

Second workshop on the modeling of turbidity currents and related gravity currents

May 31st

6:00 Registration and informal welcome reception at the Best Western hotel

June 1st

8:30 Registration

9:00 Welcome

9:15 1 Cantero *et al.* Turbulence modulation in turbidity currents as a response to slope break and its implication for massive sedimentary deposits

9:45 2 Parker *et al.* Transverse bed morphology in meandering rivers and submarine channels sculpted by turbidity currents

10:15 3 Chou & Fringer Numerical simulation of turbulence-induced sediment transport and the resulting bedform dynamics

10:45 Coffee

11:15 4 Lesshafft *et al.* Inverse modeling of sediment deposition from turbidity currents

11:45 5 Naruse & Olariu Prediction of geometry of turbidite beds by inverse analysis of the flow condition

12:15 Lunch

2:00 6 Gonzalez-Juez *et al.* Gravity current flow past a circular cylinder: forces, wall shear stresses and implications for scour

2:30 7 Nasr *et al.* High-resolution simulations of turbidity currents flowing over complex topography

3:00 8 Lesshafft *et al.* Sediment waves: linear instabilities in a turbidity current boundary layer

3:30 Coffee

4:00 9 Ozdemir *et al.* The dynamics of fine sediment transport in the oscillatory boundary layer

5:30

Reception on the balcony of the Marine Science Research Institute

June 2nd

8:45	10	Wells <i>et al.</i>	The relationship between flux coefficient Γ and entrainment ratio E in density currents
9:15	11	Cossu & Wells	Turbulent flow characteristics in the bottom boundary layer of experimental density and turbidity currents
9:45	12	Nokes <i>et al.</i>	Why do slip and no-slip boundary gravity currents travel at different speeds?
10:15	Coffee		
10:45	13	Nguyen & Kneller	Some measurements and analyses of positively buoyant small-scale gravity currents in laboratory
11:15	14	McElwaine	Dynamics of gravity current heads
11:45	15	Maurer & Linden	Intrusion-generated internal waves in a constantly stratified fluid
12:15	Lunch		
2:00	16	Henniger <i>et al.</i>	Direct numerical simulation of particle settling in estuaries
2:30	17	Syvitski <i>et al.</i>	Hyperpycnal flows and the generation of continental shelf-traversing turbidity currents
3:00	Coffee		
3:30	18	Burns <i>et al.</i>	Instability phenomena in stratified, particle-laden flow
4:00	Leave for Santa Barbara harbor		
4:30	Channel Cat cruise, dinner on board of the Channel Cat		

June 3rd

8:45	19	Balachander & Lee	Lift force and particle resuspension mechanics
9:15	20	Groenenberg <i>et al.</i>	A combined analog-numerical modeling study on the influence of relay ramps on the pathways of sediment delivery into rift basins
9:45	21	Puhl	Turbidity currents physical modeling at different scales: data parameterization through dimensional analysis and multiple regression models
10:15	Coffee		
10:45	22	Manica <i>et al.</i>	Coupling flow and deposit properties of high-density turbidity currents based on experimental simulations
11:15	23	Buttles <i>et al.</i>	A physical model of submarine knickpoint evolution and erosion style in a cohesive sediment bed
12:15	Lunch		
14:00	Round table		