

# TECHNICAL SEMINAR

## Advanced Course - Energy Modelling



**Date: 15<sup>th</sup> & 16<sup>th</sup> January 2019**

**Time: 9.00am – 5.00pm**

**Venue: Wisma REHDA, Kelana Jaya**

Please **TAKE NOTE**: All participants need to bring their own laptop (**4GB RAM and 2 Core Processor**). Do let us know if you do not have any laptop as we will provide it for you. GreenRE will provide the **software download link** one week before the course with **30 days' free validity!**

Energy modelling and airflow programs are the main tools for designing energy efficient and healthy buildings. These simulation programs are the tools used in new building and retrofit design, code compliance, green certification, qualification for tax credits and utility incentives, real-time building control, calculate most of the parameters needed to evaluate thermal comfort and indoor air quality. In addition, lower energy consumption in buildings can significantly reduce the emission of CO<sub>2</sub> because buildings use around 50% of the total energy consumption in developed countries (Harris & Eliot, 1997, DOE 2004).

The **objectives**:

1. To introduce the basics and concept of building energy modelling.
2. To explain on the GreenRE Energy Modelling Methodology and Requirements.
3. To learn the underlying concepts, modelling inputs and analysis methods of building components such as envelope, lighting, occupants, equipment, process loads, HVAC and service hot water systems.
4. Hands-on for energy modelling Trial Version will be downloaded to each laptop.
5. To model building performance using energy simulation software.
6. To use measured building energy data to calibrate simulation model.

### Keynote Speaker



Originated from Hong Kong and have lived in Penang, Malaysia for the past ten years. Jimmy has more than 10 years of experience in the building simulation analysis. He was working for a UK consultant, Hoare Lea, for about 4 years. This allow him to gain experience in both M&E design and building performance analysis. After that Jimmy joined IES Ltd, which he had a chance to further develop his interest and enthusiasm in sustainable building design in the Asia region. His role involved in promoting simulation techniques and knowledge sharing to the construction industry. Jimmy is currently a freelance consultant providing building sustainability advice for client. He believes with the help of user friendly simulation tools for both architects and engineers will help integrate passive and active design for better overall building performance. Jimmy holds a BEng in Architectural Environmental Engineering from the University of Nottingham. He is currently working towards a Professional Engineer qualification.

**HRDF claimable  
CPD from GreenRE**

**Who should attend?  
Immediate level**

- Engineers, Architects, Planners, Surveyors
- Sustainable & Environmental Managers, Green Building Consultants
- Developers, Project Managers, Building Owners involved in green building projects

# REGISTRATION FORM

Salutation & Full Name: \_\_\_\_\_  
Company Name: \_\_\_\_\_  
Designation: \_\_\_\_\_  
Office/HP No.: \_\_\_\_\_  
Email Address: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_  
Membership No.: \_\_\_\_\_  
(GREM/REHDA)

Salutation & Full Name: \_\_\_\_\_  
Company Name: \_\_\_\_\_  
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Office/HP No.: \_\_\_\_\_  
Email Address: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_  
Membership No.: \_\_\_\_\_  
(GREM/REHDA)

## PAYMENT INFORMATION

Early Bird (before 4<sup>th</sup> January 2019):  
RM1058.95

Normal Price:  
RM1164.95

*\*HRDF  
claimable  
\*CPD from  
GreenRE*

Bank drafts of cheque should be crossed and made payable to “**IEM Training Centre Sdn Bhd**”. The cheque/cash can be deposited to IEM Training Centre’s Maybank account no. **514169143176** & please email the bank in slip to [iemtc@iem.org.my](mailto:iemtc@iem.org.my). Submit your registration form to [iemtc@iem.org.my](mailto:iemtc@iem.org.my).

### Notes:

1. Upon confirmation of registration and payment, the e-confirmation will be sent to your email.
2. Cancellation will occur no fee but replacement is compulsory.

The organizer reserves the right to change the content, venue and date or cancel the event if insufficient minimum target number of participants are met