

****NANO HIGHLIGHT****

September 6 - CPN Announces Seed Grant Winners for 2006-2007

NSF NSEC Grant PHY-0425897

Director: **Kathryn Moler**, Deputy Director: **David Goldhaber-Gordon**

Associate Director: **Kyle Cole**

Center for Probing the Nanoscale, Stanford CA

A campus-wide call for Seed Grant proposals in July yielded an impressive pool of applications and the CPN was delighted to award five seed grants ranging from \$25,000 to \$50,000. In addition, Seed Grant extensions were awarded to two especially productive projects arising from the 2005-06 seed grant competition. Proposals were evaluated on the basis of scientific merit and alignment with the overarching CPN goal to develop novel tools to map electronic, magnetic, mechanical, and other material properties on the nanoscale.

2006-2007 CPN Seed Grant Recipients:

Zhenan Bao, Associate Professor, Chemical Engineering

“Patterning Nano and Micro Metal Electrodes Using Dip Pen Nanolithography”

Malcolm Beasley, Professor, Applied Physics

“Scanning Probes for Detecting Trace Superconductivity”

John Kirtley, Consulting Professor, Physics, Research Staff Member Emeritus, IBM

“High Spatial Resolution Current Imaging with the Magnetic Force Microscope”

W.E. Moerner, Professor, Chemistry; **Frank Jaeckel**, Postdoc, Chemistry

“Novel Scanning Near-Field Optical Raman Microscope”

Beth Pruitt, Assistant Professor, Mechanical Engineering; **David Goldhaber-Gordon**, Assistant Professor, Physics

“Design and Fabrication of Coaxial Tip Piezoresistive Cantilever Probes for High-Resolution Scanning Gate Microscopy”

Seed Grant Extensions:

Zhi-Xun Shen, Professor, Applied Physics, Physics, SSRL and by courtesy of Electrical Engineering; **Mike Kelly**, Consulting Professor, Materials Science and Engineering and Geballe Laboratory for Advanced Materials

“Developing an Improved Microwave Microscope”

Yi Cui, Assistant Professor, Materials Science and Engineering

“Metal Nanowires as New Probes for Scanning Electrochemical Microscopy”

