## PROGRAMME DAY 2 – 16 April

08:30 - 09:00	KEYNOTE: Acoustic developments for the measurement of sediment processes over bedforms Peter D. Thorne Professor at National Oceanography Centre, United Kingdom
09:00 - 10:25	SESSION 4: HYDRODYNAMIC AND MORPHODYNAMIC MODELLING Chair: Jim Best Professor at University of Illinois at Urbana-Champaign, United States
09:00 - 09:20	Modeling Dune dynamics in situations with bimodal sediment distributions M.A.F. Knaapen, J.Willis & J.H. Harris
09:20 - 09:40	Sediment transport distribution along equilibrium sand dunes S. Naqshband et al.
09:40 - 10:00	Influence of time- and depth-dependent eddy viscosity on the formation of tidal sandwaves P.C. Roos & H.M. Schuttelaars
10:00 - 10:07	Numerical simulation of turbulent sediment transport O. Durán, B. Andreotti & P. Claudin (Presentation by P. Claudin)
10:08 - 10:15	Sand ripple volume generator for underwater acoustic models, a cellular automaton Monte-Carlo approach P. Staelens, Y. Dupont & JP. Henriet
10:15 - 10:25	Questions
10:25 - 10:55	Coffee break
10:55 - 12:10	SESSION 5: BEDFORM EVOLUTION AND PROPERTIES Chair: Sophie Le Bot Maître de Conférences at Rouen University, France
10:55 - 11 :15	Object Burial by Bedforms: Results from instrumented modules, new data analysis concepts  T. Wever & C. Jenkins
11:15 - 11:35	Analysis of coherent flow structures over alluvial dunes revealed by multi-beam echo-sounder acoustic backscatter S.M. Simmons et al.
11:35 - 11:42	Evolution of secondary cellular circulation flow above submarine bedforms imaged by remote sensing techniques  I. Hennings & D. Herbers
11:43 - 11:50	Sorting patterns over tidal sand waves: comparing field observations with theoretical predictions T. Van Oyen, P. Blondeaux & D. Van den Eynde
11:51 - 11:58	Deep-water bottom current dynamics: processes, products & challenges D. Van Rooij
12:00 - 12:10	Questions
12:10 - 13:30	Lunch and poster session
13:30 - 14:00	KEYNOTE: Large-eddy simulations in dune-dynamics research Ugo Piomelli Professor at Queen's University, Canada

14:00 - 15:05	SESSION 6: HYDRODYNAMIC AND MORPHODYNAMIC MODELLING Chair: Tomas Van Oyen Postdoc researcher at Ghent University, Belgium
14:00 - 14:20	On the influence of bed permeability on flow in the leeside of coarse-grained bedforms G. Blois et al. (Presentation by J. Best)
14:20 - 14:27	Flow structures over fixed 2D bedforms in transient states C.A. Unsworth et al.
14:28 - 14:35	Three-dimensional spatial variations of suspended sediment concentration over vortex ripples A.M. Penko & J Calantoni
14:36 - 14:43	Variation of flow separation over large bedforms during a tidal cycle A. Lefebvre et al.
14:44 - 14:51	Hydrodynamic modeling over a sand wave field at São Marcos Bay, Brazil L. Samaritano et al. (Presentation by F.M. Chagas)
14:55 - 15:05	Questions
15:05 - 15:35	Coffee break
15:35 - 17:10	SESSION 7: PRACTICAL APPLICATIONS AND HUMAN INFLUENCES Chair: Yves Plancke Senior Research Engineer at Flanders Hydraulics Research, Belgium
15:35 - 15:55	Bed form dynamics in relation to headwater discharge and human influences in the tidal Elbe river, Germany N. Gehres et al.
15:55 - 16:15	How the Belgian wind farm business made us discover the challenging environment of marine sand dunes A. Bolle, M. Mathys & P. Haerens
16:15 - 16:35	Gravel dunes generated during ice-jam floods, Tom River, Western Siberia A. Vershinin et al. (Presentation by R. Kostaschuk)
16:35 - 16:42	On the role of fine-sand dune dynamics in controlling water depth changes in Rio Parapeti, Serrania Borebigua (Southern sub-Andean zone of Bolivia) N. de Ville, D. Petrovic & M.A Verbanck
16:43 - 16:50	Evolution of bed form height and length during a discharge wave J.J. Warmink, R.M.J. Schielen & C.M. Dohmen-Janssen
16:51 - 16:58	Essential facts of the monitoring of the sand extraction and its impact on the Flemish banks on the Belgian continental shelf from 2003 to 2012 M. Roche et al.
17:00 - 17:10	Questions
17:10 - 17:30	Future of MARID Thierry Garlan Senior scientist (Dr) at the French Naval Hydrographic and Oceanographic Service
17:30 - 17:45	AWARDS
19:00	Conference dinner at Brewery Halve Maan, Bruges