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TALK ON HIGH ACCURACY DISPLACEMENT TRANSDUCER FOR TUNNEL DEFORMATION MEASUREMENT

Organized by Tunnelling & Underground Space Technical Division, IEM
BEM Approved CPD/PDP Hours: 2 Ref No: IEM17/HQ/346/T

Date : 12th September 2017 (Tuesday)
Time : 5.30pm – 7.00pm (Refreshments will be served at 5.00pm)
Venue : TUS and C&S Lecture Room, 2nd Floor, Wisma IEM, Petaling Jaya
Speaker : **Mr. Sendo Hiroshi**

SYNOPSIS

In urban areas, there is a demand to maintain adjacent existing tunnels or structures in good conditions, such that they are not adversely impacted by new construction activities. Therefore, it is important to monitor the deformation of these existing structures with high accuracy, where a substantial accuracy in displacement transducers are required. This talk is about the effectiveness of both stable and high precision in-tunnel deformation measurements, rock deformation measurements, and underground structure displacement measurements. The instrumentation which will be mentioned is not influenced by temperature changes, but is also stable in monitoring over a long period of time.

This talk will provide a few case histories from practical experiences in Japan, for example, the Horonobe Underground Research Laboratory (Horonobe URL), project of the Japan Atomic Energy Agency (JAEA) planned at Horonobe-cho in northern Hokkaido, Japan.

ADMINISTRATIVE FEE

- Kindly be informed that an administrative fee of RM15 is payable for talks organized by IEM. GST is inclusive.
- Student Members are however exempted.

ANNOUNCEMENTS TO NOTE:

- Non-member may also attend the talk but will need to pay a registration fee of RM50 and an administrative fee of RM15. GST is inclusive.
- Limited seats are available on a "first come first served" basis (maximum 100 participants). To secure your seat, kindly register online at **www.myiem.org.my.**

BIODATA OF SPEAKER

Mr. Sendo Hiroshi is a machine design engineer, and is the president of Sendo Mechanism Design. He graduated in 1988 from the Department of Mechanical Engineering, National Institute of Technology, Kagoshima College, Japan. He has developed various measuring instruments with instrumentation manufacturers.

In 2006, Sendo Mechanism Design was founded to develop and manufacture displacement transducers with original environmental resistance (heat resistance and water pressure resistance). Sendo Mechanism Design develops and manufactures displacement transducers mainly for monitoring in tunnel, rock and underground structures. In recent years, Sendo Mechanism Design has been involved in the monitoring of a nuclear fuel waste disposal site laboratory which is 350 m underground.

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Ir. Syed Rajah Hussain Shaib Bin A.H. Mohd Haniff
Chairman
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