



The Institution of Engineers, Malaysia

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Talk on “Additive Manufacturing”

Organised by the Mechanical Engineering Technical Division, IEM
BEM Approved CPD/PDP Hours: 2 Ref No: IEM14/HQ/460/T

Date : 31 January 2015 (Saturday)
Time : 9.00 am – 11.00 am (Refreshments will be served at 8.30am)
Venue : Tan Sri Prof. Chin Fung Kee Auditorium, 3rd Floor, Wisma IEM, Petaling Jaya, Selangor
Speaker: Ir. Dr. Tan Chee Fai

SYNOPSIS

Additive manufacturing is a process of joining materials to make objects from 3D model data, usually layer upon layer, as opposed to subtractive manufacturing methodologies. An additive manufacturing process in which liquid photopolymer in vast is selectively cured by light polymerization such as stereolithography. In 2009, the 3D printing patents of fuse deposition modelling (FDM) has been expired. The expiration of the patent has thrived the open source printing movement and the initial rise of the home/ personal desktop 3D printer. Besides, the laser sintering additive technology patent also expired in February, 2014. The talk will introduce the additive manufacturing technology such as material jetting, binder jetting, material extrusion, etc. as well as the current trend of additive manufacturing.

BIODATA OF SPEAKER



Ir. Dr. Tan Chee Fai is a practising mechanical consultant, researcher and academician. He is graduated with Bachelor of Engineering (Mechanical) and M. Sc. (Manufacturing Systems Engineering) from Universiti Putra Malaysia (UPM), as well as PhD in Industrial Design Engineering from Eindhoven University of Technology (TU/e), the Netherlands.

He is a registered Professional Engineer (Mechanical) with Board of Engineers, Malaysia (2006) and a member of Institution of Engineers, Malaysia (2005). He actively involved in academic, publication, consultation as well as research, design and development activities. His field of expertise covers the aspects of mechanical engineering and industrial design engineering. He has vast experience in mechanical design of machinery, robotic, intelligent products and commercial vehicles. He has lead numbers of university and Malaysia Government funded projects as well as international funded projects. He has published more than 100 publications in international and local journals and conference proceedings that related to mechanical engineering. He is a qualified HRDF trainer and HRDF Recognition Prior Learning (RPL) Assessor.

ANNOUNCEMENTS TO NOTE:

- Preferential admission to talk shall be accorded to IEM members (pre-registration and online registration are NOT required). (telephone and/or fax reservation will NOT be entertained)
- **Non members** may also attend the talk but will be charged a registration fee of **RM50** and an administrative fee of **RM15**.
- For affiliate members, there will be no registration fee. However, they are requested to produce their membership card as proof of membership. For the list of affiliates, please refer www.myiem.org.my/content/memorandum_of_understanding-469.aspx.
- Limited seats are available on a "first come first served" basis (maximum 110 participants).
- IEM members are required to produce your membership cards for confirmation of attendance (CPD purpose).
- Latecomers will not be allowed to enter if the lecture hall is full nor be entitled to CPD. **IEM members who fail to produce their membership cards will be charged a fee of RM25.00.**

FUNDS FOR IEM BUILDING FUND (WISMA IEM)

- Kindly be informed that IEM will be charging participants **RM15** as administrative fee for talks organized by IEM.
 - The fee would be used to cover overhead costs, building maintenance expenses as well as to support the purchase of the new building.
 - All contributions will be deeply appreciated by IEM
 - Students are however exempted.
- Your understanding is greatly appreciated.

CPD HOURS CONFIRMATION

Name:

Membership No:

Signature:

Ir. Fam Yew Hin
Chairman
Mechanical Engineering Technical Division, IEM