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 not 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

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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