

The 4th YESA International Workshop

“ Effect of heterogeneities on mantle dynamics”

Date: September 1-2, 2011

Venue: Geodynamics Research Center, Ehime University,
Kyotsu-Kaigishitsu, Science Research Building I 4F

Program

Thursday September 1

Chairman	Time	Speaker	Affiliation	Title
	13:00	H. Ichikawa	Ehime Univ.	Opening Remarks
M. Nishi	13:05	S. Yamamoto	Univ. Tokyo	Reduction of continental crust: Sediment subduction, tectonic erosion and arc subduction
	13:35	T. Ishii	Gakusyuin Univ.	The fate of subducted continental crust across the 660-km discontinuity from high-pressure phase transitions experiments
	14:05	K. Kawai	Tokyo Tech.	The second continent
	14:35			<i>Coffee Break</i>
T. Kawazoe	14:50	H. Ichikawa	Ehime Univ.	Supply rate of continental materials to the deep mantle
	15:20	A. To	JAMSTEC	On the estimation of the wavelength and amplitude of the heterogeneous structure near the core-mantle boundary
	15:50	Y. Usui	Ehime Univ.	Observations of seismic anisotropy above/below D" discontinuity and its mineral physics interpretation
	16:20			<i>Coffee Break</i>
T. Ohuchi	16:40	R. Nomura	Tokyo Tech.	Spin crossover and iron-rich silicate melt in the Earth's deep mantle
	17:10	H. Dekura	Ehime Univ.	Lattice thermal conductivity of MgO in the deep mantle condition
	17:40			<i>Dinner</i>

Friday September 2

A. Yamada	9:50	M. Morishige	Univ. Tokyo	P-wave anisotropy expected from small-scale convection in mantle wedge below Tohoku region, Japan
	10:20	S. Azuma	Hiroshima Univ.	Strength contrast between plagioclase and olivine and its significance on rheological structure of Earth and Venus
	10:50	K. Ueki	Tokyo Tech.	Thermodynamic calculation for partial melting of mantle peridotite by system energy minimization
	11:20			<i>Lunch</i>
Y. Kuwayama	13:00	A. Miyauchi	Ehime Univ.	Numerical investigations of the effects of the spatial variations in transport properties on the convective patterns in the mantle
	13:30	C. Tachinami	Tokyo Tech.	Mantle convection in extra solar super-Earths: the effect of compression
	14:00	H. Ichikawa	Ehime Univ.	Overall discussion
	14:30			Fin.

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