Analysis and Mitigation of Risks in Infrastructures INFRARISK-

5th Summer School Workshop University of Minho, Guimarães, 15th July 2019

Location: Building 11 - Lecture Hall 003

Programme

9.00 Opening Session

> António Gomes Correia Head of Doctoral Programmel, UMinho

Director of the Doctoral Programme INFRARISK-

Desmond Hartford

Member of the Evaluation Committee

Atilla Ansal

Member of the Evaluation Committee

Chairpersons: Rita Bento, António A. Correia

Mitigating earthquake vulnerability of mixed URM-RC buildings at

Gonçalo Lopes (2nd year)

Supervision: Romeu Vicente (U Minho), Miguel Azenha (U Minho), Tiago M.

Probabilistic seismic risk assessment of "Placa" buildings: Selection of Building Stock Geometry and Properties

Vasco Bernardo (2nd year)

Supervision: Paulo Candeias (LNEC), Aníbal Costa (U Aveiro)

Development of aluminium alloy hysteretic damping system:

Ricardo Ferreira (2nd year)

Supervision: Jorge Proença (IST), António Gago (IST)

Numerical modelling of URM buildings with timber diaphragms

Maria Pia Ciocci (3rd year)

Supervision: Paulo B. Lourenço (U Minho), Rui Marques (U Minho)

A Scoping Study for the assessment of Historical Centres

Rui Maio (4th year)

Supervision: Romeu Vicente (U Aveiro), Sergio Lagomarsino (U Genova), Tiago M. Ferreira (U Minho)

Chairpersons: Romeu Vicente, Tiago M. Ferreira

Experimental testing in support of a seismic risk assessment

Gidewon Tekeste (4th year)

Supervision: António A. Correia (LNEC), Aníbal G. Costa (U Aveiro)

Cost function review in seismic risk mitigation

Sanam Moghimi (4th year)

Supervision: Alexandra Carvalho (LNEC), Paulo B. Lourenço (U Minho)

Seismic retrofit options for an old RC wall-frame building in Lisbon:

Claudia Caruso (4th year)

Supervision: Rita Bento (IST), Miguel Castro (FEUP)

Multi-objective optimization of irregular RC bridge infrastructures based on evolutionary algorithms

Vitor Camacho (4th year)

Supervision: Mário Lopes (IST), Carlos Sousa Oliveira (IST)

Robustness of multi-story timber buildings in seismic regions

Leonardo Rodrigues

Former supervision team: Jorge Branco (U Minho), Luís Neves (U Nottingham)

14:30 Kevnote Lecture

Chairpersons: Carlos Sousa Oliveira, Paulo Lourenço

in Portugal during the last 150 years

José Luís Zêzere (Invited Speaker)

Research Project Presentations – Hydrological Engineering

Chairpersons: Carlos Sousa Oliveira, Paulo Lourenço

Ana Margarida Bento (3rd year)

Supervision: Teresa Viseu (LNEC), João Pêgo (FEUP), Lúcia Couto (LNEC)

Bruno Oliveira (4th year)

Supervision: Rodrigo Maia (FEUP), Francesco Ballio (Politecnico di Milano)

Advances on risk and reliability analysis of coastal, maritime and

Tiago Ferradosa

Former supervision team: Francisco Taveira Pinto (FEUP), Luciana Neves (FEUP), Teresa Reis (LNEC)

14:30

Research Project Presentations – Infrastructures & Geotechnics

Chairpersons: Rita Bento, Xavier Romão

Experimental investigation of embankment failure by overtopping

Teresa Alvarez (3rd year)

Supervision: Rui Ferreira (IST), Teresa Viseu (LNEC)

Capacity assessment of a high-voltage lattice tower under different loading patterns

Fábio Paiva (3rd year)

Supervision: Luís Guerreiro (IST), Rui Carneiro de Barros (FEUP)

Risk management applied to cultural heritage buildings: The effect of soil settlements and vibrations induced by underground

Georgios Karanikoloudis (4th year)

Supervision: Paulo B. Lourenço (Ú Minho), João Bilé Serra (LNEC)

Risk analysis of bridges using a new reliability-based robustness

Hugo Guimarães (5th year)

Supervision: José Campos e Matos (U Minho), Dan Frangopol (U Lehigh),

António Abel Henriques (FEUP)

18:10 Discussion: Board of Studies and Researchers/Scholars

Carlos Sousa Oliveira

Members of the INFRARISK-, Board of Studies

Desmond Hartford

Principal Engineering Scientist, BC Hydro, Vancouver, Canada

Member of the Evaluation Committee















