Organised By :
Mechanical Engineering Technical Division, IEM

PHYSICAL TALK ON WATER MIST FIRE PROTECTION SYSTEM IN DATA CENTRE

BEM Approved CPD Hours : 2
Ref No. : Applying

FREE ENTRY

LIMITED TO 100 PAX ONLY

TALK DETAILS

Date
23rd August 2025, (Saturday)

Time
9.00am - 11.00am

Venue
Chin Fung Kee Auditorium, 3rd Flr, Wisma IEM, PJ

Speaker

Ms Dong Xiao Xiao

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Synposis

This technical talk offers an in-depth comparison between water mist fire protection systems and traditional fire protection methods, such as sprinkler and gas-based systems. The analysis will encompass both technical and commercial aspects, aiming to provide participants with a holistic understanding of the key differences and performance characteristics.

On the technical side, the seminar will explore system components, activation mechanisms, extinguishing efficiency, water consumption, space requirements, safety considerations, and compatibility with different risk categories. From a commercial perspective, factors such as initial installation cost, maintenance demands, lifecycle cost, regulatory compliance, and insurance implications will be addressed.

The comparison will be approached in a multidimensional and comprehensive manner, taking into account not only theoretical performance but also practical deployment and operational results.

To complement the comparative analysis, two real-world case studies will be presented. These case studies will delve into the specific design processes of water mist systems implemented in distinct environments, highlighting design criteria, system layout, integration challenges, and post-installation performance outcomes. Together, these examples will provide attendees with concrete insights into how water mist systems are engineered and applied in practice.

Speaker's Biodata

Ms Dong Xiao Xiao is a Chinese Registered Fire Engineer with a Master of Engineering in Safety Science and Engineering. She specializes in fire protection solutions, particularly for underground infrastructure and the energy industry. With almost ten years of experience, she has led numerous turnkey projects and developed expertise in water mist fire suppression technology and international fire protection standards. Her recent research focuses on full-scale fire testing of battery buses/vehicles with various fire suppression systems.