



ONE DAY WORKSHOP ON XPSWMM APPLICATION TO STORMWATER MANAGEMENT & FLOOD MODELING

Organiser: **National Hydraulic Research Institute of Malaysia & Lestari Software Solutions**

Date: 12th Jan 2017 (Thursday)

Venue: **Auditorium NAHRIM**

This Workshop will provide a basic understanding on hydrology & hydraulic principles used in engineering design. During the Workshop, we will discuss a few hydrology methods, design rainfall & historical rainfall, stormwater management & flood modeling case studies from different regions in the world. A brief introduction on the applications and capabilities of xpswmm software in modeling urban drainage, detention ponds & multi/link ponds, backwater, drainage master plans, and river flood mapping will be presented.

08.00 - 08.30 Registration & Networking
08.30 - 09.00 Opening by NAHRIM's Director

1. Introduction to hydrology & hydraulic <ul style="list-style-type: none"> Hydrology methods MASM 1, MASM 2 design rainfall & Historical rainfall What is stormwater management & flood model?	
Stormwater Modeling	Flood Modeling
2. Typical urban drainage example using xpswmm <ul style="list-style-type: none"> Data requirement to model urban drainage with storage and outlet conditions 	6. River modeling examples <ul style="list-style-type: none"> Simulation of cross sections, bridges and culverts 1D Flood mapping
3. How to model <ul style="list-style-type: none"> Culvert; Bridge; multi ponds; cascading drain; Rainwater tank; backwater 	7. What is a 2D model? Integrated 1D/2D modeling? <ul style="list-style-type: none"> Advantages Comparison with 1D models
4. Drainage master plan example <ul style="list-style-type: none"> Importing data from AutoCAD & GIS Stormwater networks with storage (pond) Tidal boundary conditions (backwater effect) Pre development hydrograph Vs Post Development Hydrograph 	8. Integrated 1D/2D modeling: Demonstration – case studies using xpswmm <ul style="list-style-type: none"> Australia United Kingdom United States Malaysia
5. Modeling Water Quality <ul style="list-style-type: none"> Pollutant loading Low Impact Development (LID) approaches Reviewing results 	9. Dam / Levee Break Modeling
	10. Model outputs <ul style="list-style-type: none"> Flood map (Depth and Velocity) Flood Hazardous map Flood Evacuation map
11. Question and Answer	

Program start from 8.00am to 5.00pm * 1 hour lunch & 15 min Break & Discussion for AM & PM

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About the speaker

Mr. Paul Guilas, Water Resources Engineer, XP Solutions

Paul has over 6 years' experience as a Hydrologist and experienced in handling international projects. He has handled projects that involved tasks such as: conduct rainfall-runoff transformation calculations, estimate peak runoff flow rates for catchments in rivers and storm drainage systems, Estimate domestic water demand / sewage demand based on projected population for a development area, design detailed layout of proposed storm water / wastewater conveyance pipelines. Paul earned his engineering degree at the Technological University of the Philippines and currently works as a Water Resources Engineer for XP Solutions.

For more details please contact Ms. SY Loke (LSS) @ 03 – 9010 4368 or 012 306 3510

Email: syloke@lestarisoftware.com

Mr. Khairul Anam Bin Musa (NAHRIM) @ 03- 8947 6400 ext. 6427

Date: 12th Jan 2017 (Thursday)

REGISTRATION FORM

Fax: 03 – 9010 4328

No.	Name(s) in CAPITALS*	Email	Hp	Fee **
1.				1 pax = RM265
2.				2pax = RM530
3.				3 pax = RM763.20
4.				4 pax = RM985.80
5.				5 pax = RM1197.80
6.				6 pax = RM1367.40

* Please provide full name to be printed on certificate ** Fee inclusive of GST (GST No.: 000 3470 82752)

Courier the form with payment to **Lestari Software Solutions**

No. 5-2, Jalan Temenggung 5/9, Bandar Mahkota Cheras, 43200 Cheras, Selangor

Tel: 03 – 9010 4368 Fax: 03 – 9010 4328

Enclosed herewith is a crossed cheque no:.....for the sum of RM..... issued in favor of **Lestari Software Solutions**. I/We understand that the fee is not refundable if I/We withdraw after my/our registration(s) is/are accepted but substitution of participant(s) will be allowed. The Organizer reserves the right to cancel, alter change the programme or speaker due to unforeseen circumstances. Every effort will be made to inform the registered participants of any changes. One tea break & lunch will be provided.

Name of Department/Organization: _____

Address: _____

Tel : _____ Fax: _____ HP : _____

Contact Person: _____ Designation: _____

E-mail: _____