

## Additional Atomic Force Microscopy Resources

### Introduction to Nanotechnology Workshop – Characterization

Sponsored by NACK/Penn State University

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#### Animations

Topic	Link
AFM Operation	<a href="https://www.youtube.com/watch?v=veTskO7EWM8">https://www.youtube.com/watch?v=veTskO7EWM8</a>
Contact Mode AFM	<a href="https://www.youtube.com/watch?v=4bgb5nD2JOU">https://www.youtube.com/watch?v=4bgb5nD2JOU</a>
Tapping Mode AFM	<a href="https://www.youtube.com/watch?v=En1S-HX4o-M">https://www.youtube.com/watch?v=En1S-HX4o-M</a>
Non-contact Mode AFM	<a href="https://www.youtube.com/watch?v=Ha53tFTsmW8">https://www.youtube.com/watch?v=Ha53tFTsmW8</a>
Cell Adhesion with AFM	<a href="https://www.youtube.com/watch?v=ZYEyJySwun0">https://www.youtube.com/watch?v=ZYEyJySwun0</a>
Mechanical Properties with AFM	<a href="https://www.youtube.com/watch?v=MZb8C0f7Kdg">https://www.youtube.com/watch?v=MZb8C0f7Kdg</a>
Several Downloadable Animations Illustrating AFM Operating Principles	<a href="https://www.ntmdt-si.com/resources/spm-principles">https://www.ntmdt-si.com/resources/spm-principles</a>
Constant Force AFM (Feedback Loop)	<a href="https://www.ntmdt-si.com/resources/spm-principles/atomic-force-microscopy/contact-afm/contact-error-mode">https://www.ntmdt-si.com/resources/spm-principles/atomic-force-microscopy/contact-afm/contact-error-mode</a>
Constant Height AFM	<a href="https://www.ntmdt-si.com/resources/spm-principles/atomic-force-microscopy/contact-afm/constant-height-mode">https://www.ntmdt-si.com/resources/spm-principles/atomic-force-microscopy/contact-afm/constant-height-mode</a>

#### Lectures

Title	Link
Atomic Force Microscopy Basics	<a href="https://www.youtube.com/watch?v=Yvr0UREj4S8">https://www.youtube.com/watch?v=Yvr0UREj4S8</a>
AFM User Tutorials (Nanosurf)	<a href="https://www.youtube.com/user/NanosurfVideo/videos">https://www.youtube.com/user/NanosurfVideo/videos</a>
Basics of AFM	<a href="https://www.youtube.com/watch?v=fSSE70mD3vA">https://www.youtube.com/watch?v=fSSE70mD3vA</a>
Nanosurf NaioAFM Overview	<a href="https://www.youtube.com/watch?v=-IZfC5w-A6g">https://www.youtube.com/watch?v=-IZfC5w-A6g</a>
Several AFM Lectures and Operational Videos from WPI	<a href="https://www.youtube.com/user/AtomicForceMicro/videos">https://www.youtube.com/user/AtomicForceMicro/videos</a>