

JOINTLY ORGANISED BY:



SUPPORTED WITH:



**27 AUGUST 2022 (SATURDAY)**  
**9:00AM – 5:30PM**  
**TROVE HOTEL, JOHOR BAHRU,**  
**JOHOR, MALAYSIA**

## SEMINAR ON “GEOTECHNICAL ENGINEERING”



**Register Early for  
Discounted  
Registration Fees !**

**BEM APPROVED CPD HOURS : 6.0**  
**(REF. NO.: IEM22/HQ/281/S)**

**Email to:**  
**[iemta@iem.org.my](mailto:iemta@iem.org.my)**

### TARGET PARTICIPANTS

All members of AFEO Member Organisations (PUJA, BEC, PII, LUSEA, IEM, Fed.MES, PTC, IES, EIT & VUSTA)

All AER/APEC/IntPE/AIET/IETA, SIET & TAM Members, Engineers, Engineering Technologists & Engineering Technicians

### INTRODUCTION OF THE SEMINAR

Geotechnical engineering is an important aspect for civil engineering constructions because it helps mitigate serious complications before they occur, especially to the ground surface and below the ground surface where they are not readily noticeable. Without relevant inputs from specialist geotechnical engineers, buildings, earthworks and retaining structures may suffer significant distress and damage, such as slope failures, excessive ground deformations and settlement related damage to buildings, or other hazards that would require costly rehabilitations, delays to construction schedules as well as jeopardizing public safety.

This seminar aims to provide a meaningful session for sharing of experience and knowledge by geotechnical engineering experts from the ASEAN Federation Of Engineering Organisations (AFEO) on their field of expertise as well as insights into interesting geotechnical challenges encountered.

## TENTATIVE PROGRAMME

TIME	EVENT	INFO
<b>27 AUGUST 2022 (SATURDAY)</b>		
<b>0800- 0900</b>	<b>Registration</b>	
<b>0900- 0930</b>	House-keeping Rules etc. Opening Remarks	
<b>0930- 1000</b>	Speaker 1 Dr. Er. Chew Soon Hoe <b>The Breadth and Depth of Geotechnical Engineering - in 21<sup>st</sup> Century Today</b>	SINGAPORE - IES
<b>1000- 1030</b>	Speaker 2 Engr. Edgar C. Colmo <b>Riyadh Metro Project: Case Study in the Pile Design and Testing Program</b>	PHILIPPINES – PTC
<b>1030 - 1100</b>	Tea Break	
<b>1100 – 1130</b>	Speaker 3 Prof. I. Wayan Sengara <b>Buildings and Infrastructures Design Enforcement on Geotechnical and Earthquake Engineering National Standards of Indonesia</b>	INDONESIA - PII
<b>1130 – 1200</b>	Speaker 4 Assoc. Prof. Dr. Suttisak Soralump <b>Important Cases of Geotechnical Rehabilitation and Damage Prevention Works in Thailand</b>	THAILAND - EIT
<b>1200 – 1230</b>	Question and Answer Sessions	
<b>1230 – 1400</b>	Lunch	
<b>1400 – 1430</b>	Speaker 5 Ir. Dr. Ismachyadi Bagus bin Mohamed Jais <b>Geoforensic and Georehabilitation of Bridge Approach Settlement - A Case Study of SKVE BR12 Georehabilitation Solution</b>	MALAYSIA - IEMTA
<b>1430 – 1500</b>	Speaker 6 Dr. Ma Catherine Q. Arca <b>Landslide Hazard Mapping Using Limit Equilibrium Method with GIS Application of Roadway Traversing Mountain Slopes: The Case of Kitaotao Bukidnon, Philippines</b>	PHILIPPINES - PTC
<b>1500 – 1530</b>	Speaker 7 Dr. Aaron Sham Wai Lun <b>Advancement Chronology of Geotechnical Engineering in Singapore</b>	SINGAPORE - IES
<b>1530 – 1600</b>	Speaker 8 Dr. Mark Albert H. Zakro <b>Current State-of-Practice of Geotechnical Engineering in the Philippines</b>	PHILIPPINES - PTC
<b>1600 – 1630</b>	Question & Answer Sessions	
<b>1630 – 1700</b>	Dr. Er. Chew Soon Hoe <b>Conclusion &amp; Closing Remarks</b>	IEMTA/ IEMSB
<b>1700- 1730</b>	Tea Break & End	

