

35TH ANNUAL PROFESSOR CHIN FUNG KEE MEMORIAL LECTURE

ENGINEERING CONSULTANCY:

Navigating Fragility through Knowledge
Management and Digitalisation

BEM APPROVED CPD: 2

REF NO: IEM25/HQ/286/L (h)

SPEAKER:

Ir. Dr. TAN Yean Chin

*Director, G&P Professionals Sdn Bhd.
FEIAP Secretary General*



HYBRID MODE



15 NOVEMBER 2025, SATURDAY



10.00AM – 12.00PM



WISMA IEM, PETALING JAYA

Jointly organised by:
The Institution of Engineers, Malaysia (IEM) and
Universiti Malaya Engineering Alumni Association (2017)

ORGANISING CHAIRMAN:

Ir. Yau Chau Fong

ADVISORS:

**Academician Tan Sri Dato Seri Ir. Prof.
Emeritus Dr. Chuah Hean Teik &
Ir. Dr. Chan Sin Fatt**

SYNOPSIS

This lecture explores how engineering consultancy can mitigate fragility through knowledge management and digitalisation. Fragility arises from project risks, market uncertainties, and outdated processes, leading to inefficiencies, contractual risks, and business disruptions. Addressing these challenges is essential for enhancing resilience, efficiency, and sustainability in a competitive industry.

The lecture will define fragility in engineering consultancy, highlighting key technical, financial, and operational risks. It will emphasize knowledge management as a tool for better decision-making, innovation, and business stability, with strategies such as mentorship programs, collaborative platforms, and digital repositories to strengthen organizations.

The session will introduce the “R&D Tree” approach, demonstrating how digitalisation and knowledge management integration can drive long-term resilience and adaptability. Case studies will showcase how firms can streamline operations and reduce uncertainties through digital transformation.

Finally, the lecture will conclude with a discussion on the future of engineering consultancy, exploring how firms can leverage knowledge and technology to navigate uncertainties, foster innovation, and build resilience and sustainability in an evolving digital landscape.

SPEAKER’S PROFILE

Ir. Dr. Tan Yean Chin is the Co-Founder and Director of G&P Professionals, a group of multi-disciplinary engineering consulting firms. He led his team in the design of mega projects, including the Electrified Double Track Railway from Taiping to Alor Setar, the Klang Valley MRT Kajang Line, and the Putrajaya Line. Ir. Dr. Tan has published over 100 technical papers in local and international conferences and seminars.

He served as Secretary General (2008-2024) of the Federation of Engineering Institutions of Asia and the Pacific (FEIAP) and was President of The Institution of Engineers, Malaysia (IEM) (2016-2018). He was also a Board Member of BEM for 10 years and is an Honorary Fellow of AFEO and IEM, as well as a Fellow of ICE (UK) and the ASEAN Academy of Engineering & Technology (AAET).

In recognition of his contributions to engineering, he received the FEIAP Engineer of the Year 2024 Award and the Distinguished Friend of Africa Engineering Award – Gold Class from the Federation of African Engineering Organisations (FAEO).

REGISTRATION FEE (ONLINE ATTENDANCE)

Members, IEM	RM 10.00
Members, Universiti Malaya Engineering Alumni Association	RM 10.00
Non Members	RM 25.00

REGISTRATION FEE (PHYSICAL ATTENDANCE)

Members, IEM	RM 20.00
Members, Universiti Malaya Engineering Alumni Association	RM 20.00
Non Members	RM 40.00

IMPORTANT: All registration fees must be FULLY paid before commencement of the Lecture.

REGISTRATION IS COMPULSORY

*Registration Deadline: **31st October 2025***

For participants who register for online participation, the Zoom Webinar link will be emailed to you 24 hours before the event.

If you do not receive the Zoom webinar link one day before the event,
please contact it@iem.org.my