



BEM APPROVED CPD: 2
REF NO.: IEM25/HQ/299/F



HYBRID FORUM

PRELUDE & PROMOTIONAL FORUM: ENGINEERING THE FUTURE TODAY

To introduce key themes and technical perspectives from ENGINEER 2025 ahead of the main event in September, this short forum will feature two impactful sessions highlighting core engineering standards and breakthrough technologies.

2 July 2025 (Wednesday) Malakoff Auditorium,
5.30pm to 7.30pm Ground Floor, Wisma
IEM, PJ

Moderators



Ir. Abdul Razak Yakob
IEM Vice President & ACT Chairman



Ir. Alex Looi Tink Huey
ACT Deputy Chairman & Excomm Member

Speakers



Ir. Lau Yee Leong, Muke
Urban Engineering Development,
Special Interest Group,
UEDSIG Chairman



Ir. Frankie Cheah Peng Leong
Tunneling & Underground Space
Technical Division, TUSTD Chairman



Ir. Al-Khairi Bin Mohd Daud
Building Services
Technical Division,
BSTD Chairman



Ir. Kwok Yew Hoe,
Electrical Engineering
Technical Division, EETD Chairman



Ir. Tony Cheng Yew Leong
Mechanical Engineering
Technical Division, METD
Deputy Chairman

Programme

5:30 - 5:40 PM	Opening Remarks by IEM President
5:40 - 6:00 PM	Session 1: Standards and Guidelines in Engineering
6:00 - 6:10 PM	Q&A Session 1
6:10 - 6:30 PM	Session 2: Emerging Technology in Engineering
6:30 - 6:40 PM	Q&A Session 2
6.40 - 7.00PM	Unleashing ENGINEER programme

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SESSION 1

Standards and Guidelines in Engineering

Speakers: Representatives from Electrical, Mechanical, and Building Services Engineering

Synopsis:

In an era where safety, interoperability, and sustainability are paramount, adherence to robust engineering standards and technical guidelines is more critical than ever. This session will explore the latest developments, challenges, and case studies in the implementation of national and international engineering standards, including those related to electrical installations, HVAC systems, energy efficiency codes, and green building certifications. The speakers will also touch on the evolving role of digital tools in compliance assessment and audit processes.

Key Takeaways:

Overview of recent updates to engineering standards (e.g., MS, IEC, ISO).

Common gaps and compliance pitfalls in mechanical and electrical installations.

Role of standards in building sustainability and service reliability.



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SESSION 2

Emerging Technology in Engineering

Speakers: Experts in Tunnelling and Urban Engineering

Synopsis:

This session highlights the cutting-edge innovations transforming the engineering landscape, with a particular focus on urban development and underground infrastructure. Speakers will present breakthrough technologies such as smart tunnelling systems, AI-powered structural health monitoring, digital twins in metro projects, and climate-responsive urban design. The audience will gain insight into how these technologies are being applied in current Malaysian infrastructure projects and how engineers can adapt to remain at the forefront of technological change.

Key Takeaways:

Innovative tools in tunnelling: automation, predictive analytics, and safety systems.

Integration of smart technologies in urban engineering and city planning.

Case examples from ongoing or completed megaprojects.



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