# One-Day Seminar on “Geotechnical Engineering”

27 August 2022 (Saturday)

9:00am – 5:30pm

Trove Hotel, Johor Bahru, Johor, MALAYSIA

## PRESENTERS

### Biodata of Dr. Er. Chew Soon Hoe (Singapore)



**Dr. Er. CHEW SOON HOE**, a Professional Engineer received PhD from the University of California at Berkeley, USA. He is currently an Assistant Professor with the Department of Civil Engineering, National University of Singapore. He is currently the Director of Safety Study Initiative, NUS (SSI). His teaching and research interests include geosynthetics, slope engineering, land reclamation, soil improvement, deep excavation in soft soils, numerical modeling in geotechnical engineering, Rapid and dynamic pile load testing, erosion control and ABC water features design, geophysical method in site investigation, and geological engineering.

He is actively involved in research and consultancy relating to these aspects of geotechnical engineering. Over the past years, he was the Principal Investigator for research on jet grouting for ground improvement and tunnelling works, and the use of geosynthetics for geotechnical engineering, PVD in land reclamation, earthquake and tsunami related research etc. Recently, he was awarded with a number of research funding relating to land reclamation, vacuum consolidation for ground improvement, sintering of clay etc. Dr. Chew has many practical experiences based on research and consulting experiences on these areas of geotechnical engineering works. Dr. Chew published very extensively on soft clay and ground improvement related topics. He was awarded “Defence Technology Prize”, from Chief Defence Scientist, Ministry of Defence, Singapore in 2006. He was also the recipient of the “Minister Innovative Awards” from Ministry of Transportation, 2011. He was also awarded with “Friends of Waters” by PUB, the water agency in 2013. He received “2015 Minister’s Awards (Team)” by the Ministry of National Development on the project supporting the HDB team of engineers. His latest award being the “IES Prestigious Engineering Award 2021” on his works on “Rapid Soil Classification using AI”. He was elected to be a council member of the Institution of Engineers, Singapore, IES 2006-2011, and re-elected for 2011-2013, 2014-2016, and 2016-2018 terms. He is also currently the President of Southeast Asia chapter of International Geosynthetics Society (IGS), and President of Singapore Section of the American Society of Civil Engineers (ASCE).

### Biodata of Engr. Edgar C. Colmo (The Philippines)

A deadline-oriented and goal driven Civil and Geotechnical Engineer, Engr. Edgar is an ASEAN Engineer, a Master of Science Degree (MSc) in Geotechnical Engineering, a Geotechnical Specialist (GtE) accredited by Philippine Institute of Civil Engineers (PICE) and Licensed Civil Engineer with 28-year experience in civil, geotechnical and foundation engineering. Nearly sixteen (17) years of his experience has been spent to in the Middle East with 7 years in the UAE & Qatar, 2 years in Kuwait and 8 years in Saudi Arabia. His experience varies from civil works, geotechnical and foundation investigations, design, analysis and supervision of foundations for metro rail projects, buildings, ports structures, reclamations, infrastructures, ground improvement, slope stabilization, supervision and monitoring of piling works and pile testing.



#### Country of Experience

Philippines, Kuwait, Qatar, United Arab Emirates (UAE) and Kingdom of Saudi Arabia (KSA)

#### Qualifications/ Education

- MSc in Civil Engineering (Geotechnical Engineering)
- MSc in Civil Engineering (Structural Engineering -Units)
- BS in Civil Engineering

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27 August 2022 (Saturday)

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## PRESENTERS

### Biodata of Prof. I. Wayan Sengara (Indonesia)



**Prof. I. WAYAN SENGARA** is Professor of Geotechnical Engineering at the Institute of Technology Bandung (ITB). Prof. Wayan has published widely on the topic of geotechnical and earthquake engineering. He is the Chairman of the Indonesia Earthquake Engineering Association (AARGI) and sits in Advisory Board of the Geotechnical Engineer Association of Indonesia (HATTI). He is a registered Professional Engineer in Indonesia and, a geotechnical expert at PT. WSP Engineering and PT. LAPI-ITB.

