



Report On One Day Short Course On Tbm Technology By Herrenknecht Held On 6 October 2017

by Ir. Ong Sang Woh

Ir. Ong Sang Who is currently the Secretary/Treasurer of Tunnelling and Underground Space Technical Division.

The 1-day Short course on TBM Technology by Herrenknecht was held on 6 October 2017 at Wisma IEM, Petaling Jaya, Selangor, Malaysia. The short course was organized as a part of Pre Conference event of the World Tunnel Congress 2020 (WTC 2020).

The training course was jointly organised by the WTC 2020 Organising Committee and the Tunnelling & Underground Space Technical Division (TUSTD) of The Institution of Engineers, Malaysia (IEM) and managed by IEM Academy Sdn Bhd. The course was conducted by two (2) Presenters from Herrenknecht Asia. The Presenters are Mr. Ruben Duhme, General Manager Engineering R&D and Mr. Mike Low Voon Fui, Team Leader Technical Department.

The event was a great success with 94 participants who attended the training consisting of six (6) lectures covering the following topics:

1. Selection of TBM Type and General Design,
2. EPB TBMs - Design and Operation,
3. Mixshield TBMs – Design and Operation,
4. TBM Safety Features,
5. TBM in Difficult Ground – Machine Design and Ground Treatment,
6. TBM Tunnelling in Rock – How to Overcome Challenges.

The participants posed to the Presenters numerous general and specific questions on the EPB & Mixshield TBMs, project related & site constraint problems and also safety related issues concerning the TBM. The Presenters not only answered the questions but also related to case histories of their previous projects to clarify their answers to the questions.

In summary, this course on TBMs is the hands-on practical and job related experience from the Presenters. There was thunderous applause for their generosity in sharing their specialised knowledge and experience in TBM technology.

On behalf of IEM, Ir Dr Ooi Teik Aun presented to the two Presenters Certificates of Appreciation and numerous Proceedings publications & CDs of Tunnel Conferences held by IEM TUSTD and managed by IEMTC/IEMASB since 2006 – 2017.



Photo 1 - Overall view of the participants during the training session.



Photo 2 - Group photo of IEM TUSTD Committee with the Presenters Mr. Ruben Duhme and Mr. Mike Low Voon Fui



Photo 3 – Organising Chairman Ir. Dr. Ooi Teik Aun presenting a token of appreciation to Presenter Mr. Ruben Duhme



Photo 4 – Organising Chairman Ir. Dr. Ooi Teik Aun presenting a token of appreciation to Presenter Mr. Mike Low Voon Fui