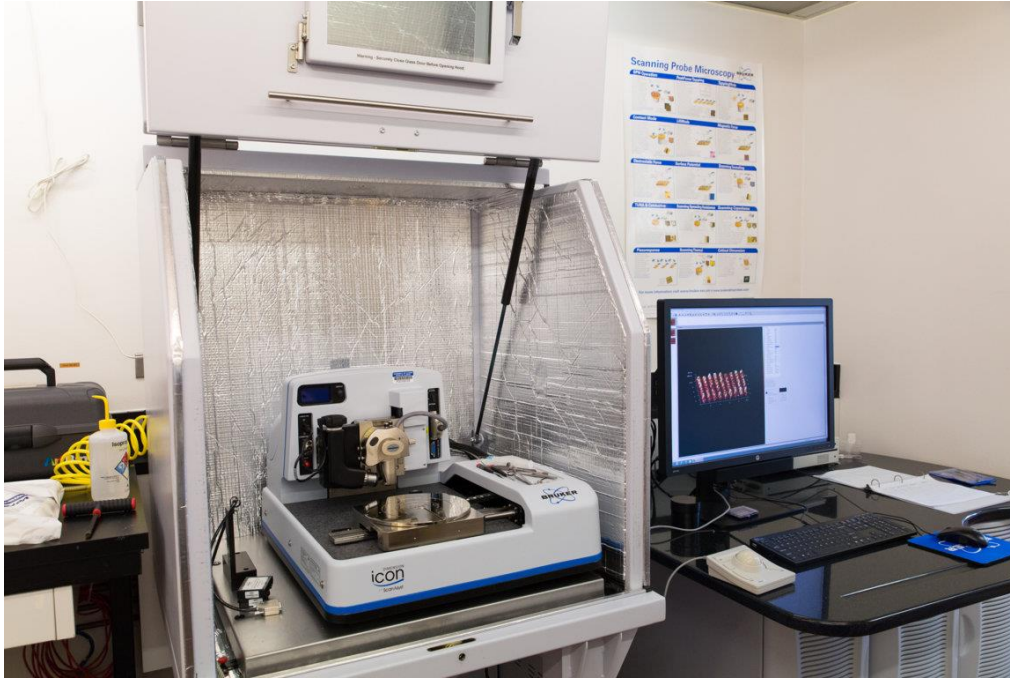


Bruker Dimension Icon Atomic Force Microscope



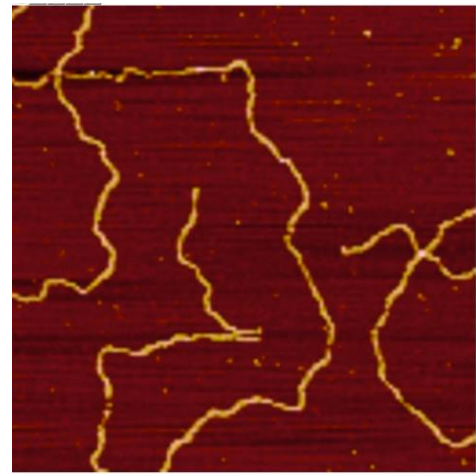
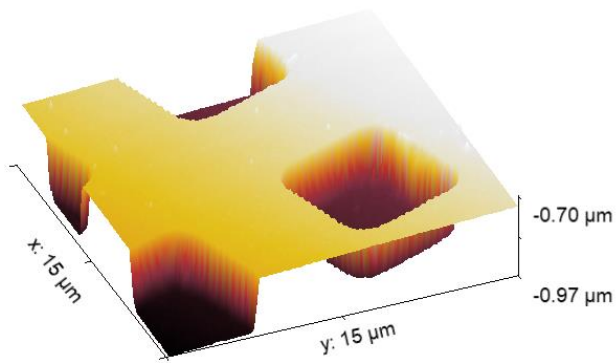
NCF's Bruker Dimension Icon AFM with ScanAsyst provides a robust and easy method of surface analysis for various scientific disciplines. With multiple experimental modes making use of Bruker's proprietary scanning algorithms, users can perform scans in air or fluid for biological and non-biological specimens. NCF provides ScanAsyst-Air tips for standard scanning of samples in air. User specific tips can be purchased by the user from Bruker or through NCF on the user's behalf at a fee. After passing the NCF safety exam, users can request training on this machine by sending an email to ncftech@uic.edu. Those not trained can request an NCF work service order by contacting the lab manager.

Location: cleanroom, characterization bay

Training: 3 sessions (2 trainings and a checkout session)

Technical Specifications:

- Max Scan Range: 100 μ m x 100 μ m
- Max Z-Range: 10 μ m
- Air and Fluid Imaging
- Peak Force Feedback System during ScanAsyst
- Sample holder: 210mm vacuum chuck
- Substrates: any rigid object can be scanned
- Microscope optics: 5MP digital camera, 180 μ m - 1465 μ m viewing area; Digital zoom and motorized focus



References

https://www.bruker.com/fileadmin/user_upload/8-PDF-Docs/SurfaceAnalysis/AFM/Brochures/B068-RevB2-Dimension_Icon-Brochure.pdf

<https://www.brukerafmprobes.com/>

http://mmrc.caltech.edu/AFM%20Dimension%20Icon/Bruker%20Training/SPM_Modes.pdf