



東北大学

Graduate School of Environmental Studies, Tohoku University  
Department of Environmental Studies for Advanced Society

*From 2020, Tsuchiya-Okamoto Lab has restarted as Tsuchiya-Lab and Okamoto-Lab.*

Division of Energy Resources,  
International Energy Resources

**Tsuchiya Lab**

Social science & Science

Prf. N. Tsuchiya

Division of Resource Strategies,  
Geomaterials and Energy Science

**Okamoto Lab**

Science & Engineering

Prf. Okamoto Asst Prf. Uno

Social modeling of  
geothermal development

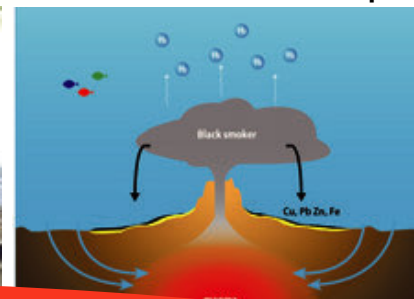


**Geo-Environment**

Environmental assessment



Creation of artificial oredeposits



**–From quantum to the Earth, Environment and Society–**

An Integrated Comprehension and Development of the Earth System

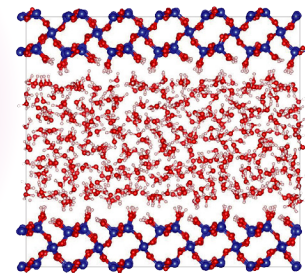
**Geological survey  
at Mongolia**



**Supercritical Fluids**



Raman spectroscopy

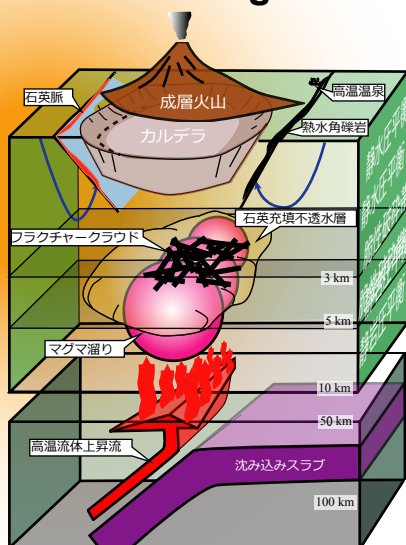


Molecular dynamics simulation

**Fractures in the crust and earthquakes  
Frontiers of Geothermal Energies**

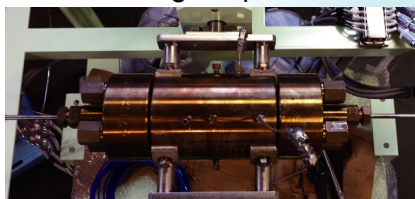


Geological survey  
in Antarctica

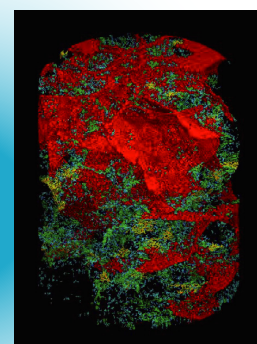


**Geofluid Science**

Water-rock reactions by  
flow through experiments



Fracture networks in rocks



Hydrogen generation  
by hot spring and AI waste

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**Check HP and feel free to contact us!!**

