Wendy	Mao	1	Emerging experimental techniques	Nanoscale x-ray imaging in a diamond anvil cel	Monday, July 30	8:30 AM
Dayne	Fratanduono	1	Emerging experimental techniques	Phase transformation kinetics and the liquid structure factor of shoc compressed Sn	Monday July	9:00 AM
Thomas	Meier	1	Emerging experimental techniques	On the way to NMR at Megabar Pressures: Observation of Nuclear Quantum Effects and Hydrogen Bond Symmetrization in High Pressure Ices	Monday, July 30	9:30 AM
Martin	Meven	1	Emerging experimental techniques	New High Pressure Cells for Single Crystal Diffraction with Hot Neutrons at the Heinz Maier- Leibnitz Zentrum (MLZ)	Monday, July 30	10:00 AM
Camelia	Stan	1	Emerging experimental techniques	Tandem X-ray microdiffraction and microfluorescence for highpressure materials characterization	Monday, July 30	11:00 AM
Viktor	Struzhkin	2	Advanced synchrotron and optical characterization of materials at extreme conditions	Synthesis of new hydrides at high pressures	Monday, July 30	11:30 AM
Oliver	Tschauner	2	Advanced synchrotron and optical characterization of materials at extreme conditions		• •	12:00 PM
Stanislav	Sinogeikin	2	Advanced synchrotron and optical characterization of materials at extreme conditions	Advanced synchrotron techniques for high-pressure high/low temperature research at HPCAT, Advanced Photon Source	Monday, July 30	12:30 PM
Nicolas	Holtgrewe	2	Advanced synchrotron and optical characterization of materials at extreme conditions	Advanced high-resolution	Monday, July 30	2:30 PM
Gaston	Garbarino	2	Advanced synchrotron and optical characterization of materials at extreme conditions	Extreme conditions studies at	Monday, July 30	3:00 PM
Yoshinori	Tange	2	Advanced synchrotron and optical characterization of materials at extreme conditions	Time-resolved XFEL observation of shock-wave propagating material	Monday, July 30	4:00 PM
Ross	Howie	2	Advanced synchrotron and optical characterization of materials at extreme conditions	Synthesis and characterization of novel hydrides at high pressure and temperature	Monday, July 30	4:30 PM

Christopher	Tulk	2	Advanced synchrotron and optical characterization of materials at extreme conditions	I An Undate on Recent	Monday, July 30	5:00 PM
Bin	Chen	2	Advanced synchrotron and optical characterization of materials at extreme conditions		Monday, July 30	5:30 PM
Przemyslaw	Dera	2	Advanced synchrotron and optical characterization of materials at extreme conditions	I Hypervalent penta-coordinated	Monday, July 30	6:00 PM
Takeshi	Sakai	3	New frontiers in extreme conditions crystallography	Technical development of doublestage diamond anvil cell and equations of state at multimegabar condition	Tuesday, July 31	8:00 AM
Christopher	Wehrenberg	3	New frontiers in extreme conditions crystallography	Measuring twinning and slip during shock-compression of Ta from in-situ x-ray diffraction	Tuesday, July 31	8:30 AM
Stewart	McWilliams	3	New frontiers in extreme conditions crystallography	New advances in free electron laser x-ray diffraction under pressure: from complex structure to dynamic diamond cells	Tuesday, July 31	9:00 AM
Earl	O'Bannon	3	New frontiers in extreme conditions crystallography	Powder diffraction of simple metals at pressures greater than	Tuesday, July 31	9:30 AM
Christine	Beavers	4	High pressure chemistry and synthesis	5 0 Mhars Coordination Chemistry & Porou Materials at High Pressure: What the Mineral Physicists Don't	Tuesday, July 31	10:00 AM
David	Allan	4	High pressure chemistry and synthesis	High-pressure structural chemistr studies on beamline I19 at Diamond Light Source	Tuesday, July 31	11:00 AM
Weizhao	Cai	4	High pressure chemistry and synthesis	High pressure behavior of hydrocarbons: case studies on benzene and benz[a]anthracene	Tuesday, July 31	11:30 AM
James	Walsh	4	High pressure chemistry and synthesis	High-Pressure Synthesis of Novel Binary Intermetallics	Tuesday, July 31	12:00 PM
Sebastian	Vogel	4	High pressure chemistry and synthesis	Phosphorus on the Brink of Six fold Coordination in Nitride Compounds	Tuesday, July 31	12:30 PM
Jon	Eggert		Keynote 1		Tuesday, July 31	2:30 PM
Siddhartha	Pathak	5	Materials science	Structure and Properties of Pseudomorphically Transformed bcc Mg Synthesized Using Interface Strain Engineering	Tuesday, July 31	4:00 PM

