



**Applied Technology Group**

AUSTRALIA • NEW ZEALAND • HONG KONG • MALAYSIA • SINGAPORE



**JOINTLY ORGANIZED BY:**

**APPLIED TECHNOLOGY GROUP & SWINBURNE UNIVERSITY OF TECHNOLOGY (SARAWAK CAMPUS)**

**COURSE ON:**

## **2-Day Short Course and Workshop ON “ High Rise Buildings’ Foundation and Excavation”**

*[14.5 BEM Approved CPD Hours & 20 CIDB Approved CCD Points]*



**Presented by**

**Dato' Ir. Dr. Gue See Sew      Ir. Chow Chee Meng**

Claimable under  
HDRF SBL Scheme  
Subject to Max  
Limit Allowed

**Venue** : *Lecture Hall B004, Block B  
Swinburne University of Technology  
Sarawak Campus, Kuching*  
**Date** : **15 & 16 December 2017**



# **Two-Day Short Course and Workshop On “High Rise Buildings’ Foundation and Deep Excavation”**

## **COURSE OVERVIEW**

Two-day short course and workshop on high rise foundation and deep excavation highlights all important considerations in design and construction of high rise foundation and deep excavation. These include selection of suitable foundation system, state-of-the-art and development of subsurface investigation (SI), pile testing both static and dynamic testing, analysis and design of the foundation system and construction and monitoring of the deep excavation. Various practical guides and real examples on foundation and deep excavation will be demonstrated. A workshop session per day will be conducted based on real and practical problem. The course will also discuss the basic soil structural interaction. Various piling system will also be discussed, include high capacity jack-in piles, bored piles and caisson piles. The course will also highlight common pitfalls associated with high rise foundation such as inadequate SI and poor construction weakness while at the same time, share best practices in foundation design and construction based on actual experiences in high rise projects at various parts of Malaysia. As it is a necessity to include multiple basement in high rise buildings, deep excavation cannot be avoided. However, deep excavation may cause various complication to the construction, it is prudent to carry out the proper design to ensure successful basement construction. Monitoring during deep excavation is also an important aspect to ensure successful basement construction. Various issues on design, construction and monitoring of the deep excavation will be presented.

## **BENEFITS OF COURSE**

The course will benefit practising civil, structural and geotechnical engineers, contractors and project managers in successful design and construction of foundation and deep excavation for high rise buildings based on practical experience and state-of-the-art knowledge. The participants will be able to appreciate and apply different construction techniques of foundation as well as deep excavation design and construction.

Claimable under HDRF SBL Scheme Subject to Max Limit Allowed

## MAIN COURSE PRESENTER



### **Dato' Ir. Dr. Gue See Sew**

**Dato' Ir. Dr. Gue See Sew** graduated from three universities; Diploma in Civil Engineering from Universiti Teknologi Malaysia, First Class (Honours) Degree from University of Strathclyde, UK in 1979 and Doctorate from Oxford University with Kuok Foundation Scholarship.

He was the President of the Institution of Engineers, Malaysia (IEM) (2001 to 2003), Chairman of the Coordinating Committee of APEC Engineer (2001 to 2005, 2007 to 2011), Head Commissioner of ASEAN Engineers Register (AER) (2003 to May 2007) and Board Member of Board of Engineers Malaysia (1993 to 1998, 2000 to 2003) as well as Chairman of the Penang Hillside Advisory Panel (2011 to 2012). He is currently holding prestigious positions as Chairman of Technical Advisory Panel of Penang (2013-2017) and Chair of International Professional Engineers Agreement (2017-2019).

Dato' Ir. Dr. Gue is Founding Fellow of the ASEAN Academy of Engineering & Technology, Fellow of Academy of Sciences Malaysia and the Representative of the World Federation of Engineering Organisations (WFEO) to the International Consortium on Landslides.

He holds an Honorary Doctorate in Science (2006) from the University of Strathclyde, Glasgow, Scotland and was awarded The Construction Professional of the Year Award at the Malaysian Construction Industry Excellence Awards 2006, the ASEAN Outstanding Engineering Award at the Conference of ASEAN Federation of Engineering Organisations 2007 and Federation of Engineering Institutions of Asia and the Pacific (FEIAP) Engineer of the Year 2010.

