

#### Venue

The conference will be held in Rostock, a nearly 800 years old Hanseatic city in the northeast of Germany. It is the largest and economically most important city in the German federal state Mecklenburg - Western Pomerania. Rostock has a major Baltic Sea harbour for ferry traffic and cargo handling and one of the largest harbours for cruise liners in Germany. The location at the sea, the harbour, the Hanseatic league history and its gothic brick architecture as well as the University of Rostock, founded in 1419 as the oldest university in Northern Europe, characterize the city.

As venue the marine resort "Yachthafenresidenz Hohe Düne" in Rostock-Warnemünde has been chosen. The conference center is located directly at the beautiful Baltic Sea coast, at a proposed Olympics marina, only 5 minutes walk from the nice sandy beach and a 5 minutes drive brings you to the DredgDikes research dike facility.

# Registration fees

Registration fees will be kept as low as possible and will include: attendance of the conference, proceedings, lunches, coffee breaks, conference dinner, and the excursion to the test dike facility. For students reduced fees will be offered.

## Accomodation

There are rooms available in the Yachthafenresidenz Hohe Düne for the special rate of 99 € per night (single room) and 139 € per night (double room), including the use of the extensive spa. Also, there are a variety of nice hotels and guest-houses in Warnemünde and Markgrafenheide in all price categoreis. More information will be given in the following bulletins.

The conference will be held under the auspices of BWK and HTG.







#### Committees

Organising committee Fokke Saathoff (Chairman) Stefan Cantré Elisabeth Nitschke Michael Henneberg Ricarda Neumann

## Scientific committee

Fokke Saathoff, Germany Zbigniew Sikora, Poland Arnoldas Norkus, Lithuania Göran Holm, Sweden Lech Balachowski, Poland Mohamed Boutouil, France Stefan Cantré, Germany Marcin Cudny, Poland Remigiusz Duszynski, Poland Julia Gebert, Germany Jürgen Grabe, Germany Michael Henneberg, Germany Giis Hoffmans. Netherlands Martin Pohl, Germany Klaus Waßmuth, Germany Martin Ziegler, Germany

#### Contact



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Congress website: www.dredgdikes.eu



# South Baltic Conference on Dredged Materials in Dike Construction

Rostock / Warnemünde 10 - 11 April 2014

Bulletin 1
Call for papers

www.dredgdikes.eu



Part- financed by the European Union (European Regional Development Fund)



#### Invitation

The chair of Geotechnics and Coastal Engineering at the University of Rostock and the DredgDikes project consortium, together with the German Association of Environmental Engineers BWK and the German Port Technology Association HTG warmly invite you to participate in the South Baltic Conference on Dredged Materials in Dike Construction, being held in Rostock/ Warnemünde from 10 to 11 April 2014.

# Scope of the conference

Dredging is a constant process along the Baltic Sea coasts and in both natural and artificial waterways. While most of the dredged materials are sandy and non-contaminated and thus can be either directly used as construction material, relocated in the water body or dumped in the Baltic Sea, fine-grained organic sediments usually have to be taken ashore, where waste management laws apply. However, these materials have a good potential to be reused beneficially, particularly in landscaping and agriculture, but also in geotechnical applications.

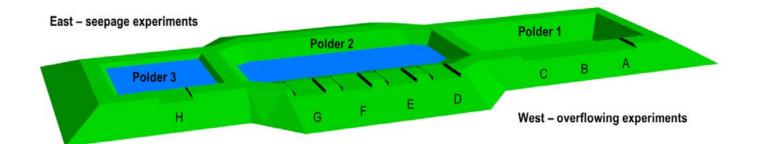
The conference is the first of two final conferences of the project Dredg-Dikes, dealing with the use of dredged materials in dike construction in the south baltic region. Therefore the conference will cover all aspects of the use of dredged materials as construction materials in geotechnical applications with particular focus on dike construction.

#### Conference format

Thursday, 10 April 2014 Sessions, Excursion, Conference Dinner Friday, 11 April 2014 Sessions

## **Excursion**

An excursion to the Rostock research dike facility will be organised on Thursday, 10 April. The research dike is located on the Hanseatic City of Rostock's containment area "Radelsee" only a 5 minutes drive from the venue. On the research dike different dredged materials have been installed which can be evaluated on the excursion. Also the extensive instrumentation can be seen and hopefully an overflowing experiment can be performed on site.



## Call for papers

Papers in **English language** for both oral and poster presentation are welcome on the following topics:

- geochemical and geotechnical characterisation of dredged materials and composite materials containing dredged materials
- legal background for the beneficial use of dredged materials in geotechnical applications
- utilisation of fine-grained organic dredged materials in geotechnical applications
- 4. utilisation of composite materials containing dredged materials in geotechnical applications
- geosynthetic solutions to improve dredged materials used in geotechnical applications
- special aspects and case studies for the use of dredged materials in dike constructions

Abstracts should not exceed 3000 characters text and a maximum of 5 figures and should contain complete author and contact data. Please indicate the topic of your contribution using the above list. Abstracts can be submitted via email to dredqdikes@uni-rostock.de.

If there are any questions please feel free to contact us.

# Important dates

Deadline for abstracts: 15.09.2013 15.10.2013

Acceptance of abstracts: 31.10.2013 Deadline for full papers: 15.12.2013

Further information, also about the type of publication for the conference proceedings and the review process, will be given in later bulletins.

## Partner conference

The second DredgDikes final conference will be held in Gdansk, 5-6 June 2014 with the title: South Baltic Conference on New Technologies and Recent Developments in Flood Protection. Gdansk University of Technology together with the DredgDikes consortium will invite warmly to this conference. Information will also be provided on the project website.

# The project DredgDikes

The project DredgDikes was initiated by the University of Rostock and Gdansk Technical University to investigate the application of dredged materials, geosynthetics and different ash-composites in dike construction. The international cooperation project is part-financed by the EU South Baltic Cross-border Co-operation Programme 2007-2013.

There is an increasing regional shortage of glacial limy marl, which is usually used as dike cover layer along the Mecklenburg-West Pomeranian (M-V) Baltic Sea coast. Due to both ecological and economic reasons the project aims to replace these materials with dredged materials (noncontaminated, ripened muds and sediments).

Therefore the rather fine-grained batches of the dredged materials from river deltas, coastal backwaters (Bodden), lakes and marine waterways of M-V will be used for dike cover layers. The materials often show organic contents of up to ten per cent. The use of Geosynthetics shall level inhomogeinities of the dredged materials and also allow for steeper slopes than usually applied. Rolled erosion control products are used against surface erosion and for root reinforcement, geogrid reinforcement to minimise shrinkage cracking and drainage composites to control the seepage line inside the dike cross-sections.

In Gdansk sand-ash composites are investigated with respect to their applicability in dike construction. On the one side sandy dredged material is improved with particular ashes, so that it can be used as dike cover material, on the other hand investigations will show how ash-sand mixtures can be used to build stable dike cores.

To investigate the different dredged materials and material combinations both in Rostock and Gdansk full scale test dikes have been built. A large number of measurements are being performed, including geotechnical field measurements, vegetation monitoring, control of the filtrate water with respect to potential contaminants, as well as seepage and overflowing tests.

All project findings will be summarised in a multilingual best practice guideline about the application of dredged materials in dike construction. It will be the basis for planning and approval of such projects, addressing planners, authorities, and construction companies. The guideline will be developed in close cooperation with the associated partners to meet all their requirements with respect to such a guideline.