

CAPS COLLOQUIUM

Distinguished scientists in all disciplines are invited to lecture on topics of general interest. Objectives include the cross-fertilization of research initiatives at various institutions and the identification of possible uses of the Advanced Photon Source.

When: First Wednesday of each month at 3:00 p.m.

Where: Building 402, APS Auditorium

Refreshments served at 2:45 p.m.

June 4, 2003

Ian K. Robinson

University of Illinois, Urbana

"Coherent Views of the Nano World"

Ian K. Robinson is currently professor of physics at the University of Illinois, Urbana. His PhD was in biophysics from Harvard University, and he then spent 11 years at Bell Laboratories. He pioneered the application of synchrotron x-ray diffraction to study surfaces in vacuum at the NSLS, introducing the crystal truncation rod method. In 2000 he was awarded the Warren prize in recognition of this work.

Abstract:

Coherence is the latest frontier in Synchrotron Radiation science, opened up by the third generation machines. This talk will demonstrate how coherence can be used to probe new aspects of structure. Three-dimensional images of the internal structure within crystals have been obtained on nanometer length scales.

<http://www.aps.anl.gov/conferences/APSColloquium>