

Workshop on surface water waves

May 31 - June 1, 2011

organized by **A. Constantin, J. Escher, D. Lannes, W. Strauss**

- **Tuesday, May 31**

09:00 – 09:45: W. Strauss (Brown University, USA)

Waves with Discontinuous Vorticity

09:45 – 10:10: Coffee

10:10 – 10:55: M. Umeyama (Tokyo Metropolitan University, Japan)

PIV and PTV measurements for progressive waves with a steady current

11:00 – 11:45: R. S. Johnson (University of Newcastle upon Tyne, England)

Models for the formation of a critical layer in water-wave propagation

11:50 – 12:35: R. I. Ivanov (Dublin Institute of Technology, Ireland)

Two-component Camassa-Holm equation in the models of shallow water waves with vorticity

- **Wednesday, June 1**

09:00 – 09:45: D. Clamond (University of Nice, France)

Direct numerical simulation on fully nonlinear surface waves

09:45 – 10:10: Coffee

10:10 – 10:55: E. Varvaruca (University of Reading, England)

Global bifurcation of steady periodic water waves with constant vorticity

11:00 – 11:45: B. Kolev (University of Marseille, France)

On the geometrical structure of certain equations of hydrodynamical type

11:50 – 12:35: J. Escher (University of Hannover, Germany)

Regularity of rotational water waves

All lectures take place in the ESI Boltzmann Lecture Hall