



## 9th ERCOFTAC SIG 33 Workshop

### Progress in Transition Modeling and Control

Toledo, Spain, Sept. 28-30, 2011

#### Scope:

The 9th SIG 33-ERCOFTAC Workshop belongs to the successful series initiated in 1999 in Toulouse with the workshop on "Adjoint methods in flow control, optimization, weather predictions, etc."

The purpose of the present workshop is to provide a forum where new ideas and concepts on global modes and flow control can be openly discussed. Each session will be initiated by 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:

- Bernd Noack (Institut Pprime, Poitiers): *Towards a mathematical theory of turbulence control.*
- Spencer Sherwin (Imperial College): *Numerical stability studies of streamwise vortices and swirling flows.*
- Alessandro Bottaro (Univ. Genova): *Localized, nonlinear optimals.*
- Luca Brandt (KTH): *Instability of a particle suspension.*

#### 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, etc.

#### Scholarships:

A limited number of scholarships are made available by ERCOFTAC.

#### Location:

Parador Nacional de Toledo, Toledo, Spain.

Web site: <http://www.paradores-spain.com/spain/ptoledo.html>

#### Abstract deadline:

April 30, 2011. Abstracts are to be submitted from the following web site: <http://www2.mech.kth.se/sig33/>

#### Organizers:

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Ardeshir Hanifi (FOI / KTH, Sweden)

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