

# The International Colloquium on Stability and Ductility of Steel Structures – SDSS 2016

30 May – 01 June 2016, Timisoara, Romania

[www.ct.upt.ro/sdss2016.htm](http://www.ct.upt.ro/sdss2016.htm)

## *Second Announcement*



*Main building of PU Timisoara  
(the former Lloyd Palace)*

Organised by,

**Politehnica University of Timisoara**  
Department of Steel Structures and Structural Mechanics



in cooperation with



**Romanian Academy, Timisoara Branch**

## SCOPE AND OBJECTIVE

The series of International Colloquia on Stability and Ductility of Steel Structures have been supported by the Structural Stability Research Council (SSRC) for quite a long time and are intended to summarize the progress in theoretical, numerical and experimental research in the field of stability and ductility of steel and composite steel-concrete structures. Special emphasis is always given to new concepts and procedures concerning the analysis and design of steel structures and to the background, development and application of rules and recommendations either appearing in recently published Codes or Specifications or about to be included in their upcoming versions. This International Colloquium series started in 1972, in Paris, and their subsequent editions traveled in several different cities and countries, the last four being held in: Timisoara, Romania (1999), Budapest, Hungary (2002), Lisbon, Portugal (2006) and Rio de Janeiro, Brazil (2010).

In October 1982, the Department of Steel Structures and Structural Mechanics of Politehnica University of Timisoara has organized one of the East-European Session of the SSRC International Colloquium on Stability of Steel Structures. Since 1992, two series of worldwide recognised scientific events have started from Timisoara, i.e.: CIMS conferences dedicated to Coupled Instability in Steel Structures and, in 1994, the series of STESSA conferences dedicated to Steel Structures in Seismic Areas. Moreover, in 1999 the Department organized the SDSS conference, within the SSRC series dedicated to the Stability and Ductility of Steel Structures. The 6<sup>th</sup> edition of International Conference on Thin-walled Structures - ICTWS' 2011, was also organized in Timisoara, Romania, in 5-7 September 2011.

The 2016 edition of SDSS is jointly organized by the *Politehnica University of Timisoara, Department of Steel Structures and Structural Mechanics* in co-operation with *Romanian Academy, Timisoara Branch*, with the support of *European Convention of Constructional Steelwork (ECCS)*, through *Structural Stability Technical Committee (TC8)*, and by *SSRC*.

## COLLOQUIUM MAIN TOPICS

The topics to be addressed during the Colloquium include, among others:

- Advanced structural analysis
- Bridges and footbridges
- Cold-formed members
- Connections
- Cyclic and blast loading
- Damage repair and assessment of steel structures
- Design codes and standards
- Dynamic behavior and analysis
- Fatigue and fracture mechanics
- Fire engineering
- Frames
- High strength & stainless steel
- Innovative structural designs and applications
- Lightweight aluminium structures
- Lightweight fibre reinforced plastic composite structures
- Members' behavior: tension, compression, beams, beam-columns
- Off-shore structures
- Plate, shell and space structures
- Seismic-resistant structures
- Reliability and safety
- Robustness
- Ship structures
- Steel-concrete composite members and structures
- Thin-walled construction
- Trusses, towers and masts
- Tubular construction
- Vehicle structures

*Charming old Theresia fortress*



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U. Kuhlman	Germany	R. Ziemian	USA
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A. Dogariu, Romania	D. Pintea, Romania	R. Zaharia, Romania

## COLLOQUIUM VENUE AND ACCOMMODATION

The SDSS 2016 Colloquium will be held in Timisoara, within the *Politehnica* University area, in the very centre of the city. A list of hotels in the centre area of the city will be available soon.

## TECHNICAL SESSIONS

Based on 150 papers sent to peer-review, by authors from 28 countries on 6 continents, sent to SDSS 2016 Local Organising Committee, the Technical Sessions will be organised following the Conference topics and the subjects of the accepted papers.

## Keynote Lectures

According to the conference topics, outstanding experts in the field, from Asia, Australia and Europe have been invited to present Keynote Lectures in the opening of the Technical Sessions. They are presented in the following alphabetical list:

Professor Siu-Lai Chan, China

*Research, theory and practice of second order direct analysis for design of steel and composite structures*

Professor Ulrike Kuhlmann, Germany

*Further development of Eurocode 3. Design of steel structures – Improvements and harmonisation*

Professor Kim Rasmussen, Australia

*Structural stability and ductility of drive-in racks under seismic loading*

Professor Ioannis Vayas, Greece

*Models for stability analysis and design of steel and composite plate girders*

## FORMAT

The technical program of the Conference will consist in Plenary Sessions for Keynote Lectures and Working Sessions corresponding to the related topic, introduced by a Chairman.

