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## ***1-Day Seminar on Proven Solutions to Complex Geotechnical and Engineering Challenges***

Date/Day: **25 June 2022, Saturday**  
Venue: **[International Engineering Centre \(IntEC\)](#)**  
Time: **8:00am – 5:00pm**  
Fees: **RM120.00 – IEM Member**  
**RM160.00 – Non-IEM Member**  
Registration Link: **[CLICK HERE TO REGISTER](#)**

CPD Hours: 7  
Ref. No.: IEM22/SWAK/171/S

### **SUMMARY**

The Sarawak Government has unveiled the state budget for a range of ambitious infrastructure projects including the Second Trunk Road, upgrading of coastal roads and improving interconnection with rural areas. The projects will require proven solutions to complex geotechnical and engineering challenges. Roads will be constructed in low lying and mountainous terrains and over river courses. Deep large diameter bored piles will provide the best technical and cost effective solution for bridge foundations. Ground improvement works will be required to provide a suitable foundation for ‘at grade’ roads in low lying areas. Roads will need to be cut into mountainous terrains and protected with retaining walls and slope stabilisation methods. In this seminar the speakers will share their extensive experience from past projects with the participants. The seminar will be divided into three topics:

1. Construction of large diameter bored pile exceeding 100 m deep,
2. Retaining wall system for slope stability and deep basement in urban area,
3. Ground improvement techniques.

### **OBJECTIVES**

1. To provide the Engineer with a better understanding on the construction method of large diameter deep bored pile.
2. To provide knowledge on different types of retaining wall systems for slope stability and deep basement in urban areas.
3. To introduce different techniques used for ground improvement.

### **WHO SHOULD ATTEND**

- Design engineers, consultant engineers, foundation professionals who desire to have a better understanding of large diameter deep bored piles, retaining wall systems and ground improvement techniques.
- Graduate Engineers, Professional Engineers and/ or Professional Engineers with Practicing Certificate

## **SPEAKERS**

### **1. DR.-ING. PHILIPP SCHOBER**

**Dr.-Ing. Philipp Schober** is the Head of Soil Improvement for Bauer Spezialtiefbau GmbH in the Asia Pacific Region since 2021 and is based in Kuala Lumpur, Malaysia. He obtained his Master's Degree from the Technical University Austria (TU Graz) in 2008. Philipp has over 15 years of experience as a geotechnical engineer, including research work and lectures at the University of the German Federal Armed Forces in Munich, where he got his PhD in 2014 with summa cum laude (passed with distinction).

Following his research work at the University, he was engaged as a senior consultant in Germany, where he was responsible for the development and execution of several soil investigation campaigns for infrastructure projects such as highways and tunnels. His focus, however, was on foundation design, where he signed, amongst other projects, responsible for the design of a combined raft-pile foundation for the third highest railway bridge in Germany, the Filstalbrücke.

During the past 6 years working with Bauer, he has focused on soil improvement solutions. He has been responsible for the tender, design, execution and technical support of various soil improvement projects in different parts of the globe, including major infrastructure and industrial projects such as the Moin Container Terminal in Costa Rica. He has developed the soil improvement business for Bauer in the Philippines since 2018, implementing advanced technologies such as the Mixed-In-Place (MIPTM) method. Under his technical lead, Bauer in the Philippines was since involved in several port extension projects as well as industrial projects involving soil improvement solutions such as stone columns, deep soil mixing by single columns mixing method and full displacement columns as rigid inclusions.

### **2. IR. AU YONG YOKE LIN**

**Ir. Au Yong Yoke Lin** obtained his Bachelor's Degree from the University Kebangsaan Malaysia (UKM) in 1990. Currently, he is the General Manager – Marketing, Design and Tender at Bauer (M) Sdn Bhd. He is a registered Professional Engineer (PE) with Certificate of Practice and also a corporate member of Institution of Engineer Malaysia. He has more than 27 years of design and construction experience in deep excavation and bored piling works.

### 3. MR. VIJAYAKUMAR VIRAMUTHU

**Mr. Vijayakumar Viramuthu** is the Managing Director of Bauer. He has a Bachelor Degree in Civil Engineering from University Malaya and has been with Bauer since 1996. He has done various project for Bauer, mainly deep piles in karstic limestone foundation and is recently involved in the construction of the deepest Kelly drilled bored pile in the world using the biggest Bauer drilling rig. The pile is 126.4 m deep with a diameter of 2500 mm, and was drilled using a newly manufactured BG 72. He has been involved in various infrastructure project since 1996 mainly LRT Kelana Jaya Line, MRT Line 1, MRT Line 2, AKLEH Highway, SUKE, DASH, SPRINT Highway, LDP and also KTMB Double Tracking work between Rawang to Ipoh.

### TENTATIVE PROGRAMME

<i>Time</i>	<i>Programme</i>
<b>8:00 am – 8:30 am</b>	Registration
<b>8:30 am – 10:00 am</b>	Ground improvement methods
<b>10:00 am – 10:15 am</b>	Q&A session
<b>10:15 am – 10:30 am</b>	Tea break
<b>10:30 am – 12:00 pm</b>	Construction of large diameter bored pile exceeding 100 m deep
<b>12:00 pm – 12.15 pm</b>	Q&A session
<b>12:15 pm – 1:15 pm</b>	Lunch
<b>1:15 pm – 2:45 pm</b>	Retaining wall system for slope stability and deep basement in urban area
<b>2:45 pm – 3:00 pm</b>	Q&A session
<b>3:00 pm – 3:15 pm</b>	Tea break
<b>3:15 pm – 4:45 pm</b>	Slope stabilization methods
<b>4:45 pm – 5:00 pm</b>	Q&A session
<b>5:00 pm</b>	End of seminar