REGISTRATION FORM:
ONE DAY SEMINAR ON 'THE NEXT GENERATION OF DC SWITCHING, SOURCES-CHANGEOVER AND ENERGY MONITORING"

Name(s)	Membership No. / Grade	Fees (RM)
	Sub Total:	
	6% GST Added:	
	Total Amount Payable:	

Company:_____

Address:_____

_____

_____

Mobile:_____ Tel(O):_____Fax:_____

E-mail:_____
(Please write clearly as the "Information Update will be sent via email)

Contact Person: _____ Designation: _____

Signature: _____ Date:_____

PAYMENT DETAILS

☐ Cash RM_____

☐ Cheque no. _____ for the amount of RM _____
(non-refundable) and made payable to "**THE INSTITUTION OF ENGINEERS, MALAYSIA**" and crossed '**A/C Payee Only".**

Terms & Conditions:

- For ONLINE REGISTRATIONS, only ONLINE PAYMENT is applicable [via RHB and Maybank2u –Personal Saving & Personal Current ; Credit Card - Visa/Master.
- Payment via CASH / CHEQUE / BANK-IN TRANSMISSION / BANK DRAFT / MONEY ORDER / POSTAL ORDER / LO / WALK -IN will be considered as NORMAL REGISTRATION
- **FULL PAYMENT** must be settled before commencement of the course, otherwise participants will not be allowed to enter the hall. If a place is reserved and the intended participants fail 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. Registration fee includes lecture notes, refreshment.
- The Organizing 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.

ONE DAY SEMINAR ON "THE NEXT GENERATION OF DC SWITCHING, SOURCES-CHANGEOVER AND ENERGY MONITORING"

SPEAKER:
Mr WILSON ONG

Date	:	**26TH JULY 2017 (Wednesday)**
Time	:	**8.30 a.m. – 5.30 p.m.**
Venue	:	**ARMADA HOTEL, Petaling Jaya, Selangor Darul Ehsan**

Organised and hosted by
Building Services Technical Division,
The Institution of Engineers, Malaysia

In Collaboration with
Socomec Asia Pacific Pte Ltd & Control Handling (M) Sdn Bhd

REGISTRATION FEES (SUBJECT TO 6% GST)

Grade	Online Fee	Normal Fee
Student Member	RM 80.00	RM 120.00
Graduate Member	RM 120.00	RM 150.00
Corporate Member	RM 180.00	RM 220.00
Non IEM Member	RM 220.00	RM 250.00

6% GST IS IMPLEMENTED EFFECTIVE FROM 1ST APRIL 2015

Closing Date: 24TH JULY 2017

BEM Approved CPD/PDP Hours: 7.0 Hours
Ref. No.: IEM17/HQ/229/S

Cancellation Policy
IEM reserves the right to postpone, reschedule, allocate or cancel the course. Full refund less 30% if cancellation is received in writing more than 7 days before start date of the event. No cancellation will be accepted prior to the date of the event. However, replacement or substitute maybe made at any time with prior notification and substitute will be charged according to membership status.

Personal Data Protection Act
I have read and understood the IEM's Personal Data Protection Notice published on IEM's website at http://www.myiem.org.my and I agree to IEM's use and processing of my personal data as set out in the said notice.

SPEAKER

MR WILSON ONG

Mr Wilson Ong graduated from the National University of Singapore with Honours Degree in Bachelor of Electrical Engineering in 1993. He also completed Graduate Diploma in Marketing Management from Singapore Institute of Management. Wilson is currently the regional Specification Manager for Socomec Asia Pacific focus on Power Control and Safety and Energy Efficiency solutions. He was a member of the SPRING technical committee of CP5 (Electrical Installation) and SS555 (Protection Against Lightning) in Singapore. He has conducted numerous seminars including, IES and ACES in Singapore, IEM in Malaysia, IIEE in Philippines on topics related to Load Break Switch, Automatic Transfer Switching Equipment and Metering solutions in South East Asia. Wilson has been working in the electrical industries for 24 years and he started his career in one of biggest consultancy government link company in Singapore. His experience includes project management and consultancy specialises in Healthcare and Institutions.

Wilson also spent 18 years with a MNC listed in CAC 40 Paris prior to joining Socomec. Over the years, he has gained strong sales and product marketing experience from medium voltage to extra low voltage, channel sales management, business development for multi market segments. In addition, his supply chain experience further complements his colourful career.

Session 1 : The Next Generation of DC Switching for PV Installation

Malaysia is set to benefit from the growing usage of solar power worldwide and the PV industry is expected to grow between 12-20% over the next 5 years. Given the growing demand for PV, the PV technology will continue to evolve and trend is towards 1500VDC for higher efficiency and cost advantages. With higher DC voltages, designers are more concern than before about the safety and robustness of a PV installation.

This topic seeks to explain to the audience the typical architecture of PV installation, applicable standards and types of PV switching, characteristics and operational performance of PV switch under 1500VDC, low current, extreme temperature and environmental conditions to achieve a safe and reliable PV installation.

Session 2 : The Standard and Trends of Automatic Transfer Switching

The awareness of the standards on transfer switching remains very low despite it last amended in 2005. Conformance with the standards ensures safety and reliability of the system and this gives peace of mind to the users of electricity. Also, the trend of automatic transfer switching is changing due to better understanding on the importance on reliability, availability, maintainability and safety of the electrical system. It is very important for consultants to update the specification and single-line drawings to reflect this trend and to fully meet their clients' requirements.

This topic seeks to explain on the standard applicable to transfer switching, the requirements and testing required by the standard. The trends of automatic transfer switching designed by consultants in South East Asia. The benefits of PC over CB type of automatic transfer switching in terms of Reliability, Availability, Maintainability and Safety performance of the emergency power system.

Session 3 : Advanced Measurements

When we deploy multi-function meters, how do we interpret some of the advanced measurements on the meter and how does that impact the energy efficiency of our installations?
This topic seeks to explain to the audience the technical background of advanced measurements such as Cos Phi, Total Harmonic Distortion, Voltage unbalance, K-Factor, so that the discussion of making better informed decisions on critical equipment may take place.

Session 4 : Distributed Generation and its Impact on Power Quality

An increasing number of critical installations are now highly dependent on the incoming power quality. Certain power quality issues, sometimes lasting only in brief moments, may cause major damage to sensitive equipment. Additionally, with more renewable energy sources being put into the grid, understanding its impact on power quality is gaining importance.

This topic seeks to offer a basic understanding of the role of the distributed generation model in the context of renewable energy. Also a priority, is keeping the audience informed about potential impacts to power quality when considering the evolution path of utilities of the future.

PROGRAMME :

Time	Programme
08.30 – 8.55	***Registration and Welcome Coffee / Tea***
09.00 – 09.05	Welcome Address
09.05 – 10.30	**Session 1 :** **The Next Generations of DC Switching for PV Installation**
10.30 – 10.45	*Morning Tea Break*
10.45 – 12.00	**Session 2 :** **The Standard and Trends of Automatic Transfer Switching**
12.00 – 13.25	*Lunch*
13.30 – 15.00	**Session 3 :** **Advancement Measurements**
15.00 – 15.15	*Afternoon Tea Break*
15.15 – 16.45	**Session 4 :** **Distributed Generations and its Impact on Power Quality**
16.45 – 17.30	**Q & A Session and Discussion** **End of Seminar**

FOR FURTHER DETAILS, PLEASE CONTACT:

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