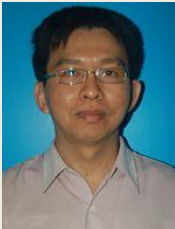


Design & Construction of Pile Foundations

by Ir. Yee Yew Weng & Ir. Dr Chan Swee Huat



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The importance of civil engineering works (roads, bridges, canals, dams, and buildings) that contribute towards nation building requires little debate. In all such works pile foundation is integral part of any structure where the ground appears incapable of sustaining the pressure exerted on it.

The design of any pile foundation is complex however, depending on a number of factors: the nature of load applying; ground condition; presence of water; accessibility; noise consideration; nearby structures; and construction speed.

Jointly organized by Geotechnical Engineering Technical Division (GETD) of IEM and Malaysian Geotechnical Society (MGS) on 4 July 2014, a one day course on the design and construction of pile foundation was conducted by Dr Seah Tian Ho from Alfa Geotech Company Limited, Thailand at Auditorium Tan Sri Prof. Chin Fung Kee. 120 IEM members attended the said course.

Benefiting from his vast experience gained in the industry, Dr Seah's lecture was divided into four parts. In the first part, he introduced the participants to various foundation types and their applications in different soil types.

In the second part, the design aspects of pile foundations were explained, covering fundamental of pile geotechnical capacity, negative skin friction and settlement analyses. In the third part, he touched

on construction aspects, testing methods and quality control procedures. In the final part, case studies on driven piles and bored piles were presented for illustration.

During the question & discussion session, there were lively discussions from the floor on design matters, as well as those issues concerning construction. The short course ended at 5.00pm with presentation of a token of appreciation to Dr. Seah.



Participants attending the short course presented by Dr. Seah Tian Ho



Presentation of token of appreciation by Ir. Dr. Chan Sin Fatt to Dr. Seah Tian Ho