

W0235

The STaRBURSTT - CIC - Teaching Initiative. A.D. Hunter^a, P.S. Szalay,ⁱ M. Zeller,^a M. Bond,^b R.J. Butcher,^c G. Crundwell,^d G.M. Ferrence,^e K. Kantardjieff,^f L. Ramirez,^g T. Higgins^h, a) Youngstown State Univ., b) South East Missouri State Univ., c) Howard Univ., d) Central Connecticut State Univ., e) Illinois State Univ., f) California State Univ. Fullerton, g) East Los Angeles College, h) Harold Washington College, i) Muskingum College.

The STaRBURSTT-CIC (Science Teaching and Research Brings Undergraduate Research Strengths Through Technology - CyberInstrumentation Consortium) is a national consortia of made up primarily of Predominantly Undergraduate Institutions, Historically Black Colleges and Universities, and Hispanic Serving Institutions having strong interests in X-ray diffraction. This presentation will emphasize new curriculum materials developed and tested by this group, including: computer labs on structure determination, local and remote access labs for unknown structure determination, and mini- and full scale student research projects; safety procedures; crystal growth; the selection, mounting, and evaluation of crystals; data collection strategies, structure solution using SHELX, powder diffraction for bulk phase confirmation, using crystallographic data bases, and writing and evaluating crystallographic papers. The remote collection of crystallographic data via the internet will be emphasized.

