



## PROGRAMME DAY 1 – 15 April

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- 08:30 – 10:00**                    **Registration & Poster set-up**
- 10:00 – 10:10**                    **Welcome by the organizers**  
**Vera Van Lancker**  
Royal Belgian Institute of Natural Sciences, Belgium  
Guest professor at Ghent University, Belgium
- 10:10 – 10:40**                    **OPENING KEYNOTE: Gaps in understanding of sedimentary bedforms in the ancient, the present, the extraterrestrial and the kitchen**  
**Maarten Kleinhans**  
Professor at Utrecht University, The Netherlands
- 10:40 – 10:50**                    **1-minute poster presentations**
- 1 *Conceptual model of object burial in turbid waters on a sandy seabed*  
M. Baeye et al.
  - 2 *A GIS-based hydrographic resurvey strategy of the Belgian Continental Shelf*  
N. Bos et al.
  - 3 *Developments in the North Sea wide resurveying and charting of dynamic sand wave areas*  
L. Dorst, T. Dehling & C. Howlett
  - 4 *Sand waves morphology and small-scale migration at a macrotidal tropical estuary (São Marcos bay, Brazil)*  
F. Chagas et al.
  - 5 *Complex morphology and organisation of dunes in a giant dunes field*  
T. Garlan et al.
  - 6 *Deciphering mega-ripple variability in an anthropogenically-steered environment: implications for mine burial studies*  
S. Papili, M. Baeye & V. Van Lancker
  - 7 *Influence of dunes on alternate bar migration in a sandy gravel river: the Loire (France)*  
S. Rodrigues et al.
  - 8 *Impact evaluation of marine aggregate extraction through adaptive monitoring of bottom shear stress in bedform areas*  
V. Van Lancker et al.
- 10:50 – 11:10**                    **Coffee break**
- 11:10 – 12:30**                    **SESSION 1: BEDFORM EVOLUTION AND PROPERTIES**  
**Chair: Thomas Wever**
- 11:10 – 11:30                    *Short and long term evolution of deep giant submarine dunes in continental shelf environment: the example of the "Banc du Four" (Western Brittany, France)*  
P. Franzetti et al.
- 11:30 – 11:50                    *Amplified sediment waves in the Irish Sea (AmSedIS)*  
K. Van Landeghem et al.
- 11:50 – 11:57                    *Bedform characterization in river channel through 2D spectral analysis*  
A. Lisimenka & S. Rudowski
- 11:58 – 12:05                    *Burial Recording Mines: a valid technique to study bedform migration and storm impact above the sea-floor*  
S. Papili, T. Wever & Y. Dupont
- 12:06 – 12:13                    *Morphobathymetric and sediment dynamics analysis on the Gulf of Valencia*

*Continental Slope (NW Mediterranean)*  
M. Ribó et al.

**12:15 – 12:30**

**Questions**

**12:30 – 14:00**

**Lunch and poster session**

**14:00 – 14:30**

**KEYNOTE: Modelling Offshore Sandwaves: Approaches, Biological Interaction and Applications**

**Suzanne J.M.H. Hulscher**

Professor at Twente University, The Netherlands

**14:30 – 15:45**

**SESSION 2: HYDRODYNAMIC AND MORPHODYNAMIC MODELLING**

**Chair: Daniel Parsons**

Professor at Hull University, United Kingdom

14:30 – 14:50

*The dynamics of bedform amalgamation: new insights from a very thin flume*  
J. Best et al.

14:50 – 15:10

*The response and hysteresis of alluvial dunes under transient flow conditions*  
A. Reesink et al.

15:10 – 15:17

*Modelling sediment pick-up and deposition in a dune model*  
O. van Duin et al.

15:18 – 15:25

*Large-eddy simulation of flow over barchan dunes*  
M. Omidyeganeh et al. (Presentation by U. Piomelli)

15:26 – 15:33

*Sand transport over a barchan dune*  
F. Charru & V. Laval

**15:33 – 15:43**

**Questions**

**15:45 – 16:00**

**1-minute poster presentations**

- 1 *An experimental investigation of 3D subaqueous interacting barchan dunes and their morphodynamic processes*  
G. Blois et al. (Presentation by J. Best)
- 2 *Numerical Modelling of flumes with moving dunes – TELEMAC3D and Sisyphe*  
A. Goll, R. Kopmann & C. Villaret
- 3 *Numerical simulation of dune morphodynamic changes for unsteady flows*  
P. Grover & A. Ferreira da Silva
- 4 *Estimation of the friction coefficient induced by marine dune using high resolution bathymetric data*  
N. Huybrechts et al.
- 5 *Flow structures and bedform dynamics around tidally-induced bars*  
C. Keevil et al.
- 6 *Selection of bedform morphology in an experimental flume under supply-limited conditions*  
N. Le Dantec et al.
- 7 *Effects of disposed sediments on local sediment transport and meso-scale morphology*  
W. Vandenbruwaene, G. Vos & Y. Plancke
- 8 *Biogeomorphology in the field: bedforms and species, a mystic relationship*  
V. Van Lancker et al.
- 9 *An equivalent bottom for navigation above irregular bottoms*  
M. Vantorre, M. Candries & E. Lataire

**16:00 – 16:30**

**Coffee break**

**16:30 – 17:45**

**SESSION 3: BIOGEOMORPHOLOGY**

**Chair: Katrien Van Landeghem**

Lecturer at Bangor University, United Kingdom

- 16:30 – 16:50 *Biogeomorphological self-organization in sandy shelf seas*  
B.W. Borsje et al.
- 16:50 – 17:10 *Physical and biological cohesion within mixed sand-mud beds: implications for erosion and bedform development*  
J.H. Baas & J. Malarkey
- 17:10 – 17:17 *A first phase in the habitat classification for the Zeeschelde: Bed form classification*  
G.R. Vos et al.
- 17:18 – 17:25 *Disposal strategy to create ecological valuable habitats in the Western Scheldt estuary*  
S. Ides & Y. Plancke
- 17:26 – 17:33 *Morphology of pillow-hollow and quilted-cover bedforms in Lake Geneva, Switzerland*  
N. Le Dantec et al.
- 17:35 – 17:45** **Questions**
- 18:30** **Reception at the City Hall of Bruges**  
**Welcome address by Marc Mosar, City of Brugge**