

Coordination

- Eng.^a Ema Coelho – LNEC (Laboratório Nacional de Engenharia Civil), Portugal
- Dr.^a Luísa Sousa – LNEC (Laboratório Nacional de Engenharia Civil), Portugal
- Prof. Luís Guerreiro – IST (Instituto Superior Técnico), Portugal
- Prof. Mário Lopes – IST (Instituto Superior Técnico), Portugal

The speakers are affiliated to the following institutions

SP7

- ACCIONA** Spain
CIMNE Centre Internacional de Metodes Numérics en Enginyeria, Spain
IST Instituto Superior Técnico, Portugal
ITU Istanbul Technical University, Turkey
METU Middle East Technical University, Turkey
UBRIS University of Bristol, United Kingdom
ULIEGE Université de Liège, Belgium

SP10

- AUTH** Aristotle University of Thessaloniki, Greece
INGV Istituto Nazionale di Geofisica e Vulcanologia, Italy
KOERI Kandilli Observatory and Earthquake Research Institute, Bogazici University, Turkey

LNEC Laboratório Nacional de Engenharia Civil, Portugal

MUNICHRE Munich Reinsurance Company, Germany

UCAM University of Cambridge, United Kingdom

USUR University of Surrey, United Kingdom

SP13

JRC Joint Research Centre, Italy

CML Câmara Municipal de Lisboa, Portugal

Sponsors

SPES Sociedade Portuguesa de Engenharia Sísmica, Portugal

OE Ordem dos Engenheiros, Portugal

RPEE Revista Portuguesa de Engenharia de Estruturas, Portugal

Registration

	1 Module	2 Modules
	75€	100 €
Student	40 €	60 €

The registration includes, optionally, one or two training modules, technical documentation, coffee break and participation certificate. The price is tax free.

To register please fulfill the form bellow and send it by mail, fax or e-mail to the secretariat address. If you chose to register in a single module please specify if you choose Module 1 (May, 24th) or Module 2 (May, 25th). The registration is valid after payment confirmation. Payment can be done by bank transfer to IBAN: PT50 0781 0112 00000006839 21 - D. G. Tesouro.

Secretariat and information

Laboratório Nacional de Engenharia Civil
DIEAG - Apoio à Organização de Reuniões
Av. do Brasil, 101-1700-066 Lisbon
Phone.: (+351) 21 844 34 83 Fax: (+351) 21 844 30 14
e-mail: formacao@lnec.pt



LABORATÓRIO NACIONAL
DE ENGENHARIA CIVIL



Priority 1.1.6.3
Global Change
and Ecosystems

lessloss

European Integrated Project on Risk
Mitigation for Earthquakes and Landslides

<http://www.lessloss.org>

Workshops 3-1 and 5-1 of sub-projects SP7 and SP10
of LESSLOSS project

Training Course on Earthquake loss modelling,
techniques for vulnerability reduction and seismic
risk mitigation

Lisbon, LNEC, 2007, May 24th and 25th

Additional information on the course and LESSLOSS project may be obtained at
<http://www-ext.lnec.pt/LNEC/DE/NESDE/welcome.html>



Justification

The project LESSLOSS - Risk Mitigation for Earthquakes and Landslides - is a European integrated project developed within the Sixth Framework Programme of the European Commission.

In the framework of the LESSLOSS project the Laboratório Nacional de Engenharia Civil (LNEC) and Instituto Superior Técnico (IST) are organizing two Workshops and a Training Course on Earthquake loss modelling, techniques for vulnerability reduction and seismic risk mitigation.

These workshops and training course intend to promote and disseminate the developments and techniques obtained in the following LESSLOSS sub-projects.

- SP7, Techniques and methods for vulnerability reduction, that aims to establish techniques and methods for seismic vulnerability reduction of structures.
- SP10, Earthquake disaster scenario predictions and loss modelling for urban areas, which main objectives are (i) to establish a methodology to evaluate losses due to earthquakes in urban areas, developing GIS based automatic modelling capabilities (ii) to identify strategies for mitigation of seismic risk in European cities, where Lisbon, Istanbul in Turkey and Thessaloniki, in Greece, were chosen as case studies.

