

**INSTITUTION OF FIRE ENGINEERS,
SINGAPORE (IFES) COURSE 2025**

Seminar for Water Mist Systems - Regulatory Framework and application with specific emphasis on Data Center

Seminar Information

Modern water systems are now employed in a wide variety of environments, including commercial and residential buildings, industrial facilities, marine, and transportation infrastructure. Technology’s versatility allows it to address a diverse array of fire risks, including new and emerging hazards. Many of the applications are traditionally protected with sprinkler or gaseous systems. With new fire risks and challenges in the new world, industry is accustomed to carrying out fire tests, enabling quick responses to new or evolving risks. Water mist systems are well-known in typical applications with performance-based fire safety design methods. Recent advancements have addressed fire safety issues related to cross-laminated timber (CLT) structures, tunnel protection, lithium-ion battery applications, power generation, aircraft hangers, data centers, various industrial risks, and complex steel and glass structures. Water mist systems have been getting more common in mitigating these new risks and demonstrating their abilities.

This seminar will discuss the adoption of first principles or fire safety engineering approach from the identification of fire scenarios, its effects and risks, the designs of water mist system and effectiveness proven by fire simulations and tests.

Target Audience

Fire Safety Engineers, Professional Engineers, Registered Architects, Fire Investigators, Fire Safety Managers, Safety Officers, Suppliers of Fire Products, Building Owners, Developers, Building Contractors, Facility Management and Maintenance Personnel, Authority Having Jurisdiction, etc.

Program

Time	Topic
15:00 – 15:30	Registration
15:30– 16:00	Regulatory Frameworks of water mist systems: from fire scenarios, acceptance criteria to mitigations – Er. Yeo Swee Khiank
16:00-16:45	High-pressure Water Mist System for Data Centre – Mr. Zen Lim
16:45-17:30	Deploying Low Pressure Water Mist in the Dynamic and Fast-Growing Data Centre Industry: An Outlook from Liquid Cooling to Li-ion Batteries- Mr. Riccardo Cerati
17:30-18:00	Ansys Fluent: Fire Simulations, Fire Suppression Strategy and Battery Energy Storage Systems (BESS) – Dr. Oak Yannapol S
18:00-18:30	Panel Discussion and Q&A
19:00-21:00	IFES Members’ Night

Date and Time

10 October 2025 (Friday), 3.00pm to 6:30pm

Venue

Furama City Centre
60 Eu Tong Sen Street, Singapore, 059804
Ballroom 2, Level 5

Fees

- a. **Members:**
\$50
- b. **Non-members:**
\$100
\$200 (inclusive of dinner)
- c. **IFES Members' Night is complimentary to all members, regardless of seminar registration**

All fees are inclusive of coffee breaks (for seminars only). GST is not applicable.

Continuing Professional Development

- a. Qualified CPE hrs by SCDF to FSE –
0.5hrs
- b. Qualified CPD points by SCDF to FSM –
2
- c. Qualified PDU points by PEB – TBA

Speaker's Profile

Er. Ho Victor (Moderator) is a Council Member of IFES, P.Eng, RI(Eng), Reg FSE. He is also a Director of HiLT Pte Ltd, a fire engineering consultancy practice. He has been actively involved in fire safety consultancy for the past 30 years. He is a member author of the inaugural Singapore Fire Engineering Guidelines 2015 and also sits in the review committee of the Master Fire Code 2023 and the SCDF Standing Committee. He recently completed his term in the working group for the Code of Practice Fire Precaution for Road Tunnels and the adoption of UL9540A for the testing standard for thermal runaway in battery systems. He has also completed numerous projects using water mist in road tunnels, cable tunnels, data centers, and various hazard groups.

Er. Yee Poh Kin (Co-Moderator) is a Fellow Member of IFES, current Vice President of IFES, QP (M&E), RI (M&E), FSE, IFE, IFE representative in SCDF Fire Safety Standing Committee and Fire Code Review committee. Convenor of Working Group on Specification for fire shutters (SS 489: 2015), Members of the Working Group on Specification for Fire Damper (SS 333: 2012) and Code of practice for use and maintenance of

portable fire extinguishers (SS 578: 2012) on for fire shutters (SS 489: 2015), Specification for Fire Damper (SS 333: 2012) and Code of practice for use and maintenance of portable fire extinguishers (SS 578: 2012)

Er. Yeo Swee Khiank (Speaker) is a Council Member of IFES, P.Eng, Reg FSE. He is also a Deputy Director of SP PowerGrid Ltd. He is a member author of the inaugural Singapore Fire Engineering Guidelines 2015, sits in the committee of the Code of Practice for Fire Precautions in Rapid Transit Systems Review Committee, and Works Group on Main Failure Standby Generating Systems (SS 535:2018).

