Conference "Water Wave Dynamics"
University of Vienna, Austria, June 1-5, 2015
Sponsored by the ERC (ERC-AdG-NWFV)

Venue: Faculty of Mathematics, University of Vienna, Oskar-Morgenstern-Platz 1, Vienna 1010, Austria
(Monday, Thursday, Friday: Sky Lounge, 12^{th} floor; Tuesday, Wednesday: Besprechungszimmer, 3^{rd} floor)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Arrival day 0 **Reservations for the participants** made at hotel "Deutschmeister" Grünentorstrasse 30 1090 Vienna, Austria (www.hotel-deutschmeister.at) **Options for public transport from the airport to the hotel**: • (Preferred way) Take the local train (S-Bahn, two zones, 4,20 Euro one way, every 30 min., travel time: 24 min.), leave the train at Wien Mitte-Landstraße; take the subway U4 in the direction Heiligenstadt (included in ticket price), exit three stops later at Roßauer Lände; a 5 min. walk brings you to the hotel (see attached map). • Take the City Airport Train (CAT, 17 Euro return ticket one way, every 30 min., travel time: 16 min.), leave the train at Wien Mitte-Landstraße. From there, take the subway U4 after purchasing a ticket (Einzelfahrschein, 2,10 Euro) and proceed as indicated in the first option.	*Day 1* **9:30–10:15 (Plenary)** R. S. Johnson (University of Newcastle, UK) *"The Pacific Equatorial Undercurrent and the waves associated to it"* **10:25–11:10 (Plenary)** G. P. Thomas (University College Cork, Ireland) *"Some unsolved problems in the formulation of the theory of water waves"* **11:10–11:30** **Coffee Break** **11:30–11:55** D. Henry (University College Cork, Ireland) *"Exact solutions for equatorially-trapped geophysical water waves"* **12:00–12:25** K. Kalimeris (J. Radon Institute for Computational and Applied Mathematics, Linz, Austria) *"Computation of rotational travelling water waves"* **12:30–12:55** R. Ribeiro (University of Bath, UK) *"Particle trajectories beneath Stokes' waves"*	*Day 2* **9:30–10:15 (Plenary)** J. Escher (University of Hannover, Germany) *"Analyticity of rotational travelling water waves"* **10:25–11:10 (Plenary)** A. Gasull (Universitat Autònoma de Barcelona, Spain) *"Explicit and approximated travelling wave solutions"* **11:10–11:30** **Coffee Break** **11:30–11:55** R. Quirchmayr (University of Vienna) *"Analysis of a highly nonlinear shallow water equation"* **12:00–12:25** A. Geyer (Universitat Autònoma de Barcelona, Spain) *"On the wave length of smooth periodic traveling waves of the Camassa-Holm equation"* **12:30–12:55** A. Kostenko (University of Vienna) *"The string density problem and the Camassa-Holm equation"*	*Day 3* **9:30–10:15 (Plenary)** B. Kolev (CNRS Marseille, France) *"Two-component equations modelling water waves with constant vorticity"* **10:25–10:50** D. Ionescu-Kruse (Institute of Mathematics, Bucharest, Romania) *"Short-wavelength instabilities of edge waves in stratified water"* **10:55–11:20** C.-I. Martin (University of Vienna) *"Gravity water flows with discontinuous vorticity and stagnation points"* **11:20–11:35** **Coffee Break** **11:35–12:00** F. Kogelbauer (University of Vienna) *"Symmetric irrotational water waves are travelling waves"* **12:05–12:30** T. Lyons (University College Cork, Ireland) *"Trajectories of fluid particles in extreme Stokes waves"*	*Day 4* **9:30–10:15 (Plenary)** A. Nachbin (IMPA, Brasil) *"Solitary waves in branching channels"* **10:25–11:10 (Plenary)** V. Gerdjikov (Institute for Nuclear Research and Nuclear Energy, Sofia, Bulgaria) *"Riemann-Hilbert problems with Z_3 and D_3 symmetries for solving Kaup-Kuperschmidt type equations"* **11:10–11:30** **Coffee Break** **11:30–11:55** A.-V. Matioc (University of Hannover, Germany) *"On periodic water waves with Coriolis effects and isobaric streamlines"* **12:00–12:25** B.-V. Matioc (University of Hannover, Germany) *"On the symmetry of periodic gravity water waves with vorticity"*	*Day 5* **9:30–10:15 (Plenary)** S. G. Monismith (Stanford University, USA) *"Mean flows under surface gravity waves: Stokes drift and other puzzles"* **10:25–11:10 (Plenary)** M. Umeyama (Tokyo Metropolitan University, Japan) *"Laboratory experiments on collisions of solitary waves using PIV and LIF"* **11:10–11:30** **Coffee Break** **11:30–11:55** R. Stuhlmeier (Technion, Haifa, Israel) *"On acoustic-gravity waves in the ocean"* **12:00–12:25** A. Compelli (Dublin Institute of Technology, Ireland) *"A Hamiltonian approach to rotational internal geophysical waves"* **12:30–12:55** R. I. Ivanov (Dublin Institute of Technology, Ireland) *"Hamiltonian approach for models of geophysical waves and wave-current interactions"*	