

Conference Programme

ICEBREAKER – Sunda	y 31 March 2019
--------------------	-----------------

18:00- 20:00	Icebreaker and registration
10.00- 20.00	icedicarci allu legisti attoli

At Haus der Wissenschaft, Sandstraße 4/5, 28195 Bremen

SCIENTIFIC PROGRAMME - Monday 1 April 2019		
08:30-09:30	Registration & poster set up	
	At Haus der Wissenschaft, Sandstraße 4/5, 28195 Bremen	
09:30-09:40	Welcome by organisers	
	Alice Lefebvre & Christian Winter	
09:40-10:20	Keynote	
	Presented by Marius Becker	
	Assoc. Prof. Dr. Pieter Roos - On the crest of sandwave modelling. Achievements from the past, directions for the future	
10:20-10:30	1-min poster presentation	
	Valérie Bellec - Sandwaves and megaripples on Spitsbergenbanken, Barents Sea	
	Mariana T.C. Parda - Occurrence of tidal sand waves in a Brazilian coastal bay: the Sepetiba case	

Thierry Garlan - Biennial Survey method of marine dunes in the French part of the North Sea shipping channel

Knut Krämer - Long-term dune dynamics in the Lower Weser Estuary

Gerald Herrling - Parametrization of bedform induced hydraulic flow resistance in coastal-scale numerical models – an evaluation of Van Rijn's empirical bedform roughness predictors

Wessel M. van der Sande - Investigating idealized modelling of estuarine sand waves

Abdel Nnafie - Modelling the impact of a time-varying wave angle on the nonlinear evolution of sand bars

Wouter de Weger - Ancient deep-water sand dunes – case study from upper Miocene outcrops in the southern Riffian Corridor, Morocco.

10:30-11:00 Coffee break and poster session

11:00-12:30	Session 1: Progress in sand waves research Chaired by Ruth Dúran and Gerald Herrling
11:00-11:20	Geert Campmans - Storm influences on sand wave dynamics: an idealized modelling approach
11:20-11:40	Johan H. Damveld - Phase-related patterns of tidal sand waves and benthic organisms: field observations and idealised modelling
11:40-12:00	Thaiënne A.G.P. Van Dijk - Environmental controls on the spatial variation in sand wave morphology and dynamics on the Netherlands Continental Shelf
12:00-12:20	Thomas van Veelen - On shapes and breaks: modelling the transient evolution of tidal sandbanks
12:20-12:30	Janneke Krabbendam - Modelling the past evolution of observed tidal sand waves: the role of boundary conditions
12:30-12:40	Presentation of Journal of Geophysical Research – Earth Surface
	By A.J.F. (Ton) Hoitink, Editor of JGR-Earth Surface
12:40-14:00	Lunch break and poster session
14:00-14:40	Keynote
	Presented by Christian Winter
	Prof. Dr. Dan Parsons - Enigmatic Bedforms in the Deep Sea
14:40-15:40	Session 2: Theories and concepts
	Chaired by Sabrina Homrani and Maarten Kleinhans
14:40-15:00	Burghard W. Flemming - Ripples and dunes: do flumes tell the whole story?
15:00-15:20	Marius Becker - Flow over dunes and its influence on fluid mud entrainment: A concept of the dune-mud transition in tide-controlled, coastal plain estuaries
15:20-15:40	Ronald R. Gutierrez - Towards open access of bed forms data, standardization of its analysis, and some steps to these ends
15:40-16:10	Coffee and poster session
16:10-17:30	Session 3: Methodological advances
	Chaired by Débora Koller and Jim Best
16:10-16:30	Suleyman Naqshband - Observations of low-angle dunes under shallow flow
16:30-16:50	Maarten G. Kleinhans - Tidal flats, megaripples and marsh: automated recognition on aerial images
16:50-17:10	Till Branß - Estimation of bedload by tracking supply-limited bedforms
17:10-17:20	Lars Kint - Multi-scale analysis of sandbank features optimising geomorphological mapping of sandy shelf environments: Belgian part of the North Sea
17:20-17:30	Li Wang - A combined method of 2-D submarine superposed dune morphological parameters calculation
18:00-19:00	Visit MARUM – Center for Marine Environmental Sciences
	MARUM, Leobener Str. 8, 28359 Bremen

