

# **Ems-Scheldt Workshop 2018**

**Delmenhorst, February 8 – 9, 2018**

## **Organizers:**

**Dr. Thomas Badewien**

University of Oldenburg, ICBM, Germany

**Dr. Henk Schuttelaars**

Delft University of Technology, The Netherlands

**Ir. Yves Plancke**

Flanders Hydraulics Research, Antwerp, Belgium

## Thursday, February 8, 2018

11.00 Arrival, Tea/Coffee

11.55 D. Meyerdierks: Welcome address  
Opening

### Session 1

12.00 B. Brinkman:  
*An ecosystem model for the Ems-Dollard*

12.30 A. Nnafie, B. De Maerschalck:  
*Morphodynamic impact of sea level rise on the western Scheldt estuary and its mouth region: Insights from an idealized modeling study*

13.00 Lunch

### Session 2

14.00 D. Oberrecht, A. Wurpts:  
*Modeling Fluid Mud in the Ems estuary: Numerical Validation by detailed tidal cycle measurements*

14.20 G. Schramkowski, R. Brouwer, Y. Dijkstra, H. Schuttelaars:  
*The effect of hindered settling on the occurrence of high sediment concentrations*

14.40 Y. Dijkstra, H. Schuttelaars, G. Schramkowski, R. Brouwer:  
*An idealized modelling study into the transition of the Ems River Estuary to a hyperturbid state*

15.00 T. van Kessel, M. de Lucas:  
*Mud dynamics and hyperturbidity in the Scheldt: linking models, idealised models and reality*

15.30 Tea/Coffee break

### Session 3

16.00 H.M. Schuttelaars, X. Wie:  
*Three-dimensional sediment dynamics in tidally dominated estuaries: influence of time-dependent stratification.*

16.20 J. Pein, A. Valle-Levinson, E. V. Stanev:  
*Effect of channel curvature on the salinity intrusion in idealised and real estuaries*

16.40 F. Van de Meutter, J. Speybroeck, J. Vanoverbeke, B. Vandevoorde, N. De Regge, O. Bezdenjesnji, A. Van Braeckel, E. Van den Bergh, G. Van Ryckegem:  
*Understanding macrobenthic abundances in the oligohaline section of the Scheldt river after the trophic shift: preliminary results of a large in-situ enclosure experiment.*

17.00 V. N. de Jonge, U. Schüchel:  
*There is life in troubled waters, but ...*

- 17.30 Integral discussion and summary of day 1  
V. de Jonge: *Data concerning sediment pathways in the Ems-Dollard system*
- 18.00 Dinner at HWK

## Friday, February 9, 2018

- 8.30 Arrival

### Session 4

- 9.00 B. Jacob:  
*Hydrodynamics and sediments in the estuaries and the coastal zone of the German Bight.*
- 9.20 L. Perk, A. Nnafie:  
*Cyclic behavior of a shoal-channel system in the western Scheldt estuary*
- 9.40 T.M. Hepkema, H.E. de Swart, A. Zagaris, M. Duran-Matute:  
*Sensitivity of tidal characteristics in channel systems to momentum dissipation on tidal flats*
- 10.00 T. Lanckriet, J. van der Werf, B. Huisman, R. Schrijvershof, G. Leyssen, G. Van Holland, D. Depreiter:  
*Morphological response of sediment disposal in the deep section at Hansweert, Western Scheldt.*
- 10.30 Tea/Coffee break

### Session 5

- 11.00 B. van Maren:  
*Predicting the effect of mitigating measures on morphology and turbidity in the Ems Estuary: the importance of long-term equilibrium.*
- 11.20 G. Van Holland, G. Leyssen, T. Lanckriet, K. Delecluyse, D. Depreiter:  
*Multivariate analysis of the impact of dredging activities on suspended sediment concentrations in the Scheldt Estuary using the OMES-database*
- 11.40 Z. B. Wang:  
*The Yangtze Delta, a delta in fast transition*
- 12.00 M. J. Baptist:  
*Ecological perspective for the hydromorphological improvement Ems-Dollard 2050; Assessment of the ecological targets for the Ems-Dollard for six hydromorphological measure directions*

12.30 Lunch

13.00 Integral summary of the workshop and ways to go ahead

B. van Maren: *Measuring campaign – River Ems 2018 and 2019*

N.N.: *The measurements being done in the Scheldt system/measurements available*

15.30 End of the workshop