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REGISTRATION FORM

Innovation Day: Green, Sustainable & Future Ready Power System Design & Implementation - IOT and Industry 4.0

Date : 26th September 2019 (Thursday)

(Closing Date: 24th September 2019)

No	Name(s)	M'ship No.	Grade	Fee (RM)*
SUB TOTAL				
ADD GST @6%				
Total Payable				

***Fees MUST be fully paid BEFORE the CLOSING DATE. Seats could only be confirmed upon payment.**

Enclosed herewith a crossed cheque No: _____ for the sum of RM _____ issued in favour of "The Institution of Engineers, Malaysia" and crossed 'A/C payee only'. I/We understand that the fee is not refundable if I/We withdraw after my/our application is accepted by the Organising Committee as stated in the **cancellation term**. If I/We fail to attend the seminar, the paid registration fee will not be refunded.

Contact Person: _____ Designation: _____

Name of Organization: _____

Address: _____

Telephone No.: _____ (O) _____ (Fax)

_____ (H) _____ (HP)

Email: _____

Signature & Stamp

Date

Photocopies are acceptable

CANCELLATION POLICY

IEM reserves the right to postpone, reschedule, allocate or cancel the course. Full refund 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 may be made at any time with prior notification and substitute will be charged according to membership status.



26TH SEPTEMBER 2019

Innovation Day: Green, Sustainable & Future Ready Power System Design & Implementation - IOT and Industry 4.0

Organized by

Electrical Engineering Technical Division,
The Institution of Engineers, Malaysia

in cooperation with

Schneider Electric Industries (M) Sdn. Bhd.

Date : 26th September 2019

Venue : Sheraton Hotel, Petaling Jaya, Selangor

Time : 8:30 am – 5:30 pm

Speaker : Mr. Jonathan Yau, Mr. Mark Hwang, Mr. Fatmi Rehan,
Mr. Todd Zhong, Mr. Indiran Nadarajan, Mr. CH'NG Eng
Yong, Mr. Mazliazhar & Mr. Ahmad Farhan

BEM Approved CPD/PDP hours: 6 Ref. No. IEM19/HQ/387/S

REGISTRATION FEES (SUBJECT TO 6% SST)

	ONLINE / NORMAL
IEM Member	RM 100.00
Non-IEM Member	RM 150.00

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.

SYNOPSIS

Convergence of IoT Technology in Building Management System

The demand in digital transformation has greatly increase within the years and for the upcoming years to go. Digitization demand no longer a “Want” but is it’s a “Need” to various organization and system. Transformation of Building Management System based on legacy technology to a new IoT platform Building Management System. Leveraging IT and OT in Building Management System on the architecture and what are the future will be like in Building Management System. Mainly address what’s the transformation of conventional Building Management System architecture to an IoT platform or an IoT ready platform. Addressing how the IoT platform Building Management System benefits the Operational organization and the Facility Management organization. Technology update in the building control & monitoring environment that’s coincide with Industry 4.0 framework.

How to You Evaluate MV Switchgear for Your Application?

Working with Medium Voltage [MV] Switchgear is froth with potential hazards due to the high levels of energy involved in medium voltage operation. Latest developments, however, have greatly reduced these hazards and the electrical industry is constantly innovating to make MV Switchgear safer and more reliable. However, the propensity to make a wrong choice of switchgear also goes up as the industry provides a myriad of technologies with complex set of specifications that can be critical to your application. This lecture intends to expound on the various features MV Switchgear or Controlgear and equip the audience with a deeper understanding of technical specifications to which all MV Switchgear and Controlgear should comply. The speaker will build the foundation of the participants by reinforcing the basics of MV Switchgear before elaborating the importance of compliance to latest IEC standards and associated Type Test requirements which should be met in order to ensure safe equipment design.

The Path to Electrical Substation Equipment Monitoring

With the speed of digitization happening in the engineering world, existing facilities and infrastructure are quickly obsoleting and poses risk in keeping up with the energy demand. The complexity and sensitivity of loads today is putting most of the power distribution system into challenge in sustainability. Modernization of existing system is always not easy and often costly. This lecture will focus on how to effectively implement effective modernization to building’s assets by providing efficiency and health monitoring to drive building optimization and sustainability via predictive maintenance in a simple and cost-effective way. The lecture will also explain the criticality of such monitoring and benefit associated to it in driving digitization, sustainability and optimization of the building.

