



THE INSTITUTION OF ENGINEERS, MALAYSIA

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Talk On Integrated Waste Recovery and Regeneration System (REGEN System) in Palm Oil Mill

Organised by Chemical Engineering Technical Division
BEM Approved CPD/ PDP Hours: 2 Ref No: IEM14/HQ/441/C

Date : ~~8 December 2014 (Monday)~~ **POSTPONED to 12 December 2014 (Friday)**
Time : 5.30 p.m. – 7.30 p.m.
Venue : C & S/TUS Lecture Room, 2nd Floor, Wisma IEM, PJ
Speaker : **Dr Denny K. S. Ng**, The University of Nottingham, Malaysia Campus
Dr David L. K. Lim, Eureka Synergy Sdn. Bhd.

SYNOPSIS

As pointed out by National Biomass Strategy 2020, Malaysia had 83 million dry tonnes of palm-based biomass in 2012 with an estimated value of RM 24.9 billion. This is expected to increase to approximately 100 million dry tonnes by 2020. Besides, palm oil mill effluent (POME) is also expected to increase to 100 million tonnes by 2020. Based on the huge amount of palm-based biomass and POME available, there is a huge potential to recover and regenerate those biomasses into value-added products. To fully recover the biomasses, an integrated waste recovery and regeneration system (REGEN System) in palm oil mill is developed. In this talk, an overview of REGEN system is presented. Besides, applications of REGEN system in palm oil mill are also discussed.

BIODATA OF SPEAKERS

Dr. Denny K. S. Ng is the Founding Director of Centre of Sustainable Palm Oil Research and Associate Professor at the Department of Chemical and Environmental Engineering. His areas of specialisation include energy management, resource conservation via process integration techniques (pinch analysis and mathematical optimisation), synthesis and analysis of biomass processing and integrated biorefinery, as well as energy planning for greenhouse gas emission reduction. He has published more than 40 journal papers and has made more than 70 presentations at various international and national conferences. Dr Ng has also served on international scientific committee for several international conferences. In addition, he has established collaborations with well-known international researchers from the United States, the Philippines, Taiwan and other countries throughout his career and was recipient of the World Federation Scientists (Malaysia National Scholarship) award in 2007. Apart from focusing on research and development (R&D), Dr Ng has applied his R&D output in industrial consultation projects, both in resource conservation and integrated biorefinery.

Dr. David L. K. Lim is the Managing Director of Eureka Synergy Sdn. Bhd. Besides, he is also Executive Director of Havys Oil Mill Sdn. Bhd., Green Plant Organic Fertilizer Sdn. Bhd., etc. Dr. David Lim received his PhD in rotor-dynamic engineering from Staffordshire University, UK in 1994. He has more than 15 years of hand-on experience in palm oil industry including designing of palm oil mill, development of biomass processing technologies, etc.

ANNOUNCEMENTS

- Talk is **STRICTLY** 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 administrative fee of RM10.**
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- 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.

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