### Biodata of Assoc. Prof. Dr. Suttisak Soralump (Thailand)

**Assoc. Prof. Dr. SUTTISAK SORALUMP** is an Associate Professor in Civil Engineering Department, Kasetsart University. He graduated with B.Eng. From Chulalongorn University, M.Eng. (Soil Engineering) from Asian Institute of Technology and PhD (Geotechnical Engineering) Utah State University. He is the President, Thai Geotechnical Society, President, Southeast Asian Geotechnical Society and Chairman, Disaster Preparedness and Mitigation Working Group of AFEO. Dr. Suttisak specializes in Dam engineering, soft ground improvement, Slope stabilization, Geohazard mitigation, Landslide, Geotechnical Earthquake Engineering, Ground subsidence. Dr Suttisak is an experienced Geotechnical engineer. He was a team leader for more than 20 large dam rehabilitations, design and construction in Thailand and abroad. He is also involved in various ground improvement projects and has influenced in preparing several Engineering Codes and Law related to Geo-hazard. He received many awards including Geotechnical Engineer of the year and Best National teacher of the year.



### Biodata of Ir. Dr. Ismachyadi Bagus bin Mohamed Jais (Malaysia)

**Ir. Dr. ISMACHYADI BAGUS BIN MOHAMED JAIS**, obtained his Bachelor’s Degree in Civil Engineering, Universiti Teknologi MARA, Malaysia in 2001. He then obtained his Master’s Degree in Geotechnical Engineering/Engineering Geology from University of Newcastle upon Tyne, UK 2004 where his dissertation specializes in finite element analysis of geotechnical problems relating to Muar Trial Embankment using PLAXIS Finite Element Code. He later obtained his PhD in Civil Engineering from Universiti Teknologi MARA Malaysia (UiTM) in 2014 focusing on wetting collapse behaviour of saturated and unsaturated soils. He is a registered professional engineer with the Board of Engineers, Malaysia and Member of the Institution of Engineers, Malaysia since 2021.



His interests include numerical modelling of geotechnical problem, geoforensic engineering, alternative ground treatment and ground engineering, slope engineering and rehabilitation, embankment dam engineering and tunneling. Currently, he is a senior lecturer in the Faculty of Civil Engineering, UiTM and has involved in research and consultations relating to numerical simulation and physical modelling of geotechnical problems. His projects include assessment of tilting retaining wall in Semenyih for Castmet Sdn Bhd, temporary geotechnical support structure at Pulau Indah for TH Heavy Engineering Bhd, stability assessment of new bulkhead and wharf at Pulau Indah for TH Heavy Engineering Bhd, detail design of ground repair and remediation at MTBE Petronas Chemicals, Gebeng, Kuantan for Petronas Chemicals Bhd, dam stability analysis at Wadi Al Asla, Jeddah for the government of Saudi Arabia, ground rehabilitation and approach treatment at various JKR, PLUS Expressway Bhd, SKVE Holdings Sdn Bhd and MTD Prime Sdn Bhd projects.

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## PRESENTERS

### Biodata of Dr. Ma Catherine Q. Arca (Philippines )



**Dr. CATHERINE** has been actively engaged in private practice and consultancy. She is very detailed oriented and professionally equipped with 14 years of combined experiences in engineering instruction, project planning and management in addition to 7 years of civil, structural and geotechnical design and investigation works. Quality-focused and diverse team player delivering a record of achievement, reducing costs, increasing productivity, ensuring quality, and adhering to strict time and design requirements. An adaptable leader who thrives in fast-paced, deadline-driven environments. Exhibit strong leadership, organizational, problem-solving, analytical, and technical abilities. An expert in geotechnical, structural, and construction management.

Excellent skills in delivering student-centered learning instruction. Keenly maintains knowledge of current trends and developments in the field. Excellent knowledge and skills in curriculum development and revision. She is currently the program head of the Department of Civil Engineering and Graduate Program Coordinator in the College of Engineering, Central Mindanao University (CMU). Holds a Ph.D. in Geotechnical Engineering and a Master’s Degree in Structural Engineering - both of which she earned from Mindanao State University-Iligan Institute of Technology. Research interests include landslide hazard mapping, slope stability, and circular economy. Currently the project leader of CMU-funded research Geo-Hazard Assessment and Mapping in Barangay Kiorao, Kibawe, Bukidnon, and a collaborator in a Slope Stability Assessment funded by the same university. She also leads a DOST-PCIEERD-funded project regarding the development of eco-cement using locally available industrial wastes for construction application.