Riccardo Cerati (Speaker) serves as the Sales Director for EMEA and oversees the Data Center vertical market at VID FIREKILL. With more than 10 years of expertise in fire protection and water mist technologies, he has spent more than 5 years specializing in fire protection systems within the Data Center sector, including edge, colocation, and hyperscale sites. Riccardo possesses a broad understanding of various fire suppression methods and strategies, such as sprinklers, gas suppression, and water mist, along with the integration between extinguishing systems and fire detection. His passion for fire protection drives his strong belief that water mist is the optimal solution for the future.

Zen Lim (Speaker) is a Business Development Manager in Hydrocore Pte Ltd with over a decade of experience in fire alarm engineering and product certification sales. With a strong technical foundation and deep industry insight, Zen specializes in high-pressure water mist systems—a cutting-edge fire protection technology gaining traction across critical infrastructure sectors. He has played a key role in the successful delivery of numerous large-scale projects, including SPPG substations and cable tunnels. Zen is known for his ability to bridge engineering expertise with client-focused solutions, helping stakeholders implement effective and compliant fire safety strategies. His pragmatic approach and in-depth knowledge make him a valuable voice in discussions around advanced fire suppression technologies.

Dr. Oak Yannapol S (Speaker) is a CAE Program Manager at CAD-IT Consultants, supporting ANSYS Fluent in Singapore. With over a decade of experience in CFD and digital twin, he and his team have delivered consulting projects across sectors including electronics, building systems, and advanced manufacturing. His current focus is on fire and thermal simulations involving fire suppression strategies and BESS, including smoke control, thermal runaway mitigation, and performance-based design using CFD.

REGISTRATION INFORMATION

Closing Date

Registration closes on **6th Oct 2025** or seats fully sold out whichever is earlier.

Online Registration

(Immediate seat confirmation!)

Water Mist Seminar

Scan QR Code or click on the link to **register and pay** below



Click on Registration Link below :

<https://allevents.in/singapore/seminar-for-water-mist-systems-tickets/80002280761973?ref=smdl>

IFES Members' Night only

Scan QR Code or click on the link to **register** below



Click on Registration Link below :

<https://forms.gle/6BCetjLQ9rRUDwr58>

Registration Notes:

1. We accept registration via the above registration link ONLY.
2. Please ensure you have completed the correct details on the registration page above and proceed to pay via the modes of payment stated here.
3. **IFES does not issue invoice however we will issue e-receipts upon receipt of payment. Please refer to the payment modes for payment.**

Disclaimer & Refund Policy

1. IFES reserves the right to postpone or cancel the course due to unforeseen circumstances.
2. No refund of course fees for cancellation. Replacements are allowed **before** the closing of the registration date line stated in this Brochure. No replacements **after** the closing of the registration date.
3. IFES may disclose personal information about individuals, for any of the purposes and in accordance with the PDPA, to any of our agents and service providers.

CONTACT INFORMATION

Any enquiries are to be sent to our official email below:

Ms Karine Lim
 9669 3176 (HP) or 63389274 (Mon to Fri 9am to 5pm)
 Email: admin2@ife.org.sg

Ms Dian Hayatu'llah
 8128 0771 (HP) or 63389274 (Mon to Fri 9am to 5pm)
 Email: admin@ife.org.sg

Payment Mode

Method 1 (PAY BY PAYNOW CORPORATE TO UEN)

UEN no	:	S75SS0037D
Entity Name	:	Institution of Fire Engineers, Singapore
Transfer Details	:	Please indicate clearly your Name, Membership no (if any) and payment purpose.
Confirmation slip	:	Please print screen/ screen shot confirmation slip and send to admin@ife.org.sg For us to provide e-receipt to you, transfer details and confirmation slip must be completed as per above instructions.

Method 2 (PAY BY BANK TRANSFER)

Account Name	:	Institution of Fire Engineers, Singapore
Name of bank	:	United Overseas Bank
Account Number	:	314-304-819-3
Bank Code	:	7375
Branch Code	:	007
Swift Code	:	Uovbsgsg
Comments for Recipient	:	Please indicate clearly your Name, Membership no (if any) and payment purpose.
Confirmation slip	:	Please print screen/ screen shot confirmation slip and send to admin@ife.org.sg For us to provide e-receipt to you, comments and confirmation slip must be completed as per above instructions.