsystems Education (SCME) do for you?
- What are the differences between amorphous, single-crystal and poly-crystal solids?
- Why crystal structure is important to microsystems fabrication?
- How are crystal planes identified?
- What is the Miller Index and how does it apply to crystal structures?

Links and references from webinar

- SCME website: scme-nm.org
- [List and descriptions of SCME Learning Modules](#)
- [List and descriptions of SCME Instructional Kits](#)
- SCME's [Crystallography Learning Module](#) files and presentation
- [360 Degree View of Silicon Carbide Cell](#) – YouTube
- "3D Crystal Viewer" Applet. <http://www.dawgSDK.org/crystal/index.en>
- Body-Centered Cubic". Barbara L. Sauls and Frederick C. Sauls. King's College. Pennsylvania. http://departments.kings.edu/chemlab/chemlab_v2/bcc.html
- "Crystal Symmetry". Scientific Photographs by Christopher C. Jones. <http://minerva.union.edu/jonesc/Scientific.html>
- "Polycrystalline Diamond". Evince Technology. http://www.evincetechnology.com/poly_xtl_dia.html
- [MEMS Cantilevers – Sacrificial Layer Removal](#) – YouTube
- [\(100\) Crystal Plane of Silicon – Cell to wafer](#) – YouTube
- [MEMS Pressure Sensor Backside Etch](#) - YouTube

Presenters:

Barbara Lopez, botero@unm.edu

Mary Jane (MJ) Willis, mjwillis@comcast.net

SCME Webinars

For information on each of the following webinars and to view completed webinars, click [here](#).

Completed	MEMS 101: MEMS Applications Webinar
Completed	MEMS 102: How Do Microsystems Work?
Completed	MEMS 103: Biomedical Applications of BioMEMS
Completed	MEMS 201: Topics on Microsystems Materials Crystal Structures
Completed	MEMS 202: Standard Micromachining Techniques
Completed	MEMS 203: Making a MicroPressure Sensor