## LANGUAGE

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



Victory Square

## PROCEEDINGS

The final acceptance of the papers will be based on their full version, following a peer review by members of the International Scientific Committee. The Proceedings will comprise a CD and a printed book with full-length papers. Keynote Lectures will be included in the volume. The task of producing the Proceedings has been assigned to Wiley-VCH Verlag GmbH & Co. The Proceedings will be available to all registered participants upon arrival at the Conference. All accepted papers will be presented during working sessions. Oral presentation is the unavoidable condition for the publication of a paper in the Proceedings. An accepted paper will be published in the SDSS 2016 Proceedings, if at least one of the authors registers and presents it within the Conference. It should be added that a participant is allowed to present no more than two papers at the SDSS 2016 Colloquium. The publication of a special issue in an international journal is also being considered - it would include full-length versions of selected papers presented at the Colloquium.

## KEY DATES

Abstract submission:	15 June 2015
Acceptance of Abstracts:	15 July 2015
Submission of Full Papers for Review:	15 November 2015
Acceptance of Papers:	10 January 2015
Submission of Final Papers:	10 February 2016
<b>SDSS 2016:</b>	30 May – 01 June 2016

## TENTATIVE PROGRAMME

<i>Sunday, 29.05.2016</i>	
Arrival of participants 17 <sup>00</sup> – 19 <sup>00</sup> Registration	
<i>Monday, 30.05.2016</i>	<i>Tuesday, 31.05.2016</i>
08 <sup>00</sup> – 09 <sup>00</sup> Registration	09 <sup>00</sup> – 09 <sup>30</sup> Keynote Lecture: Professor Kim Rasmussen
09 <sup>00</sup> – 09 <sup>30</sup> Opening Session	09 <sup>30</sup> – 13 <sup>00</sup> Parallel Technical Sessions
09 <sup>30</sup> – 10 <sup>00</sup> Keynote Lecture: Professor Ulrike Kuhlmann	13 <sup>00</sup> – 14 <sup>30</sup> Lunch
10 <sup>00</sup> – 13 <sup>00</sup> Parallel Technical Sessions	14 <sup>30</sup> – 15 <sup>00</sup> Keynote Lecture: Professor Ioannis Vayas
13 <sup>00</sup> – 14 <sup>30</sup> Lunch	15 <sup>00</sup> – 18 <sup>00</sup> Parallel Technical Sessions*
14 <sup>30</sup> – 15 <sup>00</sup> Keynote Lecture: Professor Siu-Lai Chan	
15 <sup>00</sup> – 18 <sup>00</sup> Parallel Technical Sessions	
20 <sup>00</sup> – 23 <sup>00</sup> Welcome Reception	20 <sup>00</sup> – 23 <sup>00</sup> Conference Banquet
<i>Wednesday, 01.06.2016</i>	<i>Thursday, 02.06.2016</i>
09 <sup>00</sup> – 13 <sup>30</sup> Parallel Technical Sessions	08 <sup>30</sup> – 17 <sup>00</sup> Excursion Tour
13 <sup>30</sup> – 14 <sup>00</sup> Closing session	
14 <sup>00</sup> – 15 <sup>00</sup> Lunch	

\* One parallel session is devoted to RFCS SAFE BRICK Workshop



Timisoara Fortress  
on 16<sup>th</sup> Century

## REGISTRATION

The registration fee for the *participants* covers:

- Participation in all Technical Sessions;
- Conference bag with general documentation, Conference Programme and the Conference Proceedings (incl. CD);
- Coffee and refreshments during the breaks;
- Lunches on Monday, May 30, Tuesday, May 31 and Wednesday, June 01;
- Welcome Reception on Monday, May 30;
- Conference Banquet on Tuesday, May 31.

The conference fee for the *accompanying persons* covers:

- Admission to both opening and closing sessions;
- Conference bag with general documentation, Conference Programme;
- Sightseeing of Timisoara and the surroundings with a guide, including lunches on Monday, May 30, Tuesday, May 31 and Wednesday, June 01;
- Welcome Reception on Monday, May 30;
- Conference Banquet on Tuesday, May 31.

