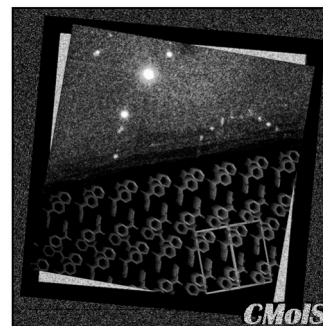


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The W.M. Keck Foundation Center for Molecular Structure: A Core Facility of CSUPERB and Core Node of the STaRBURSTT-CyberDiffraction Consortium. X. Ouyang, K. Kantardjieff, Dept. of Chemistry and Biochemistry and W.M. Keck Foundation Center of Molecular Structure, California State Univ., Fullerton, CA 92834.

The W.M. Keck Foundation Center for Molecular Structure (CMoIS), a core facility of CSUPERB, is the first comprehensive X-ray crystallographic and computational facility located at a predominantly undergraduate institution. CMoIS is also the west coast “core node” of the “Science Teaching and Research Brings Undergraduate Research Strengths Through Technology Cyber Diffraction Consortium” (STaRBURSTT-CDC). As a “collaboratory” and a “virtual laboratory”, CMoIS provides faculty and student investigators throughout the 23-campus California State University, regional colleges and universities, and the United States with local and remote access to instrumentation, software and databases for research and training involving both small and macromolecular structure. Furthermore, CMoIS offers experiments and tutorials for the undergraduate curriculum, as well as annual



professional development workshops for undergraduate faculty, covering small molecule crystallography, macromolecular crystallography, molecular modeling and simulation, and structure-guided drug design. These national workshops are among a variety of courses offered by the Center for Workshops in the Chemical Sciences, a consortium of 12 universities funded by the National Science Foundation. Through its networks and partnerships, CMoIS has enhanced the research and educational infrastructure of the CSU, and students have benefited from the collaborative aspects of molecular science.