**Detailed Program** 

## 2nd workshop for Extreme Conditions Research in a Large Volume Press at PETRA III

At Seminar room 109, Bldg. 25f, DESY, Hamburg, Germany September 10-11, 2012

Program of Events

## Monday, September 10 (Day1):

- 11:30 13:00 Registration
- 13:00 13:15, Edgar Weckert (DESY, Germany) Welcome
- 13:15 13:30, **Wolfgang Drube** (DESY, Germany) PETRA III extension
- 13:30 14:00, **Yanbin Wang** (GSECARS, University of Chicago, USA) *invited* Large-volume high-pressure research with synchrotron radiation for in-situ studies of earth and planetary materials
- 14:00 14:15, **David Dobson** (University College London, UK) Material Properties measurements using synchrotron X-radiography
- 14:15 14:30, **Nadege Hilairet** (CNRS, Universite Lille 1, France) Aseismic Deformation of Dehydrating Serpentinite
- 14:30 14:45, **Paul Raterron** (CNRS, Universite Lille 1, France) Deformation of Earth Mantle Materials in the D-DIA Coupled with Synchrotron Radiation
- 14:45 15:15, coffee break
- 15:15 15:45, **Tetsuo Irifune** (GRC, Ehime University, Japan) *invited Recent activities of Ehime group at BL04B1, SPring-8*
- 15:45 16:00, **Natalia Dubrovinskia** (University of Bayreuth, Germany) LVP technique for synthesis and investigations of novel materials
- 16:15 16:30, Marcus Schwarz (TU-Bergakademie Freiberg, Germany) Advanced Ceramics and New Assemblies with low X-ray Absorption for High Pressure-High Temperature Multianvil Synchrotron
- 16:30 16:45, Norimasa Nishiyama (DESY, Germany) Synthesis of nanopolycrystalline stishovite using Kawai-type multi-anvil apparatus
- 16:45 18:00, poster presentations and coffee break (ground floor, 25f)
- 19:00 22:00, Workshop dinner (DESY bistro)

## Tuesday, September 11(Day2):

08:55 - 09:00, Announcement

- 09:00 09:15, **Masashi Hasegawa** (Nagoya University, Japan) *invited* Synthesis and crystal growth of novel materials in high pressure and temperature using diamond anvil cell and laser heating
- 09:15 09:30, **Tomoo Katsura** (BGI, University of Bayreuth, Germany) Possible high-energy X-ray diffraction studies at the LVP beam line in PETRA III Extension
- 09:30 09:45, **Simon Hunt** (University College London, UK) *X-radiography based method for measuring thermal diffusivity under in-situ* conditions
- 09:45 10:00, **Chrystele Sanloup** (University of Edinburgh, UK) Structure and density of silicate melts using large-volume presses
- 10:00 10:15, **Oliver Beermann** (Universitat Kiel, Germany) From high to moderate p/T-conditions - in situ insights to core formation scenarios as well as to magmatic and volcanic processes
- 10:15 10:45, coffee break
- 10:45 11:00, Norimasa Nishiyama (DESY, Germany) beamline, LVP equipment, detectors 11:00 12:00, Discussion

Poster presentations Fabrice Brunet (ISTERRE - CNRS, France) Hanns-Peter Liermann (DESY, Germany) Tony Bell (DESY, Germany) Norimasa Nishiyama (DESY, Germany)