

Minisymposium at NW12 on
**Hamiltonian & Symplectic Methods in the
theory of nonlinear waves**

Organizers: Thomas J. Bridges & Frédéric Chardard

MS1 — Wednesday June 13

http://meetings.siam.org/session/dsp_programs/session.cfm?SESSIONCODE=14120

- 10:00** FRÉDÉRIC CHARDARD (École Normale Supérieure de Lyon, France) *On the stability of some periodic waves arising in the Kawahara equation*
- 10:30** GIANNE DERKS (University of Surrey, UK) *Viscosity-induced instability for Euler and averaged Euler equations in a circular domain*
- 11:00** DENYS DUTYKH (University de Savoie, France) *Relaxed variational principle for water wave modeling*
- 11:30** BRIAN MOORE (University of Central Florida, USA) *Geometric integration for damped Hamiltonian PDEs*
- 12:00** SERGEY GAVRILYUK (University of Aix-Marseille, France) *A new model of roll waves: comparison with Brock's experiments*

MS9 — Wednesday June 13

http://meetings.siam.org/session/dsp_programs/session.cfm?SESSIONCODE=14121

- 2:00** ROGER GRIMSHAW (Loughborough University, UK) *The reduced Ostrovsky equation: integrability and breaking*
- 2:30** MARIANA HĂRĂGUȘ (Universite de Franche-Comté, France) *Transverse spectral stability of periodic waves*
- 3:00** DAVID LLOYD (University of Surrey, UK) *Hamiltonian structure of the ferrofluid problem*
- 3:30** ROBERT MARANGELL (University of Sydney, Australia) *The Morse and Maslov indices for periodic problems*
- 4:00** VASSILIOS ROTHOS (Aristotle University of Thessaloniki, Greece) *Statics and dynamics of atomic dark-bright solitons in the presence of localized impurities*

MS16 — Thursday June 14

http://meetings.siam.org/session/dsp_programsess.cfm?SESSIONCODE=14122

- 10:00** KIERON MOORE (Loughborough University) *Weakly nonlinear solution of initial value problem for Boussinesq-type equations*
- 10:30** PASCAL NOBLE (Université Claude Bernard Lyon I, France) *Whitham modulation equations for Korteweg-de Vries/Kuramoto-Sivashinsky equations*
- 11:00** CONSTANCE SCHÖBER (University of Central Florida, USA) *Stability of homoclinic orbits of the nonlinear Schrödinger equation*
- 11:30** ERIK WAHLÉN (Lund University, Sweden) *A Dimension-breaking phenomenon for steady water waves with weak surface tension*
- 12:00** TOM BRIDGES (University of Surrey, UK) *Emergence of unsteady dark solitary waves from large-amplitude periodic patterns*