Abstract Submitted
for the SHOCK07 Meeting of
The American Physical Society

Static High Pressure X-ray Diffraction of Ti-6Al-4V[1] GARY CHESNUT, NENAD VELISAVLJEVIC, LILLIANA SANCHEZ, Los Alamos National Lab — Ti-6Al-4V was examined under static-high pressure conditions using a diamond anvil cell. The angle-dispersive x-ray diffraction experiments were performed at the Advanced Photon Source, Argonne National Laboratory. Radial and axial geometry were used to examine multiple samples. The purpose of the experiment was to generate pressure-volume data at room temperature (which is non-existent in literature) and to examine deviatoric stress effects on such a hard alloy.

[1]Supported by the US DOE under contract DE-AC52-06NA25396.

Gary Chesnut
Los Alamos National Lab

Date submitted: 23 Feb 2007 Electronic form version 1.4