

The Center for Probing the Nanoscale presents:

## The 5<sup>th</sup> Annual Nanoprobes Workshop

Bechtel Conference Center, Encina Hall, 616 Serra Mall  
Stanford University

Friday, April 24<sup>th</sup>, 2009

### Program

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- 8:30-9:00 **Continental Breakfast, Registration**
- 9:00-9:15 **Tobias Beetz, Center for Probing the Nanoscale, Stanford University**  
"Welcome and CPN Overview"
- 9:15-9:45 **Bob Westervelt, Harvard University**  
"Imaging Quantum Devices"
- 9:45-10:15 **Dmitri Basov, University of California, San Diego**  
"Infrared Nano-Scopy of Complex Materials"
- 10:15-10:30 **Break**
- 10:30-11:00 **Sergei Kalinin, Oak Ridge National Laboratory**  
"Deciphering Nanoscale Interactions: Artificial Neural Networks and Scanning Probe Microscopy"
- 11:00-11:30 **Dawn Bonnell, University of Pennsylvania**  
"Beyond Structure: Probing Complex Properties with Subnanometer Resolution"
- 11:30-12:00 **Sasha Balatsky, Los Alamos National Laboratory**  
"Dirac Materials"
- 12:00-1:00 **Lunch**
- 1:00-1:30 **Alex de Lozanne, University of Texas, Austin**  
"Nanocharacterization with Scanning Probes"
- 1:30-2:00 **Matthias Bode, Argonne National Laboratory**  
"Imaging Non-Collinear Magnetic Nanostructures with Atomic Resolution"
- 2:00-2:30 **Ophir Auslaender, Stanford University**  
"Probing Microscopic and Dynamical Properties of Superconducting Vortices by Vortex Dragging"
- 2:30-2:45 **Break**
- 2:45-3:15 **Joachim Stöhr, Stanford University**  
"X-Ray Studies of the Ultrafast Magnetic Nanoworld"
- 3:15-3:45 **Dan Rugar, IBM Almaden Research Center**  
"Nanoscale MRI – The Quest for a Molecular Structure Microscope"
- 3:45-6:00 **Poster Session and Reception**

