



## **ONE DAY SEMINAR ON “SUSTAINABLE CONSTRUCTION: ECO CEMENT AND ECO CONCRETE”**

**by Ir. Soo Thong Phor, Mr. Lim Tze Liang,  
Dr. Yeo Shih Horng, Mr. Damian Lusty &  
Mr. Charles Jones**

**DATE : 14 NOVEMBER 2024 (THURSDAY)**

**PLATFORM :PHYSICAL**

**VENUE : CDL ACADEMY TRAINING HUB,  
WISMA YTL CEMENT, NO 2, JALAN KILANG 51/206,  
46050, PETALING JAYA, SELANGOR**

**TIME : 9.00 A.M. - 5.30 P.M.**

**CPD HOURS : 7 HOURS**

**CPD REF NUMBER : IEM24/PG/499/S**

**LIMIT  
85 SEATS  
only**

SPONSORED BY:



Cancellation Policy

No cancellation will be accepted prior to the date of the event. However, replacement or substitute may be made at any time with 7 days prior notification and substitute will be charged according to membership status.

**CLOSING DATE : 31 OCTOBER 2024**

**SPONSORED BY :**

**YTL CEMENT  
SIKA MALAYSIA**

## **BIODATA OF THE SPEAKERS**



### Ir. Soo Thong Phor

Ir. Soo Thong Phor is a Fellow of the IEM and a registered Professional Engineer. He is the past Chairman of the Civil & Structural Engineering Technical Division and the winner of the IEM Presidential Award of Excellence in year 2001. Currently, he is the Technical Director of CDL Sdn Bhd, a subsidiary of YTL Cement. CDL Sdn Bhd is focusing on innovations in low CO2 Blended Cement and in collaboration with the engineering fraternity to adopt the use of low CO2 Blended Cement. He has been involved in the cement, concrete as well as the construction industry for 46 years, since graduation in 1978. He was also the past President of American Concrete Institute, Kuala Lumpur Chapter. In addition, he has been the representative of the IEM/NRMCA for SIRIM's Technical Committee on Concrete & Concrete Products.



### Mr. Lim Tze Liang

Lim Tze Liang is currently General Manager (Technical) at YTL Cement's Construction Development Lab (CDL). The CDL is an innovation hub focusing on product testing and development. It has a cement and concrete lab with state-of-the-art testing facilities, and a team of experts dedicated to research and development. Tze Liang is an experienced professional in the concrete industry, with a bachelor's degree in civil engineering from Universiti Teknologi Malaysia (UTM). He began his career at Buildcon Concrete, YTL Cement's ready-mixed concrete division 18 years ago. Prior to this appointment, Tze Liang was the Head of Technical Department of Buildcon Concrete. In this capacity, he was involved in research and development activities to enhance concrete materials, meet market demands, and manage customer complaints while providing technical guidance to customers.



### Dr. Yeo Shih Horng

Dr. Yeo Shih Horng is a concrete specialist and founder of YSH Concrete Technology Sdn. Bhd., known for providing innovative solutions for diverse construction projects. With extensive experience in designing high-performance concrete mixes, Dr. Yeo has successfully contributed to several international projects. Notably, he designed a custom concrete mix for a fast-track FAB project in Dalian, China, that performed exceptionally in temperatures as low as -10°C. He also consulted on the Changi Airport expansion project, offering expertise in mix design and quality control. Dr. Yeo has developed high-performance concrete for data centre and segmental box girders, including mixes that achieve 20 MPa within 12 hours. Additionally, he has a strong background in forensic investigations, addressing structural integrity, concrete sleeper cracks, delayed ettringite formation, and other concrete-related issues. He has served as a committee member for the American Concrete Institute (ACI) – Malaysia Chapter and the Institution of Engineers, Malaysia (IEM).



### Mr. Damian Lusty

Mr Damian Lusty is the Head of Sustainability & Digitalization for Concrete Target Market in APAC region. He is an international sales and business executive with over 15 years of experience in chemical construction sales and general management, Damian Lusty has notably driven revenue growth and operational excellence in MBCC New Zealand, Japan and Malaysia, prior to its acquisition to Sika. His present role is to drive the Commercialization of Sustainability & Digitization for TM Concrete in APAC region. His aspiration is to influence and lead sustainable concrete production globally. He holds a Master of Philosophy from Cardiff University with his thesis topic on "Sand from Surplus Quarry Material". He is also an experienced concrete technology specialist with a Diploma in Advanced Concrete Technology, from Institute of Concrete Technology (ICT), UK. Damian is still an Affiliate member of ACT UK and has won multiple awards in sales and leadership roles at BASF.



### Charles Samuel Jones

Charles Jones, a civil engineer from Bharatiyar University, Coimbatore, India, brings over 26 years of experience in the concrete and construction chemicals industry. Having worked for six years as a Technical Manager at Elkem Materials, he has spent more than 18 years with SIKA (following the MBCC acquisition). His expertise spans specialty concrete, including ultra-high-performance concrete (UHPC), abrasion resistance, high-strength concrete, roller-compacted concrete, and sustainability solutions. Currently, Charles is focused on implementing global strategies and driving innovation and growth in the APAC market for Sika, positioning himself as a leader in advancing sustainable concrete technologies.