Dato' Ir. Dr. Gue is now the Managing Director of G&P Geotechnics Sdn Bhd, a geotechnical consulting firm and Chief Executive Officer of G&P Professionals Sdn Bhd, a one-stop engineering specialist consultancy group with a staff strength of 325.

Dato' Ir. Dr. Gue has presented 221 lectures on Geotechnical Engineering. He has also published 108 Technical Papers related to geotechnical engineering in various conferences and seminars including a number of keynote addresses, theme and special lectures.

## MAIN COURSE PRESENTER



### Ir. Chow Chee Meng

Ir. Chow Chee Meng obtained his Bachelor of Engineering (Civil) from University of Malaya and won the Chan Sai Soo prize for the best engineering undergraduate thesis. He started his career with G&P Geotechnics, an independent consulting company specialising in Geotechnical and Geo-Environmental Engineering before joining Technip, the largest integrated offshore and onshore engineering contractor in South East Asia for the design and construction of hydrocarbon field development, oil refining, gas processing, petrochemicals and industrial plants and facilities.

He has written numerous papers and given lectures on engineering subjects ranging from R&D to geotechnical engineering in international and local conferences and journals and his research interests includes deep excavation, jack-in pile, piled raft and soil nails.

Throughout his career as a geotechnical engineer, he was fortunate to be involved in a number of award winning projects such as Bandar Botanic, Klang (ACEM Silver Award of Merit), Sg. Damansara Flood Mitigation (ACEM Gold Award of Special Merit) and was awarded the Outstanding Performance Award from **Sunrise Berhad for geotechnical consultancy**.

He is also responsible for the design of numerous jack-in pile foundations for high-rises in different parts of Malaysia ranging from granite to limestone formation and has contributed to widely referenced jack-in pile specifications in Malaysia.

He is currently the Director of G&P Geotechnics after re-joining them in 2005 and is a key member of the Sungai Buloh-Kajang KVMRT design team (in association with Mott MacDonald) responsible for the design of geotechnical works for the underground stations and foundation for viaducts from Pasar Rakyat to Plaza Phoenix, Cheras. He is a committee member of the Geotechnical Engineering Technical Division of the Institution of Engineers, Malaysia (IEM) from 2008 to 2013.

## TENTATIVE COURSE SCHEDULE

### DAY 1

9.00am - 10.30am	<b>Session 1: Subsurface Investigation for Foundation and Deep Excavation for High Rise Buildings</b> <ul style="list-style-type: none"><li>• Objectives, stages, scope and planning of subsurface investigation</li><li>• Investigation methods and procedures</li><li>• Interpretation of field and laboratory data for design of high rise buildings</li><li>• In-situ testing methods and procedure</li><li>• Specification for SI</li></ul>
10.30am - 10.45am	<i>MORNING TEA BREAK</i>
10.45am - 12.30pm	<b>Session 2: Practical Foundation Design for High Rise Buildings</b> <ul style="list-style-type: none"><li>• Geotechnical consideration of foundation system</li><li>• Geotechnical capacity and performance of the foundation</li><li>• Allowable settlement and its effect on high rise buildings</li><li>• Soil structure interaction</li><li>• Design and construction of raft and piled raft foundation system</li></ul>
12.30pm - 2.00pm	<i>LUNCH (LONGER LUNCH BREAK DUE TO FRIDAY MUSLIM PRAYER)</i>
2.00pm - 4.00pm	<b>Session 3: Foundation Design and Construction for High Rise Buildings</b> <ul style="list-style-type: none"><li>• Design and construction of piled foundation</li><li>• Interpretation of pile testing results (static load tests, high strain dynamic load tests, sonic logging tests, instrumented maintained load test etc.)</li><li>• Reliability of the foundation design</li></ul>
4.00pm - 4.15pm	<i>TEA BREAK</i>
4.15pm - 6.00pm	<b>Session 4: Workshop on Foundation Design</b> <ul style="list-style-type: none"><li>• Detailed work example</li><li>• Question and answer</li></ul>
<i>END OF DAY ONE</i>	

