Program

Workshop on Physics and Chemistry of Bentonite for Radioactive Waste Disposal

Date : 18th September, 2010

Venue: Lecture Room, B21 in Department of Engineering, Hokkaido University (HU)

http://www.eng.hokudai.ac.jp/graduate/location/#access

8:00 - 8:30	Registration of Participants
8:30-8:35	Opening Remarks, Prof. Tsutomu Sato, HU

Stability Session

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Facilitator:	Prof. Tsutomu Sato, HU
8:35-9:05	Keynote speaker: Long term stability of bentonite in radioactive waste disposal,
	Prof. Tsutomu Sato, HU
9:05-9:45	Invited speaker: Alteration of bentonite in the Aspo HRL experiments, Dr. Ola
	Karnland, Clay Technology AB, Sweden
9:45-10:15	Young researcher speaker, Modeling of multi-ionic transport and alteration in
	concrete/bentonite materials, Dr. Yogarajah Elakneswaran , HU
10:15-10:35	Discussing and listing the issues on long term stability of bentonites
10.25 10.50	Coffee hundl

10:35-10:50Coffee break

Geotechnical Session

Facilitator:	Prof. Hideo Komine, Ibaraki University
10:50-11:10	Keynote speaker: Bridge between physics and chemistry of bentonite from the
	viewpoint of geotechnical engineering, Prof. Hideo Komine, Ibaraki University
11:10-11:40	Invited speaker: Theoretical framework of geomechanics, initial boundary value
	problems and predictions, Prof. Atsushi Iizuka, Kobe University
11:40-11:55	Young researcher speaker: Brand-new experimental data of water diffusion
	coefficient of bentonite and research plan in Ibaraki University: Sachie Endo
	and Takuro Oyamada, Ibaraki University
11:55-12:10	Practical engineer speaker: Hydro-mechanical characteristics and their modeling
	for coupled THM processes of bentonite buffer: Dr. Shuichi Yamamoto,
	Obayashi Corporation
12:10-12:50	Discussing and listing the issues on geotechnical issues of key nuclides in
	bentonite

12:50-13:50 Lunches at Cafeteria of University

Diffusion Session

Facilitator:	Prof. Tamotsu Kozaki, HU
13:50-14:10	Keynote speaker: Current studies on diffusion behaviors of nuclides in bentonite,
	Prof. Tamotsu Kozaki , HU
14:10-14:30	Invited speaker: Modeling Diffusion at the Clay Basal Surface - An Atomistic
	Approach, Mr. Aric Newton, UCB, USA
14:30-15:00	Invited speaker: Diffusion model for ions from the viewpoint of EDL theory,
	Mr. Jarmo Lehikoinen, VTT, Finland
15:00-15:30	Invited speaker: Ion equilibrium between montmorillonite interlayer space and
	an external solution-Consequences for diffusional transport, Dr. Martin
	Birgersson, Clay Technology AB, Sweden
15:30-15:50	Discussing and listing the issues on diffusion behaviors of nuclides in bentonite
15:50-16:30	Wrap-up