



**WEBINAR - HALF DAY SEMINAR ON
“BUILDING ELECTRIFICATION AND
CHILLER HEAT RECOVERY”
AND
“CHILLER PLANT OPTIMIZATION WITH AI
AND MACHINE LEARNING”**

SPEAKERS;
Dr. ZHAO XIJING
Mr. WOON TECK KEE

Date : 08TH MARCH 2022 (Wednesday)
Time : 2.00 P.M. – 6.15 P.M.
Platform : VIRTUAL Seminar via ‘GoToWebinar Platform’

BEM Approved CPD/PDP Hours: 4.0
IEM22/HQ/035/S(w)

Closing Date: 03RD MARCH 2022

NO online registration will be allowed after the Closing Date

Organized & Hosted by:
Building Services Technical Division (BSTD), IEM

In Collaboration with Daikin Applied (Malaysia) Sdn. Bhd.

Cancellation Policy

No cancellation will be accepted prior to the date of the event. However, replacement or substitute may be made at any time with 7 days prior notification and substitute will be charged according to membership status.

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“IEM reserves the right to alter or cancel the programme due to unforeseen circumstances at its discretion”

SPEAKER 1



DR. ZHAO XIJING

Dr. Zhao Xijing is working with Daikin Asia applied product, system solution team as a senior manager. She has more than 15 years experience HVAC system application and energy solution. After graduated from National University of Singapore with a Ph.D degree in Mechanical Engineering, she worked with Trane Air Conditioning, Johnson Control, and Singapore BCA Green Mark in areas of product solution, chiller plant energy strategy, and Green Mark assessment & verification before joining Daikin. She is Singapore Certified Energy Manager, Green Mark Facility Professional, and LEED AP BD+C.

SYNOPSIS

Climate change is global crisis which need to be addressed immediately. Governments around the world have set up carbon neutral goals and put more focus on electrical grid decarbonization. Building electrification coupled with a renewable or carbon-free source of electricity is considered to be decarbonized in building operation. Building heating requirement which is satisfied by fossil fuel heaters conventionally needs to be replaced by heat recovery or heat pump air conditioner. This seminar will discuss how the heat could be reclaimed from air-cooled and water cooled chillers and how heat recovery and heat pump chiller performance could be improved greatly. The applications and solution considerations of HR and HP chillers will also be covered.

SPEAKER 2



MR. WOO TECK KEE

Mr. Woon Teck Kee is working as Senior Manager with Daikin Applied (Malaysia) Sdn Bhd, Service Department Solution Team and he has more than 15 years experience in HVAC industry. After graduated from National Taiwan university with Mechanical degree, he has worked as Mechanical engineer for consultant firm, Project Manager for HVAC contractor involved in District Cooling Plant installation, Branch Office Manager for Energy Audit and Energy Performance Retrofit Projects. He is qualified Green Building Index (GBI) facilitator, and he has involved GBI certification for KL118 project. Currently he is leading DAPM in chiller plant optimization and energy performance retrofit projects

SYNOPSIS

Chiller Management System (CMS) is common for chiller plant rooms. Advanced CMS with optimization to optimize the chiller plant equipment operation to achieve energy saving become high expectation and demand from end users and operators.

CMS with AI and machine-learning will be new plant optimization and control software to provide a comprehensive, reliable, and dynamic solution. Optimization is not achieved by using a single algorithm designed to ensure the best efficiency but is rather a continuous process articulated through different level of smart software with AI and machine-learning function to ensure best chiller plant efficiency and operation

PROGRAMME

| TIME | TOPICS |
|-----------------------|--|
| 2.00 p.m. – 2.05 p.m. | Seminar Start Welcoming & Introduction |
| 2.05 p.m. – 3.50 p.m. | Session 1 Building Electrification and Chiller Heat Recovery <i>Speaker: Dr. Zhao XiJing, Ph.D Mechanical Eng.</i> |
| 3.50 p.m. – 4.00 p.m. | <i>Virtual Break Time</i> |
| 4.00 p.m. – 5.45 p.m. | Session 2 Chiller Plant Optimization with AI and Machine Learning <i>Speaker: Mr. Woon Teck Kee</i> |
| 5.45 p.m. – 6.15 p.m. | Questions & Answers Session (0.5 hour) End of Seminar |

{PLEASE LOG IN WITH THE LINK PROVIDED BEFORE 2.00 P.A.M. ON THE DAY OF EVENT}

For further details, kindly contact:

The Institution of Engineers, Malaysia
Bangunan Ingenieur, Lots 60/62, Jalan 52/4, P.O. Box 223 (Jalan Sultan),
46720 Petaling Jaya, Selangor

Tel: 603-7968 4001/2 Fax : 603-7957 7678 Email : shahrul@iem.org.my / parimala@iem.org.my

REGISTRATION FORM

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Tel: 603-7968 4001/2 Fax: 03-7957 7678

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| | ONLINE Fee | NORMAL Fee |
|------------------|------------|------------|
| Student Member | RM 40.00 | RM50.00 |
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| Corporate Member | RM 125.00 | RM 150.00 |
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(SHOULD PAYMENT IS MADE, KINDLY EMAIL THE 'BANK-IN-SLIP' TO IEM FOR VERIFICATION BEFORE THE EVENT FOR EASY REGISTRATION)

FULL PAYMENT must be settled before commencement of the seminar, otherwise participants will not be allowed to enter the hall. If a place is reserved and the intended participant fails to attend the course, the fee is to be settled in full. If the participant failed to attend the course, the fee paid is non- refundable.

For **ONLINE REGISTRATIONS**, please note that **PAYMENT MUST be made BEFORE the CLOSING DATE**. If payment is not received within the stipulated time, the registration fee will be reverted to the normal registration fee.

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- Payment via CASH / CHEQUE / BANK-IN TRANSMISSION / BANK DRAFT / MONEY ORDER / POSTAL ORDER / LO / WALK -IN will be considered as NORMAL REGISTRATION
- The Organising Committee reserves the right to cancel, alter, or change the program due to unforeseen circumstances. Every effort will be made to inform the registered participants of any changes. In view of the limited places available, intending participants are advised to send their registrations as early as possible so as to avoid disappointment.