

Event Report

IPA-TC3 Steel Sheet-pile Symposium in UTHM, Malaysia, on December 6, 2018

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“Steel Sheet-pile Symposium “was organized by Technical Committee 3, International Press in Association and RECESS, UTHM on 6th December 2018 at Al-Jazari Auditorium, Tunku Tun Aminah Library, Universiti Tun Hussein Onn Malaysia (UTHM), Parit Raja, Batu Pahat, Malaysia.

Close to 100 participants joined this symposium. They consisted of university and collage lecturers and students from Universiti Tun Hussein Onn Malaysia (UTHM), Universiti Teknologi Malaysia (UTM), Universiti Malaysia Pahang (UMP), Kolej Komuniti Batu Pahat, Kolej Kemahiran Tinggi MARA Sri Gading and RECESS. Several local companies also participated in this symposium.

The program of the symposium was as follows:

- Opening speech, presented by Prof. Jun Otani (Kumamoto University / Chair of IPA-TC3)
- Introduction of IPA and TC, presented by Mr. Yukihiro Ishihara (Giken Ltd. / Member of IPA-TC3)
- Introduction of IPA-TC3 and PFS (Partially floating sheet-pile) method with some research outcomes, presented by Prof. Jun Otani (Kumamoto University / Chair of IPA-TC3)
- Centrifuge tests on PFS method, presented by Prof. Katsutoshi Ueno (Tokushima University / Member of IPA-TC3)
- Sulawesi Earthquake and liquefaction, presented by Prof. Ramli Nazir (Universiti Teknologi Malaysia)
- Topics on R&D activities related to Press-in method, presented by Mr. Yukihiro Ishihara (Giken Ltd. / Member of IPA-TC3)
- Q&A session and closing speech, presented by Dr. Nor Azizi Yusoff (Universiti Tun Hussein Onn Malaysia)

Discussions were made regarding the effectiveness of PFS method, fundamental issues of centrifuge testing techniques including the use of clays or peats in the test, and the press-in piling technique using water jetting and the stability of sheet pile retaining wall under a high water table level. Significant lateral flow of liquefied soil observed in Sulawesi, although the slope angle was only 2-3%, attracted the attention of the participants. One reason was suggested as the collapse of small canals that may trigger the lateral movement of the ground.

Future of geotechnical engineering was discussed in the last part of the symposium. The attractiveness of soils, having unique stress-strain relationships unlike artificial materials with well-known physical properties, were suggested by Prof. Otani, while the importance of challenging was insisted by Prof. Nazir.



Fig. 1. A group photo of the participants after the symposium

Photos during the symposium...

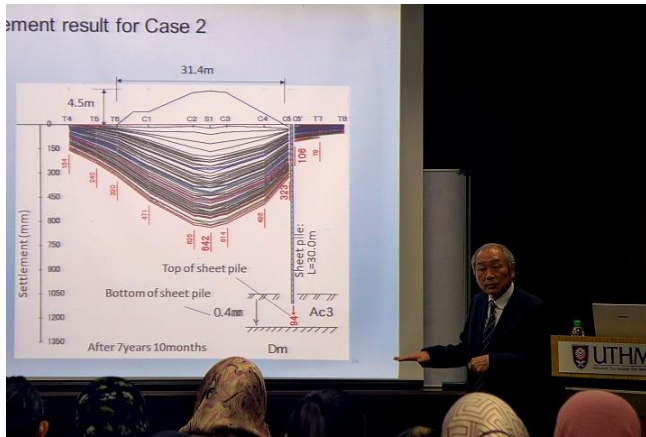


Fig. 2. Prof. Jun Otani introducing partially floating sheet-pile concept

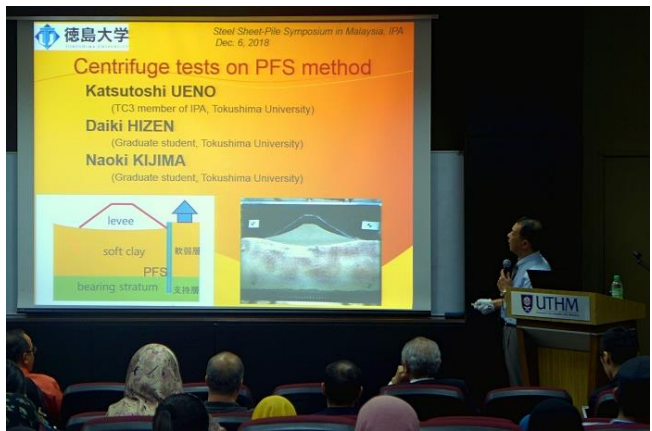


Fig. 3. Prof. Katsutoshi Ueno sharing his experience on centrifuge tests



Fig. 4. Mr. Yukihiro Ishihara presented the innovative Press-in method to the participants



Fig. 5. Prof. Ramli sharing his experience on Sulawesi earthquake and tsunami



Fig. 6. Dr. Nor Azizi wrap up the symposium with his closing speech

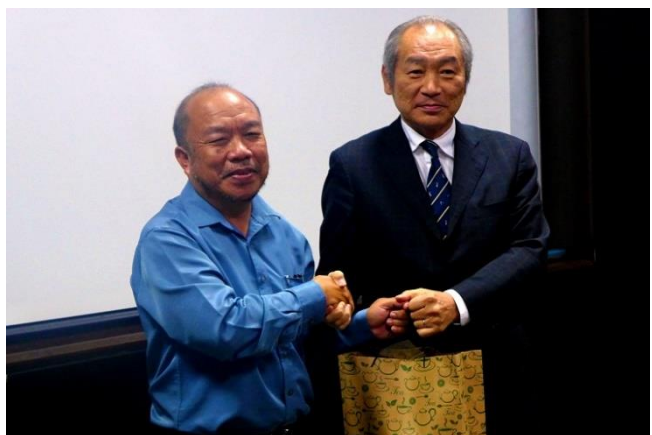


Fig. 7. Prof. Abu Khari presented UTHM's momento to Prof. Jun Otani