



## THE INSTITUTION OF ENGINEERS, MALAYSIA

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### GOVERNANCE ON POLLUTION CONTROL TO IMPROVE THE WATER QUALITY OF RIVERS: THE MALAYSIAN CONTEXT

(Organised by the Water Resources Technical Division, IEM)

Date : **3 October 2013 (Thursday)**  
Time : **5.30 pm (Refreshment would be served at 5.00 pm)**  
Venue : **C&S/TUS Lecture Room, 2<sup>nd</sup> Floor, Wisma IEM, Petaling Jaya**  
Speakers : **Ir. Assoc. Prof. Dr. Zaki Zainudin**

**BEM Approved  
CPD Hours: 2  
IEM13/HQ/248/T**

#### SYNOPSIS

Of late, increasing environmental awareness has led to many government initiatives to rehabilitate surface water bodies in Malaysia. River rehabilitation requires a detailed methodological approach to ensure that set targets are achieved, in view of the substantial capital investment and sectoral effort. The rehabilitation strategy encompasses various components that usually include water quality improvement. An example is the bullish Class IIB target for Sg. Klang by the year 2020. Pollution contribution from various sources results in the degradation of water quality. Therefore, proper governance of these sources is imperative. Although this may seem to be a straightforward task; there are various technical, engineering, economical, administrative and legislative components, which need to be considered during the planning stage. This is to ensure that the initiative will provide a viable, practical and sustainable water quality improvement solution. The talk aims to convey to the audience the critical components of good governance on pollution control as well as its relation to existing legislations (eg. Environmental Quality Act, 1974) and standards (eg. National Water Quality Standards NWQS); their respective limitations, constraints and paradoxes. The talk will discuss the Total Maximum Daily Load (TMDL) approach to pollution control as well as its correlation to the concept of Waste Assimilative Capacity (WAC). The use of water quality models as a management tool to draft improvement strategies will also be discussed. At the end of the talk, a macro-level framework to provide better governance of pollution sources for water quality preservation will be presented.

#### BIODATA OF SPEAKER

**Assoc. Prof. Ir. Dr. Zaki Zainudin** is attached to the Department of Biotechnology Engineering, Faculty of Engineering, International Islamic University Malaysia (IIUM). He is a Professional Engineer with the Board of Engineers Malaysia (BEM), Chartered Engineer (CEng) with the Engineering Council, UK and Chartered Environmentalist (CEnv) with the Society for the Environment (SocEnv, UK). Zaki is a renowned environmental specialist in the area of water quality assessment and modelling, having led and played key roles in numerous environmental studies, including monitoring exercises, Environmental Impact Assessments (EIAs) and special standalone studies nationwide; for both private and government sectors. He is often a source of reference for various organizations on surface water quality management; such as being an expert panellist for the Department of Environment Malaysia (DOE, EIA, Water and Marine units) and is advisor to many prominent environmental firms. He has conducted various workshops and talks on water quality and modelling at both local and international venues. Zaki is also on the management committee of the International Water Association (IWA), Watershed and River Basin Management (W&RBM) Specialist Group. His CV and activities can be viewed at : <http://www.zakizainudin.blogspot.com>.

**Dato' Ir. Hj. Hanapi b. Mohamad Noor**  
**Chairman**  
**Water Resources Technical Division, IEM**

#### Announcement to note:

1. Talk is **STRICTLY** for IEM members only (walk in)
2. Limited seats available on a "first come first served" basis.
3. No telephone and/or fax reservation will be entertained.
4. Latecomers will not be allowed entrance, if the lecture hall is full.
5. Please bring along this flyer and membership card for confirmation of attendance (CPD purpose).

**For IEM members, membership cards MUST be presented for identification purpose. Members who fail to show their membership card will be charged a fee of RM20.00.**

#### FUNDS FOR IEM NEW BUILDING

**Kindly be informed that IEM will be charging participants RM10.00 administrative fee to evening talks organized by IEM. The fee would be used for overhead costs, building maintenance expenses as well as to support the purchase of the new building.**

**Students are however exempted. Your understanding is greatly appreciated.**

#### CPD HOURS CONFIRMATION

Name of Member: .....

M'ship No: .....

Signature: .....

Date : .....