# SYNOPSIS

Sustainable construction involves the design, construction, and operation of buildings and infrastructure in an environmentally responsible manner. This approach goes beyond reducing waste and using non-toxic by-products; it also underscores the critical role that the choice of building materials plays in advancing sustainability.

This seminar will feature four presentations and a live demonstration of High Flow Concrete. The presentations will cover a range of topics, including the latest revisions to Concrete Standards BS 8500-1:2023 and BS 8500-2:2023, and a comparison of CO2 emissions per tonne of OPC (CEM I) with various blended cements. We will delve into sustainability within concrete technology, guided by EN 206, and review the three design methods permitted by the standard. Additionally, there will be a focus on innovative strategies to reduce the product carbon footprint in data centers, highlighting the increasing use of supplementary cementitious materials and incorporating advanced admixtures.

## PROGRAM OUTLINE

8.15 am – 9.00 am	Registration & morning coffee
9.00 am – 9.05 am	Welcome address by CSETD (Civil & Structural Engineering Technical Division), Ms. Wong Ai Ming Committee of CSETD, IEM
9.05 am – 9.10 am	Opening Note from IEM Ir. Prof. Dr. Jeffrey Chiang Choong Luin, President of IEM
9.10am - 9.20am	Speech by the Host, YTL Cement , Ms. Rachel Yeoh, Executive Director, Strategy & Transformation
9.20am - 9.25am	Video by YTL Cement (Host)
9.25am - 10.10am	Session 1: Eco Cem, Low CO2 Blended Cement By Ir. Soo Thong Phor, Technical Director of CDL Sdn. Bhd.
10.10am -10.30am	Morning Coffee Break
10.30am - 10.50am	Session 2: Introduction to High Flow Concrete By Mr. Lim Tze Liang, Technical General Manager of CDL Sdn. Bhd.
10.50am - 12.15noon	High Flow Concrete Demo, including V Funnel Test, L Box Test and Slump Flow Test
12.15pm - 12.45pm	Q&A Session for Session Papers 1, 2 and High Flow Concrete Demo
12.45pm - 1.45pm	Lunch Break
1.45pm - 2.45pm	Session 3: Sustainable Concrete with EN206 By Dr. Yeo Shih Horng, Concrete Specialist of YSH Concrete Technology Sdn. Bhd.
2.45pm - 3.00pm	Tea- Break
3.00pm - 3.05pm	Video by Sika Malaysia (Sponsor)
3.05pm -4.30pm	Session 4 : Optimizing Concrete Mix Designs To Reduce Product Carbon Footprint For Data Centers By Mr. Damian Lusty, Head of Sustainability & Digitalization for Concrete Target Market, APAC, and Mr. Charles Jones, Head of Business Development for Concrete Target Market, APAC
4.30pm - 5.00pm	Q&A Session for Session Papers 3 & 4
5.00pm - 5.10pm	Exchange of Token of Appreciation
5.10pm - 5.20pm	Closing by Mr. Lim Tze Liang
5.20pm - 5.30pm	Group Photo
5.30pm	End of Session

**"IEM reserves the right to alter or cancel the programme due to unforeseen circumstances at its discretion".**

**For intending participants who choose to 'walk in without prior registration',**

**IEM SHALL NOT be responsible for any direct or consequential losses".**

# **REGISTRATION FORM**

ONE DAY SEMINAR ON "SUSTAINABLE CONSTRUCTION:  
ECO CEMENT AND ECO CONCRETE" (PHYSICAL)  
14 NOVEMBER (THURSDAY)  
Email : [roseleiniem.org.my](mailto:roseleiniem.org.my) / [shahruleiem.org.my](mailto:shahruleiem.org.my)

<b>REGISTRATION FEE'S (subject to 8% SST)</b>		
	<b>ONLINE FEE (RM)</b>	<b>NORMAL FEE (via email / walk in) (RM)</b>
IEM Student Members	50.00	60.00
IEM Graduate Members	50.00	60.00
IEM Corporate Members	50.00	60.00
Non-IEM Members (None of the Above)	50.00	60.00

No	Name(s)	Membership No.	Grade	Fee (RM)*
SUB TOTAL				
(PLEASE ADD) + SST 8%				
TOTAL PAYABLE				

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For further details, kindly contact:  
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Tel: 603-78900135

Email : [roseleiniem.org.my](mailto:roseleiniem.org.my) / [shahrul@iem.org.my](mailto:shahrul@iem.org.my)

# REGISTRATION FORM

Cash RM \_\_\_\_\_

Cheque no. \_\_\_\_\_ for the amount of RM \_\_\_\_\_ (non refundable) payable to "The Institution of Engineers, Malaysia" and crossed as a/c payee only

FULL PAYMENT must be settled before commencement of the seminar, otherwise participants will not be allowed to enter the hall. If a place is reserved and the intended participant fails to attend the course, the fee is to be settled in full. If the participant failed to attend the course, the fee paid is non refundable. The Registration Fee includes lecture notes, refreshment and lunch (whichever available).

For ONLINE REGISTRATIONS, please note that payment MUST be made BEFORE the closing date. If payment is not received within the stipulated time, the registration fee will be reverted to the normal registration fee.

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