DEADLINES

Submission of abstracts	30 January 2010
Acceptance of abstracts	20 February 2010
Submission of papers	15 April 2010
Acceptance of papers	15 May 2010
Registration	30 June 2010

REGISTRATION FEES

The registration fees includes coffee breaks, lunches, the Conference banquet, the Proceeding Volume and the Final Report Volume of COST C26 Action.

	before 30 June	after
Non COST members	450 €	550 €

CONFERENCE VENUE

Naples is located in the middle of the homonymous gulf, between Vesuvius and the Phlegraean volcanic area, in a scenery considered one of the most celebrated and charming of the World.
The metropolitan area of Naples is one of the most densely populated zones of Europe with around three million inhabitants.
Its historical centre has been declared as World Heritage Site by UNESCO, thanks to its great architectural and monumental value. Naples is a city of sea and sun, where its cultural and artistic identities are expressed through a huge number of museums, castles, churches and archaeological sites, as Pompeii, Herculaneum, Oplontis, Cumae and Baiae).

The University of Naples *Federico II* is one of the most ancient institutions of high education and research in the World, being founded by the emperor of the Holy Roman Empire Frederick II on 5 June 1224. It is organized into 13 faculties (Agriculture, Architecture, Biotechnology sciences, Economics, Engineering, Humanities and philosophy, Law, Mathematical, physical and natural sciences, Medicine, Pharmacy, Politics, Social sciences and Veterinary medicine), with about 100 000 students.

Venue Address:
Conference Centre FEDERICO II
Via Partenope, 36. Naples, Italy.

SCIENTIFIC SECRETARIAT AND INFORMATION

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University of Naples "Federico II"
Department of Structural Engineering

INTERNATIONAL CONFERENCE

URBAN HABITAT CONSTRUCTIONS UNDER CATASTROPHIC EVENTS

COST ACTION C26

Naples, 16-18 September 2010

http://www.civ.uth.gr/cost-c26

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EUROPEAN SCIENCE FOUNDATION

INTRODUCTION

The *objectives* of the Conference are:

- To increase the knowledge on the behaviour of constructions located in urban habitats and subjected to exceptional and catastrophic events.
- To present suitable tools for predicting the ultimate response of such constructions under extreme conditions, occurring when both loading and structural resistance are combined in such a way to reduce the safety level below acceptable values.
- To characterise the performance of structures under extreme loading conditions.
- To analyse the consequences of catastrophic events occurring in a given region, with regard to life safety and economic losses due to direct damage.
- To propose ad-hoc solutions for the damage prevention as well as for the repairing of constructions hit by extreme actions during catastrophic events.

COST C26 PARTICIPATING COUNTRIES

- AUSTRIA
- BELGIUM
- CYPRUS
- CZECH REPUBLIC
- FINLAND
- fYRo MACEDONIA
- FRANCE
- GERMANY
- GREECE
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- NETHERLANDS
- POLAND
- PORTUGAL
- ROMANIA
- SLOVENIA
- SPAIN
- SWEDEN
- SWITZERLAND
- TURKEY
- UNITED KINGDOM

SYMPOSIUM TOPICS

Characterization of catastrophic actions on constructions

- Fire analyses
- Characterization and modelling of seismic action
- Modelling of impact
- Modelling of explosion
- Actions due to volcanic eruptions
- Actions due to other natural catastrophes

Analysis of behaviour of constructions under catastrophic events

- Analyses of structures under fire
- Evaluation of structural response under exceptional seismic actions
- Analysis of structures under impact and explosion
- Consequences of volcanic eruptions on constructions
- Consequences of other natural disasters on constructions

Evaluation of vulnerability of constructions

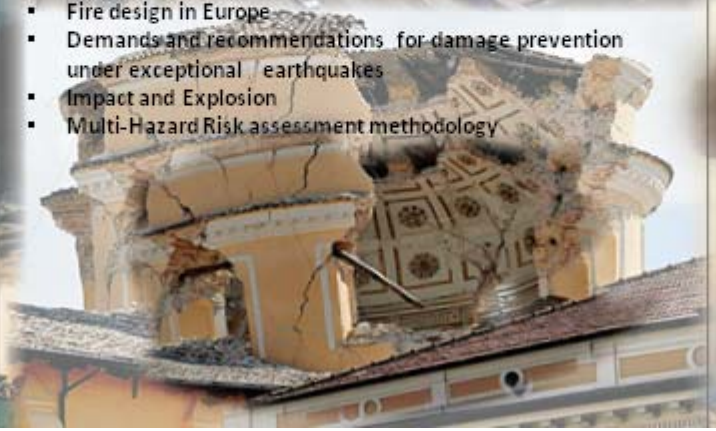
- Vulnerability of existing buildings under fire
- Performance based evaluation and seismic risk analysis
- Vulnerability and damageability of structures under impact and explosion
- Performance assessment under multiple hazards

Protecting, strengthening and repairing

- Fire damaged structures
- Innovative seismic protection technologies and study cases
- Protection of structures against impact and explosion
- Mitigation options for natural hazards, with a special focus on volcanic eruptions

Strategy and guidelines for damage prevention

- Fire design in Europe
- Demands and recommendations for damage prevention under exceptional earthquakes
- Impact and Explosion
- Multi-Hazard Risk assessment methodology



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SYMPOSIUM SCHEDULE

	SEPTEMBER 16	SEPTEMBER 17	SEPTEMBER 18
MORNING SESSION	Welcoming addresses Keynotes	Analysis of behaviour of constructions	Protecting, strengthening and repairing
AFTERNOON SESSION	Characterization of catastrophic actions	Evaluation of vulnerability of constructions	Guidelines for damage prevention

KEYNOTE LECTURES

prof.	Guo Qiang LI	(Tongji University, China)
prof.	Venkatesh KODUR	(Michigan State University, USA)
prof.	Gustavo AYALA	(UNAM, Mexico)
dr.	Frederick HULTON	(MFD International)
dr.	Colin MORISON	(TPS Consult, London, UK)
prof.	Jean Claude THOURET	(Université Blaise-Pascal, France)