



The Institution of Engineers, Malaysia

Bangunan Ingenieur, Lots 60/62, Jalan 52/4, Peti Surat 223, 46720 Petaling Jaya, Selangor Darul Ehsan
Tel: 03-79684001/2 Fax: 03-79577678 E-mail: sec@iem.org.my IEM Homepage: <http://www.myiem.org.my>

Talk on Recent Development in the Vacuum Preloading Method and Its Application for Soft Soil Improvement

Organised by the Geotechnical Engineering Technical Division, IEM
BEM Approved CPD/PDP Hours: 2 Ref No: IEM14/HQ/403/T

Date : **5 January 2015 (Monday)**
Time : **5.30 pm – 7.30 pm** (Refreshments will be served at 5.00pm)
Venue : **Tan Sri Prof. Chin Fung Kee Auditorium, 3rd Floor
Wisma IEM, Petaling Jaya**
Speaker : **Professor Dr Chu Jian**

SYNOPSIS

Vacuum preloading method has been used in many soil improvement and land reclamation projects. A number of improvements have been made to this technology since its first large scale application in the early 80's. In this seminar, several vacuum preloading methods including some new variations will be introduced. The advantages and disadvantages of each method will be compared. Technical issues such as improvement depth, vacuum pressure distribution in soil, evaluation of degree of consolidation for soil under vacuum consolidation, etc. will be discussed. A new method for the use of vacuum preloading for land reclamation projects will be briefly explained. Case histories for the use of the vacuum preloading or the combined vacuum and fill surcharge preloading method in soil improvement projects will also be presented.

PROFILE OF SPEAKER

Prof. Dr Chu Jian is a professor and the James M. Hoover Chair in Geotechnical Engineering at Iowa State University, USA. He has also worked for Nanyang Technological University in Singapore for more than 20 years and served as the Director of the Centre for Infrastructure Systems. Dr Chu has more than 25 years' experience in geotechnical engineering in general and soil properties, in-situ and laboratory testing, soil improvement and land reclamation in particular. He was the Vice President of the Geotechnical Society of Singapore and the past Chairman of the technical committee TC39 under the International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE). He is also serving other three ISSMGE technical committees as the Vice Chairman for Land Reclamation and Committee Member for Ground Improvement and Coastal and River Disaster Mitigation and Rehabilitation. He has been a keynote or invited speaker at 40 over international conferences. He is a co-editor or editorial board member for 10 international journals. Dr Chu has published more than 280 technical papers in international journals and conferences, co-authored a book on "Soil Improvement –Prefabricated Vertical Drains", and is writing another book on "Ground Improvement Biogeotechnologies". He won the R.M. Quigley Award from the Canadian Geotechnical Society in 2004.

Ir. Yee Thien Seng
Chairman
Geotechnical Engineering Technical Division, IEM

ANNOUNCEMENTS TO NOTE:

- Preferential admission to talk shall be accorded to IEM members (**pre-registration and online registration are NOT required**). (**telephone and/or fax reservation will NOT be entertained**)
- **Non members** may also attend the talk but will be charged a registration fee of **RM50** and an administrative fee of **RM10**.
- For affiliate members, there will be no registration fee. However, they are requested to produce their membership card as proof of membership. For the list of affiliates, please refer www.myiem.org.my/content/memorandum_of_understanding-469.aspx.
- Limited seats are available on a "first come first served" basis (maximum 110 participants).
- IEM members are required to produce your membership cards for confirmation of attendance (CPD purpose).
- Latecomers will not be allowed to enter if the lecture hall is full nor be entitled to CPD.
IEM members who fail to produce their membership cards will be charged a fee of RM20.00.

FUNDS FOR IEM BUILDING FUND (WISMA IEM)

- Kindly be informed that IEM will be charging participants **RM10** as administrative fee for talks organized by IEM.
- The fee would be used to cover overhead costs, building maintenance expenses as well as to support the purchase of the new building.
- All contributions will be deeply appreciated by IEM
- Students are however exempted.
Your understanding is greatly appreciated.

CPD/PDP HOURS CONFIRMATION

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