

## Talk On "Industry 4.0 – How SCADA Engineers Have an Advantage" A Challenge for the Best of the Best Malaysian Engineers...

Organised by: Consulting Engineering Special Interest Group, IEM

BEM Approved CPD/PDP Hours: 2

Ref No: IEM18/HQ/075/T

**Date** : 31<sup>st</sup> March 2018 (Saturday)  
**Time** : 11.00 am – 1.00 pm (*Refreshments will be served at 10.30 am*)  
**Venue** : C&S and TUS Lecture Room, 2<sup>nd</sup> Floor, Wisma IEM  
**Speaker** : Ir. S. Vignaeswaran, PEPC (Malaysia) RPEQ (Australia)

### SYNOPSIS

There has been so much hype about Industry 4.0 in Malaysia without understanding what it is and how it can be beneficial to engineers as a whole. The definition of Industry 4.0 has to be examined in detail within the Malaysian context, to establish **what is and what is not**. Currently, Industry 4.0 is being confined to smart factories, fully automated factories etc; however, it will become very much evident that, it is much, much more than this. This talk will address all the salient issues and factors that the German endeavor does not explicitly highlight. Industry 4.0 will be championed as a new way of approaching older automation systems with an emphasis on the synergy of technologies.

All "perceived islanded" technologies such as block chain, data analytics, artificial intelligence, advanced automation, robotics etc are expected to merge under the Industry 4.0 banner in a seamless manner in most product and service production activities, currently ongoing in the Malaysian industrial landscape. As such, an insight will be given on how all of the said technologies can be combined to produce an automation system that makes possibilities and features not imagined before. A classic example of such a merging of technologies currently ongoing are, the driverless cars, drone, smart phones, fuzzy logic washing machine etc.

The talk will explain in detail why Industry 4.0 does not threaten current employment but only serves to enrich the Malaysian engineer's working environment. It will also explore the basis of the need for Industry 4.0 to take place in Malaysia for technological progress to take root. The appropriate application of Industry 4.0 will be part of the presentation and the relevant justification provided, in the course of the above discussions.

### BIODATA OF SPEAKER



A specialist in Electrical and Organizational Information automation systems, Ir. S. Vignaeswaran has established his career in the design and implementation aspects of Distributed Control Systems (DCS), Supervisory Control and Data Acquisition Systems (SCADA), Substation Control System (SCS) and has published international papers on them. The publication reflects a wide area of the utility industrial sector and has leveraged on his electrical, instrumentation and industrial control expertise. His interest in SCADA systems and subsequently project management, has led him to present an 'out of the box' project and information management paper to the Institution of Engineers, Australia, as part of his Australian chartered certification.

He has a wide area of experience in the Oil & Gas, Building Services, Utility, and Mining electrical engineering arena. He has worked overseas in a USD 3 billion dollar Saudi Arabian King Saud University project and has a high passion for cross-discipline applications, automation, advanced information systems and project management. With a formal education in Electrical Engineering from Monash University, Australia in 1989, Ir. S. Vignaeswaran has gone on to obtain his Masters of Science in Business Information Systems/ Information Technology from the University of Keele, United Kingdom. His MSc (BIS/IT) thesis in 2002 was based on the development of a Web-based SCADA system.

**Ir. Dr. Ng Kok Chiang**  
**Chairman 2017/2018**  
**Consulting Engineering Special Interest Group, IEM**

### ANNOUNCEMENT TO NOTE

#### FEES

**(Effective 1<sup>st</sup> October 2017)**

#### Members

Registration Fee : FOC  
 Administrative Fee :  
**Online** RM15  
**Walk In** RM20

#### Non-Members

Registration Fee : RM50  
 Administrative Fee : RM20

- Limited seats are available on a "first come first served" basis (maximum 100 participants).
- To secure your seat, kindly register online at [www.myiem.org.my](http://www.myiem.org.my)

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