

# REGISTRATION FORM (CLOSING FOR REGISTRATION: 6<sup>TH</sup> APRIL 2017)

## TWO-DAY SHORT COURSE ON GROUND IMPROVEMENT AND LAND RECLAMATION

Email: [serena@iem.org.my](mailto:serena@iem.org.my) / [nurul@iem.org.my](mailto:nurul@iem.org.my) Website: [www.iemasb.com](http://www.iemasb.com) / [www.myiem.org.my](http://www.myiem.org.my)

Name(s)	Venue	Mobile No.	Membership No. / Grade	Fees (RM)
Total Amount Payable (Including GST):				

Company: \_\_\_\_\_

Address: \_\_\_\_\_

Mobile: \_\_\_\_\_ Tel(O): \_\_\_\_\_ Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

(Please write clearly as the Confirmation & Update will be sent via email to participants)

Contact Person: \_\_\_\_\_ Designation: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

### PAYMENT METHOD

- Local cheque/Banker's cheque made payable to "IEM ACADEMY SDN BHD".
- Directly bank in or online transfer (Please forward soft copy of payment advice):-

Account Name:	<b>IEM ACADEMY SDN BHD</b>
Account Number:	21403500139397
Bank Name:	RHB Bank Berhad
Bank Address:	No. 1, 3 & 5, Jln 52/18, PJ New Town Branch, 46050 Petaling Jaya, Selangor, Malaysia
Swift Code:	RHBBMYKL

### CANCELLATION POLICY

IEM reserves the right to postpone, reschedule, allocate or cancel the Seminar. No cancellation of registration will be accepted with less than 3 days' notice prior to the event date. Replacement or substitute name and additional fees however, can be made at least 3 days prior to the event date.

### Terms & Conditions

- ✓ For ONLINE REGISTRATIONS, only ONLINE PAYMENT is applicable [via Maybank2u -Personal Saving & Personal Current; Credit Card - Visa/Master].
- ✓ Payment via CASH / CHEQUE / BANK-IN TRANSMISSION / BANK DRAFT / MONEY ORDER / POSTAL ORDER / LO / WALK -IN will be considered as NORMAL REGISTRATION
- ✓ FULL PAYMENT must be settled before commencement of the course, otherwise participants will not be allowed to enter the hall. If a place is reserved and the intended participants fail to attend the course, the fee is to be settled in full.
- ✓ Fee paid is not refundable. Registration fee includes lecture notes, refreshment.
- ✓ The Organizing Committee reserves the right to cancel, alter, or change the program due to unforeseen circumstances. Every effort will be made to inform the registered participants of any changes. In view of the limited places available, intending participants are advised to send their registrations as early as possible so as to avoid disappointment.

We wish to remind that all registration fees must be FULLY paid before commencement of the course. IEM Academy Sdn. Bhd. reserves the right to refuse entry for participant(s) who have not paid their registration fees to attend the course. THIS REQUIREMENT WILL BE STRICTLY ENFORCED.



## SHORT COURSE ON GROUND IMPROVEMENT AND LAND RECLAMATION

### Presenters:

Prof. Dr. Jie HAN & Prof. Dr. CHU Jian



VENUE 1

10-11 April 2017  
(Monday & Tuesday)

Kristal Ballroom, PJ Hilton,  
MALAYSIA

Time: 8.00 am – 6.30 pm



VENUE 2

12 - 13 April 2017  
(Wednesday & Thursday)

The Gurney Resort Hotel &  
Residences, Penang, MALAYSIA

Time: 8.00 am – 6.30 pm

### Organised by:

Geotechnical Engineering Technical Division (GETD), IEM

### Managed by:

IEM Academy Sdn Bhd

(for inquiry please call +03-79586851 or visit [www.iemasb.com](http://www.iemasb.com))

### REGISTRATION FEES (INCLUDES GST):

Grade	VENUE 1 (PETALING JAYA) NORMAL	VENUE 1 (PETALING JAYA) ONLINE	VENUE 2 (PENANG) NORMAL/ONLINE
IEM Member	RM 1,060.00	RM 954.00	RM 848.00
Non-Member	RM 1,590.00	RM 1,484.00	RM 1,484.00

**CLOSING FOR REGISTRATION 6<sup>TH</sup> APRIL 2017**

## SHORT COURSE ON GROUND IMPROVEMENT AND LAND RECLAMATION

VENUE 1: PJ HILTON, SELANGOR  
10<sup>TH</sup> – 11<sup>TH</sup> APRIL 2017 (MONDAY & TUESDAY)

VENUE 2: THE GURNEY RESORT HOTEL & RESIDENCES, PENANG  
12<sup>TH</sup> – 13<sup>TH</sup> APRIL 2017 (WEDNESDAY & THURSDAY)

### Day One (Speaker: Prof. Dr. Jie HAN)

8:00 am	-	9:00 am	Registration
9:00 am	-	9:45 am	Introduction to ground improvement methods
9:45 am	-	10:30 am	Intelligent and rapid compaction
10:30 am	-	10:50 am	Tea Break
10:50 am	-	12:30 pm	Geosynthetic-stabilized roads and construction platforms
12:30 pm	-	1:30 pm	Lunch
1:30 pm	-	3:30 pm	Column technologies: Design, construction, and quality control
3:30 pm	-	3:50 pm	Tea break
3:50 pm	-	5:30 pm	Column-supported embankments: Design and recent advances
5:30 pm	-	6:00 pm	Questions and Discussions
6:00 pm	-	6:30 pm	Closure

