

## **WORKSHOP Calibrations and Standards for Nanomechanical Measurements**

**June 16-17, 2009  
Gaithersburg, Maryland**

This workshop will provide a forum for nanomechanics researchers, users, and NIST researchers to identify nanomechanical calibration and standards needs. Instrumented indentation (nanoindentation) and atomic force microscopy (AFM) are the primary techniques used to measure mechanical properties of materials at the micro- and nano-scale and will be the focus of the workshop. However the scope of the workshop will include all mechanical measurements that require the spatial, force or displacement resolutions characteristic of the field of nanomechanics.

We welcome a wide variety of perspectives from tool manufacturers, research scientists, and process engineers – those people who make critical measurements, and think critically about those measurements.

Technical areas will include, but are not limited to:

- force, displacement, and stiffness calibration
- adhesion, friction and mechanical property measurements
- reference materials, devices and transducers
- documentary standards

We encourage speakers and attendees to come prepared to discuss the barriers they face in nanomechanical measurements, and the calibration or standards solutions that will overcome those barriers.

### **ATTENDING THE WORKSHOP**

The workshop will be located at the NIST campus in Gaithersburg, MD, and will take place Tuesday, June 16 and Wednesday, June 17. Attendance is limited. The registration fee is \$200. On-line registration and lodging information is at <http://www.nist.gov/msel/ceramics/calibrations-and-standards.cfm>

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