



## Transport engineering: Big business

2012, 4th quarter  
Release date: 18/12/2012

2012 has been a truly busy year for HMC. Among new product development, expansion of the HMC crew and the flourishing start of two new joint industry projects, transport engineering was the steady factor within our walls. This business unit closes 2012 with two highly valued cooperations with J.F. Moore on performing engineering services.

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### Richmond semi submersible rig

For the J.F. Moore Group, HMC performed transport engineering works for the transportation of the Richmond semi submersible rig. In close cooperation, HMC was asked to perform motion analysis during the Richmond journey to Singapore.

site supervisory and naval architectural works on the Richmond semi submersible rig. A structural analysis was performed to check whether the structure would support newly installed equipment.



HMC used its MS-tool software suite to analyze the data and make a motion response analysis. One of our naval architects has been on site to perform a survey.

### Structural analysis

Besides the transport engineering works mentioned above, HMC also performed on

## HMC builds its future through education

The most important element in any engineering company is the people working for that organization. Outstanding engineers deliver outstanding solutions. This is why HMC values education so much. This is however not some kind of HR promotional talk. HMC invests in education, both in-house and on schools and universities. Together with the Brancheorganization Maritime Research and Consultancy (BMOC), HMC maintains close relationships with regional and national educational institutes and even started a business unit for contracted education.

### TESS

Transport Engineering Sleep– en Scheepvaart (transport Engineering towing and shipping - TESS) is one of the first solid products of HMC's business unit Maritime Education. TESS is taught at the Berechja Nautical College on Urk, but can also be taught at your organization. It provides professionals and students with deeper insight in transport engineering problems and solutions. For engineers, TESS-2 is designed. This course has a more in-depth approach and teaches engineers the ins and outs of maritime transportation.

These regular courses are complemented with dedicated seminars and courses tuned to one specific topic. Examples of these kind of courses are:

- New generation of anchor handling for offshore fields
- Transportation and Design for FPSOs and oil and gas installations
- Inspection, maintenance, selection and application of marine steel wire ropes

Dependant on the specific topic, HMC provides course materials and a teacher who masters that specific topic. Inquiries can be made through [info@hmc.nl](mailto:info@hmc.nl)

### Basic courses

Besides the TESS course, HMC also delivers basic mathematics, strength of materials and physics courses to strengthen students' basic knowledge on these topics. All courses are taught with a very practical orientation. The courses are specially designed for solving maritime engineering problems.



*“Besides TESS, HMC also provides basic courses in maritime engineering”*



## Maritime Labour Convention (MLC) takes effect in August 2013: CrewPlan helps comply to administrative MLC tasks.

Recent developments in the CrewPlan crew management system make sure that CrewPlan complies with the Maritime Labour Convention which becomes obligatory in August 2013.

CrewPlan was once designed as an administrative tool for small and medium sized shipping companies to keep track of licenses, official documents and certificates. CrewPlan automatically monitored expiry dates and provides the crewing manager with warning if a suggested change in the planning would lead to disconfirmation with rules and regulations.

to comply to the new MLC regulations taking effect on August 20th, 2013. CrewPlan helps comply to specific administrative duties for shipping companies. Besides that, CrewPlan can be opted as means to provide proof of the company's MLC compliance.

Contact us for more information through [info@hmc.nl](mailto:info@hmc.nl)



*“CrewPlan helps comply to MLC regulations”*

## MQK development update

The second generation Marine Quality Kit, HMC's mobile strain, fatigue and motions measurement instrument nears completion of the building process. During the last weeks of this year, the building process will be finalized and 2013 will start with tests periods to ensure proper functioning of the system. After the initial tests, a test voyage will be made to eliminate possible bugs, and after that the system will be taken into use.

The MQK is designed and build to provide the maritime industry with a measuring device that constantly, independently and securely measures strain, fatigue and motions of any given offshore structure or ship.

The MQK can be installed for a short period of time and re-used multiple times, making it a highly cost effective solution. It is possible to rent the system for the raw data, or let the data get processed by HMC as well. This way, clients will be able to monitor strain, fatigue and motions on cargo, special offshore operations and the like. A demonstration video is available through:



MQK during last phase of assembly

*“Soon, the MQK will be tested for operational use”*

[MQK Video](#)

For more information, please contact HMC through [info@hmc.nl](mailto:info@hmc.nl)

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