



Seminars on

## Road and Site Design & Low Impact Development Design

Organiser:

Faculty of Engineering and Technology Infrastructure, Infrastructure University Kuala Lumpur (IUKL) & Lestari Software Enterprise (LSE)

Date: 24<sup>th</sup> June 2013 (Monday)

The one day seminar will cover 2 aspects:

1. The first seminar will focus on road and site designs.

This seminar will cover a basic understanding of road geometric design and simple earthwork calculation. A powerful road design software allowing engineers to be firmly in control of road design will be presented. They can quickly evaluate options for road, intersection and roundabout layout.

2. The second part of the seminar will present the Low Impact Development (LID) Design.

This Seminar will provide a basic understanding of LID. During the seminar, the speaker will go through the modeling of rain garden, bioretention areas, pervious pavement, swales & infiltration trenches. Beside these, a brief discussion on water quality analysis will be introduced.

**Seminar Outline:** *The following will be covered over two half day seminars. This is a presentation and demonstration session with time for discussion and questions.*

8:30 - 9:00	Registration
9:00 – 12:45	<b>Introduction to XPSITE3D for Road and Site Design</b>
	<b>Model Setup and Design tools</b> <ul style="list-style-type: none"> <li>Loading surface data</li> <li>Simple road design tools</li> <li>Introductory junctions and roundabouts</li> </ul> <b>Interfacing and Earthworks</b> <ul style="list-style-type: none"> <li>Road grading</li> </ul>

- Simple earthworks
- Volume calculations

Attn.: Road & drainage design Engineers

### Advanced Design Tools

- Road widenings and editing tools
- Drainage layout tools
- Setting out information
- Exporting data

### Discussion and Questions

13:00 – 14:00

Lunch

### Low Impact Development Design

14:00 – 16:30

#### Introduction to theory of LID

- History of drainage design
- Comparing traditional and LID workflows
- Moving forward with LID for integrated stormwater design

#### Modeling Low Impact Development (LID) with XPDRAINAGE

#### Drainage Layout and Design Tools

- Deluge surface to identify flow paths and ponding areas
- Volume estimate calculators

#### Designing LID systems

- Layout site with contributing areas and drainage systems
- Modeling rain gardens, bioretention areas
- Modeling pervious pavement
- Model swales, infiltration trenches
- Model Inlets and Outlets
- Rainfall data

#### Resulting design

- Designing to meet flow and water quality criteria
- View flow paths

16:30 - 17:00

Question & Answer

*The Trainer*

**Jessica Jefferys** is Product Manager at XP Solutions. She provides technical expertise supporting the development of best practice in drainage design and flood modeling. Her responsibilities include ensuring the company’s software is compliant with the latest water engineering legislation and regulations. Jessica engages with industry and research organisations to feed into product management. She has been involved in requirements analysis, specification and testing of products for the Australian and International markets. Jessica has conducted training courses and workshop seminars in both her current and previous roles and also has experience in presenting papers at National and International conferences.

**Road and Site Design & Low Impact Development Design**

Date: **24<sup>th</sup> June 2013 (Monday)**  
 Time: 08:30 to 17:00  
 Venue: Infrastructure University Kuala Lumpur  
 Unipark Suria, Jalan Ikram-Uniten, 43000 Kajang, Selangor Darul Ehsan

**REGISTRATION FORM**

Fax: 03 – 9010 4328

No.	Name(s) in CAPITALS*	Email	Hp	Fee for participant/s
1.				1 = RM350
2.				2 = RM600
3.				3 = RM850
4.				4 = RM980
5.				5 = RM1200

\* Please provide full name to be printed on certificate

Enclosed herewith is a crossed cheque no:.....for the sum of RM..... issued in favor of **Lestari Software Enterprise**. 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 or change the programme due to unforeseen circumstances. Every effort will be made to inform the registered participants of any changes. A lunch & 2 Coffee/Tea Break will be provided.

Name of Department/Organization: \_\_\_\_\_  
 Address: \_\_\_\_\_

Tel : \_\_\_\_\_ Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

Contact Person: \_\_\_\_\_ Designation: \_\_\_\_\_

Date: \_\_\_\_\_ Signature: \_\_\_\_\_

*How to register*

Complete and fax the registration form back to **03 – 9010 4328**  
 Registered mail or courier the form with payment to address below  
 Please make cheque payable to **Lestari Software Enterprise**  
**Address:** No. 5-2, Jalan Temenggung 5/9, Bandar Mahkota Cheras, 43200 Cheras, Selangor  
 Tel (03) 9010 4368 • FAX (03) 9010 4328

*For more details please contact*

**LSE:** Ms. SY Loke @ 03 – 9010 4368 or 012 306 3510  
**IUKL:** Ir. Mohd Nasir @ 603-8926 6993 Ext: 665

Closing Date for registration & payment: **20 June 2013, Tuesday**  
 (Limited to 80 total participants)