

Colloque: Océanographie et mathématiques

Lundi 26 janvier

- 10h30-11h30: Accueil des participants.
- 11h30-12h30: Fabrice Ardhuin (SHOM, Brest), *Long-distance ocean swell propagation: estimation of the dissipation sink term in the gravity wave radiative balance equation.*
- Repas
- 14h00-15h00: Philippe Bonneton (EPOC, Université Bordeaux 1), *Modélisation de la circulation induite par les vagues en milieu littoral.*
- 15h00-16h00: Frédéric Bouchette (Géosciences, Université Montpellier 2), *Nearshore hydrodynamics through time and space - exemples of simulations in relation with test cases, flume experimentations and field campaigns.*
- Pause café
- 16h30-17h30: Eric Falcon (MSC, Université Paris 7), *Laboratory experiments on wave turbulence.*

Mardi 27 janvier

- 9h00-10h00: Bijan Mohammadi (I3M, Université Montpellier 2), *Shape optimization in coastal engineering.*
- Pause café.
- 10h30-11h30: Denys Dutykh (Lama, Université de Savoie), *Numerical simulation of tsunami waves.*
- 11h30-12h30: Eric Blayo (Université de Grenoble et Inria), *Numerical methods for coupling ocean and atmospheric models.*
- Repas.
- 14h00-15h00: Marie Farge (LMD, ENS Paris), *Role of turbulence and vortices in oceanography.*
- 15h00-16h00: Christian Kharif (IRPHE, Universités de Marseille), *Rogue wave occurrence: linear and nonlinear focusing mechanisms.*
- Pause café.
- 16h30-17h30: François Bouchut (DMA, ENS Paris), *Simulation of rotating multi-layer shallow water equations.*

Mercredi 28 janvier

- 9h00-10h00: Eduard Fereisl (Academy of Sciences, Rép. tchèque), *Incompressible limits under strong stratification*.
- Pause café.
- 10h30-11h30: Anne de Bouard (CMAP, Ecole Polytechnique), *Modeling of long surface waves with random bottom*.
- 11h30-12h30: Jacques Vanneste (Université d'Edinburgh), *Spontaneous generation of inertia-gravity waves in rapidly rotating, strongly stratified flows*.
- Repas.
- 14h00-15h00: Adrian Constantin (Université de Vienne), *Pressure and particle trajectories beneath a Stokes wave*.
- 15h00-16h00: Nikolay Tzvetkov (Université de Lille), *Transverse instability for line solitary water waves*.
- Pause café.
- 16h30-17h30: Steve Schochet (Université de Tel Aviv), *Large Variable-Coefficient Operators in Equatorial Shallow Water Dynamics and Other Systems*.