COST C26: Urban Habitat Constructions under Catastrophic Events
WG2: Earthquake resistance

Worksop, Prague, 30-31 March , 2007

WG 2 Earthquake Resistance Session

INTRODUCTION

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WG2: Earthquake resistance
Research directions

1. **Characterization and modeling of seismic action**

2. **Influence of seismic motion typology on the structural response**

3. **Innovative materials and technologies for existing and new buildings in seismic areas**

4. **Seismic protection and retrofit of existing buildings: study cases**

SESSION CONTENTS

Keynote Lecture on Topic 1 –

Seismic vulnerability and risk assessment of urban habitat in Southern European cities **- by *Prof. A. KAPPOS***

General Report on Topic2 –

Typology of seismic motion and seismic engineering design –
by *E. Mistakidis et al.*

General Report on Topic 3 –

Innovative materials and technologies for existing and new buildings in seismic areas **- by Prof. A. Mandara ,**
2nd Univ. of Naples

Keynote lecture on Topic 4 –

Experimental and numerical investigations on the Mustafa Pasha Mosque large scale model **- by *L. Krstevska, R. Landolfo et al.***

SESSION CONTENTS

Contributions

High strength steel for seismic resistant building frames

(D. Dubina, F. Dinu, V. Ungureanu, R. Zaharia & D. Grecea)- T3

Seismic design of cold-formed steel housing: a case study

(O. Iuorio, R. Landolfo , L. Fiorino) - T3/T4

Strengthening of masonry walls by innovative metal based techniques

(A. Dogariu, A. Stratan, D. Dubina, T. Nagy-Gyorgy, C. Daescu, V. Stoian)- T3

Seismic upgrade of non-seismic r.c. frames using steel dissipative braces

(S. Bordea, A. Stratan, A. Dogariu, D. Dubina)- T3

Experimental tests on seismic upgrading techniques for RC buildings

(F. M. Mazzolani, G. Della Corte, E. Barecchia, M. D'Aniello) - T3

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