OT for Power Distribution and Why it Matters Greatly to your Facility

Power distribution system today is no longer as simple as it used to be. With the emergence of digitization, power distribution today is challenged to be more reliable, sustainable and effective. With more than 50 billion connected devices in the world today, it is highly critical that power infrastructure today to be IOT enabled. This lecture will explain design concept and solution for digitizing your distribution system and how it will benefit your facility in driving safe, optimized and sustainable operation. As part of the course, will also touch based on predictive maintenance through interacting with connected devices

IoT: Drive performance with the next generation in Power and Energy Management

Business today thatruns on electrical power is constantly exposed to unique challenges: unpredictable power supply, unplanned outages, complex emissions regulations and volatile energy prices. You need to balance the needs of power-sensitive processes that require high levels of power availability and reliability without raising operational costs solutions that exceed conventional power management, unite your enterprise and meet all these goals simultaneously. We can help you maximise power system availability while optimising energy and operational efficiency. This lecture will elaborate the conceptual design and implementation on how to design for energy efficient system for your building and how to address power quality issues by take full advantage of

IoT connectivity and distributed intelligence in maximizing your uptime and operational efficiency.

Designing EV Charger for Your Green Building

This presentation introduces the basic requirement to choose, select and design the suitable EV charger for different type of location. Selection of products compatible with backend system and requirement is crucial to ensure safety and practicality of EV charger for various type of EV and PHEV car in the market. This presentation will explore best practices for EV installation requirements and aims to provide a better understanding to audience regarding different types of EV charger and safety needed for better and safe installations.

Secure Power and Cooling for Critical Applications: Rethinking the Resiliency of Edge Computing Sites

One of the main trends that is gaining recognition from IT stakeholders is Edge Computing or the need for computing at distributed sites, where a part or all their business operations take place. Cloud adoption is driving more and more enterprises to a hybrid data center environments of cloud-based and on-premise data centers (the edge). Although what’s left on-premise may be shrinking in physical size, the equipment remaining is even more critical. Assessing the criticality of edge sites should reveal which sites are in greater need of availability improvement. Schneider’s experience with edge computing environment assessments reveals a list of practical actions that improve the availability of IT operations by improving the physical infrastructure systems supporting the IT. This presentation provides specific availability improvements broken down into key systems including power, cooling, physical security, environment, and management.

ABOUT THE SPEAKER

Mr. Johnathan Yau graduated as Bachelor of Mechatronics Engineering (Hons) in Monash University. Mr. Johnathan Yau has more than 15 years of experience in the field of Building Management System. His field of expertise include design and implement Building Management System under his belt. His field of expertise include designing and implementing Building Management system and Energy Efficiency System for building segment. He also the preferred advisory for consultancy to end user and provide training to consultant regarding Building Management System and Energy Efficiency System.

Mr. Mark Hwang Graduated from University of Bradford UK with bachelor’s degree in Electrical& Electronic Engineering (Hons). Mr Mark has more than 9 years of experiences in process automation system ranging from design to commissioning scope of process automation system. Mr. Mark also Mark’s role in Schneider Electric as a pre-sale includes both Modicon ePAC as well as Altivar drive. One the success story in Schneider Electric successful converting a F&B plant that was using Siemens into M580 ePAC with total of 42 Scaine’s weighing module and around 200 ATV930 drives.

Mr. Fatmi Rehan started his career as an engineer with Siemens in 1991 after completing bachelors in electrical and electronics engineering (BSEE) from California. He later acquired Masters in Business Administration (MBA) from University of Nottingham, UK. Over the span of next 16 years he assumed various leadership positions in both technical and commercial aspect, in the fields of electrical engineering, industrial automation, systems integration and project management. For the past 8 years, he has been involved in strategy formulation and implementation, business development, technical and marketing of LV and MV equipment. He has worked with multicultural teams in Pakistan, Germany, Saudi Arabia, Vietnam and Malaysia where he provided innovative electrical and automation solutions to the industrial sectors of mining, cement, steel, marine, oil and gas and, electrical utilities. Currently he is working with Schneider Electric Malaysia where he provides strategic direction to the Energy Business Unit and is actively involved in bringing innovative MV power distribution products to market.

Mr. Todd Zhong is an offer expert specializing in electrical distribution and data center service. He earned his master's degree in electrical engineering from Jiaotong University, Shanghai, China and MBA degree from University of Notre Dame in U.S. He previously worked in Alcatel Lucent for 15 years in different business roles as business strategy and development, product/offer marketing and project management. He joined Schneider Electric in 2011 and then is dedicated in developing the service biz in APAC countries. He owns vast knowledge of MV/LV preventive/predictive maintenance, obsolete equipment modernization, power audit and digital assets connection etc.

