



The Institution of Engineers, Malaysia

Bangunan Ingenieur, Lots 60/62, Jalan 52/4, Peti Surat 223, 46720 Petaling Jaya, Selangor Darul Ehsan
Tel: 03-79684001/2 Fax: 03-79577678 E-mail: sec@iem.org.my IEM Homepage: <http://www.myiem.org.my>

Talk on Microalgae to Produce a Variety of Consumer Products- Is it a viable Alternative?

Organised by the Chemical Engineering Technical Division, IEM
BEM Approved CPD/PDP Hours: 2 Ref No: IEM16/HQ/007/T

Date: 22 February 2016, Monday
Time: 5.30 pm – 7.30 pm
Venue: C & S / TUS Room, 2nd Floor, Wisma IEM
Speaker: Dr Razif Harun

SYNOPSIS

Microalgae biotechnology has recently emerged into the lime light owing to numerous consumer products that can be harnessed from microalgae. Product portfolio stretches from straightforward biomass production for food and animal feed to valuable products extracted from microalgal biomass, including triglycerides which can be converted into biodiesel. For most of these applications, the production process is moderately economically-viable and the market is developing. Considering the enormous biodiversity of microalgae and recent developments in genetic and metabolic engineering, this group of organisms represents one of the most promising sources for new products and applications. With the development of detailed culture and screening techniques, microalgal biotechnology can meet the high demands of food, energy and pharmaceutical industries. This session discusses the technology, production platforms and challenges for development and creation of different valuable consumer products from microalgal biomass.

BIODATA OF SPEAKER



Dr Razif Harun is a Senior Lecturer at the Department of Chemical and Environmental Engineering, Universiti Putra Malaysia. He received his Bachelor Degree in Chemical Engineering in 2006 from Universiti Teknologi Malaysia and also Doctorate Degree (PhD) in 2011 from Monash University, Melbourne Australia. In the framework of his PhD work he worked on bioprocess engineering of microalgae for bioethanol production. After his PhD, he worked as a postdoctoral researcher in the Laboratoire de Biotechnologie de

l'Environnement in Narbonne, France for 2years on microalgal conversion technology related projects. He is currently developing a new technology to extract bioactive compounds from microalgal biomass for biofuel and pharmaceutical products. He has published more than 25 publications in international refereed journals, 10 publications in conference proceedings and 8 chapter in scientific books. He has granted research grants from different institutions e.g. Ministry of Higher Education (MOHE), Tenaga Nasional Berhad Research (TNBR) and Universiti Putra Malaysia.

Ir. Thayananthan Balakrishnan
Chairman
Chemical Engineering Technical Division, IEM

ANNOUNCEMENTS TO NOTE:

- Preferential admission to talk shall be accorded to IEM members (pre-registration and online registration are NOT required).
- Non members may also attend the talk but will need to pay a registration fee of RM50 and an administrative fee of RM15. GST is inclusive.
- Members of affiliated organisations upon producing their membership cards will be exempted from paying registration fee. Administrative fee is nevertheless applicable.
- Limited seats are available on a "first come first served" basis (maximum 100 participants).
- IEM members are reminded to produce membership cards for confirmation of attendance (CPD purpose) failing which a fee of RM25 will be imposed. GST inclusive.

ADMINISTRATIVE FEE

- Kindly be informed that an administrative fee of RM15 is payable for talks organized by IEM. GST is inclusive.
- The fee would be used to cover overhead costs, building maintenance expenses as well as contribute to Wisma IEM Building Fund.
- All contributions will be deeply appreciated by IEM.
- Student Members are however exempted.

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