

16th Polish - German Seminar

Szczecin, 27 – 28 September, 2018

Monitoring and modeling of the Baltic Sea Coast evolution

Preliminary time table

Wednesday, September 26, 2018

6 pm Venue and accommodation (grill dinner)

Thursday, September 27, 2018

9 am Welcome and Introduction

9:20 - 11:00 Session 1

9:20-9:40 Jürgen **Sündermann** (University of Hamburg): 40 years of German-Polish cooperation in coastal oceanography and engineering.

9:40-10:00 Ulrich **Bathmann** (IOW / University of Rostock): The international challenges for Baltic Sea research.

10:00-10:20 Stanislaw **Musielak** (IMCS US): Coastal research of the IMCS.

10:20-10:40 Jan **Harff** (IMCS US /IOW): Drivers of the Baltic Sea coastal changes.

10:40 - 11:00 Coffee break

11:00 - 13:00 Session 2

11:00-11:20 Hans **von Storch** (HZG Geesthacht Hamburg): The temporal dimension of adaptation to changing climatic risks.

11:20-11:40 Szymon **Uścińowicz** (Polish Geological Institute): Origin, age and evolution of the Vistula Spit as inferred from multiproxy research.

11:40-12:00 Birgit **Hünicke** (HZG Geesthacht Hamburg): Baltic Sea level change revisited.

12:00-12:20 Paweł **Sydor** (Polish Geological Institute): Development of the barrier coast in the eastern part of Pomeranian Bay – preliminary results.

12:20-12:40 Tina **Kunde** (The Coastal Research Station): Reconstruction of late Pleistocene-Holocene landscape evolution in relation to sea level changes.

12:40-13:00 **Discussion**

13:00 - 14:00 Lunch

14:00 - 15:40 Session 3

14:00-14:20 Kazimierz **Furmanczyk** (IMCS US): The need of complex monitoring of the coastal zone.

14:20-14:40 Grzegorz **Uścińowicz** (PIG): The geological mapping of the southern Baltic coastal zone research program of the polish geological survey.

14:40-15:00 Mirosława **Ostrowska** (Institute of Oceanology PAS): Monitoring of the southern Baltic coastal waters in the light of the SatBałtyk System data.

15:00-15:20 Małgorzata **Robakiewicz** (Institute of Hydro-Engineering PAS): Assessment Salinity variability in the Puck Bay – monitoring due to brine discharge.

15:20-16:00 **Discussion**

15:40 - 16:00 Coffee break

16:00 - 17:40 Session 4

- 16:00-16:20 Karsten **Obst** (LUNG M-V Güstrow): Analyses and prediction of coastal changes in NE Germany.
- 16:20-16:40 Piotr **Szmytkiewicz** (Institute of Hydro-Engineering PAS): The method of the assessment of coastal zone erosion in Poland.
- 16:40-17:00 Wenyan **Zhang** (HZG Geesthacht Hamburg): Modeling seasonal-to-decadal shoreface-beach-dune evolution along the southern Baltic Sea coast.
- 17:00-17:20 Natalia **Bugajny** (IMCS US): Modeling short-term coastal changes (Dziwnow Spit example).
- 17:20-17:40 Andrzej **Giza** (IMCS US): Analyzing and modeling land use/cover change in the coastal zone (the Pomeranian Bay, Poland).
- 17:40-18:30 **Discussion**
- 19:00 **Official dinner**

Friday, September 28, 2018

9:00 - 10:40 Session 5

- 9:00-9:20 Hans **Burchard** (IOW / University of Rostock): The Knudsen theorem applied to exchange flow in the Baltic Sea. (long-term analysis of exchange flow in the Western Baltic Sea)
- 9:20-9:40 Witold **Cieřlikiewicz** (Institute of Oceanography University of Gdansk): A statistical study of long-term wind wave hindcast data for the southern Baltic Sea.
- 9:40-10:00 Thomas **Pohlmann** (University of Hamburg): The effect of offshore wind farms on ocean dynamics.
- 10:00-10:20 Jan **Jędrasik** (Institute of Oceanography University of Gdansk): Currents and water exchange between the Pomeranian Bay and the Szczecin Lagoon.
- 10:20-10:40 **Discussion**
- 10:40 - 11:00 Coffee break

11:00 - 12:40 Session 6

- 11:00-11:20 Peter **Fröhle** (TU Hamburg): Coastal protection on subsiding coast.
- 11:20-11:40 Joanna **Dudzinska-Nowak** (IMCS US): Monitoring of the coastal zone morphodynamic based on remote sensing aided research.
- 11:40-12:00 Maritime Office Szczecin presentation
- 12:00-12:20 Maritime Office Gdynia presentation
- 12:20-12:40 Tomasz **Marcinkowski** (Maritime Institute/Technical University Gdansk): How far model can be effective in prediction of Low Crested Structures response?
- 12:40 - 13:30 **Final discussion and conclusion**
- 13:30 - 14:30 Lunch
- 14:30 - 18:00 **Field session**