

Report on the PIANC Asian Seminar 2024

On October 28, 2024, the PIANC Asian Seminar 2024 was successfully held with the support of the Ministry of Land, Infrastructure, Transport and Tourism (MLIT), the Ministry of Agriculture, Forestry and Fisheries (MAFF) and Japan International Cooperation Agency (JICA).

PIANC Japan organized it as the fourth webinar open to the world, mainly targeting Asian engineers and researchers. We invited leading Asian researchers and experts in soft ground improvement technologies as lecturers.

Over 350 audiences from 26 countries/regions attended the seminar, about 210 of which were from overseas (mainly from Indonesia, Singapore, the Philippines, Hong Kong, Cambodia, Malaysia, and Myanmar). The audience showed their keen interest in the soft soil issues by raising a lot of questions to lecturers.

Seminar Programme

Date & Time: Monday, October 28, 15:30-18:00

Representative of Organizer

Dr. Yoshiaki Kuriyama, Chairman of PIANC-Japan

Opening Address

Mr. Ken Abe, Deputy Director General for Engineering Affairs, Ports and Harbours Bureau, MLIT, Japan.

Video Message

Mr. Francisco Esteban Lefler, President of PIANC, gave the audience an insightful message highlighting a millennia-long relationship between ports infrastructures and soft soils, the importance of Geotechnical Engineering as well as Port Engineering.

-Lecture Session

Moderator: Prof. Yoich Watabe, Hokkaido University

-Lecture 1: "Ground improvement technologies for soft soils: Japan's experiences in coastal development"

Prof. Yoich Watabe, Hokkaido University

- Ground Improvement technologies
 - *Increased shear strength (in stability problems)
 - *Reducing compressibility (in settlement/consolidation problem)
 - *Lightening and strengthening (in stability problem)
 - *Increased liquefaction resistance (in seismic problem)
- Integration of ground improvement technologies
 - *Example of Runway D at Tokyo Haneda Airport

Dr. Yoshiaki Kuriyama



Mr. Ken Abe



Mr. Francisco Esteban Lefler



Prof. Yoich Watabe



Click [here](#) for the presentation by Lecturer 1

-Lecture 2: "Short PVDs method and horizontal drainage enhanced geotextile (HDeG) method for the improvement of soft clay fills"

Prof. CHU Jian, President's Chair Professor, Chair, School of Civil & Environmental Engineering Director, Nanyang Technological University, Singapore



Prof. CHU Jian

- Methods for improvement of soft clay fills
 - *Short PVD + vacuum method
 - *Horizontal Drainage enhanced Geotextile (HDeG) sheet method

Click [here](#) for the presentation by Lecturer 2

-Lecture 3: "Advanced Ground Improvement Technology and its application for the Coastal area"

Dr. Mitsuo Nozu, Fudo Construction Inc.

Dr. Mitsuo Nozu



- Advanced Ground improvement Technology
 - *Deep Mixing...Updates, Advanced design, and Quality control
- Application in Oversea Coastal area
 - *Offshore DMM / Organic clay / Expansive clay

Click [here](#) for the presentation by Lecturer 3

-Lecture 4: "Characteristics of Patimban soft marine clay and soil improvement techniques at Patimban Port Project"

Dr. Le Phuong DONG



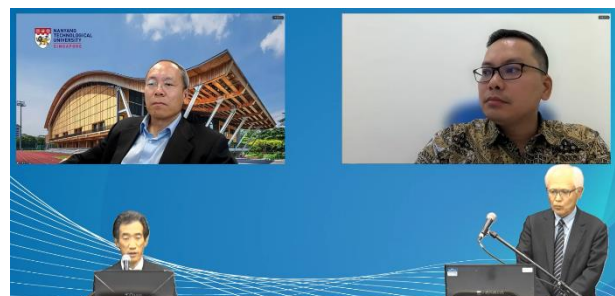
Dr. Le Phuong DONG

- Patimban Clay
- CDM-CPM method
- Bamboo pile foundation

Click [here](#) for the presentation by Lecturer 4

-Question and Answer Session

Moderator Watabe summarized and introduced questions for the lecturers. The audience asked several questions such as the differences in settlement, strength and cost, etc., depending on the ground improvement methods, environmental considerations when using cement-mixing technique, the range of application of the bamboo pile method, etc.



Click [here](#) (Draft as of 20241222) for the Q & A

Closing Address:

Mr. Koji Watanabe, Director of Construction Division,
Fisheries Infrastructure Department, Fisheries Agency,
MAFF Japan

Mr. Koji Watanabe

**Acknowledgements**

Our heartfelt appreciation is extended to all lecturers, MLIT, MAFF, National Institute for Land Infrastructure Management, the Port and Airport Research Institute, NIKKEN KOGAKU co., Ltd and the parties concerned of PIANC Japan for their enormous contribution in the preparation of the seminar.

PIANC Japan will organize the next Asian Seminar on a different theme.