

# **X-ray Imaging and Spectro-microscopy: the Present and the Future**

**Tuesday (10/8/02)**

## **J. Miao - Chair**

- 1:30 – 1:45 **K. Hodgson**, *Stanford Synchrotron Radiation Laboratory*  
Welcome Remarks
- 1:45 – 2:15 **J. Stöhr**, *Stanford Synchrotron Radiation Laboratory*  
Real Space Imaging by Means of X-Ray Photoemission Electron  
Microscopy
- 2:15 – 2:45 **J. Kirz**, *State University of New York at Stony Brook*  
STXM and diffraction-imaging - the view from the NSLS
- 2:45 – 3:15 **C. Fadley**, *University of California, Davis & Lawrence Berkeley National  
Laboratory*  
Holographic Imaging of Local Atomic Structure: Where Is It and  
Where Can It Go?
- 3:15 – 3:30 Break

## **K. Hodgson - Chair**

- 3:30 – 4:00 **I. Robinson**, *University of Illinois at Urbana-Champaign*  
Phasing of Three Dimensional Diffraction Patterns from Finite-Sized  
Objects
- 4:00 – 4:30 **K. Nugent**, *University of Melbourne*  
Approaches to the Recovery of Complete Wavefield Information
- 4:30 – 5:00 **J. Miao**, *Stanford Synchrotron Radiation Laboratory*  
Single Particle X-ray Diffraction: the Present and the Future
- 5:00 – 5:30 **Discussion**  
What can bright X-ray sources (*i.e.* high flux, coherence and ultrashort  
pulses) do for imaging and spectro-microscopy?
- 5:30 – 6:30 Reception (with participants from other workshops)

**Wednesday (10/9/02)**

**H. Tsuruta - Chair**

- 9:00 – 9:30 **C. Larabell**, *University of California, San Francisco & Lawrence Berkeley National Laboratory*  
Cryo X-ray tomography of whole cells at 50 nm resolution
- 9:30 – 10:00 **A. Hitchcock**, *McMaster University*  
Soft X-ray microscopy of polymers and biofilms
- 10:00 – 10:30 **B. Lai**, *Argonne National Laboratory*  
X-Ray Fluorescence and Spectro-Microscopy for Biomedical Applications
- 10:30 – 10:45 Break

**I. Lindau – Chair (to be confirmed)**

- 10:45 – 11:15 **K. Shen**, *Stanford University*  
High-resolution photoemission studies of many-body effects in the solid state - "The story from Einstein's electrons"
- 11:15 – 11:45 **I. McNulty**, *Argonne National Laboratory*  
Soft x-ray microscopy at APS
- 11:45 – 12:15 **P. Evans**, *University of Wisconsin-Madison*  
Imaging antiferromagnetic domains in chromium with magnetic x-ray microscopy