

# HALF DAY SEMINAR ON A SYSTEMATIC APPROACH TO CARBON FOOTPRINT REDUCTION: EMPOWERING INCLUSIVE LEADERSHIP IN SUSTAINABILITY

**DATE : 22 AUGUST 2026, SATURDAY**  
**TIME : 9.00 AM - 1.00 PM**  
**VENUE: C & S ROOM, 2<sup>ND</sup> FLOOR, WISMA IEM**



**Ir. Prof. Dr. Dominic C. Y. Foo**

BEM Approved CPD Hours : 4  
Ref. No. : IEM26/HQ/280/S

## REGISTRATION FEE'S (subject to 8% SST)

|                                    | <b>ONLINE FEE</b><br>(Log-in for registration & payment:<br><a href="http://www.myiem.org.my/member/login.aspx">www.myiem.org.my/member/login.aspx</a> ) | <b>NORMAL FEE</b><br>(By Email : Payment by cash, credit card,<br>bank-in, Quotation & Invoice) |
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# SYNOPSIS

Emissions of greenhouse gases (GHGs) such as carbon dioxide and methane from industrial activities have long been known to be major contributors to global warming. This trend has led to significant interest in the increased use of low carbon footprints technologies, as well as in retrofitting existing facilities to reduce greenhouse gas emissions. In this talk, generic graphical tool known as carbon footprint diagram is introduced to assist industrial practitioners for decision making in reducing carbon footprint. The carbon footprint diagram allows management-based (e.g., material selection) and technology-based solutions (e.g. process retrofits for energy conservation, heat recovery, etc.) to be examined, while simultaneously considering technical and economic constraints. The approach is designed to be accessible to a broad audience, including engineers, early-career professionals, and emerging women engineers and leaders in sustainability and industry.

# PROGRAMME

| Time               | Description                                                                                                                                                                            |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8:40am – 9:00am    | Registration                                                                                                                                                                           |
| 9:00am – 10:30am   | Session 1 – Introduction: climate change and carbon footprints<br>Session 2 – Visualisation methods for carbon footprints of a manufacturing process, and its strategies for reduction |
| 10:30am - 10:45am  | Morning Tea Break                                                                                                                                                                      |
| 10:45am - 12.45pm  | Session 2: case studies<br>Case 1 : Biochemical production<br>Case 2: Edible oil refinery                                                                                              |
| 12.45 pm - 1.15 pm | Q&A                                                                                                                                                                                    |
| 1:15pm             | Closure & Lunch                                                                                                                                                                        |

# SPEAKER'S BIODATA

Ir. Professor Dr. Dominic Foo is a Professor of Process Design and Integration at the University of Nottingham Malaysia and is the Founding Director for the Centre of Excellence for Green Technologies. He is a Fellow of the Institution of Engineers Malaysia (IEM), the Institution of Chemical Engineers (IChemE) and the Academy of Sciences Malaysia (ASM), as well as Chartered Engineer (CEng) with the United Kingdom Engineering Council, Professional Engineer (PEng) with the Board of Engineer Malaysia (BEM), ASEAN Chartered Professional Engineers (ACPE), and the President for the Asia Pacific Confederation of Chemical Engineering (APCCChE). He is top 2% world-renowned scientist according to Stanford List, working in process integration for resource conservation and carbon dioxide (CO<sub>2</sub>) reduction. He collaborates with more than 50 research scholars and industrial practitioners over Asia, Europe, North America and Africa. Professor Foo is an active author, with 13 books, more than 240 journal papers and made more than 280 conference presentations, with over 45 keynote/plenary speeches. He served as International Scientific Committees for many important international conferences (CHISA/PRES, FOCAPD, ESCAPE, PSE, SDEWES, etc.). Professor Foo is the Editor-in-Chief for Process Integration and Optimization for Sustainability (Springer Nature), Subject Editor for Process Safety & Environmental Protection (Elsevier), and editorial board members for several other renowned journals. He is the winners of the Innovator of the Year Award 2009 of IChemE, Young Engineer Award 2010 of IEM, Outstanding Young Malaysian Award 2012 of Junior Chamber International (JCI), Outstanding Asian Researcher and Engineer 2013 (Society of Chemical Engineers, Japan), Vice-Chancellor's Achievement Award 2014 (University of Nottingham) and Top Research Scientist Malaysia 2016 (ASM). He has conducted more than 100 professional workshops for academic and industrial practitioners worldwide.

# REGISTRATION FORM

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**Email Address for Receiving Remittance Advise : [suriani@iem.org.my](mailto:suriani@iem.org.my) / [finance@iem.org.my](mailto:finance@iem.org.my)**

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