

Organised by: Building Services Technical Division
in Collaboration with BAC Malaysia



Physical Half-Day Seminar on Optimising Heat Rejection for Energy-Efficient and Sustainable Data Centre Cooling



DATE:

**31 Oct 2026
(Saturday)**



TIME:

**9:00AM
-
1:00PM**



VENUE:

**AUDITORIUM MALAKOFF
WISMA IEM**

CPD HOURS : 4.0

CPD REF NO.: IEM26/HQ/408/S

REGISTRATION FEES (subject to 8% SST)

	Online Fees (via IEM Portal)	Normal Fees - (HRDF Claimable) (By Email : Quotation & Invoice)
IEM MEMBER	50.00	150.00
NON IEM MEMBER	80.00	170.00

Call Us For More Information:



Tel: 603-7890 0133



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SYNOPSIS

This half-day seminar explores the critical role of heat rejection in achieving efficient, reliable, and sustainable cooling systems, with a particular focus on data centres and other high-performance facilities. The programme begins with an introduction to BAC and its cooling technologies, followed by an overview of heat rejection principles and their applications across data centres, comfort cooling, semiconductor facilities, district cooling plants, and power generation.

The seminar then moves into the integration of heat rejection within data centre cooling systems, examining how cooling-system selection and performance can influence both peak and annualised Power Usage Effectiveness (PUE) and Water Usage Effectiveness (WUE). Participants will gain insights into practical approaches for evaluating cooling performance, improving energy and water efficiency, and developing optimised solutions for mission-critical environments.

Drawing on extensive industry and engineering experience, the speakers will share technical perspectives on cooling tower design, application management, performance evaluation, dynamic cooling simulations, air and liquid cooling, and sustainability considerations. The session will conclude with an interactive Q&A, providing participants with an opportunity to discuss challenges and applications relevant to their projects. It is designed to support engineers, consultants, facility professionals, and practitioners seeking knowledge for future-ready cooling system design and operation.

SEMINAR PROGRAM

TIME	PROGRAMME
8.30 am - 9.00 am	Registration & Welcome Drink
9.00 am - 9.10 am	Introduction by Committee
9.10 am - 10.10 am	Intro of BAC and technology products by Tan Yong Jin
10.10 am - 10.30 am	Intro of heat rejection for various applications by TS Lim
10.30 am - 10.45 am	Tea Break
10.45 am - 12.45 pm	Integration of heat rejection in data center cooling system for peak and annualised PUE and WUE by Ir. Pua Ching Tian
12.45 pm - 1.15 pm	Q & Session
1.15 pm	Lunch & End Programme

FOR FURTHER DETAILS, PLEASE CONTACT:

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Tel: 603-7890 0134 E-mail: suriani@iem.org.my Website: www.myiem.org.my

SPEAKERS



Speaker Name: Tan Yong Jin

With over 15 years of experience in the HVAC, thermal management, and critical infrastructure industry, Yong Jin has gained broad exposure across the Asia Pacific region. His experience spans product engineering, product development, application engineering, product management, data center cooling, and heat rejection solutions, bringing together technical, product, and market perspectives. He works closely with customers, consultants, sales, and application teams to translate evolving market needs into product strategies and solutions. He currently serves as Product Marketing Manager at BAC Asia.

Speaker Name: TS Lim

With 18 years of experience in the cooling tower industry, TS Lim has been directly and indirectly involved in numerous projects across Asia and the Middle East, focusing on design and application management. His past responsibilities include cooling tower design, performance evaluation, and on-site testing. His expertise in evaporative cooling spans multiple sectors, including data centers, comfort cooling, semiconductors, district cooling plants, power generation, and many more. He currently serves as the Regional Application Manager for BAC Asia and is actively engaged in ASHRAE, where he is the current President-Elect of ASHRAE Malaysia for the 2026/27 term.



Speaker name: Ir. Pua Ching Tian

A seasoned mechanical engineer, Ir Pua Ching Tian brings over 30 years of extensive experience in MEP consulting engineering, design, and build across a wide range of high-performance projects. His portfolio spans data centers, healthcare facilities, pharmaceutical plants, warehouses, and commercial developments, with expertise covering MEP systems, energy efficiency strategies, CFD analysis, and advanced customization through Python coding. His deep technical knowledge enables him to deliver optimized, future-ready engineering solutions tailored to complex project requirements.

In addition to his industry experience, Pua Ching Tian is an HRD-accredited trainer specializing in dynamic cooling systems. His capabilities include dynamic hourly cooling simulations for PUE/WUE optimization, Python API development for data center cooling systems, and advanced air and liquid cooling simulations for mission-critical environments such as healthcare and data centers. He is also well-versed in sustainability frameworks, contributing to projects aligned with GreenMark and GBI certification standards, reinforcing his commitment to energy-efficient and environmentally responsible engineering practices.

REGISTRATION FORM

Physical Half-Day Seminar on Optimising Heat Rejection for Energy-Efficient and Sustainable Data Centre Cooling

31 October 2026 (Saturday)

Closing Date: 23 October 2026

Email: suriani@iem.org.my

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NAME	MEMBERSHIP NO.	NRIC	FEES (RM)
Sub Total:			
SST Added 8% :			
Total Amount Payable :			

Organisation :

Contact Person :

Handphone No:

Position:

Billing Address:

.....

Company Registration No : **Tax Identification (TIN no) :**

Contact Details: Office No:

Email Address:

Date Submitted :