

CALL FOR PAPERS
Submission of Abstracts
The abstracts will be submitted electronically through the website:
www.scnz.org/STESSA18

Keynote Speakers

Mr. Stephen Hogg - Aurecon Christchurch
Prof. Charles Clifton - University of Auckland
Prof. Guo-Qiang Li - Tongji University
Prof. Raffaele Landolfo - University of Naples "Federico II"
Prof. Robert Tremblay - Ecole Polytechnique of Montreal
Prof. Steve Mahin - University of California Berkeley
Prof. Toru Takeuchi - Tokyo Institute of Technology

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Antonio Formisano, University of Naples "Federico II"

Conference Secretariat

Rebecca Symonds, Steel Construction New Zealand



CONFERENCE INFORMATION

IMPORTANT DATES

30 Mar 2017 **Deadline for Submission of Abstracts**
30 May 2017 **Preliminary Acceptance**
30 Aug 2017 **Deadline for Submission of Full Papers**
15 Nov 2017 **Final Acceptance**

CONFERENCE WEBSITE

<http://www.scnz.org/STESSA18>

PROCEEDINGS

All accepted papers, both oral and poster sessions, will be included in the proceedings. The proceedings will be distributed at the registration desk at the beginning of the Conference.

LANGUAGE

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

CONTACT INFORMATION

For general information please contact the following email address: stessa2018@scnz.org

STESSA '18

The 9th International Conference on the Behaviour of Steel Structures in Seismic Areas

14-17 February 2018
Christchurch, New Zealand

Organised by

Chairman

Federico M. Mazzolani, University of Naples

Co-Chairmen

Gregory MacRae, University of Canterbury

Charles Clifton, University of Auckland

STESSA '18

The 9th International Conference on Behaviour of Steel Structures in Seismic Areas
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Introduction

STESSA is the international specialty conference focused on steel structures in seismic regions. The STESSA Conference will enable researchers and practitioners involved with steel and steel-concrete composite structures to share information relating to existing structure assessment and retrofit, adequacy of current standards, development of new structures for improved seismic performance, and post-earthquake assessment and repair. Previous conferences were held in Timisoara (Romania 1994), Kyoto (Japan 1997), Montreal (Canada 2000), Naples (Italy 2003), Yokohama (Japan 2006), Philadelphia (United States 2009), Santiago (Chile 2012) and Shanghai (China, 2015).

At STESSA'15 about 300 participants from 25 countries participated. In all, 204 papers were presented and published in the Conference Proceedings. Following the successes of previous conferences, University of Canterbury has been selected to host the ninth STESSA Conference (STESSA '18) in Christchurch, February 2018.

Conference Venue

The conference will be held at the University of Canterbury, Christchurch, from 14th to 17th February 2018.

Christchurch is an ideal location for STESSA, with the city being significantly damaged in an earthquake series during 2010 and 2011. This led to much of the central business district being rebuilt. This rebuilding has replaced damaged reinforced concrete framed and shear wall buildings built during the second half of the 20th century with steel and composite framed composite floor buildings using a variety of conventional and low damage solutions. Participants will have the opportunity to see a wide range of steel construction types applied in a modern city.

Main Topics

- Advances in experimental testing
- Advances in numerical modelling
- Behaviour of materials, elements and systems
- Bridges
- Buckling restrained braces
- Case studies
- Codes, standards, design guides
- Field observations and interpretations
- Fabrication, construction, quality control
- Low damage solutions
- Mixed and composite structures
- Structural control systems
- Performance based design of structures
- Post earthquake assessment and repair
- Soil structure interaction effects
- Vulnerable structure assessment and retrofit

Format

The technical program of the Conference will consist of plenary sessions, oral sessions, posters and discussions.

Technical Tours

Following the technical sessions a local field trip will be provided to several key structures to showcase the application of innovative seismic designs. The tour will link directly with key research themes from the conference.

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