


Organised By :
Mechanical Engineering
Technical Division, IEM

PHYSICAL 1 DAY SEMINAR DATA CENTER FOR ENGINEERS

3rd May 2025 | 8:30am – 5:00pm

 Professor Chin Fung Kee Auditorium,
3rd floor, Wisma IEM, Petaling Jaya.

BEM Approved CPD Hours : 6
Ref No. : IEM25/HQ/145/S

*Register
Now*

REGISTRATION FEE'S (subject to 8% SST)

	ONLINE FEE (NON HRDF Claimable) (Log-in for registration & payment: www.myiem.org.my/member/login.aspx)	NORMAL FEE (HRDF Claimable) (By Email : Quotation & Invoice)
IEM Student Members	150.00	230.00
IEM Graduate Members	250.00	350.00
IEM Corporate Members	400.00	500.00
Non-IEM Members	800.00	950.00



APPROVED DURATION:
04/04/2025 - 05/04/2026
HRD CORP SERIAL NO:
10001536969

This event brings together industry experts to share cutting-edge insights on AI, automation, energy efficiency, cooling systems, and data center optimization.

TENTATIVE PROGRAM



TIME	PROGRAMME
08:30am-09:00am	Registration and breakfast
09:00am-09:30am	Welcome Address by METD, IEM 2024/2025 – Organising Chairman Ir. Dr Ricky Liew Chee Leong.
09:30am-10:15am	AI-driven DC design, operation and management by Ir. Ts. Maxx Wong Meng Fai , Head of Technical and Solutions, YTL Data Centers, Singapore.
10:15am-11:00am	The Guide and Methodology for Data Center Testing and Commissioning by Son Yee Kok , Commissioning Manager, Turner.
11:00am-11:15am	Coffee Break
11:15am-12:00pm	Data Center Cooling Technology and Beyond by Poh Seng Lee , Coordinating Director, NUS Energy Solutions Hub (NESH) & Head of the Department of Mechanical Engineering at the National University of Singapore (NUS).
12:00pm-12:45pm	Data Centre: How scalable digital infrastructure enables the next generation of IT workloads by Stephen Ewe , Assistant General Manager, Data Centre Product Development and Management.
12:45pm-01:00pm	Q & A Session
01:00pm-02:00pm	Lunch
02:00pm-02:45pm	Automatic and AI Control on Data Center Metrics and Energy Optimisation by Ts. Johnathan Yau , Regional Digital Energy C&SP Business Leader, East Asia Region, Schneider Electric.
02:45pm-03:30pm	Data Center CFD Design: Ensuring Compliance, Efficiency, and Optimal Cooling by Jay Wang , Managing Director, Megagenix Pte Ltd.
03:00pm-03:45pm	Break
03:45pm-04:30pm	Design and Implementation for AI Data Center in Asia Pacific by Dedi Iskandar , Regional Director – Asia Pacific, Data Center Hawk.
04:30pm-04:45pm	Q & A Session
04:45pm-05:00pm	Closing Remarks & Certificate Distribution

SYNOPSIS

A data center is a critical facility that houses applications and data essential to modern businesses. Engineers play a key role in ensuring efficient operation, focusing on physical infrastructure, power and cooling systems, security, and maintenance. Key components include servers, storage systems, networking equipment, and backup power systems. Understanding data center architecture, cloud integration, and performance monitoring is crucial. Data centers vary in type—enterprise, colocation, and cloud-based—each with specific design and operational needs. Engineers contribute by optimizing efficiency, scalability, and security across these environments.

SPEAKERS' PROFILE

Ir. Ts. Maxx Wong Meng Fai

Ir. Ts. Maxx has extensive experience in the Data Centre and engineering industry. His responsibility is to manage the planning, design, construction and commissioning of DC facilities in APAC region, including, collaboration with hyperscale players, design partners and contractors. He works closely with commercial team and management executives on technical and solutions matters based on code, compliance, cost, and constructability.

One of his DC projects in Singapore has been shortlisted as finalist of DCD Award APAC 2019 and published as successful use case of large-scale prefabricated MEP module adoption by Singapore BCA. One of his DC projects in Malaysia has been awarded as 2024 Best Project in Southeast Asia by W-Media. As passionate about engineering and technology, he constantly engages with industry players and attends industry events, such as conference, seminar, and webinar, as panelist /speaker sharing his knowledge and perspectives and exchanging ideas / views with industry players.

