

SNAP Workshop Agenda



Building 8600 - room C152

Wednesday September 16th

Introductory remarks	9:00	9:05 R. McGreevy	Welcome	
	9:05	9:30 <i>H-k Mao</i>	High-pressure science at national facilities	
	9:30	9:55 <i>D.D. Klug</i>	Combining theory and experiment for structure and properties investigations of dense solids on SNAP	
		10:20 <i>J.B. Parise</i>	In situ scattering at high-pressure and temperature: structural studies of the GaN-ZnO solid solution - a water splitting photocatalyst	
	10:20	10:45 <i>G. Karotsis</i>	TBD	
Crystallography (Guthie, Boehler)	10:45	11:10 <i>S. Machida</i>	Intermolecular interactions in hydrogen hydrate under high pressure and neutron experiments for hydrate sciences	
	11:10	11:25	Break	
	11:25	11:50 <i>K. Li</i>	TBD	
	Disordered Materials (Tucker, Parise)	11:50	12:15 <i>C. Tulk</i>	Superheating an amorphous water network above its crystallization temperature
		12:15	12:40 <i>E. Sognard</i>	High pressure investigation of amorphous BeF ₂ and BeD ₂
12:40		13:05 <i>M. Guthrie</i>	Ammonia-rich liquids	
Technical Session: (Bull,Boehler)	13:05	13:30 <i>M. Wilding</i>	Silicate and oxide glasses at high pressure: opportunities and challenges	
	13:30	14:30	Working Lunch - community building discussion (Chairs: Mao, Parise)	
	14:30	14:55 <i>R. Boehler</i>	Next generation neutron pressure vessels	
	14:55	15:30 <i>C.L. Bull</i>	Single-crystal neutron diffraction beyond 10 GPa	
	15:30	16:30 <i>C. Park</i>	Paris-Edinburgh cell development at HPCAT 16BM-B	
Correlated electrons-I (Baldini,dos Santos)	16:30	16:45	break	
	16:45	17:10 <i>M.G.Tucker</i>	PEARL@ISIS: Recent developments	
	16:45	17:10 <i>M. Stone</i>	Pressure dependent diffraction and spectroscopy of a dimerized antiferromagnet	
	17:10	17:35 <i>X. Chen</i>	Quantum control of spin ordering in compressed energy matter	
	17:35	18:30	<i>Hardware needs discussion (Boehler, Molaison, Bull)</i>	
19:00	21:00	Excursion to local restaurant (\$15-\$20, See directions in attachment, please RSVP)		

Thursday September 17th

Correlated electrons-II (Chen, Stone)	9:00	9:25 W.O. Uhoya	TBD
	9:25	9:50 <i>S. Hirai</i>	magnetism in new high-pressure synthesised phase of Mn ₂ O ₃
	9:50	10:15 <i>J. Schlueter</i>	The Role of H-bonding for the Pressure-induced Phase transitions in magnetic coordination polymers
	10:15	10:30 <i>K.J. Marty</i>	Neutron scattering studies of unconventional superconductor FeTe _{0.6} Se _{0.4} under pressure
	10:30	10:55 <i>G.N. Chesnut</i>	Neutron Diffraction Studies of Iron-Based Superconductors and Related Elements
Software at the SNS (Tucker,Tulk)	10:55	11:10	Break
	11:10	11:35 <i>M. Baldini</i>	High pressure study of the magnetic order of Nd _{0.53} Sr _{0.47} MnO ₃
	11:35	12:00 <i>P.Peterson</i>	Software at the SNS
	12:00	12:25 <i>A. dos Santos</i>	Software capabilities on SNAP
	12:25	12:50 <i>G. Boudreau</i>	Navigating the IPTS system
12:50	13:50	Working Lunch - Software needs on SNAP (lead by Tucker, Peterson, dos Santos)	