



MEMS 101: Introductions to Microsystems
October 21, 2011
Presented by the
Southwest Center for Microsystems Education



Questions that will be answered during this webinar

- What is the Southwest Center for Microsystems Education (SCME)?
- What is the difference between microsystems and MEMS?
- What are microsystems?
- How do microsystems affect you?
- What are some examples of MEMS?
- How did microsystems technology evolve?
- Where is microsystems technology headed?

Links and references from webinar

Animation of Cantilever Top Down Approach - <http://www.youtube.com/watch?v=-vWzK1kvLew>

Micro Vs. Nano: Self-Assembly of molecules video: <http://www.youtube.com/watch?v=8huH-yB7xdQ>

Tear Down of a Droid Smart Phone: <http://www.ifixit.com/Teardown/Motorola-Droid-Bionic-Teardown/6449/1>

Automotive MEMS Sensor Market to Reach Record High in 2010: <http://www.isuppli.com/MEMS-and-Sensors/News/Pages/Automotive-MEMS-Sensor-Market-to-Reach-Record-High-in-2010.aspx>

NOAA Launches Final Two Buoys to Complete the U.S. Tsunami Warning System (March 2008): http://www.noaanews.noaa.gov/stories2008/20080310_buoy.html

BioMEMS / MicroFluids @ Sandia National Laboratories: <http://www.mems.sandia.gov/about/micro-fluidics.html>

MEMS industry overview: the past, the present and the future.

<http://www.memsinvestorjournal.com/2010/07/mems-industry-overview-the-past-the-present-and-the-future.html>

Smart Dust is the future of Space Exploration, July 2011: <http://news.softpedia.com/news/Smart-Dust-Is-the-Future-of-Space-Exploration-209970.shtml>

Smart Dust? Not quite, but we're getting there. January, 2010.

<http://www.nytimes.com/2010/01/31/business/31unboxed.html>

The Future of MEMS. Design News. January 2009:

http://www.designnews.com/document.asp?doc_id=228367

The Future of MEMS by Dr. Thomas F. Marinis: <http://sem.org/PDF/s01p01.pdf>

Presenters

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SCME Webinars

December 2, 2011 MEMS 102: How do Microsystems work?

January 20, 2012 MEMS 103: Biomedical Applications of BioMEMS

March 2, 2012 MEMS 201: Topics on Microsystems Materials Crystal Structures

April 12, 2012 MEMS 202: Standard Micromachining Techniques

May 3, 2012 MEMS 203: Making a MicroPressure Sensor

Register for webinars at www.matecnetworks.org/webreg/scme.php