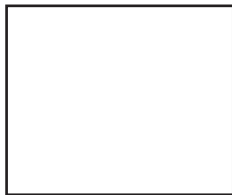




Institute FEMTO-ST / Dept. LMARC
 UMR - CNRS 6174
 24, rue de l'Épithaphe, 25000 Besançon, France

**CONFERENCE SECRETARIAT
 ASMDO 2007**



Call for papers

Papers are invited on the topics outlined and others falling within the scope of the conference. Abstracts of no more than **300 words** (one page abstract in Word, Latex, PDF or PS format) should be submitted as *soon as possible*. The files should be emailed to : aconf2007@asmdo.com . Abstracts should clearly state the purpose, results and conclusions of the work that will be presented. The language of the conference will be **English**. There will be **mini-exhibition** spaces available for organisations wishing to exhibit hardware, software, products, services and literature related to the theme of the conference. Also, persons wishing to organise **Mini-symposium** are highly solicited. Mini-symposium consists of one or more technical sessions. Each session contains five 20-minute slots. In addition, the organizers are negotiating with a few journals for publication of **special issues** containing selected papers after the conferences.

Important Dates

| | |
|---------------------------|---------------------------------|
| September 15, 2006 | One Page Abstract Deadline |
| November 19, 2006 | Notification of acceptance |
| December 15, 2006 | Deadline for Early Registration |
| February 7, 2007 | Submission of the Full paper |
| April 17- 20, 2007 | Conference |

Registration fees

The registration fee covers book of abstracts, conference proceedings in CD, access to all plenary sessions, conference materials, conference banquet, and coffee breaks. The standard registration fee will be as follows :

| Fee (€) | Early Registration | Late Registration |
|----------------------------|--------------------|-------------------|
| ASMDO members and students | 330€ | 380€ |
| Non ASMDO members | 380€ | 450€ |
| Mini-exhibition space | 500 | 580 |

Sponsors and Support Organizations



First International Conference on Multidisciplinary Design Optimization and Applications

**17 - 20 April 2007
 Besançon - France**

<http://www.asmdo.com/conference2007/index.htm>

Organized by :



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ASMDO 2007 :

- I intend to give a presentation (abstract will follow).
 I intend to organize a Mini-symposium (abstract will follow).
 I intend to organize a Mini-exhibition (space for posters or for demonstration will be needed).

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Location



The conference, will be held in *Maison de l'Economie* of the CCI of Doubs in Besançon. The region set right in the heart of Europe, two hours and half from Paris by the TGV and one hour and half from Geneva or Bale-Mulhouse int. airports. The city has a wealth of original cultural heritage from the 18th century. The curious will discover the Boucle du Doubs and the Famous big Citadel. Besançon is also the birthplace of many great people, such as the poet and novelist Victor Hugo, Brothers Lumière the creators of the cinema and Pierre Joseph Proudhon the philosopher.

Objectives

Multidisciplinary Design Optimization - MDO - deals with the optimal design of structural elements or systems employed in several engineering fields such as the aerospace industry, where reducing the structural weight is one of the most important tasks. Nowadays, use of Structural Optimization is rapidly growing in automotive, aeronautical, mechanical, civil, nuclear, naval, and off-shore engineering. This is due to the increase of technological competition and the development of strong and efficient techniques for several practical applications. The increase of speed and capacity of computers allows large-scaled structures or systems to be optimized. The main scientific challenges of MDO are concerned with the development of strong and efficient numerical techniques and with the computational organization required for the necessary coupling of disciplinary software systems. Also, the applications related to real problems such as parameter identification appeared to be very difficult due to the gap that still exists between the industrial requirements and the university research. In addition to the above points, the efficiency of the optimal result depends on the efficiency of the simulation and the modelling process. For these reasons, one of the main objectives of this international conference is to bring together scientists and practitioners working in different areas of engineering optimization.

Conference Topics

- Design Optimization and Inverse Problems
- Sensitivity Analysis
- Industrial Applications and Software Systems
- Structural Optimization : Topology, Shape and Sizing Optimization
- Multi-scale Optimization
- Optimization of Composite Materials
- Mathematical Programming Algorithms
- Communication Aspects of Parallel & Distributed Algorithms
- Distributed Computing in Design Optimization
- Concurrent Engineering
- Design of Experiments
- Simulation and Modelling
- Integration of Optimization Tools in the Design and Manufacturing Process
- Multi-objective Optimization
- Robust Design
- Evolutionary Strategies
- Computational Methods
- Optimization in Economics and Finance
- Identification

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