

## W0141

**BioCARS: A Facility for Macromolecular Crystallography at the Advanced Photon Source.** R.W. Henning, V. Srajer, R. Pahl, T. Graber, S. Anderson, S. Ruan, G. Macha, J. VonOsinski, M. Bolbat, H. Brewer, N. Lei, H. Tong, K. Moffat, Consortium for Advanced Radiation Sources, The Univ. of Chicago, Chicago, IL.

The BioCARS facility is a part of the multi-disciplinary and multi-institutional Consortium for Advanced Radiation Sources (CARS) managed by the University of Chicago. CARS has designed, constructed and operates the experimental facilities at the Advanced Photon Source (APS) as National Synchrotron Resources available to the scientific community. BioCARS consists of two beamlines: an insertion device beamline 14-ID with an undulator and one experimental station (14-ID-B), and a bending magnet beamline 14-BM with two stations that are used simultaneously (14-BM-C and 14-BM-D). BioCARS provides state-of-the-art facilities and scientific and technical support for: studies of macromolecular assemblies that form crystals with large unit cells, MAD phasing, high resolution crystallography, Laue crystallography and time-resolved crystallography. BioCARS is also the only facility at the APS that has been approved for safe work on Biosafety Level 3 samples such as pathogenic human viruses.

Beamtime is allocated through peer review of proposals. To apply for beamtime or for more information about the BioCARS facility, visit: <http://biocars.org>.