


Organised By :
Mechanical Engineering
Technical Division, IEM

PHYSICAL 1 DAY SYMPOSIUM DATA CENTER FOR ENGINEERS

20th June 2026 | 8:30am - 5:00pm

 Auditorium A, 2nd Floor,
SEGI University, Kota Damansara,
Petaling Jaya.

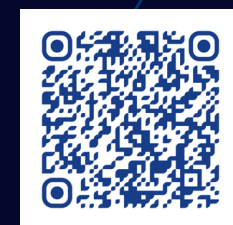
BEM Approved CPD Hours : 7
Ref No. : IEM26/HQ/204/S



*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	200.00
IEM Graduate Members	250.00	300.00
IEM Corporate Members	400.00	450.00
Non-IEM Members	800.00	900.00



 REGISTER NOW

APPROVED
DURATION:
applying

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

TIME	PROGRAMME
08:30am-09:00am	Registration and breakfast
09:00am-09:15am	Welcome Address by Ir. Yau Chau Fong, IEM President The Institution of Engineers Malaysia (IEM)
09:15am-09:30am	Welcome Address by SEGI University, Co-Host
09:30am- 10:00am	"Cooling Systems For White and Grey Spaces in Data Center" Ir. Aaron Chai, MEG Consult Sdn Bhd
10:00m-10:30am	"FWS and TCS Water Treatment in Liquid Cooling System" by Mr Stanley Ho, EnGreen Sdn Bhd
10:30am-10:45am	Q & A Session
10:45am-11:00am	Coffee Break
11:00am-11:45am	"A CDU Centric View of Succesful Deployment, Operations & Risks" by Victor Tan, nVent
11:45pm-12:45pm	"Hybrid Cooling Simulation For Various Servers and Pyhton API For Annualised Integrated Cooling PUE, WUE and CUE" by Ir. Pua Ching Tian, Jurutera Perunding Kerjaya Sdn Bhd
12:45pm-01:00pm	Q & A Session
01:00pm-02:00pm	Lunch
02:00pm-02:30pm	"Application and Validation of CFD For Data Center Cooling" by Dr Keagan Chee, NING Research Sdn Bhd
02:30pm-03:00pm	"High Effcient Air Cooling System For Edge and Colo Data Center" by Mr Koh Ken Weng, Ecochill Energy Sdn Bhd
03:00pm-03:30pm	"Understanding LEED For Data Center: A Practical Guide" by Ir. Julian Saw, Green Quarter Sdn Bhd
03:30pm-03:45pm	Q & A Session
03:45pm-04:00pm	Break
04:00pm-04:45pm	"Smart Data Centers: Liquid Cooling Control and Intelligents Gas & Refrigerant Monitoring" by Mr Phang Khai Siang, Belimo
04:45pm-05:15pm	"Bridging the Cooling Gap and Resilense with Buffer Tank" by Ir Phang CF, Enlighted Solutions Sdn Bhd
05:15pm-05:30pm	Q & A Session
05:30pm-05:45pm	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.

SPEAKER'S LINE UP



Ir. Aaron Chai Kao Khy

Ir. Aaron Chai has over a decade of experience in mechanical engineering, particularly in building services design and project management for major developments including high-rise buildings, mix development and data centers. He currently serves as Business Development Director at MEG Consult Sdn Bhd, where he leads engineering teams, drives business development, and mentors young professionals.



Mr Stanley Ho

Stanley Ho is a seasoned engineering professional and Executive Director at enGreen Sdn Bhd, with over 25 years of experience in water treatment systems across industrial and commercial environments in Malaysia. He specializes in the design, implementation, and commissioning of cooling water, wastewater, and chemical dosing systems, translating complex system requirements into practical engineering solutions. His involvement spans procurement coordination, construction management, system testing, and commissioning, working closely with contractors, consultants, and clients to ensure successful project delivery aligned with technical and operational demands. His portfolio includes large-scale data centre, industrial plant, and infrastructure projects, particularly in cooling water treatment and effluent management systems.



Mr Victor Tan

Victor Tan is a technically driven business development manager at nVent Data Solutions, where he supports customers operating in mission-critical and data center environments. With a formal engineering background and hands-on exposure to data center infrastructure, Victor is actively involved in technical solution positioning across power distribution, liquid and air-cooling interfaces, and rack-level infrastructure. His work focuses on translating system-level requirements—such as redundancy, availability, thermal performance, and maintainability—into practical, deployable solutions aligned with real-world operating constraints. At nVent, Victor works closely with consultants, system integrators, and end users, engaging in technical discussions around data center design intent, load characteristics, cooling architectures, and deployment considerations.



Ir. Pua Ching Tian

Ir. Pua has over 30 years of experience in MEP consulting engineering, specializing in high-performance buildings, data centers, healthcare, pharmaceutical facilities, warehouses, and commercial projects. His expertise covers MEP design and build, energy efficiency, CFD analysis, and advanced customization using Python coding. He is an HRD Accredited Trainer in dynamic cooling systems, with strong capabilities in hourly cooling PUE/WUE simulations and Python API coding for data center cooling. His work includes dynamic simulations for healthcare, pharmaceutical, and data center air and liquid cooling systems. Ir. Pua is also GreenMark and GBI certified, reflecting his commitment to sustainable engineering practices.



