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# Newsletter



## ”Improving retention of simulator based training”

### Project description

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#### Highlights:

- Started July 2003
- Ends in December 2004
- First report January 2004
- Regular Newsletter

The project is a co-operation between 4 shipping companies (Bergesen, Kristian Gerhard Jebsen Skipsrederi, Odfjell, Neptune Shipmanagement Services), 3 simulator operators (Integrated

Simulation Centre of Singapore, Norwegian Training Center Manila, Ship Manoeuvring Simulator Centre), Kongsberg Maritime and MARINTEK. It started in July 2003 and will end in

December 2004.

The principal objective is to improve learning outcomes of simulator based training courses used by the participating shipping companies.

### Project news

The second deliverable describing the concept of blended learning and possible application of this concept by shipping companies was completed in February. Project meetings have been held in Norway and Singapore. The project manager was invited by Kongsberg Maritime to chair a workshop on pre and post simulator course activities at Kongsberg’s Simulator User Group Meeting in Rotterdam 2004.05.11.

Kristian Gerhard Jebsen Shipping (KGJS) and Norwegian Training Centre Manila (NTCM) have developed a pre course handbook and a CES based knowledge test to be used before and after the simulator course at NTCM.

Ship Manoeuvring Simulator Centre (SMSC), MARINTEK and Odfjell have started development of a dedicated pre course handbook for Odfjell’s case course on bridge team training.

### Case study progress

Neptune Shipmanagement Services (NSSPL) has had their 3<sup>rd</sup> group of officers at Integrated Simulation Centre (ISC). The post course questionnaire has been implemented and responses received for the first group of officers who completed the ISC course in July 2003. At a meeting at NSSPL in March it was proposed to investigate if the post questionnaire also could be distributed to selected groups of tanker officers completing the ISC course.

An agreement has been obtained with representatives of the tanker manning company to distribute the project’s post course questionnaire.

Bergesen has run four courses (three at SMSC and one at NTCM) in 2004. Pre course handbook in paper form has be forwarded to course participants at SMSC in due time before the course

Kristian Gerhard Jebsen Shipping (KGJS) has prepared a pre course handbook that will be forwarded to all course participants before courses at NTCM and SMSC. In 2004 5 officers have passed the course at NTCM. Post course questionnaires have been sent to officers passing courses in December 2003 and January 2004.

Odfjell Shipping has sent 19 officers to courses at SMSC and 9 to NTCM so far in 2004. Work has started to develop a specific pre course handbook for their course. A first draft will be ready by end of June.



User Group participants outside Shipping and Transport College, Rotterdam

## Case Study Progress Cont.

Kongsberg Maritime decided to run a workshop on pre and post simulator course activities at their regional Simulator User Group Meetings. The first one took place in Rotterdam in May. Total number of participants was 55. Outcomes from the workshop showed that different approaches were possible for simulator activities included in basic maritime education, short courses for shipping companies and navies. It was agreed that pre course activities should be used to increase the course participant/student's curiosity and motivation for learning. Due to lack of time post course activities was not discussed. The next workshop will take place in their regional meeting scheduled to take place in Singapore in September.

## New bridge opened at SMSC, Trondheim

On March 18<sup>th</sup> SMSC officially opened their third full mission bridge simulator. The simulator is developed in close cooperation with Kongsberg Simrad, Nor-Sap, Lilaas Finmekaniske, DnV, Norsk Hydro, Statoil and MARINTEK.



*From L to R: Trondheim mayor Rita Overvik, in company with SMSC Director Stig-Einar Wiggen and Kongsberg's Nils Albert Jensen enjoys the opening demonstration*

The bridge has been designed to support training of navigators on vessels with azimuth type propulsion and has latest version of dynamic positioning equipment. MARINTEK's new model for wave forces has been implemented for selected ship models.

### Acknowledgement

**Research Council of Norway and Maritime and Port Authority of Singapore are financially supporting the project under their Memorandum of Understanding for maritime R&D.**

### Post course questionnaires

NSSPL, KGJS and Bergesen have distributed post course questionnaires to officers on the first courses included in their case studies.

So far completed questionnaires have been returned from:

- 7 NSSPL officers
- 4 KGJS officers
- 7 Bergesen officers

A preliminary review of the responses shows that course participants in hindsight generally are positive to the actual course. They point to specific items where further improvement is possible, especially the theory parts of the courses. Methods to strengthen transfer of knowledge and skills from the simulator course to real life operation should be prioritized in the final part of the project.

### Simulator training tips:

3. **Apply the learning as soon as possible when on board. Knowledge from a training course are reduced by 50% if not applied within a month and by nearly 100% if not applied within two months**
4. **Discuss course experience with other officers. Through meaningful repetitions of course content, the learning effect may improve 30 – 110%**

### Additional information

For more information about the project go to the project web site at:

<http://www.marintek.sintef.no/eway/default0.asp?e=0&pid=209&lang=eng>

Click on "Research projects" in the left hand table of content. Click on "Research Council" in the left hand table of content

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