PINDU 2010 Abstract. Purdue University, October 30, 2010.

Title: "SCrALS: Challenging Samples, Straightforward Solution."

Allen G. Oliver¹ and Jeanette A. Krause²

1) Department of Chemistry and Biochemistry, University of Notre Dame, Notre Dame, IN, 46556

2) Department of Chemistry, University of Cincinnati, Cincinnati, OH, 45221

The Service Crystallography at the Advanced Light Source (SCrALS) project provides access to chemical crystallographers for samples considered too small or poorly diffracting to collect on a regular laboratory-based system. Synchrotron sources generate a more brilliant beam with a significantly higher X-ray photon flux allowing such samples to have data collected. The service is a mail-in method with data collected during regularly scheduled beam-time. This presentation will high-light some of the projects that would otherwise not have been possible without access to the more intense beam provided by a synchrotron source.