



THE INSTITUTION OF ENGINEERS, MALAYSIA

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Talk on “Industrie 4.0 - Digitalization in Process Industry”

Organised by: The Electrical Engineering Technical Division, IEM
BEM Approved CPD/PDP Hours: 2 Ref No: IEM16/HQ/034/T

Date : 12th March 2016 (Saturday)
Time : 11.00am – 1.00pm
Venue : C & S & TUS Lecture Hall, 2nd Floor, Wisma IEM
Speaker : Ir. Johnson Tan, P.Eng, MIEM, CEng, MInstMC

SYNOPSIS

Since the first Industrial Revolution in the late 1700s, where mechanical production equipment were driven by steam and water power, the industrial sector has been constantly evolving. The second industrial revolution and the third industrial revolution heralded the birth of Programmable Logic Controllers (PLC) systems in automating process plants in 1969. With the dawn of the new millennium, there is an ever increasing need for information or data transparencies to the plant these days; many manufacturers and vendors are promoting 'Big Data', Internet of Things (IoT), Cloud Services. However, a new industrial revolution is on the horizon – known as Industrie 4.0 in Germany, or the fourth Industrial Revolution is other parts of the world, a holistic change towards the approach of process automation has been put forward; especially in the area of communication, process optimization, virtualization, securities as well as system wide integration.



BIODATA OF SPEAKER



Ir. Johnson Tan, aged 42, a Malaysian, is currently the Vice President of Process Automation Business Unit; Siemens Malaysia Sdn Bhd. He graduated with multi discipline in engineering; from Electronics & Electrical Engineering, Electronics Engineering, as well as Electronics & Control Engineering. Upon graduation in 1997, he joined a local system integration company; Energy & Process Control Sdn. Bhd., a control and instrumentation company as a Project Engineer responsible for DCS / SCADA programming as well

as project engineering typically in Water Treatment plant for a period of 6 years, till finally departing as System Sales Manager. Following suit, Ir. Johnson Tan has joined Siemens Malaysia Sdn Bhd as Assistant Sales Manager to take up new responsibilities in Sales and Business Development, where over time, he is now the Vice President for Process Automation Business Unit in the company. Ir. Johnson Tan is a professional engineer registered with the Board of Engineers Malaysia, Institute Engineers of Malaysia under the discipline of Instrumentation & Controls, certified Chartered Engineer conferred from the Engineering Council, U.K as well as member of the Institute of Measurement & Control, U.K. He has more than 19 years of working experience in the field of automation systems; involving Distributed Control Systems (DCS) programming, Supervisory Control and Data Acquisition (SCADA) system programming, Programmable Logic Controllers (PLC) programming, system training, project engineering, project management, site commission works.

Other roles and responsibilities include technical marketing, business development including profit and loss management; team management and development.

Ir. Yau Chau Fong
Chairman, Electrical Engineering Technical Division, IEM

ANNOUNCEMENTS TO NOTE:

- Preferential admission to talk shall be accorded to IEM members (**pre-registration and online registration are NOT required**).
- **Non members** may also attend the talk but will need to pay a registration fee of **RM50** and an administrative fee of **RM15**. GST is inclusive.
- Members of affiliated organisations upon producing their membership cards will be exempted from paying registration fee. Administrative fee is nevertheless applicable.
- Limited seats are available on a "first come first served" basis (maximum 100 participants).
- IEM members are reminded to produce membership cards for confirmation of attendance (CPD purpose) failing which a fee of RM25 will be imposed. GST inclusive.

ADMINISTRATIVE FEE

- Kindly be informed that an administrative fee of **RM15** is payable for talks organized by IEM. GST is inclusive.
- The fee would be used to cover overhead costs, building maintenance expenses as well as contribute to Wisma IEM Building Fund.
- All contributions will be deeply appreciated by IEM.
- Student Members are however exempted.

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