Registration	Before 31.01.2016	Between 01.02.2016 and 30.04.2016	In cash at the Colloquium Registration Desk
<input type="checkbox"/> Participant	420 €	460 €	500 €
<input type="checkbox"/> Student (under and post graduate)	300 €	350 €	400 €
<input type="checkbox"/> Accompanying person	250 €	300 €	350 €
<input type="checkbox"/> Post-conference tour	90 €	95 €	100 €

## ACCESS TO TIMIȘOARA

### By air

#### Traian Vuia International Airport (TSR)

Web: [www.aerotim.ro](http://www.aerotim.ro) ; Email: [office@aerotim.ro](mailto:office@aerotim.ro)

The airport is located six miles from the city centre. Taxis are readily available outside the arrivals area. Express bus no. 4 offers service to the city centre.

**Lufthansa** – [www.lufthansa.com](http://www.lufthansa.com); *Direct flights from/to: Munich*

**Tarom** – [www.tarom.ro](http://www.tarom.ro); *Direct flights from/to: Bucharest*

**Wizzair** – [www.wizzair.com](http://www.wizzair.com); *Direct flights from/to: Brussels-Charleroi, Paris-Beauvais, Dortmund, Frankfurt Hahn, Munchen Memmingen, Bari, Bologna, Milano, Roma, Torino, London-Luton, Barcelona, Madrid, Valencia*

### By train

#### Timisoara North - main train station (*Gara Timisoara Nord*)

There are daily trains from/to **Budapest** (approximate journey time - 5 hours), and **Vienna** (approximate journey time - 8 ½ hours). Trains to other western European cities run via Budapest.

For the list of international trains with service to/from Romania please visit:  
<http://www.romaniatourism.com/transportation.html#bytrain>

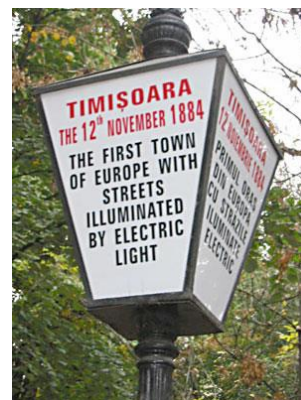
There are daily INTERCITY (Express) trains connecting Timisoara with Bucharest (approximate journey time: 7 ½ hours), Arad (approximate journey time: 45 minutes), Cluj-Napoca (approximate journey time: 5 hours) and Oradea (approximate journey time: 2 ½ hours).

To check the latest train schedules for domestic routes please visit the website of the Romanian Railways: [www.infofer.ro](http://www.infofer.ro)

The site has complete information about domestic train schedules and fares.

*Note: For departures from/to Timisoara please select Timisoara Nord.*

*For departures from/to Bucharest please select Bucuresti Nord.*



## By car

The recommended route from **Bucharest** to Timisoara is:

Bucharest - Pitesti - Ramnicu Valcea - Sibiu - Deva - Lugoj - Timisoara

The recommended route from **Budapest** to Timisoara is:

Budapest - Szeged- Nadlac - Arad - Timisoara

The recommended route from **Vienna** to Timisoara is:

Vienna - Gyor - Budapest - Szeged- Nadlac - Arad - Timisoara

**For the people of those countries which have not established a “visa bilateral agreement” with Romania or Shengen area, an “entrance visa” is necessary.**

## CITY OF TIMIȘOARA

The oldest settlements in Timisoara area are more than 7500 years old.

The first documentary evidence of Timisoara dates from 1212, under the name of “Castrum of Tymes” (Timis fortress). The first stone fortress was built between 1307 and 1315 on the orders of Hungarian king, Carol Robert, Prince of Anjou. In 1552 Timisoara fortress was conquered by the Ottoman army and the whole surrounding area was transformed into an Ottoman province. On 1716, the Austrian Habsburg troops led by Prince Eugene of Savoya have liberated the city which later became a free imperial city in December 1781. In 1918, in accordance with the Versailles peace treaty, the Timisoara City and Banat Province became part of Romania. In the 20<sup>th</sup> century Timisoara became a metropolis with more than 400000 inhabitants that concentrate the economical, commercial, demographic and cultural interest of a large area, in this part of Romania.

On December 16<sup>th</sup> 1989 Timisoara was the place where the anti-Communist revolution started.

## CONTACTS

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*“She-wolf” (“Lupoaica”, “Romulus and Remus”)  
1926, town symbol*