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**30th ANNUAL PROFESSOR CHIN FUNG KEE
 MEMORIAL LECTURE**

Educating Future Engineers: Challenges and Opportunities

17th October 2020

No.	Name	IEM M'ship No.	Fees
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Enclosed herewith is a cheque no.: _____ for the sum of RM _____ issued in favour of "**PROF CHIN FUNG KEE LECTURE FUND**". I/We understand that the fee is not refundable if I/we withdraw after my/our registration is accepted by the Committee but substitution of participants will be allowed. If I/we fail to attend the Lecture, the fee paid would not be refunded.

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**30th ANNUAL PROFESSOR CHIN FUNG KEE
 MEMORIAL LECTURE**

To be delivered by

Academician Tan Sri Dato' Ir. Prof Dr. Chuah Hean Teik

*President, ASEAN Academy of Engineering and Technology
 Past President, the Institution of Engineers Malaysia
 Immediate Past President, Universiti Tunku Abdul Rahman*

on the subject of

**Educating Future Engineers:
 Challenges and Opportunities**

Saturday, 17th October 2020 at 10.00 a.m.

(via Webinar)

Ir. Yau Chau Fong
 Organizing Chairman

Ir. Dr. Ting Wen Hui & Ir. Dr. Chan Sin Fatt
 Advisors

Jointly organized by:

***The Institution of Engineers, Malaysia
 and
 Engineering Graduates Alumni Association Universiti Malaya (2017)***

BEM Approved CPD/PDP Hours: 2 Ref. No: IEM20/HQ/126/L (w)

Synopsis of Lecture

In this talk, trends and challenges facing the world are discussed which include urbanization and inequality in wealth distribution, clean water, food distribution, energy, global warming and climate change, aging population and physical-space and cyber-space security. The new Digital Revolution or commonly known as 4th Industrial Revolution makes the industry, academia and society in anxiety as we are uncertain of the future of our jobs and what new disruptive technologies are coming. The speaker also gives USA and Malaysian examples of the challenges and limitation in STEM education. To tackle the challenges, we require new ideas and inventions which will only be possible with excellent knowledge workers. A brand new set of technology breakthrough will require different new skill sets, particularly on STEM skill sets, in the engineering workforce. Good engineering workforce (engineer, engineering technologist and engineering technician) is considered as the driver for the success of any nation in this globalized world. The talk will also touch on the challenges faced by future engineers vis-à-vis globalization and mobility of engineers; and what skills young engineering graduates should acquire to face the challenges. In the opinion of the speaker, what is important now is for the educators to train future graduates who can embrace life-long learning and professional skills with strong basic fundamentals of natural sciences and engineering and who are ready-to-evolve rather than graduates who are just ready-to-market as many of the graduates will be entering a whole new and unknown sea of employment. Values and ethics should also not be forgotten in educating future graduates. In particular the three IC's are advocated for our future graduates: Integrity & Competence, Integration & Communication, and Internationalisation & Cooperation.

C.V. of the Speaker

Dr. Chuah graduated with BEng, MEngSc and Ph.D from University of Malaya. He was with the Electrical Engineering Department, UM (1988-1997); a Senior Professor at Multimedia University (1997-2008), during which he was Vice President, Engineering Dean, and Research Director. He was the President of Universiti Tunku Abdul Rahman (2008-2019). He was President of the Institution of Engineers Malaysia (2009-2011) and the Federation of Engineering Institutions of Asia and the Pacific (2011-2015); current President of ASEAN Academy of Engineering and Technology.

His research interests include remote sensing and applied electromagnetics. He has authored/co-authored more than 260 papers in international journals and conferences. He received awards locally and internationally: 1993 and 1990 URSI Young Scientist Award at 23rd and 24th General Assembly of International Union of Radio Science in Japan and Czechoslovakia, respectively; 1995 National Young Scientist Award; 1999 Malaysia Toray Science and Technology Award; Senior Fellow, Academy of Sciences Malaysia; Honorary Fellow, the Institution of Engineers Malaysia; Honorary Doctor of Engineering by Multimedia University; Fellow, Institute of Electrical and Electronics Engineers, USA and the Institution of Engineering and Technology UK; 2017 Outstanding Engineering Achievement Award by ASEAN Federation of Engineering Organisations; Engineer of the Year 2019 by Federation of Engineering Institutions of Asia and the Pacific and recipient of 2019 WFEO Medal of Excellence in Engineering Education. Dr. Chuah was admitted into IEM Engineering Hall of Fame in 2019.

Registration Fee (Webinar)

Members, IEM	- FREE
Members, Engineering Graduates Alumni Association, Universiti Malaya	- FREE
Non-members	- RM 15.00

All cheques/bank drafts must be crossed and made payable to
“**PROF CHIN FUNG KEE LECTURE FUND**”.

IMPORTANT: All registration fees must be FULLY paid before commencement of the Lecture.

Registration Methods

Option 1 – Register via IEM Portal at

<https://www.myiem.org.my/events/eventregistration.aspx?id=14704>

Option 2 – Email your filled registration form to IEM Secretariat at sec@iem.org.my

Option 3 – Fax your filled registration form to IEM Secretariat at Fax No.: 03-7957 7678

Programme

Date	:	Saturday, 17 th October 2020
Time	:	10.00 a.m. - 11.45 a.m. – Lecture 11.45 a.m. - 12.00 p.m. – Q&A Session

REGISTRATION IS COMPULSORY

Limited to 500 participants only
(first come, first served basis)

The Zoom Webinar link will be emailed to the successful registrants
24 hours before the event.

Registration Deadline: 15th October 2020 (Thursday)