

INVITATION

LESSLOSS - European Integrated Project on Risk Mitigation for Earthquakes and Landslides
Training Workshop 2:

In-situ Assessment, Monitoring and Typification of Buildings and Infrastructure

June 14th and 15th, 2007

arsenal research
TECHbase Vienna,
Giefinggasse 2, 1210 Vienna, Austria

organized by LESSLOSS Sub - Project 5 (SP 5)

Project Partners: arsenal research GmbH, Austria (Sub Project Coordinator) - ar, CESI Spa, Italy, Laboratório Nacional de Engenharia Civil, Portugal - LNEC, Rheinisch-Westfälische Technische Hochschule Aachen, Germany - RWTH, VCE Holding GmbH, Austria - VCE

Further Contributor:

National Seismic Survey, Civil Protection Department, Italy

Target groups:

Scientific/technical communities; Public administration (Commission, national, regional); Civil protection agencies; owners of structures, planners.

Fee:

Will depend on allowable contribution from project funds. A fee will probably be necessary to cover costs for lunch, dinner, etc.

Workshop Technical Description:

LESSLOSS SP5 focuses on innovative methods for the assessment of the earthquake resistance of important existing structures (e.g. importance class IV and III according to EN1998-1, etc.). The basic idea is to integrate experimental tools into the assessment procedures. The most important goal of the workshop will be the promotion of the SP5 techniques. It is also intended to increase the sensitivity of responsible authorities and the public to seismic risks for important existing structures.

One of the most important milestones is the elaboration of the European Manual for in-situ Assessment of the Earthquake Resistance of Important Existing Structures, which consists of two parts:

PART I: TRAINING for the education of the future "assessors"

PART II: PRACTICAL APPLICATION, which will describe all necessary steps of assessment procedures.

We will also have to train people, who are no specialists in the fields Structural Dynamics and Earthquake Engineering (SD&EE). Thus the Manual shall provide the information and background knowledge enabling a "non-seismic" engineer to learn and apply the methods. The Manual in its actual version will be the main handout to the participants. The focus of the workshop will be on the practical demonstration of case studies. Further, we will present the highlights from both parts of the Manual.

Thursday, June 14th, 2007

09:00	Opening	
09:15	Scope of the Manual	ar
09:45	Scope and Aims of Earthquake Engineering	RWTH
10:15	Numerical analysis	CESI
10:45	Coffee Break	
11:15	Dynamic fields tests Practical Part I	VCE
11:45	Dynamic fields tests Practical Part II	VCE
12:15	Practical demonstration of analysis methods (signal processing)	LNEC
12:45	Lunch Break	
13:45	Combination of field tests and numerical analysis	ar
14:15	Seismic vulnerability assessment of existing structures - general	CESI
14:45	Seismic vulnerability assessment of existing structures - application	CESI
15:15	Coffee Break	
15:45	Pre - earthquake assessment - weak point determination - general	ar
16:15	Pre - earthquake assessment - weak point determination - steel	RWTH
16:45	Permanent Monitoring	VCE
19:00	Dinner	

TENTATIVE PROGRAMME

Friday, June 15th, 2007

09:00	Pre and post earthquake assessment	Protezione Civile
09:30	Application of existing codes and regulations	RWTH
10:00	Selection of the appropriate Assessment Level	VCE
10:30	Coffee Break	
11:00	Case Study 1	ar
11:20	Case Study 2	CESI
11:40	Case Study 3	RWTH
12:00	Case Study 4	LNEC
12:20	Case Study 5	VCE
12:40	Lunch Break	
13:40	Practical training in groups, part I	
15:00	Coffee Break	
15:30	Practical training in groups, part II	
16:50	Closure	



CONTACT, DETAILS & REGISTRATION

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