

Reports

2019 Promotional Activities of Press-in Technology in Malaysia

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The construction industry, by its very nature, is a big user of natural resources in which triggering a great concern over environmental issue such as the climate change. Surely, the construction world should be evolved and revolutionize with a better construction practice. In answering these urgent needs, Several activities were initiated in Malaysia to widespread the concept of Press-in engineering and to disperse these sustainable agenda to this country.

Our first activity was initiated after the fasting month of Ramadhan. The Hari Raya Gathering was initiated on the 13th June 2019 by Research Centre for Soft Soils (RECESS), Universiti Tun Hussein Onn Malaysia. As the Head of this research centre, I took this opportunity to gather the researchers and industrial partners to communicate and promote a good relationship between university and the society. We are honoured by having our guest of honour YB. Datuk Dr. Shahrudin bin Mohd Salleh, the Deputy Minister of Federal Territories of Malaysia to officiate our gathering. In addition, Datuk Ir. Hj. Abdullah Isnin, Director General, Department of Irrigation and Drainage (DID) and Universiti Tun Hussein Onn Malaysia (UTHM) Vice Chancellor, Professor Datuk Ts. Dr. Wahid Razzaly, RECESS fellow researchers and students, UTHM top management and staff also attended the gathering. During the gathering, Mr. Heng Li and Mr. Takata from Giken Sesisakusho Asia (Singapore) Pte. Ltd. delivered a simple explanation of this technology to the honourable Deputy Minister and others.

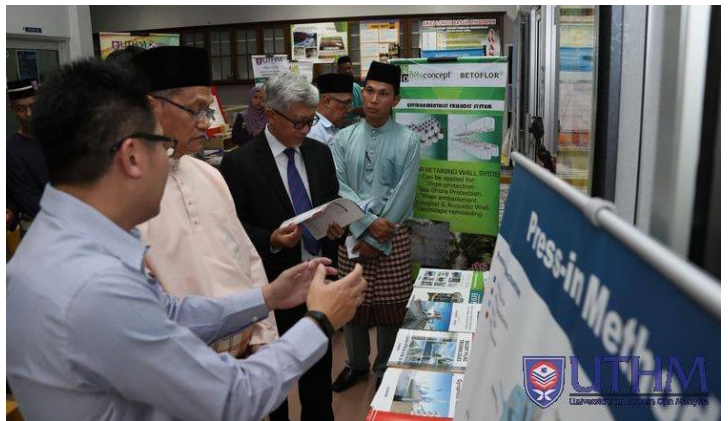


Photo 1. Mr. Heng Li shared his experience on Press-in technology to the honorable Deputy Minister and UTHM Vice Chancellor

Science is an important subject that teaches us about ourselves and everything around us. However, it does not appeal to everyone. In an effort to cultivate interest and instil love in science and technology amongst Malaysians, the country has launched this National Science Week 2019 for the last few years. I took this opportunity to share Press-in technology and my R&D activities at RECESS, UTHM with students at Bukit Gambir Secondary School in conjunction with this National Science Week. I believed that the university is responsible to enhance student's interest in science, technology, engineering and mathematics (STEM) among the younger generation. Press-in technology will be a great example on how science, technology and innovation could facilitate a sustainable nation and construction industry. It is also interesting to share UTHM and RECESS experience in working together with IPA and Giken in promoting the application of this sustainable technology in Malaysia.



Photo 2. Some of the attendees had a photo session with the honorable Deputy Minister and UTHM Vice Chancellor after the event



Photo 3. School children and teacher had a group photo in front of RECESS booth



Photo 4. Sharing Press-in technology with teacher and students of Bukit Gambir Secondary School

My next program is to deliver a technical talk at Institution of Engineers Malaysia (IEM) Terengganu branch. I was commenced on the 15th August 2019 at the Institution of Engineers Malaysia (IEM), Terengganu branch seminar room. The technical talk was initiated by Ir. Nina Imelda M. Sulanah attracted close to 20 participants to attend the technical session. Most of the attendees are professional engineers in civil engineering field. Two lectures entitle 'Silent piling technology: Introduction and overview' and 'Silent piling technology: recent applications and research in Malaysia' were delivered during that session. At the same occasion, Mdm. Tuan Norhayati presented her paper entitle 'Vibration monitoring on building due to construction activities and human walking'. Both presentations were made in order to promote more sustainable construction activity in Terengganu.



Photo 5. A group photo after IEM Terengganu Technical Talk

My next trip was in September 2019. I had a series of presentation in Kuala Lumpur, Malaysia under the arrangement made by Research Centre for Soft Soil (RECESS), Institute of Integrated Engineering, Universiti Tun Hussein Onn Malaysia. The event demonstrated (RECESS) commitment in facilitating Construction Research Institute of Malaysia (CREAM) with the cutting-edge technology such as Press-in piling technology from Japan and YJACK pile load test method. The meeting was held at CREAM office, *Sunway Putra Tower, Kuala Lumpur*. CREAM aspired to be globally recognized as the leading institute for Research and Development (R&D) that drives quality, innovation, technology and skills towards achieving sustainability in the construction industry. The meeting could be a driver in a research collaboration between CREAM, IPA, RECESS and



Photo 6. Conduction a presentation related to Press-in technology during a technical session

UTHM in the near future. I would like to acknowledge CREAM's CEO, Dato' Ir Rozaimi and Dr. Hj. Mohd Khairoiden for this opportunity. Thank you too for Giken Seisakusho Asia (Singapore) Pte. Ltd., Koye (Malaysia) Sdn. Bhd. and YJACK Technology Sdn. Bhd. in supporting the meeting with a sharing session of Press-in and YJACK technology success stories in Malaysia and Singapore.



Photo 7. A group photo with CREAM CEO after the meeting



Photo 8. Mr. Takata of Giken Asia (Singapore) presented a presentation to CREAM

On the same day, the next engagement was with Tenaga Nasional Berhad (TNB). The meeting was headed by TNB Chief Engineer, Grid Solution Expertise Department, Ir. Muhamad Shukri Rahimi and attended by several TNB engineers, UTHM, Giken Seisakusho Asia (Singapore) Pte. Ltd., YJACK Technology (Malaysia) Sdn. Bhd. and KOYE (Malaysia) Sdn. Bhd. For record, Tenaga Nasional Berhad is the largest electricity utility in Malaysia and also one of the largest electricity companies in Asia with core business of providing electricity to the country's businesses, homes and industries. The company is 69 years of existence and Malaysia's leading electricity utility with a presence throughout Peninsular Malaysia, Sabah and Labuan. At this event, Giken, YJACK, KOYE and RECESS, UTHM shared our experience in Press-in, YJACK pile load test and other research and development initiative at RECESS, UTHM technologies to Tenaga Nasional Berhad (TNB). Thank you for the opportunity.



Photo 9. A group photo with TNB staff after the meeting session

In summary, the collaboration between universities and the industry is increasingly perceived as a vehicle to enhance innovation through knowledge exchange. I believed the working culture and a great partnership between International Press-in Association (IPA), Research Centre for Soft Soils (RECESS), Universiti Tun Hussein Onn Malaysia (UTHM) together with our industrial partners such as Giken Seisakusho Asia Pte. Ltd., KOYE (Malaysia) Pte. Ltd. and Construction Research Institute of Malaysia (CREAM) may be able to enhance the implementation of sustainable piling technology such as Press-in technology in the near future. These may lead to a revolution of construction industry in Malaysia to be a more environmentally friendly and sustainable.



Photo 10. Mr. Takata of Giken Asia (Singapore) presented a Press-in technology introduction to TNB staff