### Biodata of Dr. Aaron Sham Wai Lun (Singapore)

**Dr. AARON SHAM** is currently a senior engineer at the Building and Construction Authority (BCA), Singapore. He graduated with a B.Eng. (Civil Engineering) and B.Sc. (B.A. Management) and attained his PhD (Civil) at the Nanyang Technological University, Singapore in 2011 with scholarship jointly by JTC and DSTA. Dr. Aaron’s major role in BCA was to ensure construction and building resilience in Singapore, striving to enhance future readiness of the construction industry. He initiated and managed multiple multi-multimillion-dollars R&I programs in collaboration with various government agencies, IHLs and industry partners to foster technology advancement in the Built and Environment industry. His major R&D domain covered Climate change resilience, Data analytics and AI systems development with BIM and GIS, Fusion technologies and Smart buildings technologies included SHMs in both geotechnical and building structure, Building automation and Construction productivity (PPVC & DfMA).



Dr. Aaron shared his knowledge with the industry by conducting lectures for S.Dip and Master Program jointly offered by University of Florida and BCA Academy. As the Deputy Chairman of the C&S Technical Committee for the Institute of Engineers Singapore (IES) and the International Panel Member for Landslides and Climate Change Committees, Dr. Aaron conducts seminars in both locally and internationally in various topics relating to the Built and Environment sector. He is also an invited speaker/trainer for the Singapore-UNDRR Leadership Training Program organised by MFA and United Nation Office for Disaster Risk Reduction.

### Biodata of Dr. Mark Albert H. Zakro (Philippines)



- Doctor of Philosophy (Civil Engineering – major in Geotechnical Engineering) August 1993, Virginia Polytechnic Institute and State University, Blacksburg VA, USA
- Master of Science in Civil Engineering, April 1987, University of the Philippines, Diliman, Quezon City 1101 Philippines
- Bachelor of Science in Civil Engineering (cum laude), April 1985, University of the Philippines, Diliman, Quezon City 1101 Philippines.
- Professor and Group Head, Geotechnical Engineering Group, Institute of Civil Engineering, College of Engineering, University of the Philippines, Diliman, Quezon City 1101, Philippines. June 2009 to present.

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# ONE-DAY SEMINAR ON “GEOTECHNICAL ENGINEERING”

## 27 AUGUST 2022, TROVE HOTEL, JOHOR BAHRU, JOHOR, MALAYSIA

FEE DETAILS	RATE (MYR)	RATE (USD)	
Early Registrations (By 01-July-2022)	260.00	60.00	Email: <a href="mailto:iemta@iem.org.my">iemta@iem.org.my</a>
Online Rate - AER/AFEO Member	300.00	70.00	
Online Rate - Non AFEO Member	380.00	90.00	Website: <a href="http://iemta.myiem.org.my">http://iemta.myiem.org.my</a>

No	Name(s)	IEM M'ship No.	AER M'Ship No.	Fee (RM)*
<b>TOTAL PAYABLE</b>				

Registration fee payment as indicated below : (Please forward soft copy of payment advice to our contact via email):-

**(A) ONLINE BANKING**

Account Name : **IEM TRAINING ACADEMY SDN BHD**  
 Account Number & Bank : **514169143176 (Malayan Banking Berhad)**

**(B) CREDIT CARD**

I hereby authorize for my credit card to be charge as below details:

Amount : \_\_\_\_\_  
 Card Type :  Visa  MasterCard  Expiry Date:  /   
 Card Number :

Cardholder's Name : \_\_\_\_\_  
 Nationality : \_\_\_\_\_  
 Signature : \_\_\_\_\_

**Enter card details**

Card number

Expiry date  
 For example, 10/20  
 Month Year  
 /

Name on card

Card security code  
 The last 3 digits on the back of the card

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