

postage

Empa  
Luboš Krajčí  
Laboratory for Acoustics/Noise Control  
Überlandstrasse 129  
CH-8600 Dübendorf

## GENERAL INFORMATION

- Location** Empa, Dübendorf  
Überlandstrasse 129  
AKADEMIE
- Costs** CHF 200.– (Students CHF 100.–)  
incl. Symposium materials, lunch and refreshments.  
Dinner has to be booked extra (CHF 100.–).
- Registration** [www.empa.ch/sba](http://www.empa.ch/sba)  
or by attached registration form
- Deadline** November 11, 2011
- Cancellation** For cancellations after November 15, 2011,  
50% of the fee will be charged. After November  
22, 2011, or in case of non appearance we will charge  
the full fee. A replacement will be accepted.
- Contact** Empa  
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Swiss Confederation

Federal Department of Home Affairs FDHA  
State Secretariat for Education and Research SER

EMPA  
AKADEMIE  
Zentrum für Wissenstransfer

cost  
EUROPEAN COOPERATION  
IN SCIENCE AND TECHNOLOGY

## SYMPOSIUM

# Building Acoustics Cost Actions FP0702 and TU0901



Empa, Dübendorf, Überlandstrasse 129  
Tuesday, November 29, 2011, 9am to 10pm

Online registration [www.empa.ch/sba](http://www.empa.ch/sba)

## TOPIC

This workshop presents the newest research results in the area of sound insulation in timber-based lightweight components and buildings (TBLB) as well as progress in harmonising of standardised regulations of sound insulation in Europe. The acoustic performance of buildings and elements is an important topic for TBLBs due to their natural frequencies of resonance and the low mass of building material used in these elements. The harmonisation of the descriptors for airborne and impact sound insulation between dwellings and for airborne sound insulation of facades as well as the preparation of an European classification scheme with a number of quality classes is required.

## AIMS

- Advancing the relevant technical knowledge
- Coordination of research activities and knowledge transfer
- Development of guidelines for TBLB and improving their performance regarding acoustics and low frequency vibration behaviour
- Stimulating innovation and supporting sustainability
- Reducing trade barriers between member states and facilitate marketing

## TARGET AUDIENCE

Welcome are students, civil engineers, architects, consultancies in the area of building physics, researchers and acousticians

## PROGRAM

- 09.00 **Welcome and introduction to Empa activities** – Peter Richner, Board of Directors
- 09.15 **FP0702 introduction and status** – Michel Villot, chair of FP0702
- 09.30 **TU0901 introduction and status** – Birgit Rasmussen, chair of TU0901

### COMFORT ASSESSMENT

- 09.45 **AcuWood – progress and initial results** – Klas Hagberg
- 10.05 **Recent results on impact noise research** – David Quirt
- 10.25 **ISO 16717: proposals and background** – Werner Scholl
- 10.45 **Discussion**
- 11.00 **Coffee break**

### MEASUREMENT AND PREDICTION OF PERFORMANCE

- 11.30 **Revision of ISO Standards on field sound insulation testing** – Carl Hopkins
- 11.50 **Predictions for lightweight constructions and low frequencies** – Catherine Guigou, Michel Villot
- 12.10 **Modelling sound transmission across heavyweight-lightweight floors** – Carl Hopkins, Luboš Krajčí
- 12.30 **Discussion**
- 12.45 **Lunch**

### CONSTRUCTIONS FOR PERFORMANCE

- 13.45 **Typical building constructions in the EU and their acoustic performance** – Sean Smith
- 14.05 **Performance requirements and corresponding lightweight construction designs** – Bart Ingelaere
- 14.25 **Discussion**
- 14.40 **Tea break**

### DISCUSSION GROUPS AND PLENARY SUMMARY

- 15.10 **Explaining further group discussion, creating three groups around the three themes with presenters and relevant WG(co-) leaders group discussions**
- 16.40 **Presenting results (3 x 10 min) and plenary discussion**
- 17.30 **Farewell Drinks**
- 19.30 **Dinner**

## REGISTRATION FORM

### SYMPOSIUM

# Building Acoustics

## Cost Actions FP0702 and TU0901

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Ms    Mr    Prof.    Dr    Student  
 Dinner

Name
First Name
Affiliation
Section
Function
Address
ZIP Code/Town
Phone
E-Mail
Date/Signature