



## **COST Action TU0901: Integrating and Harmonizing Sound Insulation Aspects in Sustainable Urban Housing Constructions**

**Technical Committee Room and Building Acoustics of the EAA**

**Building Acoustics Group of the Italian Acoustics Association;**

**Organize**

2<sup>th</sup> National Convention of Building Acoustics

*The evolution of the Italian standards on  
acoustic performance of buildings*

**and**

European symposium of EAA TC-RBA and Cost Action TU0901

*Harmonization of European sound insulation descriptors and  
classification standards*

*Florence, Italy, December 13<sup>th</sup> – 14<sup>th</sup> 2010*

Auditorium of the University Campus of Novoli  
(Polo delle Scienze Sociali)

The convention and symposium topics deal with the evolution and harmonisation of national standards on sound insulation requirements in buildings.

On Monday 13th December there will be invited presentations (in Italian) regarding the evolution of Italian legislation and on the new Italian acoustic classification scheme for buildings.

On Tuesday 14th December there will be invited presentations (in English) on the evolution and harmonisation of European standards on building acoustics and a poster session open to all members of the COST Action.

Most European countries have legal requirements concerning the acoustic performance of buildings, although these widely differ in chosen performance descriptors and requirement levels. The harmonisation of descriptors and performance classes is necessary to stimulate innovation, support sustainability, reduce trade barriers between Member States and facilitate marketing. The symposium will be held after nearly one year of activity of COST TU0901 and will be the first opportunity to present and discuss the achievements for the first year. It will also be an opportunity to present the expected results of the Action from a scientific point of view, and a fundamental step for the dissemination of this important initiative. It will encourage networking by complementary specialists in the different fields of building acoustics and from different countries and institutions.

Further information: [www.associazioneitalianadiacustica.it](http://www.associazioneitalianadiacustica.it)

The MC and WGs meetings of the Cost Action will be held at the TAED Department of the University of Florence, in the city centre, on December 15<sup>th</sup>.

## Draft programme

(The names of the speakers and presentations could be subject to change)

**Monday, December 13<sup>th</sup> 2010**

### ***The evolution of the Italian standards on acoustic performance of buildings***

*(Most of the presentations will be in Italian)*

#### **Morning**

- G. Elia, M. Garai **La nuova norma UNI 11367 sulla classificazione acustica delle unità immobiliari**
- F. Scamoni,  
C. Martorana **Gli strumenti a disposizione del progettista e l'evoluzione delle norme sulla previsione delle prestazioni acustiche degli edifici**
- P. Fausti, S. Secchi **Criteri semplificati di campionamento per le misure in edifici a carattere non seriale**

coffee break

- T. Carrascal,  
M. Machimbarrena **L'applicazione del "Documento Básico" sui requisiti acustici passivi in Spagna. *The application of the new legislation on acoustic performance of buildings in Spain (Documento Básico).***
- M. Garai, L. Barbaresi **L'effetto dell'incertezza di campionamento nella determinazione dei requisiti acustici delle unità immobiliari**
- S. Secchi, G. Cellai,  
P. Fausti, E. Nannipieri,  
R. Cremonini **Sensibilità alla posa in opera dei requisiti acustici ed effetti sull'incertezza dei risultati**
- Presentazione di poster sulle prime esperienze di applicazione della nuova norma sulla classificazione acustica degli edifici**

#### **Debate**

Lunch

#### **Afternoon**

Technical exhibitions

- A. Di Bella, S. Luzzi,  
M. Borghi, L. Busa, **Il costo dell'adeguamento degli edifici ai nuovi standard acustici**
- Presentazione di poster sulla riqualificazione e l'adeguamento degli edifici esistenti ai nuovi standard di classificazione acustica**

coffee break

- A. Iannotti, A. Schiavi,  
G. Semprini **Valutazione previsionale del rumore degli impianti a servizio dell'edificio: stato dell'arte e casi studio**
- Presentazione di poster su problematiche previsionali e metrologiche del rumore degli impianti**

#### **Round table**

With the participation of experts from the Ministry of the Environment, Control Agencies (ARPA, ASL), Public Administration, Research Institutes and Associations.

