

Second Call for Abstracts

*Second International Conference on
Ship Manoeuvring in Shallow and Confined Water:*

Ship-to-Ship Interaction

Trondheim, 18-20 May 2011

In many situations a reduced distance between two or more ships leads to hydrodynamic interactions. This is the case for waterways with dense shipping traffic, where meeting and overtaking manoeuvres are unavoidable and where moored ships are affected by passing ships. Ship-to-ship interactions also occur between tugs and vessels during escorting or manoeuvring and berthing assistance. Another type of operations dominated by hydrodynamic interaction concerns ship-to-ship operations for cargo transfer, as is more frequently performed in oil and gas transport.

Due to increasing ship dimensions, the effect of ship-to-ship interactions in channels and harbours becomes more and more important, since the dimensions of the navigation areas are not increasing at the same rate. Also applications of ship-to-ship cargo transfers are permanently developing, and are expected to take place in more severe environmental conditions.



The *Second Conference on Manoeuvring in Shallow and Confined Water* will have a non-exclusive focus on *Ship to Ship Interaction* and will be organised by the Royal Institution of Naval Architects, Flanders Hydraulics Research and Ghent University – Maritime Technology Division, in association with the Norwegian University of Science and Technology and MARINTEK, who will host the event.

Topics

The *Second International Conference on Ship Manoeuvring in Shallow and Confined Water: Ship-to-Ship Interaction* intends to offer researchers and experts the possibility to discuss the latest developments in research and practice related to the behaviour of ships in close vicinity of each other, including the following applications:

- Lightering (oil, gas, ore, other)
- Replenishment (naval, non-naval)
- Formation control
- Tandem operation
- Moored and passing vessels
- Overtaking and meeting in channels and canals
- Ship – tug interaction

The papers presented on the Conference will cover experience from different points of view:

- Operational aspects of ship-to-ship interaction
- Simulation models for training and research
- Field observations
- Experimental results
- Numerical calculations

With respect to simulation models and numerical calculation methods for determining forces and moments due to ship-to-ship interaction, the organisers would particularly welcome papers which focus on comparisons between the output of numerical models and benchmark model test data obtained at Flanders Hydraulics Research in the frame of the project "KMB Investigating hydrodynamic aspect and control systems for ship-to-ship operations", co-ordinated by MARINTEK and financially supported by the Research Council of Norway. A selection of the model test results is made available by the project management (please mail to info@shallowwater.be to request the digital version of this benchmark data).

Papers discussing related topics in the field of hydrodynamics of ship manoeuvring in shallow and confined waters (e.g. shallow water effects, squat and ship-fender interaction) will also be considered.

2nd Call for abstracts

Authors are invited to submit an abstract of 250 – 300 words to info@shallowwater.be before **23 July 2010**.

Abstracts will be reviewed by the following international scientific committee:

Prof. Knud Benedict	University of Technology, Business and Design, Wismar	Germany
Dr. Tor Einar Berg	Marintek-Sintef	Norway
Dr. Larry Daggett	Waterway Simulation Technology	USA
Dr. Jonathan Duffy	Australian Maritime College	Australia
Prof. Katrien Eloot	Flanders Hydraulics Research	Belgium
Dr. Andreas Gronarz	Development Centre for Ship Technology and Transport Systems	Germany
Prof. Katsuro Kijima	Nagasaki Institute of Applied Science	Japan
Prof. Egil Pedersen	Norwegian University of Science and Technology	Norway
Prof. Bjornar Pettersen	Norwegian University of Science and Technology	Norway
Prof. Jo Pinkster	Pinkster Marine Hydrodynamics	The Netherlands
Prof. K-P Rhee	Seoul National University	Korea
Dr. Renato Skejic	Marintek-Sintef	Norway
Prof. Marc Vantorre	Ghent University	Belgium
Prof. Kamlesh Varyani	University of Strathclyde	UK

Fees

Registration for the conference includes admission to the conference, coffee breaks, lunches and the conference dinner.

	Non RINA members	RINA members	Authors	Students**
Early Registration*	475€	400€	400€	200€
Registration	575€	450€	400€	200€

*Early registration by April 1, 2011

**Student fees do not include conference dinner

Please log on to http://www.shallowwater.ugent.be/EN/kc_conf_sts_EN.htm or <http://www.rina.org.uk/ShipManoeuvring2011> for more information and suggested accommodation.

			<i>Knowledge Centre Ship Manoeuvring in Shallow and Confined Water</i>
			T +32 (0) 3 224 60 35 E info@shallowwater.be www.shallowwater.be