Program

8:30 Opening Session
Prof. António Heléno Cardoso
Head of DE.CIVIL
Belfort
Dr. Rita Bento
Director of the Doctoral Programme INFRARISK
Dr. Desmond Hartford
Member of the Evaluation Committee
Dr. Sébastien Proust
Member of the Evaluation Committee

8:50 Inviting Lecture
Chairpersons: Prof. Rita Bento, Dr. António A. Correia
The Global RAPid post-disaster Damage Estimation (GRADE)
Approach: Infrastructure and Sectoral Loss Estimates in a fast-paced world
Dr. James Daniell (Invited Speaker)

9:10 Research Project Presentations – Earthquake Engineering
Chairpersons: Prof. Rita Bento, Dr. António A. Correia
Evaluation of the angle of seismic incidence effect on the collapse risk of RC buildings
Despoina Skoulidou (4th year)
Supervision: Xavier Romão (FEUP)
Experimental Tests & Numerical Modeling of Cross-Laminated Timber Diaphragms
Leonardo Rodrigues (4th year)
Supervision: Jorge Branco (U Minho), Luís Neves (U Nottingham)
Seismic risk assessment of “Placa” buildings. Cost-effectiveness analysis of techniques for risk mitigation
Vasco Bernardo (1st year)
Supervision: Paulo Candeias (LNEC), Aníbal Costa (U Aveiro)
Mitigating earthquake vulnerability of mixed URM-RC buildings on the urban scale
Gonçalo Lopes (1st year)
Supervision: Romeu Vicente (U Minho), Miguel Azenha (U Minho)
Development of BRD_AL Prototype: Development of an aluminium alloy hysteretic damping system for seismic retrofitting of pre-casted reinforced concrete buildings
Ricardo Ferreira (1st year)
Supervision: Jorge Prenca (IST), António Gago (IST)
Seismic Loss Estimation and Strengthening of an old RC building in Lisbon
Claudia Caruso (3rd year)
Supervision: Rita Bento (IST), Miguel Castro (FEUP)

10:40 Coffee break

11:00 Research Project Presentations – Earthquake Engineering
Chairpersons: Prof. Romeu Vicente, Prof. Xavier Romão
Optimization methodology for the design of reinforced concrete bridge infrastructures based on evolutionary algorithms
Vítor Camacho (3rd year)
Supervision: Mário Lopes (IST), Carlos Sousa Oliveira (IST)
Seismic risk of PreCode RC buildings retrofitted with Jacketing
Sanam Moghim (3rd year)
Supervision: Alexandra Carvalho (LNEC), Paulo B. Lourenço (U Minho)
Development and validation of an experimental platform for hybrid simulation and uncertainty quantification
Gidewon Tekeste (3rd year)
Supervision: António A. Correia (LNEC), Aníbal G. Costa (LNEC)
Economic prospects of rehabilitation of UCH assets in Portugal: repair cost functions and cost-benefit analysis
Rui Maia (3rd year)
Supervision: Romeu Vicente (U Aveiro), Sergio Lagomarino (U Genova)

12:30 Lunch break

14:00 Keynote Lecture
Chairpersons: Prof. Carlos Sousa Oliveira, Prof. Laura Caldeira
The hydraulic modelling of extreme flood events
Dr. Sébastien Proust (Invited Speaker)

14:45 Research Project Presentations – Hydrological Engineering
Chairpersons: Prof. Carlos Sousa Oliveira, Prof. Laura Caldeira
CEIRA: GIS-based assessment on coastal erosion risk
Pedro Naro (4th year)
Supervision: Carlos Coelho (U Aveiro), Francisco da Ponte Sanches (LNEC)
The Joy of Reliable Scour Protections – a PhD survival guide
Tiago Ferradás (4th year)
Supervision: Francisco Taveira Pinto (FEUP), Luciana Neves (FEUP), Teresa Vieu (LNEC)
Sensitivity Analysis and Probability Density of Bed Morphodynamics
Bruno Oliveira (3rd year)
Supervision: Rodolfo Maia (FEUP), Francesco Ballio (Politecnico di Milano)
Risk-Based Analysis of Bridge Scour Prediction with Live Bed Conditions - 2nd year
Ana Margarida Bento (2nd year)
Supervision: Teresa Vieu (LNEC), João Petga (FEUP)

15:45 Coffee break

16:00 Research Project Presentations – Geotechnics
Chairpersons: Prof. Paulo Lourenço, Prof. Humberto Varum
Experimental investigation and numerical modelling of embankment failure by overtopping
Teresa Alvarez (2nd year)
Supervision: Rui Ferreira (IST), Teresa Vieu (LNEC)
Multi-hazard assessment for the safety management of embankment dams
Gonçalo Faustino (1st year)
Supervision: Laura Caldeira (LNEC), João Bilé Serra (LNEC), Teresa Bocas Freitas (IST)
Risk analysis of bridges using a new reliability-based robustness assessment methodology
Hugo Guilmarães (4th year)
Supervision: José Campos e Matos (U Minho), Dan Frangopol (U Lehigh), António Abel Henrique (FEUP)
Fatigue loading in historic brick masonry under moderate stress levels. Experimentally based investigations and monitoring strategies
Georgris Karamikoudis (3rd year)
Supervision: Paulo B. Lourenço (U Minho), João Bilé Serra (LNEC)
Dynamic Structural Health Monitoring of an Overhead Power Line using interferometric Radar
Fábio Pávia (2nd year)
Supervision: Luís Guerreiro (IST), Rui Camarelo de Barros (FEUP)
Discussion: Board of Studies and Researchers/Scholars

Closing Session
Prof. Carlos Sousa Oliveira
Members of the INFRARISK – Board of Studies
Dr. Desmond Hartford
Principal Engineering Scientist, BC Hydro, Vancouver, Canada
Dr. Sébastien Proust
Member of the Evaluation Committee