



The Big World Under the Small Probe

March 19-20, 2024 University of Pennsylvania

Explore New Advances and Research Trends

Bruker is pleased to co-host a nanoscale characterization workshop with the University of Pennsylvania. During this two-day event, we will discuss new advances and research trends for atomic force microscopy (AFM), nanoscale infrared (nanoIR) spectroscopy, and nanoindentation (NI) in the field of materials and biology, including living cells.

We will also perform hands-on demonstrations with Bruker's <u>Dimension Icon AFM</u>, <u>NanoWizard V BioAFM</u>, and <u>TI 980 TriboIndenter</u>.

If you have any questions about sample measurement, please feel free to contact Jianjun Yao, Matthew Brukman (Dimension Icon and NanoWizard V), or Michael Hast (TI 980). We look forward to seeing you there!

Register now to secure your spot!

Scan the QR code or <u>click here</u> to register.



Dimension Icon AFM



NanoWizard V Bioscience

Workshop Organizers

Matthew Brukman, Ph.D. Singh Center for Nanotechnology mbrukman@seas.upenn.edu

Michael Hast, Ph.D. Penn Center for Musculoskeletal Disorder Biomechanics Core <u>hast@pennmedicine.upenn.edu</u>

Jianjun Yao, Ph.D. Bruker jianjun.yao@bruker.com

Location

University of Pennsylvania LRSM Reading Room

3231 Walnut St, Philadelphia, PA 19104





Hysitron TI 980 TriboIndenter

Dimension IconIR

Free workshop at the University of Pennsylvania



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Agenda Tuesday, March 19	
9:00AM	Introduction
9:15AM - 9:45AM	Advanced Methods and Recent Developments in AFM: Approaches to Mechanical and Electrical Characterization John Thornton, Bruker
9:45AM - 10:15AM	Application of Large Area Mapping and High-Resolution Correlative Imaging with AFM for Automated Structural and Nanomechanical Analysis in Tissues, Cells, Biomolecules, and Materials Research Yi Wei, Bruker
10:15AM - 10:30AM	Break
10:30AM - 11:00AM	Application of AFM-IR for Polymers and Biological Discoveries Jinhee Kim, Bruker
11:00AM - 11:30AM	Advanced Nanomechanical Testing of Soft Materials Radhika Laxminarayana, Bruker
11:30AM - 12:00PM	Recent Developments in Nanomechanical Testing Michael Berg, Bruker
12:00PM	Lunch (provided by Bruker)
1:00PM - 4:00PM	Hands-on Sessions

Agenda | Wednesday, March 20

9:00AM - 12:00PM Hands-on Sessions