

8th ERCOFTAC SIG 33
Global Instabilities of Open Flows
 Nice, France
 June 30 - July 2, 2010

Wednesday, June 30

13:00 **Registration**
 13:50 **Opening statements**

Session 1 (Chairman: Uwe Ehrenstein)

Invited talk	14:00	Matthew JUNIPER	Bypass transition in thermoacoustics
	15:00	Jean-Christophe ROBINET	Linear And Non-linear Dynamics Of A Cavity Flow <i>F. Alizard, X. Merle, J.-C. Robinet, X. Glerfelt</i>
	15:30	Jonathan HEALEY	Global Instability Of The Rotating-disk Boundary Layer <i>J. J. Healey</i>

Coffee 16:00

Session 2 (Chairman: Jonathan Healey)

	16:30	Outi TAMMISOLA	Effect Of Surface Tension On Global Instability Of Wakes <i>O. Tammisola, F. Lundell, D. Söderberg</i>
	17:00	Milos ILAK	Adjoint-based Stability And Sensitivity Analysis Of A Jet In Crossflow <i>M. Ilak, Ph. Schlatter, S. Bagheri, D. S. Henningson</i>
	17:30	Hugh BLACKBURN	Lagrangian-based methods for computing optimal boundary perturbations <i>H. Blackburn, X. Mao, S. Sherwin</i>
	18:00	Peter SCHMID	Spatial analysis of a jet in crossflow <i>P.J. Schmid, S. Bagheri</i>

Thursday, July 1

Session 3 (Chairman: Dan Henningson)

Invited talk	9:00	Spencer Sherwin & Philip Hall	Nonlinear unstable solutions and the transition to turbulence
	10:00	Yongyun HWANG	A Self-sustaining Process At Large-scale In The Turbulent Channel Flow <i>Y. Hwang, C. Cossu</i>
Coffee	10:30		
	11:00	Paul MANNEVILLE	Transition wall-bounded flows: paradigmatic features of plane Couette flow (hydrodynamic (in)stability, laminar/turbulent coexistence, spots, ...) <i>P. Manneville</i>
	11:30	Håkan WEDIN	Transitional Duct Flow <i>H. Wedin, D. Biau, A. Bottaro, M. Nagata, S. Okino</i>
	12:00	Yohann DUGUET	Edge States And Turbulence Spreading In Subcritical Shear Flows <i>Y. Duguet, A.P. Willis, R.R. Kerswell, P. Schlatter, D.S. Henningson, B. Eckhardt</i>

Lunch 12:30

Session 4 (Chairman: Hugh Blackburn)

Invited talk	14:00	Dan HENNINGSON	Model Reduction For Flow Control
	15:00	Fulvio MARTINELLI	Nonmodal Stability Of Plane Poiseuille Flow Of A Dielectric Liquid In Presence Of Unipolar Injection <i>F. Martinelli, P. J. Schmid</i>
	15:30	Shervin BAGHERI	Flow Analysis Using Koopman Modes <i>S. Bagheri, K. Chen, C.W. Rowley, I. Mezic</i>

Coffee 16:00

Session 5 (Chairman: Paul Manneville)

	16:30	Philippe MELIGA	Control of vortex breakdown in a contracting pipe <i>P. Meliga, F. Gallaire</i>
	17:00	Stefania CHERUBINI	The Breakdown Of 3D Centrifugal Global Modes In A Separated Boundary Layer <i>S. Cherubini, J.-C. Robinet, P. De Palma, F. Alizard</i>
	17:30	Oliver SCHMIDT	Linear Stability Of Compressible Flow In A Streamwise Corner <i>O. T. Schmidt, U. Rist</i>
	18:00	Jan PRALITS	Sensitivity Analysis Of The Finite-amplitude Vortex Shedding Behind A Cylinder <i>J. Pralits, F. Giannetti, P. Luchini</i>

Banquet

Friday, July 2

Session 5 (Chairman: Peter Schmid)

Invited talk	9:00	Carlo Cossu	Optimal perturbations and coherent structures in turbulent shear flow
	10:00	Uwe EHRENSTEIN	Instability Of Averaged Low-speed Streaks In Near-wall Turbulence With Adverse Pressure Gradients <i>U. Ehrenstein, M. Marquillie, J.-P. Laval</i>
Coffee	10:30		
	11:00	Xavier GARNAUD	The application of Selective Frequency Damping to the computation of global modes of a compressible jet <i>X. Garnaud, L. Lesshaft, P.J. Schmid, P. Huerre, J.-M. Chomaz</i>
	11:30	Viktor KOZLOV	Localized Structures Of The Boundary Layer At High Free Stream Turbulence Level <i>M.M. Katasonov, V. V. Kozlov</i>
	12:00	Antonios MONOKROUSOS	Optimal Disturbances For Flow Above A Flat Plate With An Elliptic Leading Edge <i>A. Monokrousos, L.U. Schrader, L. Brandt, D. S. Henningson</i>
	12:30	Alexander KOSINOV	Natural And Controlled Disturbance Experiments To Study Linear Stability And Receptivity Of Supersonic Boundary Layer On Thin Swept Wings <i>A.D. Kosinov, N.V. Semionov, Yu.G. Yermolaev</i>