



## 7th ERCOFTAC SIG 33 - FLUBIO Workshop

### OPEN ISSUES IN TRANSITION AND FLOW CONTROL

HOTEL METROPOLE, SANTA MARGHERITA LIGURE,  
ITALY

OCTOBER 16-18, 2008

#### Scope:

The 7th SIG 33-ERCOFTAC workshop, co-sponsored by the Marie Curie EST programme FLUBIO, belongs to the successful series initiated in 1999 in Toulouse with the workshop on "Adjoint methods in flow control, optimisation, weather predictions, etc."

The purpose of the present workshop is to provide a forum where new ideas and concepts on transition to turbulence and flow control can be openly discussed. Each session will be initiated with an introduction by a leading expert, pointing out promising directions of future research efforts, and will be closed by a round-table discussion chaired by the same expert.

#### Invited speakers:

- JEAN-MARC CHOMAZ: *"Linear and nonlinear stability of real flows: the global approach"*
- BRUNO ECKHARDT: *"Dynamical systems and shear turbulence"*
- PAOLO LUCHINI: *"Optimal feedback control applied to transition and turbulence"*
- CLARENCE ROWLEY: *"Reduced order models for flow control"*

#### Topics:

We invite submission of abstracts on ongoing activities on:

- Linear stability approaches, modal and non-modal theories, etc.
- Effect of stochastic and deterministic excitations, receptivity, etc.
- By-pass transition, experiments and scaling laws, etc.
- Nonlinear effects, "exact coherent structures", edge states, etc.
- Control, estimation and compensation, etc.
- Optimal and suboptimal control, experimental approaches, etc.
- Reduced order models, POD, Voronoy tessellation, etc.

#### Registration:

A small fee will be charged to cover expenses related to the banquet in Portofino, transportation, etc. A limited number of scholarships is made available by ERCOFTAC and FLUBIO.

#### Location:

Hotel Metropole, Santa Margherita Ligure (GE), Italy. The hotel (<http://www.metropole.it>) is located in this small town of the Italian Riviera, some 35 km southeast of Genova. Santa Margherita boasts a palm-fringed waterfront, a pleasant string of marinas, docks for pleasure and fishing boats, and pebbly beaches. Glitzy neighbor Portofino can be easily reached by bus or boat.

#### Abstract deadline:

April 30, 2008. Abstracts must be submitted through the following web site: <http://www2.mech.kth.se/sig33/>

#### Organizers:

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