

## SUBMISSION ([www.cfm2009.cnrs-mrs.fr](http://www.cfm2009.cnrs-mrs.fr))

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Proposal of communications :

- October 1<sup>st</sup> – January 5<sup>th</sup>, pre-registration and declaration/intent of sending abstracts (title, authors, themes)
- January 1<sup>st</sup> - March 1<sup>st</sup>, abstract submission (6 pages)

## IMPORTANT DATES

January 5<sup>th</sup>: DEADLINE pre-registration / intent.  
March 1<sup>st</sup>: DEADLINE submission of communications  
March 30: selection for the Journal "Mécanique & Industries"  
April 15: replies to authors  
June 15: DEADLINE for booking hotel

## REGISTRATION ([www.promosciences.com/cfm09](http://www.promosciences.com/cfm09))

Registration forms will be available on the site of the Congress:  
[www.cfm2009.cnrs-mrs.fr](http://www.cfm2009.cnrs-mrs.fr) and [www.promosciences.com/cfm09](http://www.promosciences.com/cfm09)

	before 15-06	after 15-06
Senior member AFM :	350 euros	400 euros
Senior non-member AFM* :	400 euros	450 euros
Junior member AFM :	175 euros	200 euros
Doctoring non-member AFM* :	190 euros	215 euros

\* Fees : 50 euros for enrolling at AFM (period 2009)

Grants possibilities for researchers members of laboratories from emerging countries outside Europe

## CFM AWARDS (Prix de thèse, [arquis@enscpb.fr](mailto:arquis@enscpb.fr))

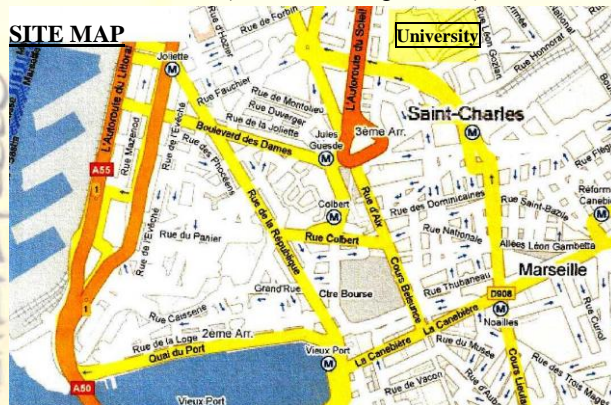
Admission criteria: the PhD diploma must be dated within the period of 20 July 2007- July 17 2009. Candidates have to send their PhD defense report, CV and manuscript (two copies) to the Chairman of the Jury :  
Professor Eric ARQUIS, TREFLE Laboratory, ENSCPB  
16 avenue Pey-Berland, 33607 PESSAC Cedex

## HOTEL BOOKING ([www.marseille-tourisme.com](http://www.marseille-tourisme.com))

You have to book on your own as soon as possible. Information is at your disposal at:

- A Tourism Information Desc : [www.marseille-tourisme.com](http://www.marseille-tourisme.com)
- CFM'09 website (hotels list with agreements).

## SITE MAP



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First Call for Papers – First Call for Papers – First Call for Papers  
[www.cfm2009.cnrs-mrs.fr](http://www.cfm2009.cnrs-mrs.fr)

**CFM'09**  
MARSEILLES  
24-28 august 2009



## XIX<sup>th</sup> French Congress of Mechanics

Organised by

*Aix-Marseille Universities UI UII et UIII  
Ecole Centrale de Marseille  
L'ENSAM Aix-en-Provence  
Sud Toulon – Var University  
SUPMECA Toulon  
Avignon et des Pays du Vaucluse University  
Ecole de l'Air, Salon de Provence*

On the Saint-Charles university campus,

Present

Mechanic in France,

Opened on

- International
- Europe
- Mediterranean countries
- Industry
- Teaching

Organising Committee Presidents:

Professor Olivier Débordes and Professor Claude Rey  
Ecole Centrale de Marseille et LMA Aix-Marseille University et M2P2  
Technopôle de Château-Gombert  
38, rue F. Joliot Curie 13451 Marseille cedex 20  
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## History – Impact

Mechanics is at the basis of the activities for most companies. It comprises the conditions for maintaining their competitiveness by facing up to fast changing technology and international competition. For the leaders involved in scientific/technological and industrial production, it is therefore essential to measure trends and identifying issues of research and innovation in this huge domain of sciences/technology.

With this in mind, French researchers/engineers in Mechanics have organized a biennial congress in the main academic centers since 1973, with four objectives:

- To provide a place of expression and exchanges for members of this community, particularly for the youngest ones;
- To draw up an assessment on Mechanics, Industrial as well as Academics, and to think about their prospects;
- To make visible the ongoing collaborations between Academics and Industry, and arouse new ones;
- To access at European scientific problems, with international targets;

Marseilles has already had the honor of being designated to host CFM in 1981. Since then, Mechanics has changed in our city and in neighboring cities: academic institutions have evolved and institutes have regrouped on the site of "l'Etoile". A third Engineering school was established, Avignon and Toulon have become academic towns where Mechanics is well represented. It is now time for the researchers into Mechanics in Provence to host the AUM / AFM community in Marseille and to organize this event.

