



CHINA HONG KONG PERMANENT WAY SOCIETY

P.O. Box No. 626 Shatin Central Post Office

July 2010 Function:

Technical Seminar – Talk on “Detection of Railway Ballast Damage by In-Situ Vibration Measurement of Concrete Sleepers”

Wednesday 21st July 2010

Time: 6:45 pm to 7:30 pm (following EGM)

Theatre, 2/F, Fo Tan Railway House

Ballasted track is one of the railway transportation systems in the world. Under heavy repeated traffic loading, the ballast would be damaged. Currently, the monitoring of ballast condition relies very much on visual inspection. Although extensive research has been carried out in the development of non-destructive methods for track bed evaluation, a commonly accepted and cost-effective method for ballast damage detection is still in demand.

MT will introduce his study on the feasibility of using an instrumented hammer to excite an equivalent single degree-of-freedom system (SDOF), incorporating a concrete sleeper, rail and pad, to determine the dynamic properties of the damaged ballast using modal analysis so as to explore the possibility of developing a handy method for the detection of ballast damage based on the measured vibration of sleepers.

Mr. MT Wong is currently the Maintenance Engineer – PWay in the Kwun Tong/Tsuen Wan/Island Line of MTR

To enroll, each participant has to confirm to CHKPWS his/her name, employer or firm and contact telephone no. You should also provide your membership no. and grade, at the same time when returning your application using the form attached by **14 July 2010** to Anita Ip at Fax no 2947 7001 OR via e-mail to ANITAIP@mtr.com.hk

Looking forward to seeing you there on 21st July 2010.

SK Leung
Secretary, CHKPWS