Mr. Indiran Nadarajan Graduated from Universiti Tenaga Nasional (UNITEN) with Bachelor's Degree in Electrical Power Engineering (Hons) and Master's Degree in Engineering Management, Mr Indiran has more than 9 years of experiences in low voltage distribution system. His expertise will range up from design to commissioning scope of electrical distribution system. Mr. Indiran responsibility in Schneider is mainly focus on low voltage switchgear (Blokset) localization which require his involvement with panel builder from design stage up to manufacturing and testing of the switchgear. He is also actively supporting consultants on low voltage electrical installation design which includes technical clarification, product selection, on site installation support and conduct trainings regularly on Schneider products & software. Mr. Indiran also constantly support consultant/panel builder on the Ecodial software simulation. Ecodial is a Schneider tool for design, calculate and sizing the equipment's for electrical installation which includes power demand and short circuit calculation.

Mr. CH'NG Eng Yong, CEng has extensive 11 years of experience in application of energy efficiency solutions in diverse industries involving energy/power quality audits and sustainability studies and solutions implementation with measurement and verification. Graduated in BEng (Hons) Electrical n Electronic Engineering, from University of Nottingham in year 2006. He has also worked with solar photovoltaic systems for 5 years where his expertise covers consultation on concept design, feasibilities studies and master planning to the coordination and project management. He is also a registered Electrical Energy Manager with Suruhanjaya Tenaga, Vice President and one of the founding members of Association of Energy Engineers, Malaysian Chapter, ISO 50001 Lead Auditor with TUV Rheinland, an ISPQ Grid Connected PV installer and trainer of Electrical Energy Management workshop by Schneider Electric.

Mr. Mazliazhar graduated from University Technology Mara with a Bachelor Degree (Hons) in Electrical Power Engineering. He has more than 8 years of experience, with his expertise in sales, marketing and design application for final distribution system. Mr. Mazliazhar currently works as a Senior Product Marketing Engineer for the Home and Distribution division focused in final distribution. His role and responsibility instill in him a lot of technical knowledge of the product as well as design and application. With his association with compliance standards together with SIRIM, Mr. Mazliazhar is an expert in governing standards for miniature circuit breaker, residual current circuit breaker and surge protective devices. With the expertise on final distribution, he is leveraging his experience on the Electric Vehicle charging products as this new segment demands arise day by day due to the Green Building requirements.

Ahmad Farhan joined Schneider Electric in 2010, as a Field Service Engineer in the IT Division (ITD) of Schneider Electric. This role has allowed him to gain a wealth of on-site experience in the data center infrastructure implementation and requirements. Later, he took the role of Facilities Engineer for one of Schneider Electric's global strategic accounts maintaining and upgrading the data centre's critical equipments which include the UPS, CRACs, electrical distribution system, GENSET, fire suppression systems, VESDA, water detection systems and DCIM. Next, he joined the Engineering Department of the IT Division with his current role as a Senior Solution Engineer that is responsible in the design stage of the data centre physical infrastructure that meets

the customer's requirements and adheres to data centre best practices in terms of efficiency and availability. In this current position, he has experience in the detailed design of turnkey data centre based on best practices and cost-efficient solutions. He is a certified Accredited Tier Designer by the Uptime Institute. Mr. Ahmad Farhan graduated from university of New South Wales with Bachelor of Electrical Engineering in Year 2009.

Tentative Programme	
08:30 – 09:00	Registration (Light Breakfast provided) & Interactive Hand-On
09:00 – 09:10	Opening Remarks <i>by IEM</i>
09:10 – 09:20	Opening Remarks <i>by Ms. Astri Ramayanti, Country President, Malaysia and Brunei, Schneider Electric</i>
09:20 – 10:20	Convergence of IoT Technology in Building Management System by Johnathan Yau
10:20 – 10:40	Coffee Break & Interactive Hand-On
10:40 – 11:10	Drive - Process, Machine and Building by Mr. Mark Hwang
11:10 – 11:40	IOT for Power Distribution and why it matters greatly to your facility by Mr. Indiran
11:40 – 12:00	Q&A session
12:00 – 13:00	Lunch & Interactive Hand-On
13:00 – 14:00	Managing Critical Asset in Your Building by Mr. Rehan
14:00 – 14:40	Asset Connect by Todd Zhong
14:40 – 15:00	Q&A session
15:00 – 15:20	Coffee Break & Interactive Hand-On
15:20 – 16:20	IoT: Drive performance with the next generation in Power and Energy Management: maximize efficiency and reliability <i>by CH'NG Eng Yong</i>
16:20 – 16:50	Designing EV Charger for Your Green Building by Mr. Mazli
16:50 – 17:20	Secure Power in Critical Applications by Mr. Ahmad Farhan
17:20 – 17:40	Q&A session
17:40	Section ends

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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**.
- 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.
- Fee paid is not 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.

