

AFM Workshop May 7-8, 2019

University of Michigan, Forum Hall

Increase Your AFM Knowledge

Atomic Force Microscopy (AFM) is a powerful tool for nanoscale label-free imaging of cells, tissues, biomolecules, and novel materials *in-situ*. Video-rate AFM further enables direct imaging of dynamic cell and molecular processes. This workshop covers applications of modern video-rate AFM for cell and biomolecular imaging, as well as biophysical measurements such as force spectroscopy and cellular stiffness measurements. The workshop will also include a hands-on demonstration of select samples on an Asylum Research Cypher VRS Video-Rate AFM. The workshop is appropriate for both experienced AFM users as well as less experienced researchers who would like to learn more about how AFM could impact their projects.



Speakers

Jay M. Pittman, Univ. of Chicago
Christopher T. Boughter, Univ. of Chicago
Dr. Bikash Soo, Dept. of Chemistry, Univ. of Michigan
Justin Cooper, Andor Technology
Drew Griffin, Asylum Research
Tim Walsh, Asylum Research
Amanda Howard, Bitplane
David Richards, Oxford Instruments NanoAnalysis

Registration

Registration is free, however, seating is limited. All attendees must register at afm.oxinst.com/UMichiganAFM

Venue

Lectures

University of Michigan
Forum Hall in Palmer Commons 4th Floor
100 Washtenaw Ave,
Ann Arbor, MI

Labs

930 North University Ave.
Room 3080 Chemistry

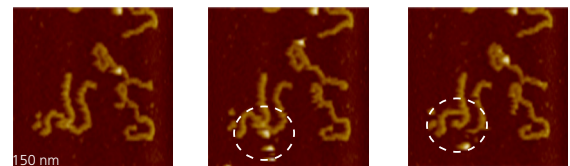
Agenda

See the reverse side for the complete agenda.

Contact

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BIOCHEMICAL REACTIONS AT VIDEO-RATE SPEEDS



Register at
afm.oxinst.com/UMichiganAFM



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Agenda

May 7 will include lectures by industry and academic experts.

May 8 will include a hands-on demonstration with the Cypher VRS Video-Rate AFM. Labs will be held in Room 3080 Chemistry, 930 North University Ave. Please sign up for one time slot.

May 9 will be an optional day to run individual samples. Please email drew.griffin@oxinst.com to discuss your sample and schedule time. Limited spots are available.

May 7 Lectures		
Time	Title	Presenter
9:30 – 9:40	Introduction and Welcome	Univ. of Michigan and Asylum Research
9:40 – 10:00	What's New in the NanoWorld of AFM	Drew Griffin, Asylum Research
10:00 – 10:30	Capturing Nanoscale Dynamics with Video-Rate AFM	Tim Walsh, Asylum Research
10:30 – 10:45	Break	
10:45 – 11:30	Observing the Dynamics of Amyloid- β 40 Oligomerization	Christopher Boughter and Jay Pittman, Univ. of Chicago
11:30 – 12:00pm	Imaris 9.3 Object Detection and Motion Tracking	Amanda Howard, Bitplane
12:15 – 1:15	Lunch provided	
1:15 – 1:45	Scientific Camera Technologies for Single-Molecule Imaging	Justin Cooper, Andor Technology
1:45 – 2:15	Real-time Monitoring of Inhibition of Human Amylin Aggregation using High-Speed AFM	Dr. Bikash Soo, Univ. of Michigan
2:15 – 3:00	The Fascinating World of Chemical and Microstructural Analysis in the SEM Wrap-up	David Richards, Oxford Instruments NanoAnalysis
May 8 Cypher VRS Demonstrations		
9:00 – 10:30	Please select one time slot for your Cypher VRS Video-Rate AFM demonstration when registering	Tim Walsh, Asylum Research
11:00 – 12:30		
1:30 – 3:00		
3:30 – 5:00		



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