



THE INSTITUTION OF ENGINEERS, MALAYSIA

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Talk on Intermittently Decanted Extended Aeration (IDEA) Sewage Treatment System

organised by : Environmental Engineering Technical Division, IEM

BEM Approved CPD/PDP Hours: 2 Ref. No. IEM19/HQ/246/T

Date : 20th July 2019 (Saturday)
Time : 11.00am – 1.00pm (Refreshments will be served at 10.30am)
Venue : Auditorium Malakoff, Ground Floor, Wisma IEM,
Petaling Jaya
Speaker : Ir. Lee Thim Loy

SYNOPSIS

Intermittently Decanted Extended Aeration (IDEA) applies modifications to Extended Aeration Activated Sludge Sewage Treatment System. The IDEA treatment process consists of 3 phases: Aeration, settling and decanting.

Experience has shown that SBR processes suffer from very poor sludge settlement characteristics under design load condition (SVI's greater than 200). This is primarily due to the fact that for almost 50% of the time (settle and decant period) microorganisms are trying to grow in an oxygen limited environment, which is a known condition for promoting filamentous organisms (bulking sludge).

IDEA process has addressed the limitations of single tank processes by providing a demand aeration tank prior to the intermittent tank, and incorporating a recycle activated sludge (RAS) stream.

SPEAKER BIODATA

Ir. Lee Thim Loy is currently the Managing Director of Envitech Sdn Bhd. He has more than 40 years experience in the wastewater industry. Ir. Lee holds a Bachelor degree in Chemical Engineering from the National Taiwan University, Taipei in 1971 and a Master degree in Environmental Engineering from the Asian Institute of Technology, Bangkok in 1973. He is a member of the Institution of Engineers, Malaysia and a registered Professional Engineer with Practising Certificate from the Board of Engineers, Malaysia.

Ir. Lee's experience ranges from the design and construction of network pumping stations, oxidation ponds, aerated lagoon system, rotating biological contactor, oxidation ditch, extended aeration activated sludge system, and intermittently decanted extended aeration (IDEA) activated sludge treatment system for sewage treatment.

His portfolio includes involvement in the Sewerage Master Plan Studies for townships of Shah Alam, Seremban and Bintulu in Malaysia. His capabilities extend into the treatment of palm oil wastes besides related environmental consultancy for industrial effluent surveys, wastewater flow analyses and wastewater feasibility studies.

Ir. Lee's noteworthy experience includes as a Principal Investigator in the Palm Oil Waste Treatment Project in Malaysia and in Thailand, a project sponsored by the International Development Research Centre, Canada, and undertaken by the Asian Institute of Technology, Bangkok, in association with the Department of Environment, Ministry of Science, Technology and Environment, Malaysia from 1979 to 1981.

Ir. Choo Chee Ming
Chairman
Environmental Engineering Technical Division, IEM

FEE ANNOUNCEMENT
(Effective: 1st October 2017)

Members:

- (i) Registration Fee: No Charge
- (ii) Administrative Fee:
 - (a) Online RM15
 - (b) Walk-In RM20

Non-Members:

- (i) Registration Fee: RM50
- (ii) Administrative Fee: RM20

• Limited seats are available on a "first come first served" basis (maximum 100 participants).

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