

INTERNATIONAL CONFERENCE ON SHIP MANOEUVRING IN SHALLOW AND CONFINED WATER: BANK EFFECTS

May 13-15, 2009, Antwerp, Belgium

Organised by Flanders Hydraulics Research and Ghent University – Maritime Technology Division in association with the Royal Institution of Naval Architects



Overview

During the last decades a continuous increase of the main dimensions of certain ship types can be observed. On the other hand, the dimensions of access channels, rivers, canals and ports frequented by these vessels often do not increase at the same rate. As a result, the behaviour of ships arriving at or departing from harbours will increasingly be influenced by waterways restrictions. The asymmetric flow around a ship induced by the vicinity of banks causes pressure differences between port and starboard sides. As a result, a lateral force will act on the ship, mostly directed towards the closest bank, as well as a yawing moment pushing her bow towards the centre of the waterway. This phenomenon, known as *bank effect*, depends on many parameters, such as bank shape, water depth, ship-bank distance, ship properties, ship speed and propeller action. A reliable prediction of bank effects is important to determine the limiting conditions in which a ship can safely navigate a waterway.



However, the knowledge of the bank effects induced by the typical bank geometries is very limited. The *International Conference on Ship Manoeuvring in Shallow and Confined Water: Bank Effects* will offer researchers and pilots the possibility to discuss the latest developments in research and practice related to the ship behaviour in the vicinity of banks.

For more information logon to www.bankeffects.ugent.be.

Content

Papers are invited on all aspects in the field of navigation along river banks (flooded, surface pierced, sloped), quay walls and approach constructions. Topics may include:

- ⌚ Experimental research;
- ⌚ Numerical modelling;
- ⌚ Simulations;
- ⌚ Hands on practice.

If you wish to submit an abstract for this event, please send a short abstract (250 - 300 words) to info@shallowwater.be. Do not hesitate to contact us if you want more information. The official language of the conference is English. Abstracts will be reviewed by a scientific committee consisting of members of RINA, Flanders Hydraulics Research and Ghent University.

Important dates

- ☞ Abstracts due: **November 28**, 2008
- ☞ Notification of acceptance: December 19, 2008
- ☞ Full papers due: March 16, 2009

Registration fees

	Non Rina members	Rina members	Authors	Students*
Late registration (>1/3/'09)	475,- Euro	400,- Euro	400,- Euro	150,- Euro
Early registration (<1/3/'09)	425,- Euro	350,- Euro	350,- Euro	150,- Euro

Students fee exclusive conference dinner

Venue

The conference will take place at Stuurboord www.stuurboord.be in the city of Antwerp www.Antwerpen.be. Antwerp is the real urban deal, a refreshingly down-to-earth yet vivacious cosmopolitan habitat blessed with magnificent architecture, fashionable shop fronts, beer-washed pubs, dazzling monuments, jazzed-up clubs, inspired artworks and restaurant tables piled with plates of superb Belgian and multicultural food. Antwerp, home of the Flemish Baroque master Rubens, not only has a wealth of outstanding museums, picturesque galleries, sculpted streets and beautiful architecture, but is also laced with refreshing greenery and urban haunts. Its culture, history, vibrant nightlife and world class shopping are within easy reach, thanks to excellent access by air, train, motorway and even water. Antwerp, a pocket-size metropolis.

Different types of hotels can be consulted at: <http://www.antwerpen.be/eCache/BEN/16/440.html>

Getting to Antwerp:

- Antwerp is easily accessible by car with motorway connections from Brussels, Ghent, Liège and Rotterdam
- By plane from **Brussels Airport**, take a train to Brussels North Station (**Brussel-Noord / Bruxelles-Nord**), where you can take a train to Antwerpen-Centraal. You can buy a ticket for the whole trajectory in the Brussels Airport railway station. It usually takes about one hour to travel from Brussels Airport to Antwerpen. See <http://www.brail.be/main/E/index.php> for timetables and voyage planning.
- There are also direct international trains from **Amsterdam Airport (Schiphol)** to Antwerpen-Centraal.

A technical visit to Flanders Hydraulics Research <http://www.watlab.be> is planned on the third day of the conference.

Conference Secretariat

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