

International Workshop on KamLAND Geoscience

; Toward Enhanced Reference Earth Models for Geoneutrino Analysis

Day 1 : 15, January, 2015 (Conference room “Golden Cup” on the 3rd floor)		
9:30-10:00	Registration	
10:00-10:10	Welcome	Kunio Inoue (Tohoku U.)
Session 1 : Geological Motivations of Neutrino Geoscience (Chair: Hiroko Watanabe)		
10:10-10:30	Why do we measure U and Th in the Earth?	Bill McDonough (U. Maryland)
10:30-11:00	Total heat loss of the Earth and heat production in the continental crust	Makoto Yamano (U. Tokyo)
11:00-11:20	Coffee break	
Session 2 : Current Understanding of Neutrino (Chair: Kunio Inoue)		
11:20-11:50	Broad overview of neutrino physics	Itaru Shimizu (Tohoku U.)
11:50-12:20	Geo-neutrino measurement with KamLAND	Hiroko Watanabe (Tohoku U.)
12:20-13:30	Lunch	
Session 3 : Geoneutrino Flux Models (Chair: Hiroyuki Tanaka)		
13:30-14:00	KamLAND	Sanshiro Enomoto (U. Washington)
14:00-14:30	Borexino	Fabio Mantovani (U. Ferrara)
14:30-15:00	SNO+	Bill McDonough (U. Maryland)
15:00-15:30	Geophysical 3D modeling for geoneutrino calculations	Virginia Strati (U. Ferrara)
15:30-15:50	Coffee break	
Session 4 : Japanese Geoscience I (Chair: Bill McDonough)		
15:50-16:20	Determining crustal composition of Japan island arc	Tsuyoshi Iizuka (U. Tokyo)
16:20-16:50	Seismological crust model for KamLAND experiment	Nozomu Takeuchi (Tokyo U.)
Session 5 : Discussion (Chair: Hiroko Watanabe)		
16:50-18:00	Round table discussion with coffee	all participants
18:30-20:30	Reception (“Peony” on the 11th floor)	

Day 2 : 16, January, 2015 (Conference room “Golden Cup” on the 3rd floor)		
Session 6 : Japanese Geoscience II (Chair: Fabio Mantovani)		
9:30-10:00	Surface geology of the Japanese Islands	Shigeru Otoh (Toyama U.)
10:00-10:30	Geophysical observation of the 100 km region around KamLAND	Tohru Watanabe (Toyama U.)
10:30-10:55	Terrestrial and marine geochemical mapping project in Japan	Atsuyuki Ohta (Geological Survey of Japan)
10:55-11:15	Coffee break	
Session 7 : Future Projects (Chair: Itaru Shimizu)		
11:15-11:35	Experimental study of anti-neutrino directional measurement	Yutaka Shirahata (Tohoku U.)
11:35-11:55	Geoneutrino graphy	Hirofumi Tanaka (U. Tokyo)
11:55-12:10	Hanohano	Bill McDonough (U. Maryland)
12:10-13:30	Lunch	
Session 8 : Working Group Meeting		
13:30-17:00	Working Group Meeting	all participants