Objectives

The Workshops and Training Course aim at:

- Increase the awareness of Portuguese technical community and urban authorities regarding the dimension of the seismic risk problem in Portugal.
- Disseminate the procedures and techniques developed in LESSLOSS project.

The Workshops and Training Course will provide the participants with a comprehensive overview of earthquake ground motion scenarios models and uncertainties, earthquake loss modeling, techniques and methods for seismic vulnerability evaluation and reduction, seismic risk evaluation and management.

Module 2 participants will have the opportunity to join a practical exercise aiming to introduce the software tools developed in LESSLOSS, that intend to:

- Model losses due to earthquakes
- Analyze the advantages of reducing the vulnerability of the housing stock
- To support decisions on seismic risk mitigation

Participants

The Workshops and Training Course is wide open to all scientific and technical community, especially to those who are involved in activities related to civil protection, earthquake engineering and risk mitigation.

Program

May 24th - Module 1

9:00-9:15	The LESSLOSS Project, training and dissemination activities - JRC, Italy
9:10-9:50	Assessment of existing buildings by a rapid screening method - ITU-METU, Turkey.
9:50-10:30	Seismic upgrading of structures using conventional methods - ITU-METU, Turkey.
10:30-10:50	Coffee break
10:50-11:30	Guidelines for the application of FRP retrofitting - ACCIONA, Spain.
11:30-12:10	Design of FRP reinforcement of masonry infill walls against transverse displacements - UBRIS, United Kingdom.
12:10-14:00	Lunch
14:00-14:40	Analysis of precast RC structures with dissipative connections - ULIEGE, Belgium.
14:40-15:20	Analysis of hammering problems - ULIEGE, Belgium.
15:20-15:40	Coffee break
15:40-16:20	Displacement Based Design models for base isolated historical buildings - IST, Portugal
16:20-17:00	Methodology for seismic analysis of underground structures in soft soils - IST, Portugal.
17:00-17:30	Poster session

May 25th - Module 2

9:00-9:15	The LESSLOSS Project, training and dissemination activities - JRC, Italy
9:15-12:30	1st Part - Seismic Scenarios and loss modelling
9:15-9:45	Simulating earthquake scenarios in the european project LESSLOSS: the case of the Metropolitan Area of Lisbon (MAL) - INGV, Italy and LNEC, Portugal
9:45-10:15	Earthquake loss modeling and seismic risk evaluation, LNEC, Portugal
10:15-10:45	Modeling earthquake scenarios and uncertainty factors- IST, Portugal
10:45-11:15	Estimation of earthquake casualties - University of the Cambridge
11:15-11:30	Coffee break
11:30-12:00	Mitigating vulnerability and seismic risk - Application to the Metropolitan area of Lisbon (MAL) - LNEC, Portugal
12:00-12:30	Earthquake Scenarios for Istanbul - KOERI, Turkey
14:00-15:00	2nd Part - Seismic Vulnerability of structures
14:00-14:30	Seismic vulnerability of buildings - LNEC, Portugal
14:30-15:00	Seismic rehabilitation of structures - LNEC, Portugal
15:00-16:30	3rd Part - Management of seismic risk
15:00-15:30	Seismic risk and emergency planning - CML, Portugal
15:30-16:30	Practical exercise on seismic risk mitigation - LNEC, Portugal
16:30	Coffee break

registration sheet



Workshops 3-1 and 5-1 of sub-projects SP7 and SP10 of LESSLOSS project
Training Course on Earthquake loss modelling, techniques for vulnerability reduction and seismic risk mitigation.

name

company / organisation

address

city zip or postal code e-mail

phone fax

Module 1 and 2 Module 1 Module 2 student (include copy of student comprovativo)

payment by bank transfer (from Portugal)

name to be present in the receipt VAT number

para a conta com o IBAN: PT50 0781 0112 00000006839 21 - D. C. Tesouro (juntar cópia do talão comprovativo)