

The 1st Workshop on Nanoscopic Approach for Carbon Sequestration (NanoCO₂)

10-11, February 2010 at Hotel Sakan, Akiu, Sendai, Japan

http://www.sakan-net.co.jp/english_001/bath_c001/index.html

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10 February 2010		
INTRODUCTION		
12:55	Katsuo Tsukamoto	Introduction Tohoku University
PLAN		
13:00	Jim De Yoreo	Overview of Center for Nanoscale Control of Geologic
13:50	Saeko Mito	Overall Project Plan in Japan Lawrence Berkeley National Laboratory Kyoto University (RITE)
break 14:40		
ONGOING CARBON SEQUESTRATION PROJECT		
15:00	Carl Steefel	Overview of carbon sequestration research at LBL Lawrence Berkeley National Laboratory
15:40	Akiya Ueda	Geochemical monitoring of calcite precipitation during CO ₂ injection at Ogachi hot dry rock site Kyoto University
16:20	Hisao Satoh	Calcite growths in natural underground systems and Mitsubishi Materilas Co.
16:50	Saeko Mito	Geochemical Trapping at the Pilot-scale CO ₂ Injection Site, Nagaoka, Japan RITE
17:20	Masao Sorai	Experimental approach to mineral dissolution-precipitation processes in a supercritical CO ₂ -water system AIST
dinner 17:50		
RELATED FUNDAMENTALS		
19:40	Katsuo Tsuakmoto	Measuring small dissolution rate of crystals for Carbon Sequestration Tohoku University
20:00	Yuki Araki	Clarification of aragonite formation mechanism by in situ observation in atomic resolution by FM-AFM Tohoku University
20:20	Hiroki Nada	Simulation of gas-hydrate growth AIST
20:40	Gen Sazaki	Molecular Optical Observation of A Snow Crystal Surface Hokkaido University
11 February 2010		
9:00	Yuyuki Kimura	Diffusion into nanoparticles and their own Tohoku University
9:20	Carl Steefel	Reactive transport and mineral dissolution Lawrence Berkeley National Laboratory
9:40	Hirofumi Yamada	Atomic Resolution of crystal surface and the hydration structure near the interface by FM-AFM Kyoto University
10:10	Jim De Yoreo	Biomimetic control of carbonate growth Lawrence Berkeley National Laboratory
break 10:40		
10:50	Takashi Kato	Biomimetalization University of Tokyo
11:20	Hiroshi Miura	Phase Field Simulation of texture of crystals Tohoku University
11:40	Makio Uwaha	Change of supersaturation during nucleation, growth and ripening Nagoya University
12:00	Jim De Yoreo	Closing Remark Lawrence Berkeley National Laboratory