Son Yee Kok

Son Ye Kok is a mechanical specialist with extensive expertise in data center cooling packages, HVAC+R systems, and critical mechanical infrastructure. With a career that includes roles in data centers, major oil and gas projects, offshore facilities, and chemical processing plants, he brings a versatile skill set to complex industrial environments. Currently serving as a Commissioning Manager at Turner, Son oversees commissioning works, ensuring the efficient and smooth execution of mechanical and HVAC systems. Throughout his career, he has accumulated significant experience in the data center industry, overseeing the commissioning of critical systems and ensuring the seamless integration of complex mechanical and electrical infrastructure. His deep understanding of the unique challenges within the data center sector has made him a sought-after expert.

Poh Seng Lee

Prof PS Lee obtained his BEng (1st Class Honors) and MEng from the Department of Mechanical Engineering at the National University of Singapore and was a Senior Tutor with the same department from 1999 to 2001. He then proceeded to obtain his PhD degree from the School of Mechanical Engineering, Purdue University, West Lafayette, USA in 2007. His current research interests include microfluidics and microscale heat transfer, high performance thermal management techniques (in particular microchannel single- and two-phase cooling) and hybrid solar energy harvesting systems. His work were published in top international journals and widely cited. One of his papers won the International Journal of Heat and Mass Transfer Most Cited Papers Award for 2005-2008.

Stephen Ewe

Stephen Ewe is an experienced Data Centre business implementer specializing in business strategy formulation, operational sustainability, and strategy delivery. As the Assistant General Manager of Data Centre Services at TM ONE, he has played a pivotal role in expanding Telekom Malaysia's data centre capabilities to support the nation's digital economy. Stephen actively engages in industry events and discussions, contributing to the advancement of Data Centre technologies and sustainable practices.

Ts.Johnathan Yau

A leading the East Asia region for Digital Energy division in providing Building & Energy Management System solution focusing on Data Centre that includes Enterprise Data Centre & AI Data Centre application.

His field of expertise include designing and implementing Smart Building Management system and Energy Efficiency System for various segment that's inline with the vision of digitization, digital transformation and sustainable. His experience as segment solution specialist to lead Schneider Electric in deployment of EcoStruxure™ Building platform, consultative engagement with consultants and end users. In the past, he has done several seminar jointly organized with IEM to provide sharing session and technical seminar for consultants and engineers in Malaysia on various topic including Digital Transformation, Building of the Future and Sustainable Building. He also provides consultancy to end user and provide training and technology update to consultant regarding Building Management System and Energy Efficiency System.

Jay Wang

Jay Wang is an experienced CFD Specialist and Data Center Cooling Consultant with over a decade in HVAC and mechanical systems engineering. Currently the Managing Director at Megagenix Pte Ltd, he specializes in fluid dynamics simulations, system optimization, and technical leadership. His career spans prominent roles at AIRSYS Singapore, SSMC, and Micron Semiconductor, where he led projects in data center cooling, cleanroom systems, and energy efficiency. Jay holds a Master's degree in Electrical Engineering from NUS, along with multiple industry certifications including CDCP, CDCS, and Green Mark Manager.

Dedi Iskandar

Dedi Iskandar is a seasoned professional in the data center and digital infrastructure sector, currently serving as the APAC Regional Director at datacenterHawk. Prior to this role, he was the Head of Data Center Solutions, Advisory & Transaction Services, Asia Pacific at CBRE, where he led a team focusing on developing growth strategies for clients including enterprises, operators, hyperscalers, and service providers. Dedi has been an active participant in industry events, sharing insights on data center investment trends and the evolving landscape of the sector. His expertise encompasses strategic planning, market analysis, and fostering growth within the data center industry across the Asia-Pacific region.

REGISTRATION FORM

Physical 1-day Seminar on Data Center For Engineers
3rd May 2025 (Saturday) **Closing Date : 30 April 2025**
Email : syahlini@iem.org.my

REGISTRATION FEE'S (subject to 8% SST)		
GRADE	ONLINE FEE (Log-in for registration & payment: www.myiem.org.my/member/login.aspx)	NORMAL FEE (By Email : Payment by cash, credit card, bank-in, Quotation & Invoice)
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NAME	MEMBERSHIP NO. / GRADE	FEES (RM)
Sub Total:		
SST Added 8% :		
Total Amount Payable :		

FULL PAYMENT must be settled before commencement of the course, 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.

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.

Contact Person: _____ Designation: _____

Name of Organization: _____

Address : _____

Telephone No. : _____(O) _____(Fax No.) _____

Email : _____

Cancellation Policy

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

Personal Data Protection Act

I have read understood the IEM's Personal Data Protection Notice published on IEM's website at <http://www.myiem.org.my> and I agree to IEM's use and processing of my personal data as set out in the said notice.