### Day Two (Speaker: Prof. Dr. CHU Jian)

8:00 am	-	9:00 am	Registration
9:00 am	-	10:30 am	PVDs and fill surcharge methods: design, construction, assessment, and recent development
10:30 am	-	10:50 am	Tea Break
10:50 am	-	12:30 pm	Vacuum preloading: Different methods and recent development
12:30 pm	-	1:30 pm	Lunch
1:30 pm	-	3:00 pm	Construction over soft clay and use of slurry for land reclamation
3:00 pm	-	3:20 pm	Tea break
3:20 pm	-	5:30 pm	Densification of granular soils: Methods and assessments
5:30 pm	-	6:00 pm	Questions and Discussions
6:00 pm	-	6:30 pm	Closure

## ABOUT THE SHORT COURSE

This course will be conducted in day one by Prof Jie Han and day 2 by Prof Chu Jian respectively. In day one Prof Jie Han will cover the recent development of various ground improvement methods. Intelligent and rapid compaction technology will be introduced and explained. Site preparation methods including the use of geosynthetics in stabilized roads and construction platform will be covered. Sustainable and environmentally friendly green ground improvement methods such as column technologies; their design, construction and quality control will be explained. Prof Jie Han will also deal with the design and recent advances of column supported high embankments in the high speed railway and expressway. In day 2 Prof Chu Jian will give an update on the advances in land reclamation techniques including recent development in prefabricated vertical drains (PVDs) and fill surcharge methods. Specific issues related to new PVDs materials, design methods, design parameters, construction methods, and quality control methods will be discussed. Case histories on use of PVDs and preloading for land reclamation projects will be presented. The latest development in vacuum preloading methods will be introduced. The advantages and disadvantages of different methods will be compared. Technical issues such as mechanisms of vacuum preloading and dewatering, improvement depth, vacuum pressure distribution in soil, and evaluation of the degree of consolidation will be discussed. Existing and new methods for assessing the effectiveness of vacuum preloading methods will be introduced. Case histories on the use of vacuum preloading for soft soil improvement projects including the use of clay slurry in land reclamation will be presented. The densification of granular fill such as hydraulic fill, its placement methods and assessments will be discussed with case histories presented. A new approach, the microbial soil improvement method and its applications will be introduced. Some recent development in land reclamation methods in particular in the use of soft or excavated soil as fill materials for land reclamation will be presented.

## ABOUT THE PRESENTERS

Prof. Dr. Jie Han is the Glenn L. Parker Professor of Geotechnical Engineering at Department of Civil, Environmental, and Architectural Engineering at the University of Kansas in the United States. He received his BS and MS degrees in Geotechnical Engineering from Tongji University in 1986 and 1989 respectively, his Ph.D. degree in Civil Engineering from the Georgia Institute of Technology in 1997, and has been a professional engineer in Georgia since 1998. Prof. Han's research and practical experiences have dealt with geosynthetics, ground improvement, pile foundations, buried structures, and roadways. He has published more than 300 international journal and conference papers and recently authored a textbook in English entitled "Principles and Practice of Ground Improvement". He has served as an associate editor for the ASCE Journal of Geotechnical and Geoenvironmental Engineering and the ASCE Journal of Materials in Civil Engineering, an editorial board member for other eight international journals, a vice chair of the ASCE Soil Improvement Committee, and a technical chair/member for a number of international conferences. Prof. Han has received a number of research grants as a principal or co-principal investigator from the National Science Foundation, the Strategic Highway Research Program (SHRP) 2, the National Cooperative Highway Research Program (NCHRP), the Federal Highway Administration, etc. He received the Best Paper Award in Soil Mechanics from the U.S. Transportation Research Board in 2008, the 2011 Shamsheer Prakash Prize for Excellence in Practice of Geotechnical Engineering, the Changjiang Lecture Professorship from the Ministry of Education of China in 2013, the International Geosynthetics Society (IGS) Award in 2014, the Fumio Tatsuoka Best Paper Award from Transportation Infrastructure Geotechnology in 2014, the 2014 Associate Editor of the Year Award from the ASCE Journal of Geotechnical and Geoenvironmental Engineering, the 2016 Design and Construction Group Practice Ready Paper Award from the U.S. Transportation Research Board, and the 2017 ASCE Martin S. Kapp Foundation Engineering Award. Prof. Han was elected to the ASCE Fellow in 2014.



Prof. Dr. Chu Jian is Professor in Geotechnical Engineering at Nanyang Technological University (NTU), Singapore. He is the Director of Centre for Usable Space and Interim Co-Director of NTU-JTC Industrial Infrastructure Innovation Centre at NTU. Prof Chu also worked for Iowa State University, USA, as professor and James M. Hoover Chair in Geotechnical Engineering from 2011 to 2015. Dr Chu received his Ph.D. from the University of New South Wales, Australia in 1991. He 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 and has been a consultant for a number of land reclamation and soil improvement projects. He is the Vice Chair for ISSMGE TC217 on Land Reclamation and a Member for ISSMGE Technical Committee TC211 on Ground Improvement. He was the Chair for ISSMGE TC39 on Geotechnical Engineering for Disaster Mitigation and Rehabilitation from 2005 to 2009. Prof Chu has delivered over 50 keynote or invited lectures at international conferences. He is an editorial board member for 8 international journals. Dr Chu has published more than 300 technical papers in international journals and conferences, co-authored a book on "Soil Improvement – Prefabricated Vertical Drains". He received the R. M. Quigley Award in 2004 from the Canadian Geotechnical Society.

## DATA PROTECTION ACT

I have read and understand the IEM's Personal Data Protection Notice published on IEM's website at <http://www.myiem.org.my> and I agree to IEM's use and processing of my personal data as set out in the said notice.