Leaflet Master Class Building Acoustics
Transfer of acoustical energy across junctions

Contents

The goal of this Master Class is to study building acoustics in depth. For three days, you will gain theoretical knowledge and do laboratory experiments in the presence of leading world-reknown professionals. The focus of this Master Class is on determining and interpreting the transfer of acoustical energy across the junction of structural elements in buildings.
The Master Class is complemented by workshops in calculation models and measuring sound (vibrational power transmission across a junction and radiation efficiency of structural elements). In a guest lecture, the topic of (perceptible) floor vibrations will be covered.

What will be presented?

- Theory of sound transmission:
  Airborne, impact and flanking sound transmission.
- Acoustical performance of building elements and junctions.
- Workshop in calculation models: Modelling of building structures and interpretation of calculation results.
- Workshop on (perceptible) floor vibrations.
- Practical experience in measuring sound:
  - The determination of the vibration power transmission across a junction between structural elements
  - The determination of the radiation efficiency of structural elements.

For whom?

The master class is primarily meant for acoustics consultants with several years of experience. The participants are expected to have considerable knowledge and experience in the field of building acoustics. Also, this Master Class can be suitable interesting for PhD students and post-doctoral research fellows. The maximum size of the group is 9 persons.

The master

The class will be given by prof. E.(Eddy) Gerretsen, who has been scientific researcher at TNO Delft and professor at the Eindhoven University of Technology on "Structure borne sound in buildings". Eddy Gerretsen also teaches the Advanced Course on Acoustics in Antwerp and a course in practical building acoustics at the SKB (Stichting Kennisoverdracht Bouwfysica). He was involved in the development of calculation models in building acoustics, resulting in an active role on the development of the well known EN 12354 standards series. One of his breakthroughs has been the introduction of the vibrational power transmission across junctions Kij. He now further develops the standards for lightweight building structures and noise of building services within the CEN working groups.

Guest speaker

A guest lecture will be given by drs. A.(Arnold) Koopman. He is an expert in vibrations in building structures in the low frequency range. More info about the guest lecture will follow soon.

Dates

The Master Class will take place from Thursday 4 June through Saturday 6 June 2015.

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Location
Laboratorium voor Akoestiek (Level Acoustics BV)
The laboratory is located at the campus of Eindhoven University of Technology in the Netherlands.

Costs
The cost for attending the Master Class is:
- € 3.055 (VAT excluded) including a two night's stay in a hotel;
- € 3.165 (VAT excluded) including a three night's stay in a hotel;
- € 3.275 (VAT excluded) including a four night's stay in a hotel.

Also included are:
- A reader with literature and presentation sheets;
- Breakfast, lunch and diner.

For (PhD) students we will use a reduced fee, please send us an email about the possibilities.

Registration
You can register for the Master Class by filling in the paper registration form thoroughly and sending it to Level Acoustics by mail or email. Registrations will be accepted in the order in which they are received, up to a maximum of 9 participants. After receiving the registration folder, we will send a confirmation and an invoice. The payment must be fulfilled within 30 days after receipt of the invoice. Your registration for the Master Class is confirmed after we receive the course fee. The final registration date is the 18th of May 2015.

Cancellation
If you cancel more than four weeks before the Master Class starts, the course fee will be refunded, less € 327,50 for administration costs. If you cancel within one to four weeks before the Master lass starts, a refund of 50% of the course fee is given. If you cancelling within the last week before the Master Class starts, there will be no refund of the course fee. However, it is possible to send a substitute to follow the class, provided he or she has considerable knowledge and experience in the field of building acoustics. If there are not enough participants, Level Acoustics has the right to cancel the Master Class, up to one week before the start of the master class. In that case, the total course fee will be refunded.

Information and registration
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Download the registration form here:
http://www.levelacoustics.nl/education/masterclasses/info/regformMCBA15.doc

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Program

Thursday 4 June

10.00-10.30	Reception with coffee
10.30-12.00	Introduction and theory of sound transmission
12.00-13.00	Lunch
13.00-14.00	Theory of sound transmission
14.00-15.00	Introduction workshop for measuring sound: measurement system and software
15.00-15.30	Break
15.30-17.30	Workshop for measuring sound: part 1 (Kij, Radiation factor, Surface contribution)
17.30-19.30	Dinner
19.30-21.00	Case Studies

Friday 5 June

09.00-10.30	Theory of sound transmission
10.30-12.30	Working out measurement results
12.30-13.30	Lunch
13.30-15.00	Theory of low frequency sound and vibration
15.00-15.30	Break
15.30-17.30	Workshop for measuring sound: part 2 (Low frequency sound)
17.30-19.30	Dinner
19.30-21.00	Discussion of measurement results

Saturday 6 June

09.00-10.30	Introduction to modelling workshop
10.30-11.00	Break
11:00-13.00	Workshop modeling
13.00-14.00	Lunch + Discussion of modelling results
14.00-15.00	Conclusion

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