

# Academician Tan Sri Dato' Seri Ir. Prof. Emeritus Dr. Chuah Hean Teik Lecture Series 2026

## TECHNICAL TALK ON ENGINEERING FOR A SUSTAINABLE PLANET: PATHWAYS TO NET-ZERO 2050

ORGANISED BY: ENGINEERING EDUCATION TECHNICAL DIVISION, IEM

BEM APPROVED CPD: 2    REF. NO: IEM26/HQ/110/T



**13 JUNE 2026, SATURDAY**



**WISMA IEM, PETALING JAYA**



**9.00AM - 11.00AM**



**SPEAKER:**

**PROFESSOR SAIDUR RAHMAN**

Distinguished Research Professor and Head-Research Centre for Nano-Materials and Energy Technology (RCNMET),  
Sunway University



**REGISTRATION**

**IEM STUDENT: FOC**

**IEM MEMBER: RM15**

**NON IEM MEMBER: RM70**



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# SYNOPSIS

Burning fossil fuels for electricity is a major contributor to global greenhouse gas emissions, making their management essential to address climate change and limit global warming to 1.5°C. Achieving a sustainable future aligns with the United Nations Sustainable Development Goals, particularly in clean energy, sustainable industry, responsible consumption, and climate action. This transition requires transformation across key sectors such as power generation, transportation, industry, and buildings, with engineering innovation playing a crucial role. Significant progress has been made in renewable energy technologies like solar and wind, alongside advances in electrification, green hydrogen, and low-carbon industrial processes. Energy storage systems and carbon capture technologies are also important for supporting reliable renewable energy and reducing emissions in hard-to-decarbonize industries. Digital technologies, including artificial intelligence, further enhance energy system optimization. However, challenges such as high investment costs and infrastructure limitations remain. Overcoming these barriers requires systems engineering, circular economy practices, and strong collaboration among industry, academia, governments, and communities.

## SPEAKER'S PROFILE

**Professor Saidur Rahman** is a Distinguished Research Professor and Head of the Research Centre for Nano-Materials and Energy Technology at Sunway University, and a Full Professor at Lancaster University. Previously, he served as Chair Professor at King Fahd University of Petroleum and Minerals and spent 18 years at the University of Malaya. He is ranked the number one scientist in Malaysia by several global rankings, including Stanford/Elsevier's top 2% scientists list. Recognized as a Highly Cited Researcher for eight consecutive years (2014–2021), he has published over 900 papers with more than 87,000 citations and an h-index of 147. His research focuses on nano-materials for energy storage, heat transfer, solar energy, and environmental remediation.

# PROGRAMME

<b>TIME</b>	<b>DESCRIPTION</b>
<b>08:15 – 08:45 am</b>	<b>Registration of Participants</b>
<b>08:45 am</b>	<b>Arrival of Prestige Speaker, Professor Saidur Rahman</b>
<b>9.00 am</b>	<b>Welcome Speech by Chairman Engineering Education Technical Division, Ir. Ts. Dr. Dhakshyani Ratnadurai</b>
<b>09:05 am</b>	<b>Opening Speech by IEM President, Ir. Yau Chau Fong</b>
<b>09:10 – 10:30 am</b>	<b>Prestige Lecture Series by Professor Saidur Rahman</b>
<b>10:30 – 11:00 am</b>	<b>Q &amp; A Session</b>
<b>11:00 am</b>	<b>Presentation of Token of Appreciation</b>

**Ir. Ts. Dr. Dhakshyani Ratnadurai**  
**Chairman**  
**Engineering Education Technical Division**  
**Session 2025/2026**