



Atomic Force Microscopy Workshop Feb. 17, 2011

Life Science Applications and Electrical Characterization of Materials

The Birck Nanotechnology Center at Purdue University will be hosting an Asylum Research Atomic Force Microscopy (AFM) Workshop on February 17, 2011. The workshop will include lectures and equipment/imaging demonstrations for both life science applications and electrical characterization of materials. The AFM Workshop is open to current AFM researchers looking to learn more about AFM techniques and who want to “ask the experts”, as well as those new to AFM that want to learn how AFM can be used in their own research. A small registration fee of \$30 will be charged to cover lunch and coffee breaks. Additional information and registration for the workshop can be found at <http://www.conf.purdue.edu/atomic>.

Birck Nanotechnology Center Lectures

8:00am	Registration		Room BRK 2001
8:30	Monica Allain	Birck Nanotech Ctr.	Welcome
8:40	Xin Xu	Birck Nanotech Ctr.	Introduction to Birck AFM Center
9:00	Irene Revenko	Asylum Research	Introduction to AFM for Life Science Applications – Including Combined AFM and Optical Measurements
10:00	Break		
10:15	Amir Moshar	Asylum Research	Force Measurements and Force Mapping
10:45	Dr. Robert Moon Ryan Wagner	Purdue University Purdue University	Uncertainty Quantification in AFM Force-Displacement Measurements
11:15	Amir Moshar	Asylum Research	Electrical Characterization of Materials Using Conductive AFM
11:45	Lunch provided		
	Tutorial- Room BRK 2001		Equipment Demonstrations/Ask the Experts-Birck 1082
1:00 - 2:15	Sample Prep for Biological Samples		Conductive AFM Lab
2:30 - 3:45	Force Measurements and Mapping, Spring Constant Calibration		Cell Imaging Lab
4:00 - 5:15	Conductive AFM Tips and Tricks		Cell Imaging Lab

Attendees may sign up for **one Equipment Lab** and may attend any/all tutorials that when they are not in their scheduled lab.

Contact

For additional information, contact:

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