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MARIN's Project Team Simulator (PTS) started in January this year and it focuses on the selling, developing and support of simulators. The group is currently active in a number of delivery and development projects.

Within PTS, a Real-time Manoeuvring Simulator can run either as a Full Mission Simulator, like the combined dredging and fishing manoeuvring one for CMO Zeebrugge, or as a Special Simulator (DNV classification) such as the one owned by TESO. This simulator became operational last November on the island of Texel and many months in advance, all TESO captains and officers were trained to handle the new Dr Wagemaker ferry that comes into service this summer!

On the development side, very interesting projects have been initiated regarding enhanced modelling of ship motions in multi-directional waves, improved interaction with other vessels (also bottom and banks), as well as a full-scale upgrade of the visual system to include the latest features from the gaming industry.

Early June, PTS sent out a mailing for a Compact Manoeuvring Simulator that can be installed in your own offices. The initial reactions are quite promising. We will keep you up-dated on the team's progress.

For more information please contact Noël Bovens (N.L.A.Bovens@marin.nl).

New PIV system available at MARIN

A new underwater, three-component Particle Image Velocimetry system (3C-PIV or stereo-PIV) is available now at MARIN for detailed flow measurements.

This system has been successfully used for the EU-project LEADING EDGE. The challenge within this project was to measure the flow near a rotating propeller in open-water condition. The experimental PIV tool yields unsteady and averaged 3D flow field and this data can be used to gain insight into the dynamics of unsteady flows and of unsteady flows with immersed bodies. PIV is also a powerful tool to validate CFD-tools and it is also possible to quickly measure the mean ship wake.

This maritime PIV system has been developed through strong cooperation between the system operator, Sirehna of France and the manufacturer, DANTEC of Denmark. This system is available from any European maritime experimental research facility on a rental basis, with operational support provided from Sirehna.

For further information please contact Jan Tukker (J.Tukker@marin.nl).



Visualisation of averaged flow fields measured at 8 planes with 3C-PIV.

New course schedule

Last spring, MARIN organised the very popular courses "Hydrodynamics of Floating Offshore Structures" and "Ship Hydrodynamics I". For 2006 the course schedule is as follows:

"Hydrodynamics of Floating Offshore Structures" March 6-10, 2006 (5 days) This course will focus on floating offshore structures. Emphasis will be on hydrodynamic and aerodynamic aspects relevant to optimising the design of monohulls, semi-submersibles, mooring layouts and DP systems.



2005 Offshore participants in action

Attention will also be paid to the statistical determination of design values in general and in particular, as a function of the simulation or test duration. The operability analysis of ships and offshore structures will be explained. Case studies will be used to explore different approaches and techniques.

"Ship Hydrodynamics I" March 20-24, 2006 (5 days)

Various hydrodynamic design aspects (resistance, propulsion, manoeuvring and seakeeping) will be presented in a balanced and integrated way. The physical background, as well as the techniques and tools available today will be dealt with. Case studies will be included to facilitate direct application of the acquired knowledge to selected practical problems. An advanced course (Ship Hydrodynamics II) will be organised in 2006.

These two courses are intended for both existing professional staff and for newcomers in the maritime industry. Participants should have a university degree in naval architecture or ocean engineering, or equivalent education or experience.

Fee: € 3,250 per course (excl. hotel accommodation).

Interested?

For registration and additional information please refer to www.marin.nl.

SNAME, Houston, October 19-21 Traditionally, MARIN is present at the 2005 SNAME Maritime Technology Conference & Expo and Ship Product



Conference & Expo and Ship Production Symposium and this year is no exception. Meet us at stand no. 426/428 to discuss the latest developments in maritime research.

Europort Maritime, Rotterdam, November 1-5 Europort Maritime, the



international maritime and inland shipping exhibition in Rotterdam is a result of a merger between Europort and Rotterdam Maritime. Visit us at stand 1306A to discuss our latest technologies.

METS, Amsterdam, November 15-17

Together with NEDCAM (shaping technology) MARIN will present its latest technologies for the yacht industry. Meet us at stand 01.610.

Marintec, Shanghai, December 6-9

This year you can also meet us in China at the All China

Maritime Conference & Exhibition, Marintec 2005. Visit us at stand 2D65 for the latest maritime R&D.

Open day MARIN, October 22

With more then 4,000 visitors during the open day in 2003, MARIN will again open its doors to the public. The event takes place at our Wageningen headquarters on Saturday, October 22, from 10 am until 3 pm. For more information please refer to www.marin.nl.

