



# THE INSTITUTION OF ENGINEERS, MALAYSIA

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## Talk on Green Energy Potential in the Palm Oil Industry

(in conjunction with the 26<sup>th</sup> Chemical Engineering Technical Division AGM)

Organised by Chemical Engineering Technical Division

BEM Approved CPD/ PDP Hours: 2 Ref. No.: IEM12/HQ/234/T

**Date:** 6 October 2012 (Saturday)  
**Time:** 9.00 a.m. – 11.00 a.m.  
(Refreshments will be served at 8.30 a.m.)  
**Venue:** C&S Lecture Room, 2<sup>nd</sup> Floor, Wisma IEM, PJ  
**Speaker:** Mr. Chow Boon Ping

### SYNOPSIS

The Palm Oil industry in Malaysia had attracted much negative publicity mostly from European NGOs on the issue of sustainability. As part of the measure to mitigate this issue, the Malaysian Government is encouraging the Palm Oil industry to reduce its carbon footprint.

Therefore all Mills in Malaysia are encouraged to convert the palm oil mill effluent into biogas by 2020. Conventional biogas technology had been around for more than 20 years but with the world's energy prices going higher and with the Malaysian Government's Feed-in-Tariff (FiT) program, there is a need to develop higher efficiency Biogas system.

Anaerobic Membrane Bioreactors is a fairly new development around the world and recently these anaerobic membrane bioreactors (An-MBR) had been used for the first time in the world for treating palm oil wastewater. As a result, more difficult processes such as thermophilic digestion with An-MBR system can become a reality and it had resulted in superior biogas yield. Through the latest technology, the green energy from the Mill can be harvested and potentially converted into other form of fuel.

### BIODATA OF SPEAKER



**Mr. B. P. Chow** is a Chemical Engineering graduate from the University of Birmingham. He is a Fellow of the Institution of Chemical Engineers (IChemE) as well as a Chartered Engineer. Presently he is the Deputy Chairman of IChemE Malaysia and the Managing Director of Aquakimia Sdn. Bhd. He had more than 34 years of working experience primarily in the Palm Oil, Water & Wastewater business. He had been instrumental in bringing the Kubota Membrane Bioreactor technology from Japan to use local engineering to adapt it for the Palm Oil Industry.

### ANNOUNCEMENTS

- Talk is STRICTLY for IEM members only (pre-registration is NOT required).
- Telephone and/or fax reservation will NOT be entertained.
- 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)

- Please be informed that IEM will be charging participants RM10.00 administrative fee for talks organized by IEM. Students are however exempted.
- 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. Your understanding is greatly appreciated.

### CPD HOURS CONFIRMATION

Name:

Membership No.:

Signature:

**Ir. Prof. Dr Thomas Choong Shean Yaw**  
Chairman  
Chemical Engineering Technical Division, IEM  
Session 2011/ 2012