



Yu-Sheng Chen

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Current Position

Senior Research Associate, Center for Advanced Radiation Sources (CARS), The University of Chicago

Background

- Senior Research Associate, Center for Advanced Radiation Sources (CARS), The University of Chicago, 2012-present
- Research Beamline Scientist, Center for Advanced Radiation Sources (CARS), The University of Chicago, 2005-2011
- Postdoctoral Fellow, The University of Chicago/SUNY Buffalo, 2004-2005
- Ph.D. Physics, University of Toledo, 2003

Activities

Lead Scientist in charge of advanced crystallographic experimental station and user program at ChemMatCARS (APS Sector 15)

Interests

- High-resolution x-ray single-crystal charge density (HRXCD) studies under normal and extreme conditions.
- A laser pump-probe experiments using both monochromatic and Laue methods to measure molecular excited states.
- Photo-crystallography, a novel way to study photo-induced magnetic materials and molecular switches.
- Chemical high-pressure crystallography using a diamond anvil cell.
- Resonant diffraction studies.

Goals

As the lead scientist in charge of the development of the user program in advanced crystallography at ChemMatCARS, plus 12 years of synchrotron single-crystal diffraction experience, I feel that I have an obligation to speak for this community. If elected to the APSUO, I will focus on facility issues that have the potential to impact the scientific productivity of users.