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Knowledge Centre Manoeuvring in Shallow and confined Water

Flanders Hydraulics Research | Flanders State of the Art | GHENT UNIVERSITY

July 2022

Along with the redesign of our website, the 51st newsletter of the Knowledge Centre Manoeuvring in Shallow and Confined Water, comes in a new style. In this newsletter, we give a summary of the 6th MASHCON conference.

6th MASHCON conference

The 6th MASHCON conference took place from 22 to 26 May 2022. After editions paying special attention to bank effects (Antwerp, 2009), ship – ship interaction (Trondheim, 2011), lock effects (Ghent, 2013), ship – bottom interaction (Hamburg, 2016) and wind, waves and current (Ostend, 2019), special attention was paid to port manoeuvres. The conference was hybrid and hosted by the University of Strathclyde at the Technology and Innovation Centre in Glasgow.

Prof. Mehmet Atlar gave the opening keynote speech on the GATERS project and gave an interesting overview of the advantages offered by retrofitting ships with a Gate Rudder System (GRS). The presentation concluded with impressive videos showing manoeuvres in port of a ship equipped with a retrofit GRS.

Online and on site presenters then proceeded with a mix of papers dealing with all aspects of ship manoeuvring in shallow and confined water. Researchers associated with the Knowledge Centre co-authored 6 papers in total (see below). Throughout the conference, several papers discussed the benchmark data that have been released by the Knowledge Centre, in particular the set of benchmark data on port manoeuvres that was prepared for this edition.

31 papers were presented to about 70 participants, following both on site and online. We wish to thank the authors, the participants, the International Scientific Committee and the supporting organizations for their contributions. The conference proceedings are available online and the six sets of experimental benchmark data remain available upon request. The conference was closed by Dr. Katrien Eloot, chair of the Knowledge Centre, with the announcement that the 7th MASHCON conference will be held in 2025 in Bruges, with special focus on clean power in shallow water.

Researchers associated with the Knowledge centre recently published:

Delefortrie, G., Sotelo, M., Boucetta, D. (2022) Practical Squat Assessment for a Ship Manoeuvring in Muddy Environments. Applied Ocean Research, 123, 103181, https://doi.org/10.1016/j.apor.2022.103181

Donatini, L., Herdayanditya, I., Verao Fernandez, G., Pribadi, A.B.K., Lataire, E., Delefortrie, G., Rauwoens, P., 2022. Implementation of forward speed effects on an open source seakeeping solver, in: Proceedings of the 6th MASHCON International Conference on Ship Manoeuvring in Shallow and Confined Water, Glasgow, UK, pp. 19-33.

Eloot, K., Delefortrie, G., Van Hoydonck, W., Villagómez, J., 2022. Wigley hull shallow water manoeuvring and ship to ship interaction, in: Proceedings of the 6th MASHCON International Conference on Ship Manoeuvring in Shallow and Confined Water, Glasgow, UK, pp. 35-47.

Herdayanditya, I., Donatini, L. Verao Fernandez, G., Pribadi, A.B.K., Rauwoens, P., 2022. Waves-current effect investigation on monopile excitation force employing approximate forward speed approach, in: Proceedings of the 6th MASHCON International Conference on Ship Manoeuvring in Shallow and Confined Water, Glasgow, UK, pp. 73-80.

Sotelo, M.S., Boucetta, D., Doddugollu, P., Toorman, E., Brouwers, B., Delefortrie, G., Van Hoydonck, W., 2022. Experimental study of a cylinder towed through natural mud, in: Proceedings of the 6th MASHCON International Conference on Ship Manoeuvring in Shallow and Confined Water, Glasgow, UK, pp. 222-231.

Van Zwijnsvoorde, T., Delefortrie, G., Lataire, E., 2022. Passing ship effects in shallow and confined water: open model test data for validation purposes, in: Proceedings of the 6th MASHCON International Conference on Ship Manoeuvring in Shallow and Confined Water, Glasgow, UK, pp. 255-283.

Verwilligen, J., Lataire, E., Tello Ruiz, M., Eloot, K., 2022. Evaluation of bank effects on a bulk carrier in a confined channel based on towing tank tests and full-scale measurement, in: Proceedings of the 6th MASHCON International Conference on Ship Manoeuvring in Shallow and Confined Water, Glasgow, UK, pp. 285-298.

Redesign website

A redesigned website for the Knowledge Centre Manoeuvring in Shallow and Confined Water has been launched. The website is now hosted at Flanders Hydraulics Research. We hope the new look is as refreshing and pleasing to you as it is to us! Please do have a look at the different research topics that we are specialised in and at the different facilities at our disposal to conduct our research. We also organize

events from time to time, including the international MASHCON conferences. For each conference, we release benchmark data that can be used to validate numerical tools and we strive to have our publications freely available online to anyone interested.
Enjoy the tour on Shallowwater.be.

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