

IMPORTANT DATES

Submission of Abstracts

31 December 2010

Preliminary Acceptance

31 January 2011

Submission of Full Papers

31 May 2011

Final Acceptance

31 July 2011

LANGUAGE

English will be the official language for both oral and printed contributions.

PROCEEDINGS

All accepted papers will be presented during the working sessions. The proceedings will be distributed at the registration desk at the beginning of the Conference.

Oral presentation is required for the publication of a paper in the Proceedings.

Submission of Abstracts

The abstracts will be submitted electronically through the website:

<http://www.ingcivil.uchile.cl/stessa2012>

Information

For general information please contact the following e-mail address:

stessa2012@ing.uchile.cl



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University of Chile

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Beatrice Faggiano

University of Naples "Federico II," Italy

Behaviour of Steel Structures in Seismic Areas

SEVENTH INTERNATIONAL CONFERENCE

SANTIAGO DE CHILE, CHILE

9-11 JANUARY, 2012

Organized by:

UNIVERSITY OF CHILE

Santiago, Chile

UNIVERSITY OF NAPLES "FEDERICO II"

Naples, Italy

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Introduction

The Organizing Committee is pleased to announce STESSA 2012, the seventh edition of this Specialty Conference. The Conference, as in the past, is devoted to the behaviour of steel structures in seismic areas. Santiago (Chile) has been selected as the venue of the Conference. It will be the first time that the Conference is held in South America. Previous editions of the Conference were held in Timisoara (Romania 1994), Kyoto (Japan 1997), Montreal (Canada 2000), Naples (Italy 2003), Yokohama (Japan 2006), and Philadelphia (USA, 2009). About 200 participants from 28 countries took part in the last edition of the Conference in Philadelphia.

Objectives

Steel structures designed and constructed according to modern practice can be expected to meet the performance objective of life safety under severe seismic loading. Current research focuses on minimizing earthquake-induced damage to new steel structures to reduce social and economic disruption from future earthquakes. New topics like retrofit of old structures and understanding the collapse behaviour of steel structures under extreme seismic loading are dealt with. At the same time, a new generation of large-scale laboratory facilities for simulating earthquake effects on structures has been commissioned, enabling realistic simulations that were not possible in the past. To reflect these current trends, the STESSA 2012 conference objectives are to disseminate research in the following general areas: minimizing earthquake-induced structural and non-structural damage to new steel structures; retrofit to improve the seismic performance of existing, critical structures; understanding the collapse behaviour of steel structures under extreme seismic loading; and utilizing advanced laboratory facilities to understand and improve the seismic performance of steel structures.

Scope

The STESSA 2012 Conference will enable researchers and practitioners to present and assess the results from recent research on minimization of the earthquake damage, on seismic retrofit, and on the collapse behaviour of steel structures. In addition, numerous research projects on steel structures using recently-commissioned large-scale earthquake simulation facilities will be ready for dissemination.

Conference Venue

The Conference will be held in downtown Santiago (Chile) from 9 to 11 January 2012. Founded in 1541, the capital city of Chile is the gateway to the country's natural, architectural, and historical heritage.

Main Topics

1. Performance-Based Design of Structures
2. Seismic, Wind and Exceptional Loads
3. Material Behaviour
4. Member Behaviour
5. Connection Behaviour
6. Global Behaviour
7. Analytical and Experimental Methods
8. Mixed and Composite Structures
9. Passive, Semi-active, and Active Control
10. Strengthening, Repair, and Monitoring
11. Codification
12. Design, Fabrication, and Practice

For a more detailed description of the Main Topics, please visit the website at: <http://www.inqcivil.uchile.cl/stessa2012>

Format

The technical program of the Conference will consist of working sessions introduced by the Chairman and the General Reporters, followed by oral presentations and open Discussion.

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