



THE INSTITUTION
OF ENGINEERS,
SINGAPORE

Abstract of the talk:

Development of Advanced Rapid pile load test method in Europe and Asia

By

Mr Rob Van Dorp and Er Dr Chew Soon Hoe

■ **Sponsored by Allnamics (International) Pte Ltd.**



Quasi-Static Load Testing or a.k.a Rapid Load Testing (RLT), by which a quasi-static load is applied to a foundation test pile is used increasingly as an alternative to Static Load Testing around the world.

This seminar seeks to cover the principle behind RLTs and the use of RLTs to effectively enhance construction site productivity and speed up the construction process.

Two speakers with extensive experience with RLTs will speak on the following:

Mr. Rob van Dorp has decades of experience with the use of static, quasi-static and dynamic pile testing techniques. He will briefly introduce the development history of Rapid Load test methods which arose from years of research effort at TNO (Defence Research Organization of Holland) to develop a quick pile load testing method with directly measured results that will yield engineer independent results. Rob will also showcase the test results in Europe from the use of some of the commercially available RLT systems such as Statnamic, StatRapid or Hybridnamic.

Dr Chew has been engaged in RLT research in Singapore and Malaysia since 1989. He will present some correlation test results with conventional static test in typical soil profiles in Singapore and Malaysia. He will also present specific case studies of the productivity and project days gains achieved from effective use of RLT to supplement the pile load testing without compromising on the quality and confidence gained from the load tests.

CV:

1. Rob van Dorp, Robert Frederik

Rob van Dorp, M.Sc. graduated in 1993 at Delft Technical University, with his final thesis about dynamic response of foundations of railway bridges. He was engaged as an independent geotechnical consultant to numerous international projects covering a wide range of geotechnical aspects for both onshore and offshore construction. In 2011 he joined and was made a partner of Allnamics Pile Testing Experts. Allnamics developed the StatRapid Load Test system, and also provides a wide range of geotechnical equipment, software and consulting expertise to construction projects around the world.

2. Er. Dr Chew Soon Hoe –

Dr. Chew received his PhD from University of California at Berkeley. He is currently an Assistant Professor in the Department of Civil and Environmental Engineering, National University of Singapore (NUS). He is a professional engineer in Singapore, and has been engaged as consultant to government agencies and private consultants and contractors on geosynthetics and geotechnical projects in this region.

His research interests include geosynthetics, slope engineering, land reclamation, soil improvement, soil erosion, numerical modeling in geotechnical engineering and geo-environmental engineering. He is also actively consulted in general area of geotechnical engineering including slope stability, pile foundation and excavation related problem.

Date: Monday, 19 October 2015

Time: 6.15pm – 9.15pm

Venue: IES Auditorium, 70 Bukit Tinggi Road, Singapore 289758

CPD: 2 STU (Approved) / PDU (Subject to Approval)

Fees: \$20 (IES Members) / \$50 (Non-Members)

*** Fees are inclusive of 7% GST and dinner.**