

SHOCK19-2019-000216

Abstract for an Invited Paper
for the SHOCK19 Meeting of
the American Physical Society

Recent Advances at the Dynamic Compression Sector

P. A. RIGG, Washington State University

The Dynamic Compression Sector (DCS) at the Advanced Photon Source (APS), Argonne National Laboratory – a first-of-its-kind user facility – achieved full user operations in all four experimental end stations in 2018. With a diverse set of dynamic compression drivers linked to 80ps, bright, hard x-ray pulses from a synchrotron, the DCS user community has made significant and broad advances in addressing long-standing questions in dynamic compression science. An overview of the DCS capabilities and operations – including the process for user experiments – will be presented along with representative results obtained to date. Work supported by DOE/NNSA.