THE HONG KONG POLYTECHNIC UNIVERSITY
香港理工大學

DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING
土木及環境工程學系
CEE

National Rail Transit Electrification and Automation Engineering Technology Research Center (Hong Kong Branch)
國家軌道交通電氣化與自動化工程技術研究中心(香港分中心)

Seminar on
The Application of Driving Recorder to analyze the Rail Irregularity and the Vehicle Swing

Prof. Ching Lung Liao

Civil Engineering department, National Taiwan University

Director, Rail Technical research center

ABSTRACT

In railway operation, the swing of the vehicle is critical to maintain passenger comfort and safety. The main cause leading to the swing of the vehicle is the rail track alignment, which means that controlling the rail irregularity within allowable range is the key issue for railway maintenance. This presentation is to introduce a quick inspection method for railway alignment to identify which sections of the railway may be dangerous by directly analyzing image data from the driving recorder. The benefits of this inspection method are (1) a few hours of analyses with results, (2) easy to understand the amount of vehicle swing and the track curvature bias, and (3) easy to communicate with maintenance personnel because the information combined with real image. Some examples are provided to illustrate the good alignment of the railway and bad alignment before derail.

This Seminar will be delivered in Putonghua.

Date: **14 January 2019 (Monday)**

Time: **3:00-4:30pm**

Venue: **V312, PolyU**

SPEAKER'S BIOGRAPHY

Professor
National Taiwan University
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Chairman of Board
China Engineer Consultants, Inc.

Director
The Bureau of Taiwan High-Speed Rail

Commissioner, Chief Engineer
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*****All Interested Are Welcome *****

For further information, please contact Miss Autumn Lin at Tel. 3400 8535.

Certificates of attendance will be provided to participants if they attend the whole lecture.