The 3rd Young Earth Scientist Association (YESA) workshop

"Properties of hydrogen and water in the Earth and planetary interiors examined by experimental and theoretical approaches"

Date: September 2-3  Venue: Kyotsu-Kaigishitsu, Geodynamics Research Center 4F

Program

Thursday September 2

CHAIRMAN TIME SPEAKER TITLE
S. MACHIDA 13:00 Opening Remarks
M. NISHI 13:05 A. SHINOZAKI Incorporation of hydrogen molecules into olivine and hydrogen reservoir in the upper mantle
13:30 Y. SHIBAZAKI Partitioning of hydrogen between iron and ringwoodite: Implications for hydrogen transport into the Martian core
13:55 A. SHIMOJYUKU Electrical conductivity of fluid-bearing quartzite under high pressure
14:20 J. TSUCHIYA Elasticity of Serpentine; first principles investigation
14:45 Coffee Break

S. MACHIDA 15:00 M. YASUI Experimental study on the flow law of ice-silica mixtures: Implications for geology of small to middle-sized icy satellites
15:25 S. HASHIMOTO Structural Transition of Semi-clathrate Hydrates Containing Quaternary Ammonium Salts Induced by Hydrogen Fugacity
15:50 T. TSUDA Enhancement of Hydrogen Storage Capacity in Pre-treated Semi-clathrate Hydrates
16:15 S. MACHIDA High pressure stability of hydrogen hydrate and symmetrization of hydrogen bond
16:40 Coffee Break

A. YAMADA 16:55 A. SANO High pressure neutron diffraction experiment at SNAP
17:20 M. ARAKAWA Neutron Diffraction Study of Hydrogen-ordered Ice XI: Memory Effect on Hydrogen-ordering
17:45 H. FUKAZAWA The existence of ferroelectric ice XI on icy bodies in outer solar system
18:30 Conference Dinner

Friday September 3

Y. TANGE 10:00 T. KIMURA Generation of off-Hugoniot conditions on water using high power laser and precompression target
10:25 R. IIZUKA In situ observation of the pressure-induced phase transitions of portlandite and influential factors on the pressure response
10:50 K. KOMATSU The relationship between polyhedral network and hydrogen bonds in aluminum hydroxides
11:15 S. MACHIDA overall discussion
12:15 Fin.

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