

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**