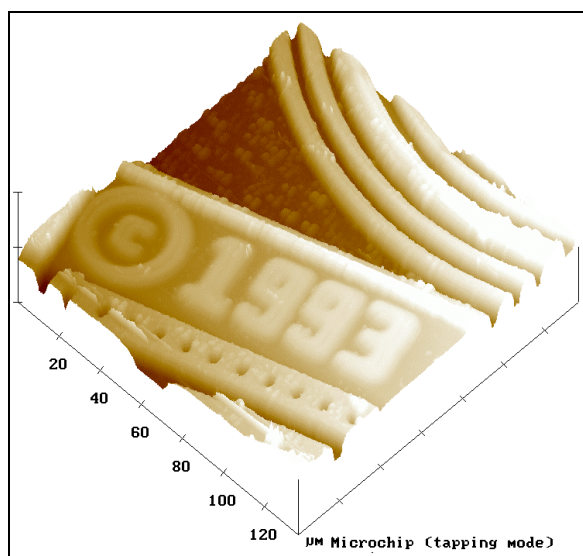


PHYS 445 / 545

Fundamentals and Techniques of Materials Physics Fall 2003

Practical applications of textbook physics
Hands-on experience in the state-of-the-art techniques
Applications in Engineering, Chemistry, Biology, and beyond



Atomic Force Microscope image of a microchip

Learn how to take images of very small things, such as the microchip on the left, or the blood cells below, and investigate the magnetic characteristics and surface textures of your samples. Under the best conditions, this equipment can produce images of individual atoms!

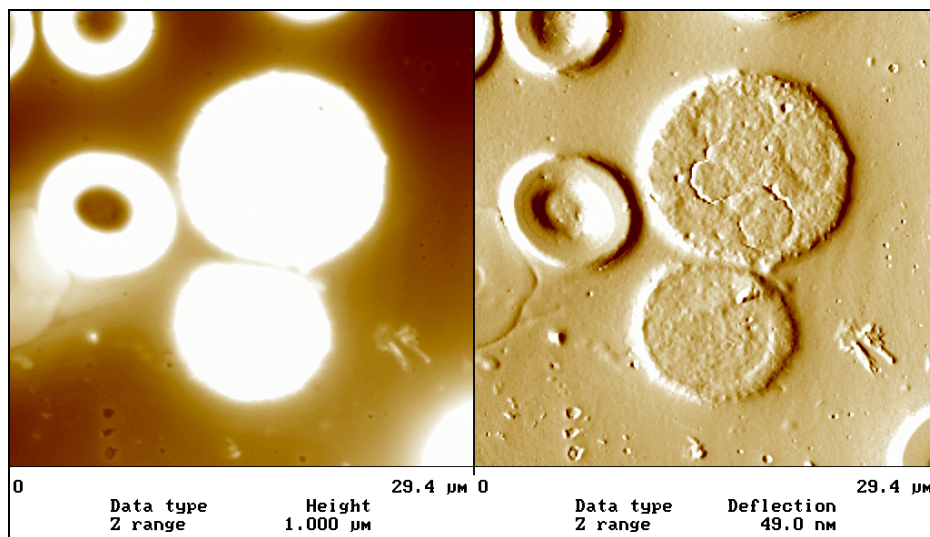
Topics of Class:

What is Scanning Probe Microscopy?
Background Physics
Atomic Force Microscopy
Magnetic Force Microscopy

Tentative Schedule:

Lecture (2 hours) T 2:00 – 3:40 pm
Laboratory (3 hours) W 3:00 – 5:45 pm

Instructor: Prof. Chuhee Kwon
Office: PH2-120
Phone: (562) 985-4855
E-mail: ckwon@csulb.edu



Atomic Force Microscope image of human blood cells

More information @ <http://www.cns.m.csulb.edu/faculty/ckwon/Teaching/PHYS445.html>