

Erice 2016: High-pressure crystallography: *Status artis* and emerging opportunities

Start	End	Fri, May 27	Sat, May 28	Sun, May 29				Mon, May 30	Tue, May 31				Wed, June 1				Thu, June 2	Fri, June 3				Sat, June 4	Sun, Jun 5			
				S. Domenico	Madonna	Feynman	S. Francesco		S. Domenico	Madonna	Feynman	S. Francesco	S. Domenico	Madonna	Feynman	S. Francesco		S. Domenico	Madonna	Feynman	S. Francesco					
	08:40	08:45	Welcome and opening remarks (Guerri, Spadon, Davis, Fabbiani, Parise, Guthrie)																							
	08:45	09:00																								
09:00	09:00	09:15		High-pressure crystallography: An introduction (McMahon)	High-pressure phase transitions (Angel)				Dynamic compression: Applications (Eggert)	Synchrotron and neutron studies in planetary science (Maynard-Casely)				Pharmaceutical drug molecules (Fabbiani)				Pressure-induced amorphisation (Machon)	Techniques for materials discovery and optimisation using h-p synthesis (Parise)				Instrumental innovations at neutron sources (Guthrie)			
	09:15	09:30																								
	09:30	09:45																								
	09:45	10:00																								
10:00	10:00	10:15	Data analysis 1: Pressure and EoS (Angel)	Understanding phase stability: intermolecular interactions in molecular crystals (Parsons)				Inelastic scattering (Jackson)	Mössbauer spectroscopy (Jackson)				Single-molecule magnets (Parsons)				In situ high-pressure crystallisation (Katrusiak)	Selected participants talks				Advances in instrumentation at photon sources (Mao)				
	10:15	10:30																								
	10:30	10:45	Coffee				Coffee	Coffee				Coffee				Coffee	Coffee				Coffee					
	10:45	11:00																								
11:00	11:00	11:15	Dynamic compression: Principles (Eggert)	Theoretical aspects of materials' properties at extreme p/T conditions (Scandolo)				An introduction to X-ray Absorption Spectroscopy: principles and applications (Pascarelli)	An introduction to X-ray Magnetic Circular Dichroism: principles and applications (Pascarelli)				Pair distribution function analysis (Chapman)				Crystal structure prediction and metadynamics simulations at high pressure (Martoniak)	MOFs and other framework materials (Chapman)				Selected participants talks				
	11:15	11:30																								
	11:30	11:45																								
	11:45	12:00																								
12:00	12:00	12:15	Multianvil techniques and their application in Earth and materials sciences (Irfune)	Data analysis 2: Principles of data reduction (Angel)				Investigating structure and dynamics by high-pressure neutron diffraction and quasi-elastic scattering (Bove)	Biological systems and high-pressure SAXS (Brooks)				Workshop: Communication of High-Pressure Crystallography (Maynard-Casely)				Liquids and glasses (Sanloup)	New materials under extreme environments (Mao)								
	12:15	12:30																								
	12:30	12:45																								
	12:45	13:00																								
13:00	13:00	14:00	Lunch				Lunch	Lunch				Lunch				Lunch	Lunch				Lunch					
14:00	14:00	14:15	Synchrotron X-ray diffraction techniques and complex structures of the elements (McMahon)	Short (2-3 mins) presentations of poster, odd numbers				Excursion 1									Excursion 2, buffet dinner at Segesta					Selected participants talks				
	14:15	14:30																								
	14:30	14:45																								
	14:45	15:00																								
15:00	15:00	15:15	Neutron diffraction (Guthrie)	Demo: Angel (EosFit)				Excursion 1	ABSORB - Demo				Clathrates - follow me	CCDC Workshop	HP cryst:10 students only	Short (2-3 mins) presentations of poster, even numbers				Selected participants talks						
	15:15	15:30																								
	15:30	15:45															Bruker: pure demo				Future Challenges round table					
	15:45	16:00																								
16:00	16:00	16:15	Coffee				Excursion 1	Coffee				Coffee				Coffee				Coffee						
	16:15	16:30																								
	16:30	16:45	Workshops introduction																	Future Challenges panel discussion						
	16:45	17:00																								
17:00	17:00	17:15	Workshops introduction + sign up	Bruker: pure demo	EosFit: follow me	CCDC Workshop	HP cryst:10 students only	Excursion 1													Excursion 2, buffet dinner at Segesta	EosFit - Follow-me				Closing remarks and awards
	17:15	17:30																								
	17:30	17:45																								
	17:45	18:00																								
18:00	20:00	20:00	Free time	Poster session odd numbers				Excursion 1	Free time				Poster session even numbers				Free time				Free time					
20:00	20:00	-	Welcom buffet + Folk show				Pasta party				Pizza party				Free time				Goodbye buffet							

ARRIVALS

DEPARTURES