

Making a Center a Center

Stanford/IBM Center for Probing the Nanoscale (CPN)

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- Developing a dynamic, creative environment for research and learning is a major goal of CPN
- During our first year we have fostered this environment through our course on Probing the Nanoscale -
- faculty lectures and student presentations
- For imagination on the prospects for nanoprobes, the students won

Student Presentations*

- *"In situ Atomic Force Microscopy: Applications to Rate Processes Studies in Materials"*
- *"MEMS Fabrication Technologies for AFM Tips"*
- *"Erasable Electrostatic Lithography (EEL)"*
- *"Measurement of DNA Conductivity Using Scanning Probe Technology"*
- *"The Josephson STM: A local probe of superconducting properties"*
- *"Sagnac Magneto-Optic Sensors: Comparison with SQUIDs and Hall Sensors for studying magnetic materials"*
- *"Possibility of Single-Spin Magnetic Resonance Imaging (MRI) with Micro-SQUID Sensors"*
- *"Spin-Charge Separation and Scanning Probe Microscopy"*

** Partial list*