

Talk on "Fourth Industrial Revolution: Latest Development and Use Cases"

Organised by the Consulting Engineering Special Interest Group, IEM

BEM Approved CPD/PDP Hours: 2 Ref No. IEM19/HQ/104/T

Date : **21st March 2019 (Thursday)**
Time : **5.30pm to 7.30pm** (Refreshments will be served at 5.00pm onwards)
Venue : **C&S & TUS Room, 2nd Floor, Wisma IEM**
Speaker : **Ir. Dr. Tan Chee Fai**

SYNOPSIS

The emerging technologies has changed the manufacturing environment in the fast pace. The emerging technologies, such as cloud computing, internet of things, wireless sensor network, big data and mobile internet are starting to be implemented into manufacturing industries and it is believed to be approaching. The advances of science and technology continuously support the development of industrialization all over the world. From a technological evolution perspective, there are four stages commonly identified for industrial revolution. The first three industrial revolutions took place in around two centuries, and are the result of, respectively: (1) the usage of wind, water and steam energy to power the machinery; (2) the introduction of electrical into manufacturing line for mass production; and (3) the use of automation technology for the manufacturing line. Due to the emergent of fourth industrial revolution, many worldwide governments have initiated different national plan towards new industry revolution. For example, Industry 4WRD (Malaysia), Advanced Manufacturing Partnership (United States), Industrie 4.0 (German), Industrie du futur (France), Industry 4.0 (United Kingdom), Made in China2025 (China), Robot Revolution Initiate (Japan), and Smart Industry (Netherlands). In this talk, the speaker will share the latest development of Fourth Industrial Revolution in different countries as well as related use cases.



Ir. Dr. Tan Chee Fai has more than 19 years of experience in the mechanical and manufacturing industry. He is actively involved in strategic and technical consultation as well as research, design and development of intelligent manufacturing systems. Currently, he is the Chief Technical Officer of Robolab Technology Sdn. Bhd. Ir. Dr. Tan is actively consulting and assists industry towards

Industry 4.0 especially in relation to Intelligent Manufacturing: Robotic Systems, Industrial Internet of Things (IIoT), Big Data Analytics and Artificial Intelligent. Fraunhofer IEM is the technical partner institution of Robolab Technology Sdn. Bhd. He has led various Industry, University and Malaysia Government as well as International Funded Projects. He was invited as Keynote Speaker in various important international engineering events such as World Intelligent Manufacturing Summit (WIMS) at Nanjing, China, World Robotic Conference at Beijing, Intelligent Manufacturing Seminar on Collaboration to Boost the Economic Development of Belt and Road Areas, Parallel Session of the 20th Annual Meeting of China Association for Science and Technology (CAST) and ICE-IEM Future Engineers Conference. He was the UNESCO Individual Specialist. Based on his contribution to the engineering community, Ir. Dr. Tan is the JCI Ten Outstanding Young Malaysian Award Honouree in 2014.

Ir. Vignaeswaran Shanmuganathan

Chairman

Consulting Engineering Special Interest Group, IEM

ANNOUNCEMENT TO NOTE

FEES FOR TALKS

Members

Registration Fee
Free of Charge - FOC

Administrative Fee

Online - RM15.00

Walk In - RM20.00

Non-Members

Registration Fee:

RM50.00

Administrative Fee:

RM20.00

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

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