

Student and Early Career Symposium Schedule - Sunday, June 14th, 2015

		Presenter		
		Last Name	First Name	Title
8:00 - 9:00	Registration and Breakfast			
9:00 - 10:30	Applied Material Studies	Lang Stafford Diamond Testa Ali	John Samuel Matthew Gabriel Suzanne	Introduction Equations of state of detonation products: ammonia and methane Observations on the nucleation of ice VII in shock compressed water Laser-shock compression on four alkali halides Modeling and Simulation of Dynamic Recrystallization (DRX) in OFHC Copper at Very High Strain Rates Two-Dimensional Imaging Velocimetry of Heterogeneous Flow and Brittle Failure in Diamond
10:30 - 10:45	Break			
10:45 - 12:00	Strength, Microstructure and Failure	Sternberger Chen Abeywardhana Hahn Franco Navarro	Zach Laura Madawa Eric Pedro	A comparative study of Rayleigh-Taylor and Richtmyer-Meshkov instabilities in 2D and 3D in tantalum Effect of temperature and microstructure on the dynamic strength properties of iron Strain-Rate Dependence of Material Strength: Large-Scale Atomistic Simulations of Defective Cu and Ta Crystals Non-equilibrium molecular dynamics simulations of single-, bi- and poly-crystalline tantalum Waves in Periodic Dissipative Laminate Metamaterial Generated by Plate Impact
12:00 - 1:00	Networking Lunch/Posters go up			
13:00 - 14:30	Diffraction, Granular Materials	Rutherford Patel McGonegle Breidenich Newman Perry	Michael Shamim David Jennifer Matthew James	High-energy Synchrotron x-ray radiography of shock-compressed materials Single Hit Energy-resolved Laue Diffraction Investigations into uniaxial deformation of textured polycrystalline targets using X-ray diffraction Effects of powder characteristics on impact initiated combustion in aluminum powder compacts Hugoniot Measurements on Dry and Water-Saturated Soils The Shock and Release Properties of Dry and Wetted Silica Sands
14:30 - 4:00	Posters			
16:00 - 17:30	Experimental Developments	Grant Cooper Basset Shaw Holguin Sory	Sean Leora Will William Stefany David	Implementation of Single-Shot Ellipsometry on Gas Gun Experiments Multi-Frame Imaging of Shock Propagation Tabletop Optical Diagnostics for Shock Compression of Liquids Mechanochemistry for Shock Wave Energy Dissipation Disruption of cell membranes via laser-activated, acoustically active, carbon nanoparticles Novel method to dynamically load cells in 3D-gel culture for primary blast injury studies
18:00	SCCM Opening Reception			
21:00	Early Career Social Event			