

Trends in Complex Systems

International Workshop on Living Organisms in Flows: From Small-Scale Turbulence to Geophysical Flows

Palma de Mallorca, June 7 - 11, 2010

Scientific coordination:

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The interplay between biological organisms and hydrodynamic flows influences strongly the ecology of oceans, lakes and rivers, as well as developmental processes in living organisms. These phenomena at the interface between biology and physics cover different temporal and spatial scales from small-scale turbulence to mesoscale hydrodynamic activity on the physical side, and from bacteria and other cellular organisms up to swimming animals like fish on the biological side.

The aim of this workshop is to bring together scientists from various disciplines who investigate organisms in fluid flows from different perspectives and to address, among others, topics like: impact of mesoscale mixing on biology, population dynamics in rivers, non-passive transport, experimental biology in fluids, bioconvection and the influence of small-scale turbulence on plankton. The general goal of the workshop is to facilitate cross-fertilization between the different scientific communities and to stimulate joint interdisciplinary projects among the participants.

Invited speakers: (* to be confirmed)

Martin Bees, Glasgow

Bernd Blasius, Oldenburg

Sebastian Diehl, Umeå

Werner Ebeling, Berlin

Véronique Garçon, Toulouse

Gabriele Gerlach, Oldenburg

Jerry Gollub, Haverford

George Jackson, College Station

Thomas Kiørboe*, Charlottenlund

Amala Mahadevan, Boston

Horst Malchow, Osnabrück

Cèlia Marrasé, Barcelona

Edward McCauley*, Santa Barbara

Roger Nisbet, Santa Barbara

Francesc Peters, Barcelona

Arkady Pikovsky, Potsdam

Kelvin Richards, Honolulu

Corinna Schrum, Bergen

Roman Stocker, Cambridge

Tamás Tél*, Budapest

Hepeng Zhang, Austin

Applications for participation and contributions are welcome and should be made by using the application form on the workshop web page (please see URL below). The number of attendees is limited. The applicants' registration fee for the workshop is 100 Euro. Costs for accommodation will be covered during the workshop. Limited funding is available on request to partially cover travel expenses.

Deadline for applications is: **March 10, 2010.**

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