CDAC

CARNEGIE/DOE ALLIANCE CENTER

A Center of Excellence for
High Pressure Science and Technology
Supported by DOE/NNSA

CDAC Summer School – Lecture Schedule

Tuesday 5/31	School Time Schedule	Wednesday 6/1	Thursday 6/2	Friday 6/3
	8:00-8:50	**Ashcroft I** Fundamentals of Matter at High Densities	**Ashcroft II** Special Topics	**Zhao** High Pressure Neutron Diffraction
	9:10-10:00	**Gupta I** Introduction to Shock Compression	**Schwartz** Actinide Physics and Chemistry	**Militzer** First Principles Simulations
	10:20-11:10	**Jeanloz** Static and Dynamic Compression/ Overview of Key Materials	**Fried** Computational Chemistry and Simulations	**Chow** Applications of X-ray Spectroscopy: Electronic Excitations
	11:30-12:20	**Kao I** Synchrotron Radiation	**Kao II** Fundamentals of X-ray Spectroscopy	**Hu** Applications of X-Ray Spectroscopy: Nuclear Resonant Scattering
	Lunch			

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	2:00-2:50	**Mao** Static High Pressure Techniques: Diffraction Methods	**Gupta II** *In-Situ* Measurements with Shock Compression Techniques	**Departures**
3:00 **CDAC Advisory Committee** APS Room 434	**3:10-4:00**	**Collins** Laser Shock Compression	**Funk** Chemical Dynamics	
	4:20-5:10	**Dlott** Table Top Shocks and Fast Spectroscopic Methods	**Knudson** Shock Compression and Pulsed Power Methods	
5:30 **Advisory Committee Cocktail Hour and Dinner**	**6:00**	**Dinner** (Guest House)	**Cocktail Hour**	
7:30 **Student Welcoming Reception**	**7:00**		**School Banquet** **Budil** Stewardship Science	