

Talk on "Fourth Industrial Revolution: Intelligent Manufacturing Systems"

Organised by the Consulting Engineering Special Interest Group, IEM
BEM Approved CPD/PDP Hours: 2 Ref No. IEM19/HQ/105/T

Date : 3rd April 2019 (Wednesday)
Time : 5.30pm to 7.30pm (Refreshments will be served at 5.00pm onwards)
Venue : Auditorium Tan Sri Prof. Chin Fung Kee, 3rd Floor, Wisma IEM
Speaker : Ir. Dr. Tan Chee Fai

SYNOPSIS

The emerging technologies have 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 in 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 the 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 the fourth industrial revolution, many worldwide governments have initiated different national plan towards a new industrial 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 China 2015* (China), *Robot Revolution Initiate* (Japan), and *Smart Industry* (Netherlands). In this talk, the speaker will share the current Intelligent Manufacturing Systems towards the Fourth Industrial Revolution.



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

FEEES 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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