

GDR CNRS n° 2902 “Interaction Fluide-Structure”

coordinated by :

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Journées Thematiques/Thematic days Thème/Topic N° 3 « Problèmes Spécifiques en IFS »

coordinated by :

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SCIENTIFIC PROGRAM/AGENDA

18-19 May 2006

***IMFT : Institut de Mécanique des Fluides de Toulouse
Amphitheater NOUGARO***

May 18th, 2006

- 9.00-9.15** Welcome address (M. Braza-H. Djeridi)
- 9.15-11.00** Scientific presentations :
1. 9.15-10.00 E. Longatte (EDF) – M. Souli (Université de Lille)
“Couplages fluide structure, simulations et applications industrielle”
 2. 10.00-10.30 C. Espinosa (ENSICA) – Y. De Lassat De Pressigny (CEVAP)
“Dynamic simulation of parachutes with fluid-structure interaction”
- 10.30-11.00** Coffee break
- 11.00-12.30** Scientific presentations :
3. 11.00-11.45 B. Nogarède (ENSEEIH/LEEI/EM3)
“Electroactive materials : from physical properties to novel actuation concepts”
 4. 11.45-12.30 Jan Vos (CFA Engineering)
“Aerodynamic Studies including Fluid-Structure Interaction of the F/A-18 Fighter for Loads Analysis”
- 12.45-14.15** Lunch (Buffet at TGV room-IMFT)
- 14.15-16.30** Scientific presentations :
5. 14.15-15.00 H. Djeridi, C. Sarraf, J. Y. Billard (IRENAV)
“Investigation of thickness effects on 2D NACA symmetric foils and survey of cavitating effects on the structure of the turbulent boundary layer in the wake of partial cavity”
 6. 15.00-15.45 P. C. Fernandes, P. Ern, F. Risso, D. Fabre and J. Magnaudet (IMFT)
“Oscillatory motion of axisymmetric bodies rising freely in a liquid of low viscosity”

7. 15.45-16.30 S. Bourdet, M. Braza, G. Martinat, El Akoury, P. Chassaing, G. Harran (IMFT)
“Dynamic mesh adaptation in the flow around pitching airfoils, in the context of fluid-structure interaction”

16.30-17.00 Coffee break

17.00-18.00 Round table discussion

20.15-22.30 Dinner (Brasserie des Beaux Arts “FLO”, Place du Pont Neuf)

May 19th, 2006

9.15-10.45 Scientific presentations :

1. 9.15-10.00 Reint Dallinga (Seakeeping Department, MARIN Inc. The Netherlands)
“The character and magnitude of bow flare slamming induced hull girder whipping”
2. 10.00-10.45 Y. Ventikos (Oxford University)
“Multiphysics and multiscale modelling for blood-tissue interaction in bioengineering”

10.45-11.15 Coffee break

11.15-12.30 ERCOFTAC presentations in Fluid Structure Interaction

1. 11.15-11.40 E. Longatte (EDF)
“EDF activities in Fluid-Structure Interaction in the context of ERCOFTAC”
2. 11.40-12.05 C. Mockett (TU-Berlin)
“Joint experimental and numerical study of the flow around a circular cylinder, and overview of fluid-structure-interaction activities at TU-Berlin”
3. 12.05-12.30 A. Leroyer (Ecole centrale de Nantes)
“Fluid-Structure Interaction Activities of the Laboratoire de Modélisation - Ecole Centrale de Nantes”

12.30-14.15 Lunch at the restaurant “l'Émulation Nautique”

14.15-15.45 Round table discussion for the creation of a new ERCOFTAC SIG (Special Interest Group) in “Fluid-Structure Interaction”

15.45 Closing address

Coffee break and refreshments before departure