Dr Keegan Chee

Keagan is the founding partner of NING Research and served the firm as the senior consultant. He is a Professional Simulation Engineer registered with NAFEMS UK and The Japan Society of Mechanical Engineers. He is also a UK Chartered Engineer and a Certified Data Center Professional. Keagan is a member of the Industry Advisory Board of the Engineering Faculty at the National University of Singapore. He graduated with a B.Eng in Civil Engineering (First Class) from University College London and a Ph.D in Mechanical Engineering from Nanyang Technological University.



Mr Koh Ken Weng

Bryan Koh is a seasoned expert in HVAC and integrated energy systems with over 30 years of industry experience. Renowned for technical excellence, innovative system design, and practical problem-solving, he has led diverse projects with lasting impact. A sought-after speaker, Bryan has presented at leading platforms in Malaysia, including IEM, ACEM, CIDB, MACRA, and SIRIM, while also sharing insights internationally in the United States, China, Mexico, and Southeast Asia. As a three-term President of MACRA in the early 2000s, he advanced industry standards and helped resolve critical humidity control challenges in hospitals and government facilities. His forward-thinking approach and ability to simplify complex engineering concepts continue to inspire professionals and drive energy-efficient solutions worldwide.



Ir. Julian Saw

Julian holds a Bachelor of Engineering (Hons) in Mechanical Engineering and is a Registered Professional Engineer (PEPC). He is certified as a GreenRE Accredited Professional (GreenRE AP) and GBIF. With extensive expertise in sustainable building practices and mechanical engineering, Julian leads technical initiatives at Green Quarter, focusing on energy-efficient solutions and green certification standards.



Mr Phang Khai Siang

Phang Khai Siang is a Sales Director based in Malaysia with over a decade of experience in the HVAC industry, beginning in 2011. He holds a Bachelor's Degree in Mechanical Engineering (Honours) and brings a strong technical foundation, particularly in research and development of cassette unit systems, energy performance contracting (EPC), and building automation solutions. Throughout his career, he has consistently bridged engineering excellence with commercial leadership, enabling the delivery of energy-efficient, value-driven HVAC solutions across diverse applications. His professional focus has recently expanded into the Data Center sector, where he specializes in addressing critical cooling challenges associated with high-power AI infrastructure, including advanced solutions such as cold plate liquid cooling.



Ir Phang Chen Faut

Registered Professional Engineer (BEM), ASEAN Engineers Registered, APEC & IPE Registers Engineer, Fellow of IEM, TIA-942 Accredited Data Center Designer, CxS, REM 1 & 2, HRDF Accredited Trainer. Ir. Phang brings extensive expertise in the design and technical delivery of Air Conditioning & Mechanical Ventilation (ACMV) systems, with proven solutions for hospitals, data centers, high-rise buildings, and shopping centers. He is highly experienced in project management, energy management, and leading multi-disciplinary teams on complex projects under strict deadlines. Commercially astute, he has demonstrated consistent business success in the construction industry since 2000, combining technical excellence with practical, energy-efficient engineering solutions.

SPONSORSHIP BOOKING FORM

PHYSICAL I-DAY SYMPOSIUM ON DATA CENTER FOR ENGINEERS

Date: 20th June 2026 (Saturday) Time: 8:30am - 5:00pm

Venue: Auditorium A, 2nd Floor, SEGI University, Kota Damansara, Petaling Jaya.

Organised by :

Mechanical Engineering Technical Division (METD),

The Institution of Engineers, Malaysia

No. 60/62, Jalan 52/4, P.O. Box 223 (Jalan Sultan),

46720 Petaling Jaya, Selangor

Tel No.: 03-79684001/2 Fax No. 03-79577678

Email: roselein@iem.org.my Website: www.iem.org.my

We would like to invite your esteemed organization to support this initiative by coming on board as a sponsor. Your sponsorship will contribute significantly to the success of the seminar while offering your organization prominent visibility and engagement with our professional audience.

Sponsorship benefits may include:

- Acknowledgement during opening and closing sessions
- Complimentary passes to attend the seminar
- Option to display promotional materials at the venue

Chairman, **Mechanical Engineering Technical Division (METD)**, We would like to place **booths** for the physical event of the **Physical 1-day Symposium on "Data Center For Engineers"** as indicated below and attach herewith a cheque no. for the sum of RM made payable to "THE INSTITUTION OF ENGINEERS, MALAYSIA" being our booking fees:

Tick (/)	Package	Rates (add 8% SST to the rates)	Complimentary
	2 Booths (2 Tables + 4 Chairs)	RM 2,000.00	4 seats + Complimentary Buffet Lunch
	1 Booth (1 Table + 2 Chairs)	RM 1,200.00	2 seats + Complimentary Buffet Lunch

**For special packages (other than above), kindly contact the secretariat.*

PAYMENT INFORMATION:

Account Name : THE INSTITUTION OF ENGINEERS, MALAYSIA

Account Number : 232-303-911-0

Bank Name : UNITED OVERSEAS BANK (UOB)

Bank Address : NO 2-6, JALAN TENGAH, 46200 PETALING JAYA, SELANGOR

Swift Code : UOVBMK1025

Email Address for Receiving Remittance Advise : finance@iem.org.my / roselein@iem.org.my

Contact Person: _____ Designation: _____

Name of Organization: _____

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