

Pre AGM Talk on "Technological Innovation - Engineer for Future"

Organised by the Engineering Education Technical Division, IEM

in collaboration with Engineers Australia Malaysia Chapter (EAMC), and Institute of Mechanical Engineers Malaysia Branch (IMechE)

BEM Approved CPD/PDP: 2

Ref: IEM19/HQ/317/T

Date : 03rd August 2019, Saturday

Time : 9.00 am – 11.00 am

Venue : Auditorium Tan Sri Prof. Chin Fung Kee, Third Floor, Wisma IEM, Petaling Jaya

Speaker : Ir. Assoc. Prof. Dr. Mohamed Thariq Bin Haji Hameed Sultan @ M.T.H. Sultan

SYNOPSIS

Technological innovation had been key of prosperity and growth for all nations in this world. The important driver in this innovation is engineering. Engineering disciplines is a combination many principles where it allows the user to create something where it is critical for industrial innovation.

As years past, more diversity of engineering field had been arising where more specialized knowledge and skills are required. Therefore, it makes the job required multi-disciplinary knowledge. The challenge now is to prepare the future engineer to meet this level as mentioned. In this technical talk, the speaker discusses on the restructure the current university education system, graduate attributes, promoting design skills, interdisciplinary competence and contextual competence and potential barriers to realize the vision of Engineer of 2020 so that the future engineer will be able to develop a broader set of competencies associated with the growth of science and technology.

SPEAKER BIODATA



M.T.H. Sultan was born in 1977 in a small town in Kuala Lumpur called Gombak. In 2011, he graduated from the Department of Mechanical Engineering, University of Sheffield United Kingdom as a Philosophy Doctorate. He began work in the Department of Aerospace Engineering, Faculty of Engineering, Universiti Putra Malaysia in 2011. Later in 2013, he was appointed as the Head of Aerospace Manufacturing Research Centre (AMRC) by Universiti Putra Malaysia. Being the Head of AMRC, M.T.H. Sultan published a series of paper which contributed significantly to the development of his field. During his tenure as the head of this center, he has secured an

International Consultancy from Aerospace Research Centre (ARC), Sudan. He was appointed as the International Lead Consultant for Experimental & Computational Analysis of Composite Structures. His consultation also covers the field of Structural Composite Materials, particularly in the sectors of Aerospace Engineering. His work was based on the development of processing techniques for affordable composite materials using fibre preforming technologies. M.T.H. Sultan was later appointed as the Head of Biocomposite Technology Laboratory (BIOCOMPOSITE) Institute of Tropical Forestry and Forest Products (INTROP), UPM in 2017. Being the Head of Biocomposite Technology Laboratory, he is also appointed as an Independent Scientific Advisor to Aerospace Malaysia Innovation Centre (AMIC) based in Cyberjaya, Selangor, Malaysia. For many years he headed the work on development, design and characterising impact damages on composite structures which has led him to published more than 158 journal articles and 6 books with Elsevier. M.T.H. Sultan was elected by the members of the Institution of Engineers Malaysia to become the Chairman of Engineering Education Technical Division (E2TD). The objective of his division includes defining and influencing the future education trends in areas of Continuing Professional Development (CPD) Programmes, Accreditation requirement, Global curricular at the Technical and Graduate level, professionalism among engineering lecturers and post graduate training of graduate engineers. He also advises the IEM on the need for financial support towards engineering education, research and development (R&D) and monitoring global development in the field of Engineering Education.

Ir. Dr. Shahrudin Muslimin
Deputy Chairman
Engineering Education Technical Division (Session 2018/2019)

ANNOUNCEMENT TO NOTE

FEES

(Effective 1st October 2017)

Members

Registration Fee : NO CHARGE
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

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