Important dates

Deadline for abstract submission:
February 16, 2007
Deadline to register,
March 16, 2007

Scientific committee

R. Abgrall, IMB, and INRIA Scallaplix, France.
P. Bertrand, UHP, Nancy, France.
B. Després, CEA and Paris VI, France.
F. Golay, USTV Toulon, France.
H. Guillard, INRIA Sophia Antipolis, France.
P. Helluy, ULP Strasbourg, France.
D. Kröner, Freiburg University, Germany.
C.-D. Munz, Stuttgart University, Germany.
H. Paillère, CEA, France.
R. Saurel, Université de Provence, France.
E. Sonnendrücker, ULP and INRIA CALVI, Strasbourg, France.

Local organisation committee

M. Argente, INRIA Sophia Antipolis, France
H. Guillard, INRIA Sophia Antipolis, France
F. Golay, USTV Toulon, France
P. Helluy, ULP Strasbourg, France

Contact

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Numerical Flow Models for controlled Fusion

April 16-20, 2007

PORQUEROLLES, France

Organized by

INRIA, Sophia-Antipolis
Université du Sud Toulon-Var
Université Louis Pasteur, Strasbourg

**Final Announcement
And last Call for Papers**

http://www.sop.inria.fr/smash/Fusion

OBJECTIVES

Controlled fusion is nowadays a hot topic with the launching of machines as ITER or the Mega Joule Laser. The design and control of these machines require to solve extremely complex numerical problems in fluid dynamics. The aim of the conference will be to bring together physicists, applied mathematicians and specialists of computer sciences to review the main flow models used for controlled fusion and to provide a discussion forum covering all area of computational fluid dynamics related to this topic. Beside computational modeling of plasma physics, the conference will also consider flow problems for wall cooling or safety analysis of fusion reactors. The following main topics are included :

* Computational modeling in plasma physics ;
* Advanced multi-physics computational methods ;
* Magnetohydrodynamics ;
* Kinetic and flow models ;
* Thermo-hydraulics of fusion reactors ;
* Safety analysis of fusion reactors ;
* Hydrogen and dust explosions.

FORMAT

This scientific event will take place over 5 days and will consist of invited lectures delivered by well known experts and several technical sessions. To-date the following experts have agreed to deliver a lecture :

F. Escourbiac (DRFC,Cadarache), A. Ghizzo (UHP, Nancy), G. Huysmans (DRFC, Cadarache), J. Heikkinen (VTT, Finland), T. Jordan (FZK, Karlsruhe), E. Lefebvre (CEA/DAM), P-H. Maire (Celia, Bordeaux), S. Nicollet (DRFC,Cadarache), Hong Qin (Princeton), F. Rogier (ONERA, Toulouse)

CALL FOR PAPERS

Contributions to any of the topics mentioned above are welcome. Authors are invited to submit a one-page abstract by e-mail to fusionconf@sophia.inria.fr no later than February 16, 2007. Instructions for abstract submission are available on the conference website :
http://www-sop.inria.fr/smash/Fusion/
The scientific committee will select the contributions on the basis of the submitted abstracts. Authors will be notified of acceptance by March 9

BOOK OF ABSTRACTS AND PROCEEDINGS

A book of abstracts will be delivered to each participant and the presentations will be published on the conference web site. In addition, presentations selected by the scientific committee will be published in a special issue of an international journal following a standard reviewing process.

LOCATION

The conference will be held in the premises of IGESA, in the PORQUEROLLES island, near the city of Toulon, France.

REGISTRATION AND ACCOMMODATION

The registration fees cover housing, lunches and dinners from Sunday April 15 evening to Friday 20, the boat transportation to the island and bus shuttle from Toulon/Hyeres Airport or railway station Sunday April 15 and Friday 20, a book of abstract, conference material and one cocktail party.
The number of places at IGESA is limited and room booking at IGESA will be done on a first-come, first-served basis.
Registration are to be done no later than March 16, 2007. Full details on registration and accommodation are given on the conference web site.