Free Two-day Workshop

Bruker and (MC)² Nanomechanical Testing Workshop



November 8-9, 2023 University of Michigan

Discover the Latest Advances in Nanomechanical Testing

Join us November 8-9 for a free two-day workshop that Bruker and (MC)² will be co-hosting at the North Campus Research Complex (NCRC) at the University of Michigan focusing on advances in nanomechanical testing of materials, including nanoindentation, atomic force microscopy, and in-situ testing combined with SEM and TEM.

Mornings will feature presentations in the NCRC Bldg 10 South Atrium and afternoons will offer live demos at (MC)² using Bruker's <u>Hysitron TI 950 TriboIndenter</u>, <u>Hysitron PI 89 SEM PicoIndenter</u>, and <u>Dimension Icon</u> AFM. Lunch will be provided.

Space is limited, register today!



Register now to secure your spot!

Scan the QR code or **click here** to register.

Local Contact from University of Michigan

Haiping Sun, Ph.D.

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Workshop Organizers

Michael Berg

Nanoindentation Sales Manager Bruker Nano Surfaces and Metrology Michael.Berg@bruker.com

Rick Kitadai, Ph.D.

AFM, NanoIR & Nanoindentation Midwest Sales Manager Bruker Nano Surfaces and Metrology

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Workshop Location

University of Michigan

NCRC Building 10 South Atrium 2800 Plymouth Rd. Ann Arbor, MI 48109 View on Google Maps

> View preliminary agenda on pages 2 and 3

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Wednesday, November 8	
8:30AM	Registration
8:45AM	Opening — Rick Kitadai (Bruker), Bobby Kerns (MC² Manager)
9:00AM	Keynote Presentation Nanomechanical Characterization of Hierarchical Metallic Microstructures — Prof. Amit Misra
9:30AM	Bruker Presentation Recent Developments in Nanomechanical Testing — Michael Berg
10:00AM	Bruker Presentation Advanced AFM Techniques and Recent Developments — John Thornton
10:30AM	Coffee Break
10:45AM	User Presentation In situ and ex situ indentation to explore mechanical behavior at microscale under tension and compression — Eunji Song
11:00AM	Bruker Presentation Tribology Product Overview and Applications — Robert Wang
11:30AM	Lunch (provided)
1:00PM to 4:00PM	Lab — Hysitron TI 950 TriboIndenter
1:00PM to 4:00PM	Lab — Atomic Force Microscopy (PF-QNM)
1:00PM to 4:00PM	Lab — Hysitron PI 89 SEM PicoIndenter

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Thursday, November 9	
9:00AM	Invited Presentation Application of AFM on Ferroelectric Nitride Materials and Devices — Ding Wang
9:30AM	Bruker Presentation Applications of In-Situ Nanomechanics — Eric Hintsala
10:00AM	Bruker Presentation High Throughput Nanomechanical Testing — Jasmine Johnson
10:30AM	Coffee Break
10:45AM	User Presentation Mechanical properties of molecularly-linked nanoparticle monolayers — Zhongyong Wang
11:00AM	Bruker Presentation IR Beyond the Diffraction Limit: Introduction and Applications of Photothermal AFM-IR — Jinhee Kim
11:30AM	Lunch (provided)
1:00PM to 4:00PM	Lab — Hysitron TI 950 TriboIndenter
1:00PM to 4:00PM	Lab — Atomic Force Microscopy (PFM, KPFM)
1:00PM to 4:00PM	Lab — Hysitron PI 89 SEM PicoIndenter