

# 14th International Workshop on WATER DYNAMICS Ultimate Fluids for Metamorphism and Geothermal

Venue: Lecture Room, Aobayama Campus, Tohoku University

## Thursday, March 16th, 2017

16-Mar

Excursion for oversea participants

## Friday, March 17th, 2017

**GSES Research Building (A50)**

9:30-10:50

**Lab Tour**

Time	No.	Speaker	Title	Chairman
<b>Conference Room (Center Hall)</b>				
<b>Opening</b>				
11:00-11:05		Noriyoshi Tsuchiya Tohoku University	WS Framework	<b>M. Uno</b>
11:05-11:10		Noriaki Watanabe Tohoku University	Safety Information	
11:10-11:15		Atsushi Okamoto Tohoku University	Symposium of Metamorphic and Other Rocks	
11:15-11:45	1	Noriyoshi Tsuchiya Tohoku University	Supercritical Geothermal Energy in Subduction System -An Example of Granite-Porphyry System-	
11:45-12:15	2	Noriaki Watanabe Tohoku University	Hydraulic fracturing and permeability gain in high-temperature ductile granite	

**Lunch**

Time	No.	Speaker	Title	Chairman
<b>Hydrothermal and Suprcritical</b>				
13:15-13:45	3	Atsushi Okamoto Tohoku University	Silica-water interaction under sub- to supercritical conditions and its impacts on porosity evolution in fracture	<b>N. Tsuchiya</b>
13:45-14:15	4	Takuya Ishibashi AIST-FREA	Exploring the Links among Fracture Permeability Change, Magnitude of Earthquake, and Seismic Manner	
14:15-14:50	5	Jeffrey Hedenquist University of Ottawa	Critical-behavior fluid at shallow depth (2-3 km): Direct evidence from porphyry Cu deposits	
14:50-15:25	6	Maureen Feineman Pennsylvania State	Boron Mobility and Isotopic Fractionation During the First 50 km of Sediment Subduction and Dehydration in the Nankai Trough, Japan	
15:25-15:40		Break		
<b>Rock Texture and Modeling</b>				
15:40-16:10	7	Kyle Bahr Tohoku University	Earth Science Applications of Agent-Based Modeling	<b>A. Okamoto</b>
16:10-16:45	8	Oliver Plümper University of Utrecht	The nanofluidics of crustal-scale metamorphism	
16:45-17:20	9	Enrique Merino Indiana University	Replacement, metasomatism dynamics, & the blind spot of geochemists.	

17:45

**Workshop Banquet**