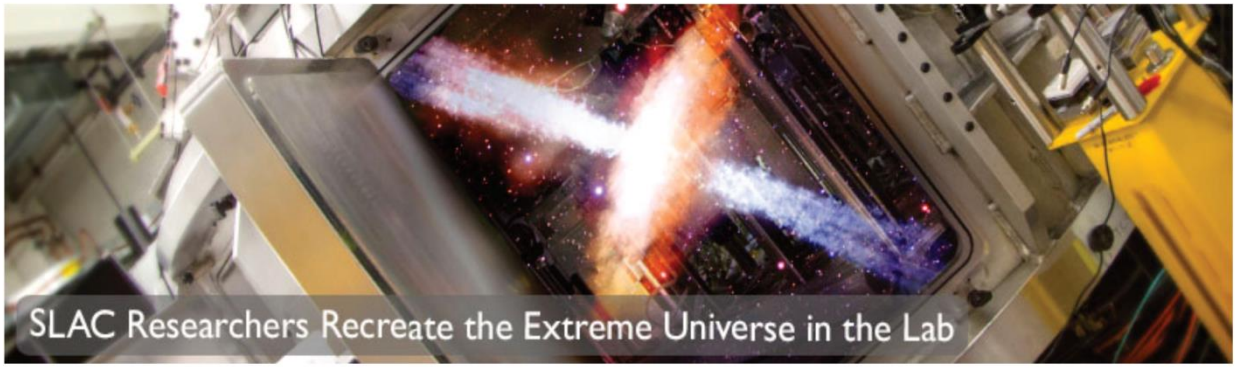

Special Lecture by

Dr. June Wicks
Department of Geosciences
Princeton University
USA

Laboratory Simulations of Impacts and Earth to Super-Earth Interiors by Dynamic Compression

17 March 2017, 14:15 - 15:00
Geoscience Auditorium, 1671-137

followed by MAT-X Lightning Workshop

Co-Sponsored by

Abstract: Experimental access to materials at extreme (> terapascal) pressures is achievable through dynamic compression techniques. I will present examples of studies coupling laser-based dynamic compression with *in situ* X-ray diffraction, which together provide unprecedented access to the structure of materials during dynamic loading. From determining the structure of cores of large extrasolar planets, to interpreting the dynamic history of minerals found at meteor impact craters, our scientific goals require the knowledge of material behavior as a function of both pressure and time.