

TALK ON “PYROLYSIS OF SOLID WASTE”

Organised by Environmental Engineering Technical Division, IEM

BEM Approved CPD/PDP Hours: Applying

Date : 30th November 2017 (Thursday)
Time : 5.30pm to 7.30pm (*Refreshments will be served*)
Venue : Auditorium Tan Sri Prof. Chin Fung Kee, 3rd Floor,
Wisma IEM, Petaling Jaya
Speaker : Dr. Hamzah Bin Darus

SYNOPSIS

Pyrolysis based solid waste disposal is a solution for final disposal of ever increasing solid waste produced by modern city. It requires no external energy and minimum supervision for its operation. It is a very efficient technology since it is quiet, clean and does not produce any leachate.

Original waste bulk is reduced to less than 5% by mass or 1% by volume. The thermal furnace cracks organic waste to char. The char will be burned off to form carbon dioxide and water. The final ash is inert inorganic materials. It is finally disposed off either as soil conditioner or sent to sanitary landfills. The very much reduced and dry residue requires smaller spaces for final disposal thus extending the lifespan of the landfill.

Pyrolysis plants can be small in size to cater for small communities such as a remote island resort which treats a minimum of 1 ton/day or large municipalities producing 5000 tons/day or more. The system is best deployed as a small unit but dispersed directly over a wide area of municipality.

The chemistry of cracking and treatment of carcinogenic gasses in a commercial pyrolysis plant will be presented for greater appreciation.

BIODATA

Dr. Hamzah Darus was a former professor at USM where he taught/ research/consulting in the areas of waste recovery system, separation science and precious metal chemistry. He spent more than 10 years as collaborator and visiting assistant professor at University of Wisconsin working on electro generative technology.

His interest in solid waste disposal system began with his involvement as a founding team member with MIGHT in spearheading /formulating the privatization of solid waste for Malaysia in 1985. He was appointed as lead consultant for northern Waste Industries Sdn Bhd in their designing the total solid waste management for northern state of Peninsular Malaysia. He was exposed to incineration technology while consulting for Hitachi Metals (Japan) and Wuntong Group (Shanxi, China)

The thermal garbage processor or pyrolysis technology attracted his attention when working with Jinke Group (Guangdong China).

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

ANNOUNCEMENT TO NOTE

Effective 1st October 2017

FEEES FOR TALKS

Members

Registration Fee
Free of Charge - FOC

Administrative Fee

Online - RM15.00

Walk In - RM20.00

Non-Members

Registration Fee:
RM50.00

Administrative Fee:
RM20.00

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

To secure your seat, kindly register online at www.myiem.org.my

PERSONAL DATA PROTECTION

ACT

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