## DAY 2

9.00am - 10.30am	<b>Session 5: Practical Foundation Construction Considerations for High Rise Buildings</b> <ul style="list-style-type: none"><li>• Specification of foundation construction</li><li>• Importance of site supervision</li><li>• Checklists for foundation supervision</li><li>• Problems of foundation construction</li><li>• Case histories</li></ul>
10.30am - 10.45am	<i>MORNING TEA BREAK</i>
10.45am - 12.45pm	<b>Session 6: Design and Planning of Deep Excavation</b> <ul style="list-style-type: none"><li>• Effect of deep excavation to the surroundings</li><li>• Effect of ground water movement</li><li>• Planning, modelling and analysis of deep excavation</li><li>• Earth retaining structures</li></ul>
12.45pm - 1.45pm	<i>LUNCH</i>
1.45pm - 3.45pm	<b>Session 7: Construction and Monitoring of Deep Excavation</b> <ul style="list-style-type: none"><li>• Deep excavation construction</li><li>• Deep excavation and foundation monitoring</li><li>• Case studies</li></ul>
3.45pm - 4.00pm	<i>TEA BREAK</i>
4.00pm - 6.00pm	<b>Session 8: Workshop on Deep Excavation</b> <ul style="list-style-type: none"><li>• Detailed work examples</li><li>• Questions and answers</li></ul>
<i>END OF DAY TWO</i>	



**COURSE REGISTRATION FORM**

<b>Course title:</b> <b>2-Day Short Courses and Workshop</b> <b>on "High Rise Buildings"</b> <b>Foundation</b>
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(✓ Please tick)

<input type="checkbox"/>	<b>15<sup>th</sup>-16th December 2017</b> Sarawak
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**Company Information**

Company:	
Address:	
State/ Province:	
Zip/Postal Code:	
Country:	
Contact Person:	
Email:	
Phone:	

**Attendee Information**

Name (1)	
Job title:	
E-mail:	
Mobile/Tel No:	
Name (2)	
Job title:	
E-mail:	
Mobile/Tel No:	
Name (3)	
Job title:	
E-mail:	

**Registration Fee**

	<b>Fee Before GST (6%)</b>	<b>GST (6%)</b>	<b>TOTAL</b>
<b>Individual Fee</b>	RM1,600.00	RM96.00	RM1,696.00
<b>Group Fee</b> (3 or more delegates)	RM1,400.00	RM84.00	RM1,484.00

**Closing date:** 11<sup>th</sup> December 2017.

**Payment**

Payment is to make payable to:  
**Applied Technology Group Sdn Bhd**  
**Public Bank Berhad (Malaysia)**  
 Account no: 3178247302  
 GST Registration Number: 000641294336

**Payment terms:**

Payment is required before the event. Once payment is received, your seat will be reserved. Registration fee includes lunch, refreshments and full training documentation as specified. Delegates may be refused admission if payment is not received prior to the event. The fee does not include hotel accommodation.

**Cancellation Policy**

All cancellation of registration must be made in writing. If you are unable to attend:

- A substitute delegate is welcomed at no additional charge.
- Your registration can be credited to a future event.
- You will receive a full refund less 10% administration charge if cancellation is received in writing more than 14 days before the event.
- No cancellations will be accepted within 14 days before the event start date. Full course documentation will however be sent to the delegate.

**Course Schedule**

Course starts at 9.00am and ends at 6.00pm daily. Please arrive at 8.30am on day one to allow time to register and receive course materials.

**Please send completed form to:**

Fax to: **+603 5637 9945**  
 or Email to : [admin@apptechgroups.net](mailto:admin@apptechgroups.net)  
 For enquiry, please call: +603 5634 7905  
 Or refer to our website [www.apptechgroups.net](http://www.apptechgroups.net)

<b>Applied Technology Group Sdn Bhd</b> Lot 13, Jalan TP 5A, Prestij 16, Taman Perindustrian UEP, 47600 Subang Jaya, Selangor Darul Ehsan, Malaysia.
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