#### **Debate**

GAE meeting

**Tuesday, December 14<sup>th</sup> 2010**

***Harmonisation of European Sound Insulation Descriptors and Classification Standards***

*(presentation in English with simultaneous translation in Italian)*

**Morning**

- B. Rasmussen **Harmonization of sound insulation descriptors and classification schemes in Europe: COST Action TU0901**
- E. Gerretsen et al **Overview of various building acoustic descriptors in Europe - update, first analyses and relation with ISO 717 proposals**
- C. Simmons **A proposal for a harmonized questionnaire and an overview of its development**
- M. Machimbarrena **Introduction to the first part of the poster session**

coffee break

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- M. Rychtarikova, G. Vermeir, M. Vorlaender **Listening tests, auralisation and modelling: an overview**
- P. Dunbavin, F. Scamoni, J. Patricio **Advantages and disadvantages of various sound insulation descriptors (quantity, rating, frequency range) - first overview**
- Summary and coordination of the debate**

**Debate**

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Lunch

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**Afternoon**

- S. Smith et al **New buildings: design, technical solutions and acoustical performance in different European countries**
- B. Ingelaere et al **Common errors during construction of new buildings and effect of workmanship**
- P. Fausti **Introduction to the second part of the poster session**

coffee break

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- R. Di Giulio, R. P. Borg **Typological and technological aspects of existing suburban buildings in different European countries, with the aim to use these data for acoustical purposes (Cost Action TU 0701)**
- E. Gerretsen et al **Timber based lightweight buildings - Current status and main interfaces with Action TU 0901 (Cost Action FP 0702)**
- S. Smith **Summary and coordination of the debate**

**Debate**

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## Registration fees

<b>For the AIA/GAE Convention and the EAA – COST Symposium (2 days: Dec. 13<sup>th</sup> +14<sup>th</sup>)</b>			
	<u>Until</u> Nov. 13th 2010	Nov. 13 <sup>th</sup> to 8 <sup>th</sup> Dec.	<u>After</u> Dec. 8th and on site
Soci effettivi (only) AIA	<b>€ 150 VAT exempt</b>	<b>€ 180 VAT exempt</b>	<b>€ 210 VAT exempt</b>
AIA/ EAA members	<b>€ 150 + VAT</b>	<b>€ 180 + VAT</b>	<b>€ 210 + VAT</b>
NON members	<b>€ 200 + VAT</b>	<b>€ 230 + VAT</b>	<b>€ 260 + VAT</b>
Students	<b>€ 80 + VAT</b>	<b>€ 100 + VAT</b>	<b>€ 120 + VAT</b>
Cost TU0901members	Rules of TU0901 <b>+ € 50 + VAT</b>	Rules of TU0901 <b>+ € 70 + VAT</b>	Rules of TU0901 <b>+ € 90 + VAT</b>

<b>For the AIA/GAE Convention (1 day: Dec. 13<sup>th</sup>)</b>			
	<u>Until</u> Nov. 13th 2010	Nov. 13 <sup>th</sup> to 8 <sup>th</sup> Dec.	<u>After</u> Dec. 8th and on site
Soci effettivi (only) AIA	<b>€ 100 VAT exempt</b>	<b>€ 130 VAT exempt</b>	<b>€ 160 VAT exempt</b>
AIA/ EAA members	<b>€ 100 + VAT</b>	<b>€ 130 + VAT</b>	<b>€ 160 + VAT</b>
NON members	<b>€ 150 + VAT</b>	<b>€ 180 + VAT</b>	<b>€ 210 + VAT</b>
Students	<b>€ 50 + VAT</b>	<b>€ 70 + VAT</b>	<b>€ 90 + VAT</b>

