

PHYSICAL TECHNICAL SEMINAR

ADVANCED & SUSTAINABLE COOLING TECHNOLOGIES FOR DATA CENTRES

Innovative Cooling Solutions for High-Performance, Energy-Efficient and Sustainable Data Centres

DATE
20 Oct 2026
(Tuesday)

TIME
9.00 am - 4.00 pm

VENUE
Sheraton Imperial Kuala Lumpur Hotel

SPEAKERS
Speaker 1: Mr. Michael Anderson
Speaker 2: Mr. Dustan Atkinson
Speaker 3: Ir. Aaron Chai Kao Khy
Speaker 4: Mr. Gregers Reimann

SCAN QR

TECHNICAL SEMINAR DESCRIPTION

This half-day course provides a foundational understanding of data center heat rejection, with a focus on evaporative and dry equipment. The course builds from basic principles through equipment types and into system-level concepts, helping participants develop a practical understanding of how heat rejection systems function in mission-critical environments.

Participants will gain insight into dry, adiabatic, and evaporative heat rejection technologies, along with key components, operating principles, and tradeoffs between water use, energy consumption, and system reliability.

Recommended Experience Level
This course is designed for engineers, owners, operators, integrators and other data center personnel seeking introductory-level knowledge of heat rejection technologies and systems.

Register Now

Free Admission !

In Collaboration
Urban Engineering Development Special Interest Group (UEDSIG), IEM
& SPX Cooling Technologies Malaysia Sdn. Bhd

LEARNING OBJECTIVES

- Explain basic heat transfer principles and cooling theory
- Understand the properties of air and water relevant to heat rejection
- Identify and compare common technologies used in data centers
- Distinguish between key tower configurations
- Recognize major equipment components and describe their purpose
- Understand water quality fundamentals, including cycles of concentration
- Evaluate water vs. energy tradeoffs across cooling technologies
- Identify key operational risks, including scaling, corrosion, and winter operation
- Understand the role and value of Cooling Technology Institute (CTI) standards
- Build a foundational understanding of how heat rejection equipment integrates into system-level design

TECHNICAL SEMINAR PROGRAM

TIME	DESCRIPTION
8:30 AM – 9:00 AM	Registration & Light Refreshments
9:00 AM – 9:10 AM	Welcome Speech By IEM Representative & SPX Technologies
9:10 AM – 9:30 AM	Invited Speaker 1
9:30 AM – 10:30 AM	Topic 1: Cooling Fundamentals & Technologies • Basic Properties of Air & Water • Introduction to Dry Coolers • Introduction to Adiabatic Cooling • Comparison of Dry, Adiabatic & Evaporative Cooling
10:30 AM– 11:00 AM	Tea Break
11:00 AM – 12:00 PM	Topic 2: Evaporative Cooling Technologies • Introduction to Evaporative Fluid Coolers • Introduction to Evaporative Cooling Towers • Water Quality & Cycles of Concentration • Fill Materials & Heat Transfer
12:00 PM – 12:50 PM	Invited Speaker 2
12:50 PM – 1:00 PM	Q&A
1.00 pm - 2.00 pm	Buffet Lunch
2:00 PM – 3:00 PM	Topic 3: Cooling Tower Components, Operation & System Optimization • Cooling Tower Components & Structural Materials • Motors, Fans & Gear Drives • CTI Training / Certification • Comprehensive System Design & Application
3:00 PM – 3:30 PM	Q&A / Wrap-up
3:30 PM – 4:00 PM	Final Tea Break