08:30-09:10	Keynote
	Presented by Burg Flemming
	Prof. Dr. Cheng Heqin - Dune dynamics in coarse silt, sand and gravel along the main channel from the estuarine front of the Yangtze River to the Three Gorges Dam.
09:10-10:20	Session 4: Geomorphological evolution in tidal environments Chaired by Suzanne Hulsher and Nathaniel Bristow
09:10-09:20	Sabrina Homrani - Multi time-scale morphological evolution of a shell sand, dune bank in a shallow mesotidal environment.
09:20-09:30	Laura Brakenhoff - Spatio-temporal bedform patterns on an ebb-tidal delta
09:30-09:40	Giuliana A. Díaz Mendoza - Seabed features on Mecklenburg Bight based on Side-Scan Sonar imagery
09:40-10:00	Elda Miramontes - Upslope migrating sand dunes in the upper slope of the Mozambican margin (SW Indian Ocean)
10:00-10:20	Ruth Durán - Evolution of offshore sand ridges in tideless continental shelves (Western Mediterranean)
10:20-10:30	1-min poster presentation
	Christopher A. Unsworth - Testing the state of bedform equilibrium using MBES data from the Mekong River, Cambodia
	Ye Chen - The influence and interactions of delta slopes and knickpoints on bedforms within submarine channel systems
	Arnoud Slootman - Build-up-and-fill structure: The depositional signature of strongly aggradational chute-and-pool bedforms
	Jules Le Guern - Influence of migrating bars on dune geometry
	Jörg Lang - Bedform successions formed by submerged plane-wall jet flows
	Judith Y. Poelman - Improved quantification of sediment transport in lowland rivers
	Ellynn Bouvet (presented by Olivier Blanpain) - Experimental study of ripple dimensions under steady current
10:30-11:00	Coffee break and poster session
11:00-12:50	Session 5: Bedforms in unidirectional flow
11.00 12.00	Chaired by Judith Poelman and Nathan Terseleer
11:00-11:20	Julia Cisneros - Dune morphology and hysteresis in alluvial channels during long- duration floods revealed using high-temporal resolution MBES bathymetry
11:20-11:40	Timo V. de Ruijsscher - Spatial lag effects for dunes migrating over forced bars
11:40-12:00	Xuxu Wu - Near-bed turbulence dynamics and suspended sediment transport over mixed sand-clay substrates
12:00-12:20	Gaetano Porcile - Supply limited fluvial dunes
	Alice Lefebvre - Three-dimensional flow above a natural bedform field
12:20-12:40	And Letebrie Three difficultion above a flattaral bearonn field
12:20-12:40 12:40-12:50	Nathaniel R. Bristow - PIV measurements of flow around interacting barchan dunes in a refractive index matched flume

12:50-14:00	Lunch break and poster session
14:00-15:00	Session 6: Environmental management
	Chaired by Elda Miramontes and Knut Krämer
14:00-14:20	Amelia J. Couldrey - Barchan vs Monopile: what happens when a barchan dune finds an obstacle in its path?
14:20-14:30	Matthijs R.A. Gensen - River dune based roughness uncertainty for the Dutch Rhine branches
14:30-14:40	Leon Scheiber - Potential drivers for primary dune growth in the Outer Jade
14:40-14:50	Nathalie Debese - Osculatory surfaces applied to systematic errors estimation in repeated MBES surveys
14:50-15:00	Nathan Terseleer - Automated estimation of seabed morphodynamic parameters
15:00-15:10	Awards
	Presented by Alice Lefebvre & Christian Winter
15:10-15:25	Future of MARID
	Thierry Garlan
15:25-15:30	Closing words by organisers
	Alice Lefebvre & Christian Winter
15:30-16:00	Coffee Break
16:30-18:30	Bedforms-ATM course
	By Ronald R. Gutierrez
	MARUM, Leobener Str. 8, 28359 Bremen
19:00-23:00	Conference dinner
	Bremer Ratskeller, Am Markt, 28195 Bremen

FIELD TRIP - Wednesday 3 April

09:00-17:00	Excursion
09:00	Meeting in Wachtstraße, close to the Radisson Blue Hoteö
10:30-12:30	Visit of Jade Bay tidal flats and dikes in Dangast
13:30-17:00	Cruise on MS Senator
17:00	Back in Bremen