

HPSTAR Workshop 2014: Synchrotron Science and Deep Earth Processes

Schedule

DAY 1, Nov 13th of 2014

Morning Session Chair: Dr. Bin Chen

When	Speaker	Affiliation	Talk Title	Where
8:30-8:45	Dr. Ho-kwang Mao	HPSTAR, China	Opening Address	6-410
8:45-9:30	Dr. Bjorn Mysen	CIW, USA	Silicate melt/aqueous fluid interaction characterized in-situ to 5 GPa/1200K	6-410
9:35-10:20	Prof. Quentin Williams	COMPRES/UCSC, USA	Planetary Structure at High Pressures: Mineral, Melt and Observational Elastic Constraints on the Interior Structures of Rocky Solar System Bodies	6-410
20 min	Coffee Break			6-409
10:40-11:25	Prof. Sarah Tolbert	UCLA, USA	Using High Pressure Diffraction to Understand the Elastic and Plastic Behavior of Ultra Hard Transition Metal Borides	6-410
11:30-12:15	Dr. Hengzhong Zhang	UC Berkeley, USA	Effects of pressure and size on stability and transformation of nanophases	6-410
12:30-13:00	Lunch			SSRF cafeteria
13:10-13:40	SSRF tour			SSRF

Afternoon Session Chair: Dr. Wenge Yang

When	Speaker	Affiliation	Talk Title	Where
14:00-14:45	Dr. Stephen Kevan	ALS of LBNL, USA	Soft X-ray Science at the ALS: a High Pressure Future	6-410
14:50-15:35	Dr. Alastair MacDowell	ALS of LBNL, USA	Design considerations for High Pressure Experiments at the Advanced Light Source	6-410
20 min	Coffee Break			6-409
15:55-16:40	Dr. Christine Beavers	COMPRES/LBNL, USA	Synchrotron-based extreme conditions single crystal diffraction in Earth sciences	6-410
16:45-17:30	Prof. Marie-Louise Saboungi	IMPMP, France	High-temperature levitated liquids: structure, dynamics and simulations	6-410
18:00	Dinner			SSRF cafeteria
19:00-20:30	Free Discussions			6-410

HPSTAR Workshop 2014: Synchrotron Science and Deep Earth Processes

Schedule

DAY 2, Nov 14th of 2014

Morning Session Chair: Dr. Jung-Fu "Afu" Lin

When	Speaker	Affiliation	Talk Title	Where
8:45-9:30	Prof. Shun-ichiro Karato	Yale University, USA	Metallic Fe, Hydrogen and Melting in the Earth's Lower Mantle	6-410
9:35-10:20	Prof. Eiji Ohtani	Tohoku University, Japan	Stability of high pressure hydrous phases and water storage in the lower mantle	6-410
20 min	Coffee Break			6-409
10:40-11:25	Prof. Choong-Shik Yoo	Washington State University, USA	Barochemistry: Predictive Solid-State Reactions to Novel Energy Materials at Extreme Conditions	6-410
11:30-12:15	Dr. Michael Martin	ALS of LBNL, USA	New Dimensions in Synchrotron Infrared Spectroscopy and Imaging	6-410
12:15-12:25	Group Picturing			front door
12:30-13:00	Lunch			SSRF cafeteria

Afternoon Session Chair: Dr. Li Zhang

When	Speaker	Affiliation	Talk Title	Where
14:00-14:45	Dr. Yang Ren	APS of ANL, USA	In-situ synchrotron high energy x-ray study of transforming materials	6-410
14:50-15:35	Prof. Xiaoxu Huang	Technical University of Denmark	Orientation versus size effect on dislocation structures in deformed metals	6-410
20 min	Coffee Break			6-409
15:55-16:40	Prof. Soeren Schmidt	Technical University of Denmark	3D orientation mapping of crystalline materials at multiple length-scales utilizing	6-410
16:45-17:30	Dr. Ho-kwang Mao	HPSTAR, China	HPSTAR and high-pressure science	6-410
18:00	Dinner			SSRF cafeteria