



THE JOINT HKIOA-POLYU SEMINAR (4 Nov 2015)

SHARING OF EU'S STANDARDS ISO/WI 19488 AND DENMARK'S EXPERIENCE ON SOUND INSULATING OPEN WINDOWS

INTRODUCTION

Hong Kong is facing severe and pervasive road traffic noise problems. In our dense metropolitan environment, many residential developments are built in close proximity to heavily trafficked expressways and roads which resulting that some 1 million people are exposed to high level of traffic noise. In general, mitigation could be applied at source, through transmission and at receiver end to reduce noise impact. Among these mitigation approaches, building designs such as building setback; building block designs; balcony; podium design and special window designs would be adopted for noise mitigation purpose.

In this workshop, world-renowned expert from Denmark will share her views and experiences in this important issue through 2 talks.

First Talk

“Acoustic classification of dwellings –National schemes in Europe and development of an international standard (ISO/WI 19488)”

A summary of the variety of national acoustical classification schemes in Europe will be presented. The situation in Europe led to establishing COST Action TU0901 about harmonization, and a draft international classification scheme was prepared and submitted to ISO/TC43/SC2 as NWIP (New Work Item Proposal) in 2013 and approved as WI in 2014. The presentation describes the efforts and process in ISO/TC43/SC2/WG29 (with 48 members from 22 countries) aiming at preparing an international standard on acoustic classification of dwellings.

Main reference: ***International proposal for an acoustic classification scheme for dwellings - background and perspectives.***

Second Talk

“Danish experiences with sound insulating open windows in traffic noise exposed housing in Greater Copenhagen”.

Many people prefer to keep the option to open windows, even in case of high traffic noise exposure outdoors. With typical, openable windows, the indoor traffic noise level could be so strong that normal conversation indoor is difficult, and sleep disturbance high. However, with special sound insulating windows in open state, the indoor situation will be improved and the disturbance reduced,

although definitely not disappear. The presentation will describe different window solutions applied in Greater Copenhagen, measurement results and examples of indoor noise estimates.

Main reference: **Experiences with sound insulating open windows in traffic noise exposed housing.**

VENUE AND DATE

Venue: Room BC308,
Hong Kong Polytechnic University
Hung Hom, Hong Kong

Date: Wednesday, 4 November 2015

Time: 6:30pm – 8:00pm

REGISTRATION

For registration, please fill in and submit the form by 28 October 2015 at the following website. http://www.wal.hk/hkioa/sound_insulating_open_windows.html. The seminar is free of charge for members of the HKIOA, related professionals, and interested persons in first-come first-served based.

A certificate of attendance will be awarded to participants. This symposium may be considered to meet in part of the Continual Professional Development (CPD) requirements of the Hong Kong Institute of Acoustics.

SPEAKER



Birgit Rasmussen is presently senior researcher at SBI, Danish Building Research Institute, Aalborg University Copenhagen, with responsibility for building acoustic research activities and writing acoustic guidelines for the building industry. Former work places were the Danish Acoustical Institute (now DELTA) with acoustic testing, development of building components, standardization and research as main tasks, Brüel & Kjær as an application specialist in building acoustics (including world-wide activities), Acoustic Technology at the Technical university of Denmark (research projects), VELUX A/S as an acoustic specialist and coordinator of external tests and approvals of windows world-wide. Birgit has as special research interest comparative studies of regulatory sound insulation requirements for dwellings, sound insulation descriptors and acoustic classification schemes in Europe and has made several conference and journal papers on these subjects. She chaired the European COST TU0901 with these issues as key elements and is also active in international standardization within building acoustics.

Publication information can be found at [http://vbn.aau.dk/en/persons/birgit-rasmussen\(c0e774a9-8cdf-410f-8727-6a2cc11a4f14\)/publications.html](http://vbn.aau.dk/en/persons/birgit-rasmussen(c0e774a9-8cdf-410f-8727-6a2cc11a4f14)/publications.html)

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