Sheng-Yi	Xie	5	Materials science	Correlated High-Pressure Phase Sequence of Metal-dioxides unde Strong Compression	Tuesday, July 31	4:30 PM
Qiaoshi	Zeng	5	Materials science	Two-way tuning of order in a disordered metallic glass	Tuesday, July 31	5:00 PM
Zhidan	Zeng	5	Materials science	Synthesis of quenchable amorphous diamond under high pressure and temperature	Tuesday, July 31	5:30 PM
Haozhe	Liu	5	Materials science		Tuesday, July 31	6:00 PM
Peter	Lazor	6	Materials metastability under pressure	Phase Transitions and Magnetovolume Anomaly in CoCrFeNixAl1-x (x = 0, 0.5, 0.75) High-Entropy Alloys	Wednesday, August 1	8:00 AM
Jodie	Bradby	6	Materials metastability under pressure	Using both nanoindentation and diamond anvil cells to understand phase transformations in Si, Ge and Glassy Carbon		8:30 AM
Sung-keun	Lee	6	Materials metastability under pressure	Nature of amorphous oxides under extreme compression via solid-state NMR and inelastic X-ray scattering	Wednesday, August 1	9:00 AM
Guoyin	Shen	6	Materials metastability under pressure	Metastable melting under decompression	Wednesday, August 1	9:30 AM
Hannah	Shelton	6	Materials metastability under pressure	The ideal crystal structure o cristobalite X-I: A bridge in SiO2	Wednesday, August 1	10:00 AM
Yongjae	Lee		Keynote 2	Super-hydration from zeolites to clav	Wednesday, August 1	11:00 AM
Ho-kwang (David)	Mao	7	High-pressure crystallography in earth and planetary science	Crystal structures of high-pressure solid phases of hydrogen to 230 GPa based on x-ray diffraction	Wednesday, August 1	12:00 PM
Yingwei	Fei	7	High-pressure crystallography in earth and planetary science	Planetary core compositions constrained from density measurements and chemical differentiation	Wednesday, August 1	12:30 PM
Jonathan	Tischler	7	High-pressure crystallography in earth and planetary science	Application of sub-micron x-ray beams to diffraction from small high pressure samples.	Wednesday, August 1	2:30 PM
Jin	Liu	7	High-pressure crystallography in earth and planetary science	Oxygenated iron oxide at Earth's lower mantle conditions	Wednesday, August 1	3:00 PM
Li	Zhang	7	High-pressure crystallography in earth and planetary science	Interaction of major volatiles with the lower mantle: a multigrain approach	Wednesday, August 1	4:00 PM
Ronald	Miletich	7	High-pressure crystallography in earth and planetary science	Crystalline polymeric carbon dioxide is stable at megabar conditions	Wednesday, August 1	4:30 PM

Shanti	Deemyad		Keynote 3		Thursday, August 2	8:00 AM
Gilberto	Fabbris	8	Electronic and magnetic materials at extreme conditions	Probing the electronic structure and magnetism of 5d materials using resonant x-ray techniques a high pressure	Thursday,	9:00 AM
Mingliang	Tian	8	Electronic and magnetic materials at extreme conditions	Quantum transport property in trigonal layered PtBi2: a possible new triply degenerate point fermions and pressure-induced superconductivity	Thursday, August 2	9:30 AM
Ricardo	Reis	8	Electronic and magnetic materials at extreme	Pressure tuning the Fermi surface topology of Weyl semimetals	Thursday, August 2	10:00 AM
Audrey	Grockowiak	8	conditions Electronic and magnetic materials at extreme	High pressure, high magnetic field Fermiology studies of YBCO	Thursday, August 2	11:00 AM
Xiancheng	Wang	8	Electronic and magnetic materials at extreme conditions	A New Quasi One-Dimensional Compound Ba3TiTe5 and Superconductivity Induced by Pressure	Thursday, August 2	11:30 AM
Xiangang	Wan	8	Electronic and magnetic materials at extreme	Theoretical study of the magnetic anisotropy energy in bulk Na4IrO4 Computational Modeling of	Thursday, August 2	12:00 PM
Cheng-Chien	Chen	8	Electronic and magnetic materials at extreme conditions	Mechanical and Electronic Properties of Superhard Boron-	Thursday, August 2	12:30 PM
Weiwei	Xie	8	Electronic and magnetic materials at extreme	Dimorphic SrMn2P2 under varian pressures - Theory and experiment in harmony	Thursday, August 2	2:30 PM
Koichiro	Umemoto	9	conditions Computational approaches in extreme conditions science	Post-post-perovskite transitions in MgSiO3 by first principles	Thursday, August 2	3:00 PM
Shuai	Zhang	9	Computational approaches in extreme conditions science	Monte Carlo and density function theory simulations	Thursday, August 2	4:00 PM
Rajeev	Ahuja	9	Computational approaches in extreme conditions	structure in Lithium at high	Thursday, August 2	4:30 PM
Zhongqing	Wu	9	Computational approaches in extreme conditions science	Exploring the Earth's interior wit the elasticity of minerals at high pressure and temperature	Thursday, August 2	5:00 PM
John	Tse	9	Computational approaches in extreme conditions science	The Electronic Ground State of FeO2	Thursday, August 2	5:30 PM