

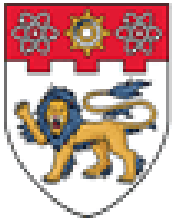
## ***1-Day Short course on*** **Design and Construction of Large-diameter Bored Piles**

Speaker: Dr Albert T. Yeung, BSc(Eng) MS PhD FICE FASCE FHKIE  
CEng PE RPE(Civil, Environmental, Geotechnical)  
The University of Hong Kong

**Date** : 22 Nov 2017

**Venue** : Seminar Room A, Block N1, N1-B1B-06, School of CEE

|                  |   |
|------------------|---|
| 0830             | Registration  |
| 0900             | Introduction  |
| <b>Lecture 1</b> | Design and construction procedure of large-diameter bored piles   |
| 1030             | Morning tea break   |
| 1100             | Excavation of large-diameter bored piles in soil and rock   |
| <b>Lecture 2</b> |   |
| 1230             | Lunch   |
| 1330             | Installation of reinforcement cage  |
| <b>Lecture 3</b> | Concreting of large-diameter bored piles<br>Use of bentonite in bored pile construction   |
| 1500             | Afternoon tea break   |
| 1530             | Potential construction problems<br>Post-construction inspection of large-diameter bored piles<br>Pitfalls in site supervision<br>Pile load test<br>New developments in foundation engineering |
| <b>Lecture 4</b> |   |
| 1730             | Closure   |

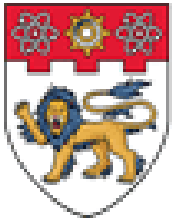


## ***About the Course***

The design of large-diameter bored piles appears to be relatively simple as the allowable bearing capacity and resistance to lateral earth pressure are limited by the presumptive values stated in *Code of Practice for Foundations* and related government publications. However, many common design errors occur from a practical viewpoint, rendering construction very difficult, if not impossible. Moreover, there are many practical problems confronting geotechnical engineers and contractors on site.

This one-day short course is developed to illustrate to engineers who are interested in practical aspects in the design and construction of large-diameter bored piles including:

- Types and definitions of large-diameter bored piles
- Design philosophy of bored piles
- Common design errors from a practical viewpoint
- Detailed construction procedures of large-diameter bored piles
- Construction equipment for large-diameter bored pile
- Integrity testing of large-diameter bored piles
- Difficulties in large-diameter bored pile construction
- Pitfalls in site supervision for large-diameter bored pile construction
- Full-scale load tests
- New developments in large-diameter bored piles
- Slides on various aspects of large-diameter bored pile construction in Hong Kong will be shown for illustration and detailed discussion.



## ***About the Speaker***

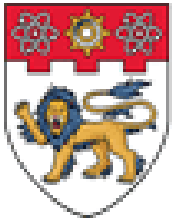


**Ir Dr. Albert T. YEUNG** is on the civil engineering faculty of The University of Hong Kong (HKU). He is also an Adjunct Professor of Taiyuan University of Technology (太原理工大學) under the International 100 Talents Scheme of Shanxi Province, China. He is a Fellow of the American Society of Civil Engineers (FASCE), a Fellow of the Institution of Civil Engineers of U.K. (FICE), and a Fellow of the Hong Kong Institution of Engineers (FHKIE). He is also a member of the Chinese Institute of Civil and Hydraulic Engineering. He received his BSc(Eng)(Hon) in civil engineering from HKU with first class honors, MS and PhD from the University of California, Berkeley under the supervision of Professor James K. Mitchell. He is a Registered Professional Engineer of Hong Kong in civil, environmental and geotechnical disciplines (RPE), a Chartered Engineer of U.K. (CEng), and a Registered Professional Engineer of Texas (PE).

Before his return to Hong Kong in 1998, he was on the civil engineering faculty of Northeastern University in Boston and Texas A&M University in College Station of the United States for a total of more than 7 years. He was also a Research Assistant Engineer of Texas Transportation Institute for 8 years. After his return to Hong Kong, he served as Chief Engineer of Binnie Black & Veatch Hong Kong Limited (a subsidiary of Black & Veatch of Overland Park, Kansas, U.S.A.), and Assistant Secretary for Financial Services and the Treasury of the Hong Kong HKSAR Government before his return to academia in 2003.

He is the Immediate Past Chair of the Executive Committee of the Asian Civil Engineering Coordinating Council which is composed of 13 civil engineering member societies worldwide. He is also the Immediate Past Chair of the ASCE Region 10 (International Region) Assembly. He is serving on the Editorial Board of *Geomechanics and Geoengineering: An International Journal*, *Journal of Environmental Geotechnics*, and *The Open Waste Management Journal*. He is serving on the Board of Directors of the International Press-in Association and the Centre for Pavement Excellence Asia Pacific Limited. He is an external member of the Construction Programme Board of the Vocational Training Council. He is an External Examiner of The Open University of Hong Kong, Chu Hai College of Higher Education, the Hong Kong Institute of Vocational Education (Tsing Yi), and the Technological and Higher Education Institute of Hong Kong. He is serving on Election Committee (Engineering Subsector), and the Appeal Tribunal Panel Section 45 of the Building Ordinance (Cap 123) of the Development Bureau, both of the HKSAR Government. Moreover, he has been serving as an engineering consultant to many government departments, consultants, contractors and lawyers in Hong Kong and Macau. Moreover, he has been serving as an Expert Witness in the High Court, District Courts, and Magistrates of Hong Kong and arbitrations.

He has more than two hundred papers to his credit. His notable awards include the IPA Research Grant Awards of the International Press-in Association 2008, 2012 and 2014; Best Presentation Award of the 1st International Conference on Utility Management and Safety, Hong Kong, 2009; the 1st Prize of Civil Engineering Papers of the Year Award 2008 of HKIE; the Peter H.K. Chan Award 2001 for the Best Environmental Paper of HKIE; the Samuel Arnold Greeley Award 1999 of ASCE; the Arthur Casagrande Professional Development Award 1996 of ASCE; the Dow Outstanding New Faculty Award 1994 of the American Society for Engineering Education; the Texas Engineering Experiment Station Select Young Faculty Award 1993; the Kumagai Prize 1994 of HKIE; among many others.



## ***FEES***

### **S\$250/Participant**

- Fees include 7% GST, refreshments, lunch & course notes.
- There will be no refund of fees for any cancellation made.
- A replacement can be made at no extra charge.

## ***REGISTRATION***

Please register your attendance [here](#) by 15 Nov 2017.

## ***ENQUIRIES***

- Ms. Lu Ping  
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- Ms. Tham Li Yu  
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