

# Inorganic/TcSUH Seminar

Texas Center for Superconductivity at the University of Houston

**Dr. Karena W. Chapman**

Advanced Photon Source

Argonne National Laboratory

## Structural Studies of Functional Framework Materials

**Monday, February 19, 2007**

Room 102, University of Houston Science Center

11:00 a.m. – 12:00p.m.

### Abstract

The evolving demands of our modern society fuel a perpetual drive to develop innovative materials for advanced technological and industrial applications. Pivotal to the rational design of next generation materials optimized for real world applications, is the fundamental understanding of the key structural features underlying functional behavior. Here we present recent applications of advanced scattering methods to the development of two novel material functionalities in cyanide-bridged molecular frameworks: negative thermal expansion behavior and reversible hydrogen storage.

*Persons with disabilities who require special accommodations in attending this lecture should call (713) 743-8210 as soon as possible.*



TEXAS CENTER FOR  
SUPERCONDUCTIVITY