



# The Institution of Engineers, Malaysia

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## Talk on “Challenges in Machining of Composite Materials”

Organized by Engineering Education Technical Division, IEM  
BEM Approved CPD/PDP Hours: 2 Ref No: IEM14/HQ/256/T

Date : 28 August 2014 (Thursday)  
Time : 5.30 pm – 7.30 pm (Refreshments will be served at 5.00 pm)  
Venue : C&S and TUS Lecture Rooms, 2<sup>nd</sup> Floor  
Wisma IEM, Petaling Jaya  
Speaker: Ir. Dr. Mohd Khairol Anuar bin Mohd Ariffin

### SYNOPSIS

Composites which especially carbon fibre are being utilized at a greater extent due to its beneficial properties such as the strength to weight ratio. Carbon fibre is a material consisting of extremely thin fibres about 0.005-0.010 mm diameter and composed mostly of carbon atoms. The demand for the composite has increased in recent years due to application in aerospace and automotive industries. This demands required special manufacturing process as well as machining technique. The nature of composite consists of several materials lead to different cutting parameters needed for machining. Thus challenge machinist for machining such complex materials.

### BIODATA OF SPEAKER



Ir. Dr. Mohd Khairol Anuar Ariffin is currently an Associate Professor and Head of Department of Mechanical and Manufacturing, Universiti Putra Malaysia. He earned his B.Eng degree in Manufacturing System Engineering, Northumbria University, UK, M.Sc of Manufacturing Engineering, Universiti Putra Malaysia and Ph.D from University of Sheffield, UK. He obtained his Professional qualification in Industrial engineering in 2013. His research interests include System Optimisation, Advanced Manufacturing Technology, Automation and Robotics and CAD/CAM.

**Ir Assoc. Prof. Dr. Vinesh Thiruchelvam**  
Chairman  
Engineering Education Technical Division, IEM

### ANNOUNCEMENTS TO NOTE:

- Talk is for IEM members only (**pre-registration and online registration are NOT required**) (**telephone and/or fax reservation will NOT be entertained**)
  - Non members may also attend the talk and will be charged a registration fee of RM50 and an administrative fee of RM10.
  - 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](http://www.myiem.org.my/content/memorandum_of_understanding-469.aspx).
  - Limited seats 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 RM20.00.***

### FUNDS FOR IEM BUILDING FUND (WISMA IEM)

- Kindly be informed that IEM will be charging participants RM10.00 administrative fee for talks organized by IEM.
- The fee would be used for 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: .....