<b>For the EAA – COST Symposium (1 day: Dec. 14<sup>th</sup>)</b>			
	<u>Until</u> Nov. 13th 2010	Nov. 13 <sup>th</sup> to 8 <sup>th</sup> Dec.	<u>After</u> Dec. 8th and on site
Soci effettivi (only) AIA	<b>€ 100 VAT exempt</b>	<b>€ 130 VAT exempt</b>	<b>€ 160 VAT exempt</b>
AIA/ EAA members	<b>€ 100 + VAT</b>	<b>€ 130 + VAT</b>	<b>€ 160 + VAT</b>
NON members	<b>€ 150 + VAT</b>	<b>€ 180 + VAT</b>	<b>€ 210 + VAT</b>
Students	<b>€ 50 + VAT</b>	<b>€ 70 + VAT</b>	<b>€ 90 + VAT</b>
Cost TU0901members	Rules of TU0901 <b>+ € 0</b>	Rules of TU0901 <b>+ € 20 + VAT</b>	Rules of TU0901 <b>+ € 40 + VAT</b>

The registration fee includes: CD ROM with the proceedings of the Symposium, conference bag, coffee breaks and lunches.

The fees do not include Value Added Tax, which will be added to all prices, unless the participant is specifically exempt.

## Venues

The Symposium will be held in Florence, Italy, at the Auditorium of the University Campus of Novoli (Polo delle Scienze Sociali). With Google Earth search for “Pandette, Firenze”.

<http://www.polosociale.unifi.it/CMpro-v-p-91.html>

The Campus can be easily reached by bus from the central railway station, going towards Via Forlanini or Via Novoli (travel time 15-20 min, frequency 6-10 min).

The Campus is near A1 and A11 motorways, exit of Florence.

From **Florence airport** (called *Firenze Peretola* or *Amerigo Vespucci*) there are buses every 30 minutes, travel time 10 minutes to the Campus, 25 minutes to the central railway station.

Pisa airport is also convenient. The railway station is just inside the airport and there are trains to Florence every 30 minutes. Change in Pisa central station might be required. Travel time to central railway station of Florence is about 1 h and 30 min.

The MC and WGs meetings of the COST Action TU0901 will be held at the TAD Department, Via S.Niccolò 93, city centre, 15 min walk from Piazza Duomo, 10 min from Ponte Vecchio.

## Organising associations and institutions

Building Acoustics Group (GAE) of the Italian Acoustics Association (AIA)

Technical Committee Room and Building Acoustics (EAA TCRBA) of the European Acoustics Association (EAA)

COST Action TU0901: Integrating and Harmonizing Sound Insulation Aspects in Sustainable Urban Housing Constructions

Department of Architectural Technology and Design (TAD) of the University of Florence

## Chairmen of the event

Patrizio Fausti (chairman EAA TCRBA )

Simone Secchi (chairman GAE AIA)

## Italian Convention Technical-Scientific Committee

Matteo Borghi, Gianfranco Cellai, Folco De Polzer, Antonino Di Bella, Giuseppe Elia, Patrizio Fausti, Antonio Iannotti, Claudio Martorana, Alessandro Peretti, Giorgio Raffellini, Luciano Rocco, Fabio Scamoni, Simone Secchi, Giovanni Semprini

## European Symposium Technical-Scientific Committee

Susanne Bron -Van Der Jagt, Patrizio Fausti, Eddy Gerretsen, Valtteri Hongisto, Bart Ingelaere, María Machimbarrena, Luigi Maffei, Birgit Rasmussen, Monika Rychtáriková, Simone Secchi, Christian Simmons, Sean Smith, Michael Vorländer

## Local organising committee

Lucia Busa, Gianfranco Cellai, Sergio Luzzi, Elisa Nannipieri, Carlotta Passerini, Giorgio Sacchi, Simone Secchi

## Administrative Secretariat

Francesca Pedrielli (Treasurer of the AIA)

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