

Programme Ems-Scheldt Symposium 2022

Thursday 16 June

10.30 – 11.00 *Doors open, with coffee and tea*

11.00 – 11.10 *Opening and welcome - Ton Hoitink*

11.10 – 11.30 *Investigating sediment transfers between macrotidal estuaries and coastal seas: Numerical modelling of the Gironde Estuary (France) – Florent Grasso*

Session 1: Reconstructing the past

Chair: Ton Hoitink

11.30 – 11.50 *Flanders Hydraulics Research: 90 years of data measurement in the Scheldt - Steven Kaptein*

11.50 – 12.10 *Estuarine responses to embankment of the Dollard basin – Reinier Schrijvershof et al.*

12.10 – 12.30 *Is the tidal range in the Ems estuary still increasing? – Anna Wünsche et al.*

12.30 – 13.30 *Lunch break*

Session 2: Predicting the future

Chair: Henk Schuttelaars

13.30 – 13.50 *A new harmonic regression approach to predict estuarine salinity variation subject to storm surge effects – Daan van Keulen et al.*

13.50 – 14.10 *Assessment of the long-term morphological evolution of the Upper Sea Scheldt using wet cross-section to tidal amplitude (A/P) relationship in response to large scale modifications – Gijsbert van Holland et al.*

14.10 – 14.30 *Predicting 40-year seabed evolution of Eems estuary for optimal OWF export cable burial towards Eemshaven – Luitze Perk et al.*

14.30 – 15.30 *Break with refreshments*
Optional: visit to ongoing experiments in the Kraijenhoff van de Leur Laboratory for Water and Sediment Dynamics

15.30 – 15.50 *How will the Western Scheldt morphodynamics develop under scenarios of sea level rise and dredging? – Mick van der Wegen et al.*

15.50 – 16.10 *Estuarine regime shifts – Roeland van de Vijssel et al.*

16.10 – 16.30 *Plenary discussion to identify knowledge gaps*

16.30 – 20.00 *Drinks and dinner in Omnia*

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Friday 17 June

09.00 – 09.30 *Doors open, with coffee and tea*

Session 2: Understanding the present - monitoring Chair: Thomas Badewien

09.30 – 09.50 Development and Challenges of different measurement Systems and Strategies for the River Ems – *M. Gerriets et al.*

09.50 – 10.10 Using (Sediment-)Echosounders to survey Fluid mud – *Christian Maushake*

10.10 – 10.30 Turbulence measurements in the fluid mud reach of the Ems estuary – *Marius Becker et al.*

10.30 – 10.50 Acoustic measurements of sediment dynamics in the Ems Estuary – *Bart Vermeulen et al.*

10.50 – 11.20 *Break with coffee and tea*

Session 2: Understanding the present - processes Chair: Steven Kaptein

11.20 – 11.40 Lessons learned from field measurements to improve the model(ing) of tidal flats – *Bram van Prooijen*

11.40 – 12.00 Flocculation process and seasonal variation of SPM in the Scheldt – *Qilong Bi et al.*

12.00 – 13.00 *Lunch break*

13.00 – 13.20 3D simulation of fluid mud dynamics in the Ems estuary – *Marie Naulin et al.*

13.20 – 13.40 Wind forcing on salt intrusion – *Henk Jongbloed et al.*

13.40 – 14.00 Measuring sediment exchange between the Ems estuary and lower Ems river – *Bas van Maren et al.*

14.00 – 14.20 Exploring the effects of sediment transport over the Geise dam on the concentration and transport in the Ems – *Yoeri Dijkstra et al.*

14.20 – 15.00 *Plenary discussion, closure, and refreshments*

