

**International Session at 15th JGS Symposium on Environmental
Geotechnics**

Organized by the Japanese Geotechnical Society (JGS)



November 16, 2023

A1 conference room, Kumamoto-Jo Hall

09:00-09:15 Welcome remarks

1. Welcome remarks

Professor Takeshi Katsumi (Kyoto University, Vice President of JGS)

2. Promotion of Soils and Foundations

Professor Toru Inui (Osaka University, Associate Editor of S&F)

09:15-10:50 International Session 1: Contamination

Session chair: Hirofumi Sakanakura (NIES)

1. Influence of the hydraulic gradient pattern and fines content on the internal erosion characteristics of glass beads granular material

Nontouch Sirithatthamrong (Kyusyu University)

2. Study on the removal of hexavalent chromium from cement solution by carbon materials and bacteria

Shi Shenjie (Nagasaki University)

3. Study on the adsorption capacity of gaseous mercury on bentonite under different water content

Ji Chen (Kyoto University)

4. Evaluation of Cs adsorption performance of certain natural mordenite type zeolite with ion exchange theory

Yuhei Tanaka (National Institute for Environmental Studies)

5. A conceptual prioritization framework for identifying the energy generation and recovery potential of post-disaster waste materials

Nazli Yesiller (California Polytechnic State University)

6. Investigation on long-term hydraulic performance of bentonite-polymer geosynthetic clay liner permeation with coal combustion product leachates

Kuo Tian (George Mason University)

Lunch break

13:00-14:35 International Session 2: Ground improvement

Session chair: James Hanson (Cal Poly)

1. Investigation of the effectiveness of fiber-reinforcement as an alternative sustainable soil improvement technique for the practical application

Jakhongirbek Ganiev (Nagoya University)

2. Mechanical and chemical deterioration of soil-steel slag mixtures for the application in marine environments

Aye Cho Cho Zaw (Kyoto University)

3. Cost-effective approach for dewatering drinking water sludge by siphon and hand pump

Flemmy Samuel (Nagasaki University)

4. Biocementation of slope soil for erosion control with low-cost materials

M. Azizul Moqsud (Yamaguchi University)

5. Experimental study of mechanical properties of MICP-treated coal fly ash mixtures

Lin Li (Tennessee State University)

6. Evaluation of equivalency of Florida double liner system and subtitle D composite liners based on mass transport and chemical compatibility

Jiannan Chen (University of Central Florida)

14:50-16:25 International Session 3: Sustainability

Session chair: Takeshi Katsumi (Kyoto University)

1. Fluorine removal effect of low-cost adsorbent using organic wastes

Mostafa Ahmed (Nagasaki University)

2. Effect of fine shredded paper on the hydraulic conductivity of soft clay

Birhanu Teshome (Kyoto University)

3. Preliminary study on treatment/disposal scenario building and comprehensive evaluation toward the final disposal of the radioactively contaminated waste outside Fukushima prefecture

Eriko Minari (National Institute for Environmental Studies)

4. Thermal efficiency of hydronic heating concrete pavement utilizing direct geothermal water

I-Hsuan Ho (University of North Dakota)

5. Remediation of contaminated sediments with ultrasound and ozone nanobubbles

Jay Meegoda (New Jersey Institute of Technology)

6. Evaluation of the suitability of oil drill cuttings in fired brick manufacturing

Susan E. Burns (Georgia Institute of Technology)

16:25-16:30 Closing Session