

**Evening Talk on Piled Raft Design for Five Storey Apartment on Klang Clay**

by Ir. Lee Peir Tien

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The evening talk on Piled Raft Design for Five Storey Apartment on Klang Clay was organized by the Geotechnical Engineering Technical Division on 19<sup>th</sup> November 2013 at the Tan Sri Prof. Chin Fung Kee Auditorium, Wisma IEM. The talk was delivered by Ir. Cheah Siew Wai.

The speaker started his talk with an introduction on the conventional foundation design approach using piled-to-set foundation over soft ground condition and the associated problems of using the conventional approach.

Subsequently, the speaker revealed another alternative foundation design approach using floating piled-strip raft. The overall design concepts, performance criteria and the analyses method were presented during the talk.

In the later part of the presentation, the speaker shared one of the past project experience / case study on a five storey low cost apartment using floating piled-strip raft in Klang with soft ground condition on the construction and performance monitoring. The speaker demonstrated that with the alternative floating piled-strip raft foundation, the foundation performance criteria of controlling the angular distortion to not more than 1V:400H is achievable using the alternative floating piled-strip raft foundation.

At the end of the talk, the speaker fielded a number of questions from the audience, mainly on the methodology of analyses and the cost comparison aspect of the alternative floating piled-strip raft foundation against conventional piled-to-set foundation. Lastly, a token of appreciation was presented to the speaker.

The seminar ended at about 7.00 p.m. with applause from the floor.