- S5 Intensive Computing
- S6 Combustion, Reactive flow
- S7 Polyphasics and Granular Flow
- S8 Coupled and Interfacial Phenomena, Fluids and Solids
- S9 Instabilities and Transition, Flow Control
- S10 Dynamics of Eddy
- S11 Turbulence, Turbulent Dispersion
- S12 Waves and Free Flow to Surface
- S13 Porous Media
- S14 Multiphysics Couplings
- S15 Heat / Mass Transfer
- S16 Calculation of Structures
- S17 Dynamics of Structures
- S18 Behavior of Materials
- S19 Integrated Design and Production Systems
- S20 Damage - Rupture
- S21 Contact and Tribology
- S22 Composite Materials
- S23 Manufacturing Process
- S24 NDC, Maintenance, Decision
- S25 Uncertainties, Reliability and Risk Control
- S26 Fields Measurement and Photo Identification
- S27 Nano/Micro-Fluidic (in honor and memory of Pierre Casal)
- S28 Micro and Nanosystems, MEMS
- S29 Fluids Dynamics in Geophysical and Astrophysical Fields
- S30 Rheology and Complex Fluids
- S31 Mechatronics
- S32 Mechanical Physics, Nano-objects & Small Scales
- Other S33 ...

### Specific Seminars:

- C1 European Colloquium "Post-critical behavior of composites"
- C2 LESTAC'09 "Large eddy simulation of turbulence, acoustic and combustion"
- C3 International Colloquium Alexandre Favre: "Turbulence in Geophysical Fluid"
- C4 Industrial Symposium with the assistance of EUROCOPTER "The helicopter, a concentrate of Mechanics"
- C5 Colloquium WOOD: "Wood and Biomechanics of the tree"
- C6 Euro-Mediterranean Symposium "Cooperation in Science, Engineering and Mechanical Technologies"
- C7 Educational Symposium "Online Teaching - use of the TICE in Mechanics"
- C8 "Math/Mechanic" Meeting: "Mathematical Modeling in Mechanics"

### Plenary conferences:

- René Fillit et Roland Fortunier « Local Multiphysic Analyses for Nanotechnology »

- Xavier Garbet / Phillipe Magaud « Challenges Materials/ Plasma for Fusion »
- Charbel Farhat « »

- Jean-Luc Garciaz et Bernard Quénée « Contribution of Non-destructive testing Equipments to modeling Structural behavior of old buildings ».
- Patrick Le Quééré. « On Numerical Simulation of Open Flows in Natural and Mixed Convection ».
- Jean-Jacques Marigo « The variational approach to the Mechanics of the rupture process ».
- Frédéric Patat « Sounds and Ultrasound: an open window on the Human body »
- Bernard Thibaud « Wood, from intelligent material of trees to Ecological Engineering »
- Emmanuel Villermaux « Fragmentation of Liquids and Solids »

### Organising Committee:

Presidents: DEBORDES Olivier (LMA), REY Claude (M2P2)

Members: CHABRAND Patrick (LABM), CORNELOUP Gilles (LCND), GARNIER Charles-Henri (ECM), HOCHART Christian (LMA), KHARIF Christian (IRPHE), LEBON Frédéric (LMA), LE PALEC Georges (IUSTI), ANGOT Philippe (LATP), MEDALE Marc (IUSTI), MORVAN Dominique (M2P2), NEEL Marie Christine (EMMAH), PIETRI Laurence (IRPHE), PONCET Sébastien (M2P2), REY Vincent (LSEET), SERRE Eric (M2P2), VIGLIANO Patrick (IUSTI), ZEITOUN David (IUSTI),

### Scientific Committee :

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Poitiers, 1973	Toulouse, 1975	Grenoble 1977	Nancy, 1979	Marseille 1981
Lyon, 1983	Bordeaux, 1985	Nantes, 1987	Metz, 1989	Paris, 1991
Lille, 1993	Strasbourg, 1995	Poitiers, 1997	Toulouse, 1999	Nancy, 2001
Nice, 2003	Troyes, 2005	Grenoble, 2007	Marseille 2009	

Cities that have organized previous CFM : the names of those who received twice the CFM are highlighted in yellow.

The growth of the involvement of research and industry at this conference is significant: Poitiers - Toulouse 800, Nancy - Nice 1000, Troyes - Grenoble 1200. In Marseilles, we expect to welcome about 1500 participants.

### The thematic sessions :

- S1 Acoustics
- S2 Fluid-Structure Interaction & Control
- S3 Naval Hydrodynamics
- S4 Biomechanics, Mechanical Life, Biomimetism