

Pollutant Degradation, Energy Recovery and Emission Mitigation from Anaerobic Treatment



Speaker: Prof. Show Kuan-Yeow

Chair Professor, Endowed SP Setia Professor of Environmental Engineering & Green Technology

Chairperson, Centre for Environment and Green Technology

Head, Department of Environmental Engineering

University Tunku Abdul Rahman (UTAR), Malaysia.

Date:
14 Sept, 2012

Venue:
RRS 905, Sir Run Run
Shaw Building, Ho Sing
Hang Campus, Hong
Kong Baptist University

Time:
17:30-19:00

Prof. Kuan-Yeow Show is a pioneer researcher in Biogranulation Technologies for Biological Wastewater Treatment. Prior to joining UTAR in 2007, Prof. Show was a tenured faculty in Nanyang Technological University (NTU), Singapore. He was the Deputy Director of the National Environmental Agency-NTU Environmental Engineering Research Centre in 2004, and the Deputy Director of NTU LIEN Institute for the Environment in 2006. Prof. Show has received several professional awards, including the prestigious National Technology Award 2003, The Enterprise Challenge Innovator Award 2001, Prestigious Engineering Achievement Awards 2004, Singapore. Professor Show has published over 140 technical papers in refereed international journals and conferences, 75 research reports and secured an international patent on a biogranulation technology for wastewater treatment.

Abstract:

Application of anaerobic technology for wastewater treatment has evolved from the earliest septic tanks to complex treatment systems involving modern technologies. This technology has been proven to be an efficient treatment for many high strength industrial wastewaters. In spite of its proven significance, the process has not been as widely used as it might deserve in this region mainly due to misconceptions and a lack of fundamental understanding of the process. High process efficacy, energy saving, sludge reduction, generation of bioenergy and emissions reduction are five major intrinsic advantages of advanced anaerobic systems over the conventional aerobic and anaerobic processes. These advantages are evidenced by the fact that many full-scale facilities have been installed worldwide in the past two decades. It is now emerged as one of the most promising and favorable wastewater treatment technologies for renewable energy and clean development mechanisms (CDM) under the Kyoto Protocol. This lecture will introduce some fundamental knowledge, advancement in anaerobic technology highlighting misconceptions, perspective and applications. Development in global CDM projects and trend in world carbon trading are also outlined.

For advanced seat reservation, please send us your

(1) Name (2) School/Department/Organisation/Company

(3) Contact email and phone number to our email: arcpe@hkbu.edu.hk.

Certificate of Attendance will be provided after attending the seminar.

Should you have any questions, please contact us at 3411 2091 or arcpe@hkbu.edu.hk