



# THE INSTITUTION OF ENGINEERS, MALAYSIA

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## TALK ON "APPLICATION OF MOBILE LASER SCANNER TECHNOLOGY IN HIGHWAY AND TRANSPORTATION ENGINEERING"

(Organised by the Highway & Transportation Engineering Technical Division, IEM)  
BEM Approved CPD/PDP Hours: Applying

Date : 22<sup>nd</sup> October 2016  
Time : 9.00am to 11.00am  
Venue : C&S & TUS Lecture Hall, 2rd Floor, Wisma IEM, PJ  
Speaker : Mr. Lim Chor Sheng

### SYNOPSIS

Mobile Laser Scanner (also known as Mobile LiDAR) is an emerging highway inventory data collection method. At 2,000,000 time-of-flight range measurements per second, the Mobile laser scanning (MLS) system allows field crews to capture high-resolution 3-dimensional spatial data at traffic speeds with high accuracy. The cutting edge multi-target capability enables penetration of foliage, fences, and other obstacles. The calibrated relative reflectance reading allows for range-independent grey-coded texturing of, e.g., facades and the automatic, range-independent detection of commonly retro reflecting traffic signs. Field data is presented demonstrating the accuracy of the calibration and the high quality of the geo-referenced point cloud. Combined with geo referenced image, MLS able to provides 3D photo realistic data and for further investigation and visualization.

### SPEAKER BIODATA

Mr. Lim Chor Sheng is Managing Director for GPS Lands (M) Sdn Bhd, focusing on Southeast Asia sales and business development of *RIEGL* Laser Scanner / LiDAR. He obtained his degree in Geography from University of Malaya in 2002. He has 15 years experiences in Geospatial and Mapping Industries. His interest is on Laser Scanner solution comprising from Airborne, Unmanned, Mobile and Terrestrial Laser Scanner. He attended *RIEGL* Worldwide Terrestrial Laser Scanner Training from *RIEGL* Laser Measurement GmbH in Austria & Unmanned Laser Scanning Training from *RIEGL* Laser Measurement GmbH in USA. He is also involved in critical Laser Scanner / LiDAR scanning projects in Malaysia and in the region. He is a member of Institution of Geospatial and Remote Sensing Malaysia (IGRSM) and Academy of Model Aeronautics, USA.

Ir. Siew Yaw Jen  
Chairman  
Highway and Transportation Engineering Technical Division, IEM

### ANNOUNCEMENTS TO NOTE:

- Preferential admission to talk shall be accorded to IEM members (**pre-registration and online registration are NOT required**).
- **Non members** may also attend the talk but will need to pay a registration fee of **RM50** and an administrative fee of **RM15**. GST is inclusive.
- Members of affiliated organisations upon producing their membership cards will be exempted from paying registration fee. Administrative fee is nevertheless applicable.
- Limited seats are available on a "first come first served" basis (maximum 100 participants).
- IEM members are reminded to produce membership cards for confirmation of attendance (CPD purpose) failing which a fee of RM25 will be imposed. GST inclusive.

### ADMINISTRATIVE FEE

- Kindly be informed that an administrative fee of **RM15** is payable for talks organized by IEM. GST is inclusive.
- The fee would be used to cover overhead costs, building maintenance expenses as well as contribute to Wisma IEM Building Fund.
- All contributions will be deeply appreciated by IEM.
- Student Members are however exempted.

### PERSONAL DATA PROTECTION ACT

I have read and understood the IEM's Personal Data Protection Notice published on IEM's website at <http://www.myiem.org.my> and I agree to IEM's use and processing of my personal data as set out in the said notice.

### CPD HOURS CONFIRMATION

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