Chairman,
Water Resources Engineering Technical Division,
The Institution of Engineers Malaysia,
Lots 60 & 62, Jalan 52/4, P.O. Box 223 (Jalan Sultan),
46720 PetalingJaya, Selangor Darul Ehsan
Tel: 03-7968 4001/2   Fax to 03-7957 7678
Homepage: www.myiem.org.my
Email: roselein@iem.org.my

REGISTRATION FORM
1 DAY SHORT COURSE ON URBAN DRAINAGE
MODELLING FOR DESIGN - 23rd May 2019
C&S & TUS Lecture Hall, 2nd Floor, Wisma IEM, PJ.
Closing Date : 20th May 2019

Name(s)	Membership No. / Grade	Fees (RM)
SUBTOTAL		
ADD SST @6%		
TOTAL PAYABLE		

*Fees MUST be fully paid BEFORE the CLOSING DATE. Seats could only be confirmed upon payment.
Enclosed herewith a crossed cheque No: _____for the sum of RM _____ issued in favour of "**The Institution of Engineers, Malaysia**" and crossed 'A/C payee only'. I/We understand that the fee is not refundable if I/We withdraw after my/our application is accepted by the Organising Committee as stated in the **cancellation term**. If I/We fail to attend the seminar, the paid registration fee will not be refunded.

Contact Person: _____ Designation:_____

Name of Organization: _____

Address: _____

_____

Telephone No.: _____(O)   _____ (HP)

Email: _____

_____   _____
Signature & Stamp   Date

PHOTOCOPIES ARE ACCEPTABLE

ONE DAY SHORT COURSE ON URBAN DRAINAGE MODELLING FOR DESIGN
BY – DR. JAMES LAU

Organised by:
Water Resources Technical Division,
The Institution of Engineers, Malaysia

Date	: **23rd May 2019**
Time	: **9.00 am – 5.00 pm**
Venue	: **C&S & TUS Lecture Hall, 2nd Floor, Wisma IEM, Petaling Jaya**

BEM Approved CPD/PDP Hours: 7
Ref No: IEM19/HQ/187/C,

REGISTRATION FEES SST NOT INCLUDED

Grade	Normal Fee	Online Fee
IEM Student Member	RM 200.00	RM 150.00
IEM Graduate Member	RM 300.00	RM 250.00
IEM Corporate Member	RM 500.00	RM 450.00
Non IEM Member	RM1000.00	RM 900.00

IMPORTANT NOTES
Terms & Conditions:
- For ONLINE REGISTRATIONS, only ONLINE PAYMENT is applicable [via RHB and Maybank2u –Personal Saving & Personal Current ; Credit Card - Visa/Master].
- Payment via CASH / CHEQUE / BANK-IN TRANSMISSION / BANK DRAFT / MONEY ORDER / POSTAL ORDER / LO / WALK -IN will be considered as NORMAL REGISTRATION.
- FULL PAYMENT must be settled before commencement of the course, otherwise participants will not be allowed to enter the hall. If a place is reserved and the intended participants fail to attend the course, the fee is to be settled in full.
- Fee paid is not refundable. Registration fee includes lecture notes, refreshment.
- The Organizing Committee reserves the right to cancel, alter, or change the program due to unforeseen circumstances. Every effort will be made to inform the registered participants of any changes. In view of the limited places available, intending participants are advised to send their registrations as early as possible so as to avoid disappointment.

SYNOPSIS

Hydrology is the science concerned with assessment of the natural distribution of water in time and space and with evaluating the impact of man-made changes on the distribution and quality of this water. The aim of the course is to study the hydrology and drainage requirements of urban areas. The course will cover the effects of urbanisation on the hydrological cycle, basic methods for hydrological analysis including rainfall-runoff models and flood frequency analysis. The course will also cover the concepts of dry-weather-flow, water quality modelling, steady-unsteady flow in pipes, basics of rainfall analysis, pipe hydraulics. Examples from real-life projects will be used to illustrate how the principles of urban hydrology are used to design solutions to resolve flooding and water quality problems.

Computational modelling of flow is one of the key design tools used to represent flow in urban drainage networks. The latest advances in computational modelling in urban drainage including topics like climate change sensitivity, overland 2D flow routing, integrated control and flood forecasting will also be covered. **This year, a practical session will be included on how to build a model and use a computational model.**

Who should attend:

- Those who are new in urban hydrology
- Engineers, foundation professionals who desire to have a basic understanding of urban drainage
- Those keen to understand the use and application of computational models like ISIS, InfoWorks CS/ICM/, Mike Urban/Mike 11 and PCSWMM.
- Bring along a laptop for a practical session for building and using a model

BIODATA OF SPEAKER

Dr James Lau, is an Associate Director at Dr Nik and Associates Sdn Bhd. He has delivered design, modelling, and applied research projects for clients in the Malaysia, Singapore and the United Kingdom.
James is an Honorary Lecturer at Imperial College London where he has lectured on urban drainage modelling on the Environmental Engineering MSc since 2007. He is also an Honorary Research Fellow at Exeter University. He is on the Editorial Board of the International Urban Water Journal. He is currently on the executive committee of the Malaysian Hydrological Society and actively involved in the Water Resources Technical Division of the IEM. His research interests include spatial/radar rainfall, flood forecasting/nowcasting, climate change, the modelling of integrated Urban Wastewater Systems, optimisation, financial modelling and water quality.

Time			Activity
08.30am	-	9.00am	Registration
09.00am	-	09.05am	Introduction
09.05am	-	10.30am	Basics of Urban Hydrology
10.30am	-	10.45am	Tea Break
10.45am	-	11.45am	Rainfall runoff and flood frequency analysis
11.45am	-	12.30nn	DWF and water quality
12.30nn	-	01.30pm	Lunch
01.30pm	-	02.00pm	Introduction to computational models
02.00pm	-	03.15pm	Hands on session 1: Building a basic model
03.15pm	-	03.30pm	Tea Break
3.30pm	-	04.30pm	Hands on session 2: Rainfall runoff in a model
04.30pm	-	05.30pm	Hands on session 3: Using a model to solve a problem
05.30pm	-	05.45pm	Question and Discussion