

International Workshop on  
***Mitigation and Countermeasures of Ground Environment***  
***-IW-SHIGA 2005-***

*Program*

***September 26th***

- 9:20-9:30     *Opening ceremony*
- 9:30-10:15    ***Special lecture 1***  
Mitigation of ground-motion in dynamic geotechnical design  
*R. D. Woods*
- 10:15-10:45   ***Keynote lecture 1***  
A propagation property of ground vibration caused by running traffics  
*K. Hayakawa*
- 10:45-11:00   Break
- 11:00-11:45   ***Special lecture 2***  
Ground vibration isolation using gas-filled cushions  
*K. R. Massarsch*
- 11:45-12:15   ***Keynote lecture 2***  
Damage and countermeasure of small embankment dams due to earthquake and typhoon  
*K. Uchida*
- 12:15-13:10   Lunch
- 13:10-14:50   ***Session I, Ground Vibration***  
Study of ground vibration characteristics and factors of disturbance included in microtremor  
*N. Koushige and S. Honda*  
Reduction of road traffic-induced vibration by layered soilbags (Donow)  
*H. Matsuoka, S. Liu, H. Kadota, and Y. Ashikari*  
Field measurement of “Hybrid-type Vibration Isolation Wall” using gas-filled cushions  
*K. Hioki, S. Kushihara, M. Nozu, S. Isoya, M. Otsuka and H. Tsuboi*  
Isolation effect of ground vibration using some wave barriers  
*K. Hayakawa, I. Nakaya, Y. Kamimura, Y. Nabeshima, and H. Ogata*  
Analytical method to evaluated the required bearing capacity of bored piles  
*Y. Kani, K. Hayakawa, Y. Nabeshima, and M. Shimizu*
- 14:50-15:20   Break

15:20-16:40 **Session II, Soil Dynamics**

Evaluation study of a seismically isolated building shook by earthquake off-shore west of Fukuoka prefecture

*T. Irie, T. Mazda, and A. D. Sumaya*

Geo-informatics database and liquefaction potential assessment for earthquake prevention in Shiga Prefecture

*K. Yamamoto, T. Hamada, and Y. Horie*

3-D EFGM applied to liquefaction analysis considering large deformation

*X. Tang, and T. Sato*

Mitigation effect of cut-off wall for floating up displacement of buried structure in liquefiable soil

*N. Hamada, S. Goto, H. Mano, Y. Ohnishi, and A. Onoue*

19:00-21:00 Welcome cruise

**September 27th**

9:20-9:50 **Keynote lecture 3**

Lessons from damage of road embankment in the mid Niigata prefecture earthquake in 2004

*K. Tokida*

9:50-10:30 **Keynote lecture 4**

Design method of compaction grouting for ground improvement

*T. Matsui and A. M. El-Kelesh*

10:30-10:50 Break

10:50-11:35 **Special lecture 3**

Lateral soil movement induced by unsymmetrical surcharges on soft grounds in Korea

*W. P. Hong*

11:35-12:05 **Keynote lecture 5**

Geotechnical lessons learnt from recent earthquake

*Y. Tanaka*

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12:05-13:00 Lunch

13:00-15:00 **Session III, Slope and Embankment Stabilization**

Field monitoring system for natural disasters due to slope failures caused by heavy rain

*K. Sako, K. Iwasaki, R. Fukagawa, and I. Yasukawa*

The slope damage and restoration method in Hanshin Expressway Kita-Kobe route

*Y. Kawakami, S. Seki, M. Nanbu, and T. Endo*

Experimental study on a reinforced earth method with holding effect of slope surface

*Y. Kawajiri, Y. Nabeshima, and S. Kigoshi*

Frictional force of steel-made chain reinforcement applied for fill slope

*M. Fukuda, T. Hongo, and K. Konishi*

A study of seepage problems on levee with method of soil-water coupling analysis

*K. T. Lee, Y. Ohnishi, N. Takeuchi, Y. Mitamura and T. Kobayashi*

Probabilistic analysis of embankment stability with stage construction

*J.G. Chae, Y. Tanaka, and S. Shibuya*

15:00-15:30 Break

15:30-18:10 ***Session IV, Ground Improvement and Deformation***

Effects of adsorption/desorption phenomenon on pump-and-treat remediation for groundwater contaminated with chemical substances

*H. Ishimori, T. Katsumi, K. Hatanaka, and R. Fukagawa*

Experimental study on suction recovery through water absorption by roots of plants in unsaturated ground

*K. Tateyama, and K. Hashimoto*

Earth retaining wall with groundwater flow preservation measures

*H. Ikeda, I. Mikata, T. Asou, Y. Sano, and K. Miyake*

Experimental study on the three dimensional distribution of unsaturated part in the ground improved by SCP

*Y. Nagaoka, Y. Nabeshima, and K. Tokida*

Railway upheavals caused by large-scale under-excavations

*Y. Nagayama, M. Mori, and K. Hasuwa*

Study on simplified prediction method of ground settlement caused by the deformation of earth-retaining walls in soft ground

*M. Shimizu, K. Hayakawa, Y. Nabeshima, and Y. Kani*

Evaluation of sedimentation and consolidation properties using RI-density log for dredging and Reclamation

*T. Umezaki, T. Kawamura, and M. Yoshimura*

Effect of drainage path length on consolidation behavior of quasi-overconsolidated clays through numerical simulations

*K. Oda, K. Tokida, and M. Ono*