



# PA & VA System in Reverberant Space

Organized by

The Hong Kong Institute of Acoustics and the  
Department of Mechanical Engineering of Hong Kong Polytechnic University  
supported by Audio Engineering Society Hong Kong Section

Speaker: Wilson HO and Eddy NG, Wilson Acoustics Limited  
Venue: Room Y301, The Hong Kong Polytechnic University, Hung Hom, Kowloon  
Date & Time: 8 January 2015, 6:30 to 7:30pm (reception starts at 6:15pm)

## Programme Highlights:

**Public Address (PA)** design in reverberant space is a challenging job for **architects** and **audio engineers**. PA system also provides **Voice Alarm (VA)** function during emergency in enclosed public areas where reverberation control is most critical, in addition to appropriate loudness, location and aiming of loudspeakers. **Architectural design with invisible loudspeakers** limits the choice on loudspeaker location and aiming. VA system provides clear emergency message in different zones even in a crowd of rushing people. It is necessary to design and test the VA system according to the fire safety codes in the International Standard. **RASTI** and **STIPA** (or full **STI**) are the index showing clarity of PA message at certain location. Uniform coverage with good **RASTI** ( $\geq 0.5$ ) over the entire public area is currently considered as the acceptance criteria for the system performance. Nowadays, PA system in railway stations normally provides both **PA & VA** functions to improve passenger safety with **invisible loudspeaker architectural design**. In the seminar, latest simulation tools and commissioning methods will be presented with various types of loudspeakers (column, ceiling, projector, array, etc.) in reverberant railway stations and other spaces.

## Speakers:

Wilson HO has extensive experience in PA/VA system acoustic design and commissioning since his work for MTR LAR stations. Eddy NG is the team leader in Wilson Acoustics Electroacoustic Team. He has been worked as the PA/VA system acoustic consultant for the new stations in MTR railway lines (LAR, WIL, SIL, KTE, XRL & SCL), and renovated PA system in EAL and KTL stations.

## Registration

Please register in [http://www.wal.hk/hkioa/PA\\_system\\_acoustic\\_design\\_seminar.html](http://www.wal.hk/hkioa/PA_system_acoustic_design_seminar.html). The seminar is free of charge for members of HKIOA, AES and students of HKPolyU in first-come first-served based. (HKD\$100/person will be charged for non-members and other interested persons). Certificates of attendance will be provided upon request.

**Wilson HO, Activities Subcommittee of HKIOA**