

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
S. MACHIDA	11:15		overall discussion
	12:15		Fin.

Contact address:

Geodynamics Research Center, Ehime University
2-5 Bunkyo-cho, Matsuyama, Ehime 790-8577, Japan
Tel: +81-89-927-8151, E-mail: machida@sci.ehime-u.ac.jp

