

## Neutrino Geoscience 2013

Takayama, JAPAN 21st-23rd  
March, 2013

# Agenda

Update: 5th of Feb, 2013



[Participants List](#)



[Poster List](#)

### 3/21 (Thursday)

*8:30 – 9:00 Registration*

*[Opening] Chair:*

9:00 – 9:10	Welcome	TBA	-
9:10 – 9:40	Geo-neutrino Science (overview)	Bill McDonough (U. Maryland)	-

*[ongoing experiments] Chair:*

9:40 – 10:10	KamLAND	Hiroko Watanabe (Tohoku U.)	-
10:10 – 10:40	Borexino	Sandra Zavatarelli (INFN)	-

*10:40 – 11:00 Coffee Break*

*[Current understanding of neutrino-1] Chair:*

11:00 – 11:30	Geo-neutrinos: combined KamLAND and Borexino analysis, and future	Fabio Mantovani (U. Ferrara)	-
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*[earth formation and dynamics-1] Chair:*

11:30 – 12:00	Earth models and primordial heat	Ondřej Šrámek (U. Maryland)	-
12:00 – 12:30	Seismic imaging of subducting slabs and mantle unwellin	Dapeng Zhao (Tohoku U.)	-

	Neutrino	Neutrino	
<i>12:30 – 14:00 Lunch</i>			
<i>[earth formation and dynamics-2] Chair:</i>			
14:00 – 14:30	Biological effects on the distribution of antineutrino production in the mantle	Norm Sleep (Stanford U.)	-
<i>[current understanding of neutrino-2] Chair:</i>			
14:30 – 15:00	Precision neutrino oscillation parameters (recent findings, global analysis)	Eligio Lisi (INFN)	-
15:00 – 15:30	Reactor Spectra, cross section, background subtraction, 4th neutrino	ThierryLasserre (Saclay)	-
<i>15:30 – 15:50 Coffee Break</i>			
<i>[terrestrial heat] Chair:</i>			
15:50 – 16:20	Surface heat flow	Claude Jaupart (Paris)	-
16:20 – 16:50	Mantle convection and heat loss	John Crowley (Oxford U.)	-
<i>[coming and future experiments-1] Chair:</i>			
16:50 – 17:20	SNO+ update	Mark Chen (Queens U.)	-
17:20 – 17:50	Daya Bay II update	Zhimin Wang (IHEP Beijing)	-
17:50 -	Open Discussion		-

**3/22 (Friday)**

<i>[earth models-1] Chair:</i>			
9:00-9:30	Density Structure of the Earth's Lithosphere and Mantle	WalterMooney (Stanford U.)	-
9:30-10:00	Geochemical earth model	Sujoy Mukhopadhyay (Harvard U.)	-
<i>[coming and future experiments-2] Chair:</i>			
10:00-10:30	Neutrino Tomography (Hyper-K, IceCube)	Kotoyo Hoshina(U. Madison)	-

<i>10:30-10:50 Coffee Break</i>			
<i>[coming and future experiments-3] Chair:</i>			
10:50-11:20	Reactor Monitoring	Makoto Minowa (U. Tokyo)	-
<i>[earth models-2] Chair:</i>			
11:20-11:50	Cosmochemical earth model	Marc Javoy (U. Paris)	-
11:50-12:20	Mineralogical model of the lower mantle: constraints from elasticity	Motohiko Murakami (Tohoku U.)	-
<i>12:20-12:30 Conference Photo</i>			
<i>12:30-14:00 Lunch</i>			
<i>[radioactivity distribution -1] Chair:</i>			
14:00-14:30	Radioactivity in continental crust	Yu Huang (U. Maryland)	-
14:30-15:00	Radioactivity in oceanic crust	Bill White (Cornell U.)	-
<i>[coming and future experiments-4] Chair:</i>			
15:00-15:30	Anti-neutrino directionality at Double Chooz	Kyohei Nakajima (NiigataU.)	-
15:30-16:00	Open Discussion		-
<i>16:00 – 16:20 Coffee Break</i>			
<i>16:20 – 17:00 Poster Session</i>			
<i>17:00 – 18:00 Tour Around Old Private Houses</i>			
<i>18:00 – 20:00 Conference Dinner at <a href="#">NAGASE</a> (we all go together after the tour.)</i>			

**3/23(Saturday)**

<i>[radioactivity distribution -2] Chair:</i>			
9:00-9:30	Radioactivity in primitive mantle	Matt Jackson (Boston U.)	-
9:30-10:00	Possible reservoirs of radioactivity in the deep	Eduard Carnero	

9:30-10:00	Possible reservoirs of radioactivity in the deep mantle	Edward Garnero (Arizona State U.)	-
<i>[coming and future experiments-5] Chair:</i>			
10:00-10:30	Future Experiments (Hanohano, LENA, ...)	John Learned (U.Hawaii)	-
<i>10:30 – 10:50 Coffee Break</i>			
<i>[summary] Chair:</i>			
10:50 – 11:20	History of geo-neutrino research and dreams	Atsuto Suzuki (KEK)	-
11:20 – 11:50	Concluding remarks	Steve Dye (Hawaii Pacific U.)	-
11:50 – 12:10	Open Discussion		-
<i>12:10 – 13:00 Lunch</i>			
<i>13:00 – 18:00 Under Ground Tour</i>			