

Programme NCK days 2016

Wednesday 16 March

16.00u Sprint session Open Earth

20.00u Icebreaker at Beach Pavilion Brouw

Thursday 17 March

08.30h Registration

09.00h Opening

09.10h **Keynote:** Paul Paulus - Programme Volkerak-Zoommeer

09.45h **Session 1: Building with Nature chaired by Bas Borsje**

Maria Barciela Rial *The MarkerWadden: the influence of the sand fraction on the ripening behaviour of Markermeer sediment*

Astrid Kramer *Building with Nature in practice: Brouwerseiland*

10.15h Poster pitches

10.30h Coffee/tea break

11.00h **Session 2: Aeolian transport chaired by Gerben Ruessink**

Marinka van Puijenbroek *Embryo dune development is influenced by beach morphology and climatic factors*

Sytze van Heteren *Two thousand years of eolian activity near the old Rhine estuary preceding and following its abandonment*

Winnie de Winter *Measuring Aeolian Saltation Intensity On High Spatiotemporal Scales Using A Home-Built Saltation Detection System (Saldecs)*

Sierd de Vries *An application of a new Aeolian sediment transport model at the sand motor*

12.00h Lunch

13.30h **Session 3: (Sand) Waves and storms chaired by Henk Steetzel**

John Damen *Analysis of variation in sand waves superimposed on sand banks*

Floris de Wit *Tide-Induced Currents In A Phase Resolving Wave Model*

Angels Fernandez Mora *SINBAD project: modelling wave breaking effects on sediment transport*

Hao Wang *Coupling area model to coastline and profile models: nice prospects for fast and long term computations*

Jasper Donker *Dune recovery and development in the aftermath of the Sinterklaasstorm*

Jelmer Veenstra *Operational storm early warning system in Morphan*

15.00h **Excursion**

Wear sturdy boots and protection against potential showers; the beach is very exposed!

18.15h Drinks & dinner

Friday 18 March

08.30h Registration

09.00h **Session 4: Human impacts chaired by Thijs van Kessel**

Petra Dankers *Effect of dredging on fine sediment dispersion along Dutch coastline*

Lodewijk de Vet *Human impact on intertidal flats in the Eastern and Western Scheldt*

Yorick Broekema *Observations of Flow and Turbulence at the Eastern Scheldt Storm Surge Barrier*

Lynnyrd de Wit *Determination of backfill for sand placement near a trench*

10.00h Poster pitches

10.15h Coffee/tea break

10.45h **Session 5: Innovative observational techniques chaired by Bram van Prooijen**

Janine Nauw *Tidal energy extraction in the Marsdiep inlet: BlueTEC: world's 1st floating Tidal Energy Converter*

Roeland de Zeeuw *The future in coastal engineering is now: drone with LiDAR*

Els Knaeps *Water Quality Monitoring Using New Sentinel Satellite Data*

Josh Friedman *X-band radar derived high resolution bathymetry and hydrodynamics*

Yvonne Smit *Quantification of spatial variability in surface moisture on a sandy beach by using an infrared terrestrial laser scanner*

12.00h Lunch

13.30h **Session 6: estuaries chaired by Mick van der Wegen**

Evelien Brand *The driving mechanisms behind morphological changes in the Western Scheldt mouth area over the past two centuries – a data analysis*

Jasper Leuven *Bar dimensions and shapes in estuaries*

H. Elmilady *3D sediment dynamics in an estuarine strait*

V. Marco Gatto *Tide-Induced and Lag-Driven Sediment Transport In The Wadden Sea: Towards a Fully Eulerian Perspective*

Maarten Kleinhans *Turning the tide: effects of river inflow and tidal amplitude on sandy estuaries in the Metronome tidal laboratory facility*

14.45h Coffee/tea break

15.15h **Session 7: Ecology chaired by Martin Baptist**

Barend van Maanen *Modelling the effects of sea level rise on tidal channel networks and mangrove habitat evolution*

Tisja Daggars *A model to assess intertidal microphytobenthic primary production at the macro scale using satellite imagery*

Sophie van Zanten *Ecosystem service dynamics of the sand engine*

Simeon Moons *Shaping the coast(al community)*

16.15h Closure

Best presentation and poster award