

Georgia Institute of Technology and Bruker Present a Free Workshop:

# New Insights in Materials Research with Innovations in AFM, nanoIR, and Nanoindentation

Tuesday, March 29, 2022



**Workshop Location:** Suddath Seminar Room 1128, Parker H. Petit Institute for Bioengineering and Biosciences at Georgia Tech, 315 Ferst Dr. NW, Atlanta, GA 30332 | [View Map](#)

**Hands-on Sessions:** Room G139, MCF Suite, Marcus Nanotechnology Building at Georgia Tech, 345 Ferst Drive NW, Atlanta, GA 30332 | [View Map](#)

**Parking:** Visitor Area 5 - W23 (next to MSE building) 911 State St. NW, Atlanta, GA 30318 | [View Map](#)

Join us Tuesday, March 29, for a free atomic force microscopy (AFM), nanoscale infrared (AFM-IR) spectroscopy, and nanoindentation workshop at the Georgia Institute of Technology. During the workshop, we will explore the latest advances in AFM, BioAFM, AFM-IR, nanoindentation technologies, and perform hands-on demonstrations with Bruker's [Dimension Icon](#) AFM.



**REGISTER TODAY**

*Space is limited.*

## Agenda Tuesday, March 29

8:30 AM	Registration and Breakfast
8:50 AM	Welcome Session <ul style="list-style-type: none"><li>Dr. Walter Henderson, Georgia Institute of Technology and Thomas Zhang, Bruker</li></ul>
9:00 AM	AFM Probing of Nanomaterials <ul style="list-style-type: none"><li>Prof. Vladimir Tsukruk, Georgia Institute of Technology</li></ul>
9:40 AM	Recent Innovations in Atomic Force Microscopy – Data Cube Approaches to Electrical and Mechanical Characterization <ul style="list-style-type: none"><li>Dr. Thomas Mueller, Bruker</li></ul>
10:20 AM	Coffee Break
10:30 AM	Characterization Studies Using Unique SPM Techniques: SS-PFM, KPFM, and PeakForce-QI Mode <ul style="list-style-type: none"><li>John Thornton, Bruker</li></ul>
11:10 AM	Atomic Force Microscopy in the Rubber Industry <ul style="list-style-type: none"><li>Dr. Seth Young, Birla Carbon</li></ul>
11:40 AM	Breaking Bonds: Using Nano- and Micro- Mechanics to Understand Strength and Toughness <ul style="list-style-type: none"><li>Dr. Douglas Stauffer, Bruker</li></ul>
12:20 PM	<b>Lunch and Learn:</b> Photothermal AFM-IR - Beating the Diffraction Limit with Nanoscale Infrared Spectroscopy (Live AFM-IR Demo), Answer AFM Related Questions (Free lunch Provided Per Registration) <ul style="list-style-type: none"><li>Dr. Cassandra Phillips, Bruker and Bruker Team</li></ul>
1:00 PM	Hands-on Session I
1:45 PM	Hands-on Session II
2:45 PM	Hands-on Session III
3:15 PM	Hands-on Session IIII

