

Second European Conference on Structural Control ENPC, Champs-sur-Marne, France, July 3-6, 2000 *Call for papers*

History

The First European Conference on Structural Control took place in Barcelona in 1996. It has been decided to organize a european conference on structural control every four years.

Hosting institution

This conference will take place in the new building of **Ecole Nationale des Ponts et Chaussées**, the oldest french School of Civil Engineering, close to Paris by public transportation.

Steering organization

European Association for the Control of Structures (<http://dipmec.unipv.it/ACS/acsh.html>)

Chairmen

- Frédéric Bourquin : Laboratoire des Matériaux et des Structures du Génie Civil,UMR113 LCPC/CNRS, Champs-sur-Marne, France; 2ecsc@lcpc.fr
- José Rodellar : Universitat Politècnica de Catalunya, Barcelona, Spain.

Scientific Committee

- A. Baratta : Università di Napoli - Federico 2, Italy
- A. H. Barbat : Universitat Politècnica de Catalunya, Barcelona, Spain
- F. Casciati : Università di Pavia, Italy
- F. Conrad : université de Nancy 1, France
- A. Del Grosso : Università di Genova, Italy
- Ph. Destuynder : Institut d'Aérothermique de Saint-Cyr, France
- P. Fajfar : University of Lubljana, Slovenia

- L. Faravelli : Universita di Pavia, Italy
- C.M. Friend : Cranfield University, United Kingdom
- J. Holnicki-Szulc : Institute for fundamental technological research, Warsaw, Poland
- H. Irshik : J. Kepler University, Linz, Austria
- A. Kovaleva : Russian Academy of Sciences, Moscow, Russia
- L. Jézéquel : Ecole Centrale de Lyon, France
- G. Leugering : University of Bayreuth, Germany
- F. López Almansa : Universitat Politecnica de Catalunya, Barcelona, Spain
- G. Magonette : ELSA Lab, Ispra, Italy
- B. Palazzo : University of Salerno, Italy
- A. Preumont : Université libre de Bruxelles, Belgique

Organizing Committee

P. Argoul (LMSGC), F. Bourquin (LMSGC), M. Collet (LMARC, Besançon), M. Moubachir (LMSGC), R. Ohayon (CNAM, Paris), L. Ratier (LM2S, Paris, and LMSGC).

The International Association for Structural Control (IASC) has been very helpful for the announcement of the conference.

Aims and Scope

This conference aims at fostering scientific interactions among the vast community of researchers contributing to structural control in a broad sense, and at strengthening the European research and professional community of structural control. Cross-fertilization between the different scientific disciplines and interactions with professional engineers will be encouraged. Active, passive, semi-active or hybrid control as well as non-destructive testing for health monitoring or damage detection will be addressed as well as related questions. Smart civil or space structures interacting with their environment and undergoing various loads as wind, earthquakes or traffic are the main targets of this conference.

Scientific program

Keynote lectures will be delivered by international experts. Contributed oral sessions will concentrate on specific topics. Poster sessions enabling informal discussions will be organized.

The following topics are expected to be covered :

- Theoretical advances
 - controllability and stabilizability of flexible structures.
 - control methods, passivity, robustness ...
 - actuator and sensor optimization, state reconstruction, spill-over ...

- modelling, numerical methods, simulation ...
- Control design, including active, semi-active, passive and hybrid systems
- Laboratory experiments :
 - Small-scale to medium scale experiments (including shaking table tests)
 - Controlled dynamic testing of large-scale structures (including pseudodynamic testing)
 - Substructure testing
- Real-life control (bridges, buildings, aerospace and off-shore structures ...) and large-scale on site experiments.
- Materials for sensing and actuating : modelling and impact on control
- Cable structures.
- Control of structures interacting with their environment : such as wind-structure interaction.
- Control of sensitive equipments.
- Non-destructive testing, identification, diagnostics.

Paper submission

Scientific contributions in above or related areas are welcome.

An extended abstract of 2 pages should be submitted for review to the organizing committee via e-mail. The abstract should be typed in standard latex and include the following: (1) Title, (2) author(s) with full name(s) and affiliation(s) and (3) enough details to understand the scope, originality and results of the contribution. Accepted contributions have to be presented at the conference and accompanied by a full paper which will be due in camera-ready form at the conference days (registration desk).

Every full paper will be reviewed after the conference in view of publication in the proceedings.

Further details regarding preparation of camera-ready papers will be provided with the notification of acceptance for the conference.

Registration

The registration fee for the conference is 2800 FF, which covers attendance to the technical sessions, one copy of the Conference proceedings, daily lunch, coffee breaks, the welcome cocktail and the Conference banquet.

Participants registering before 31 March 2000 are eligible for a reduced registration fee of 2500 FF.

PhD. students are welcome at a reduced fee of 1800 FF neither including the proceedings nor the banquet.

Important dates

Deadline for submission of extended abstracts: 1 december 1999

Notification of acceptance : 1 february 2000

Reduced fee registration : 31 march 2000

Conference days : 3 - 6 july 2000

Camera-ready full papers given during the conference

Review and publication of proceedings within six months after the conference

Correspondence

2ecsc organizing committee

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Web page : http://www.lcpc.fr/LCPC/Service/congres/str_controle/2eccall1html.html

If you intend to participate or want to be informed

Please send the following information (preferably by E-mail) :

Family name : First name :

Affiliation :

Full address :

E-mail : fax : tel : web site :

title of the talk :

Abstract :

Additional informations

Please look at the Conference web site

http://www.lcpc.fr/LCPC/Service/congres/str_controle/2eccall1html.html

which will be updated when additional information will be available.

3rd IASC International Workshop

The workshop, organized by the International Association for Structural Control (IASC) will take place at the same location immediately after the Conference. Details can be found on the web site of the *European Association for the Control of Structures* (<http://dipmec.unipv.it/MEET/PROGR/3iasc.html>)