

# The Sixth Meeting of Research Consortium on High-pressure Research

September 25, 2014

Auditorium C226, Second Floor, Building 2, Dept. of Science

## Opening Remark

10:00 - 10:10 **Leading Prof. Takashi Hiyama**  
Head of International Collaborative Research Group for Science and Technology

## Session-1 "High pressure research and earth interior science" (Chaired by Masanori Matsui)

10:10 - 10:50 **Prof. Eiji Ito** (Institute for study of the Earth's Interior, Okayama University)  
"Recent status of the Kawai-type apparatus and new pressure fixed points"  
10:50 - 11:30 **Prof. Paul Asimow** (California Institute of Technology)  
"Pre-heated shock experiments: equation of state, shock temperature, and sound speed results  
on MgO to 2.5 Mbar and a variety of silicate liquids to 1.5 Mbar"  
11:30 - 12:10 **Prof. Akira Yoshiasa** (Kumamoto University)  
"Detail structure analyses of the earth's interior and melt under high pressure and high temperature"

12:10 - 13:10 **Lunch time**

## Session-2 "Equation of state of solids and pressure scale" (Chaired by Eiji Ito)

13:10 - 13:50 **Dr. Yingwei Fei** (Geophysical Laboratory, Carnegie Institution of Washington)  
"Establishing thermal equations of state of solids from both static and dynamic compression data"  
13:50 - 14:30 **Prof. Masanori Matsui** (Earth Sciences, School of Science University of Hyogo)  
"Pressure scales at high temperatures and high pressures"  
14:30 - 15:00 **Dr. Takeshi Sakai** (Ehime University)  
"Simultaneous volume measurement of MgO and Pt up to 3 Mbar"  
15:00 - 15:40 **Dr. Scott C. Alexander** (Sandia National Laboratories)  
"Dynamic material strength measurement at Sandia National Laboratories"  
15:40 - 16:20 **Prof. Tsutomu Mashimo** (Institute of Pulsed Power Science Kumamoto University)  
"Hugoniot-measurement experiments of the room and high temperature samples for EOS study of metals"

16:20 - 16:40 **Coffee break**

## Session-3 "Recent studies by young researchers" (Chaired by Akira Yoshiasa)

16:40 - 17:00 **Dr. Xu Liu** (Kumamoto University)  
"Anisotropic elastic plastic transition and shear mechanism of MgO under shock compression"  
17:00 - 17:20 **Mr. Hideaki Isamu** (Kumamoto University)  
"Measurement of electrical conductivity of water under shock compression"  
17:20 - 17:40 **Mr. Tsubasa Tobase** (Kumamoto University)  
"Unique local structure in impact related glass"

19:00 - 21:00 **Banquet**

## Contact Persons:

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