



TUTORIAL AGENDA

AFM for Life Science Applications, Wednesday, October 15, 2008

This workshop with lectures and demonstration session will cover the various applications of AFM for Life Sciences from single molecules to cells. It will feature AFM imaging and force spectroscopy as well as measuring mechanical properties of biological samples, and cover micromanipulation experiments.

Agenda:

- 8:30am** Welcome & Introduction
- 8:40am** In touch with biology:
Introduction to AFM for Life Science Applications, *Andrea Slade, PhD., Veeco Instruments*
- 9:20am** Investigating Molecular Structure and Function:
High resolution imaging and Force Spectroscopy, *Alex Berquand, PhD., Veeco Instruments*
- 10:10am** Coffee Break
- 10:30am** Optical Microscopy Overview, *Leica Microsystems*
- 11:00pm** Multimodal imaging: Complementing AFM with Optical Microscopy:
Fluorescence, TIRF, Confocal, *Peter Schoen, PhD, Veeco Instruments*
- 12:00pm** Lunch, provided by Veeco
- 1:00 - 5:00** Tutorial session I, II, III (1 hour and 20 minute rotations)
- Tutorial I** Introduction to AFM for biological samples, Measurements in solutions
(Thomas Mueller, Veeco Innova™)
- Tutorial II** High resolution Imaging and Force Spectroscopy
(Peter Schoen, Ben Ohler, Alexandre Berquand, Veeco Multimode®)
- Tutorial III** AFM + Optical Microscopy – Multi-modal imaging
(Andrea Slade/ Sebastian Tille, Veeco BioScope™ II + Leica DMI + SP5 Confocal)