

Symposium on geotechnical aspects of Kansai International Airport Symposium sur les aspects géotechniques de l'Aéroport International du Kansai

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Kansai International Airport, which was constructed as a large-scale man-made island, entered 11th year from its opening in September 1994 as the first 24-hour operational airport in Japan. Aiming at the opening of the new runway in 2007, Kansai International Airport Land Development Co., Ltd. (hereafter "KALD") has been conducting the second phase construction project for Kansai International Airport. In the area that will open in 2007, the land development was completed and runway construction began last October.

KALD held the "Symposium on Geotechnical Aspects of Kansai International Airport" as a post-conference of 16ICSMGE held in Osaka last September, in order to foster international discussions related to land reclamation on the clay deposits by introducing geotechnical issues related to the project. The Symposium was held at the Hotel Nikko Kansai Airport located on the Airport Island on September 16 and 17 2005, following the 16ICSMGE Technical Visit (TV-1). Thanks to kind cooperation of the 16ICSMGE Organizing Committee and the Japanese Geotechnical Society, Professor Ralph B. Peck and about 450 specialists participated in the symposium (375 from Japan and 68 from other countries). Total attendance reached almost 800. (Photo 1)

In the Symposium, KALD presented the second phase construction and its management method considering the settlement during the construction. The invited speaker Professor J. M. Duncan of Virginia Tech, USA, then gave a presentation on applicability of the consolidation models to prediction of long-term settlement at the site. This was followed by presentations by experts from the Advisor Committee for Ground Behaviour of Second Phase Island. The details of the presentations can be found in the proceedings of the symposium. The Symposium program is shown below.

September 16, 18:00-20:10

Session: Coordinated by Prof. Emeritus D. Karube (Kobe University, Japan)

The 2nd phase construction of KIA considering the large and long-term settlement of the clay deposit

Dr. T. Tabata (KALD, Japan)

Invited Lecture: Factors Affecting Magnitude of Clay Settlement

Prof. J. M. Duncan (Virginia Tech, USA)

An isotaches-type compression model for predicting long term consolidation of KIA clays

Prof. H. Tanaka (Hokkaido University, Japan)

September 17, Saturday 9:00-10:40

Session: Coordinated by Prof. H. Sekiguchi (Kyoto University)

Subsurface geology of KIA, central Japan

Prof. K. Takemura (Kyoto University, Japan)

Modeling of consolidation characteristics of clays for settlement prediction of KIA

Dr. M. Kobayashi (Coastal Development Institute of Technology, Japan)

Settlement prediction of KIA

Prof. Emeritus T. Shibata (Kyoto University, Japan)

Panel Discussion: Chaired by Prof. T. Matsui (Fukui University of Technology, Japan)

Panelists: Prof. T. Tsuchida (Hiroshima University, Japan)

Prof. M. Nishigaki (Okayama University, Japan)

Dr. M. Mimura (Kyoto University, Japan)

ACKNOWLEDGEMENTS

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Photo 1 Symposium session