

# MINUTES OF MEETING

## SIMMAN 2008

SIMMAN 2008  
Meeting of organizers and co-organizers no. 10

Workshop on Verification  
and Validation of  
Manoeuvring Simulation  
Methods  
[www.simman2008.dk](http://www.simman2008.dk)

Participants

Lanfranco Benedetti (INSEAN), Yasuo Yoshimura (Hokkaido University), Frans Quadvlieg (MARIN), Riccardo Broglia (INSEAN), Joe Gorski (NSWC), Sun Young Kim (MOERI), Pierre Perdon (BEC), Zao-Jian Zou (SJTU), Takatori Hino (NMRI), Andrés Cura (HSVA), Key-Pyo Rhee (Seoul National University), Thomasz Bugalski (CTO), Fred Stern (IIHR), Kristian Agdrup (FORCE)

C.C. to

David Hess (NSWC), Hironori Yasukawa (Hiroshima Univ.), Michio Ueno (NMRI), Serge Toxopeus (MARIN), Adolfo Marón (CEHIPAR), Joe Longo (IIHR), Evgeni Milanov (BSHC), Marc Steinwand (SVA), Paolo Bulgarelli (INSEAN), Claus Simonsen (FORCE)

Date

Sept 17, 2008

Place

Fukuoka, Japan (during 25th ITTC)

No. of pages

3

Minutes taken by

Kristian Agdrup

### Action items

No.

Responsible

**Agenda**

1. Status of EFD issues.
2. Review pending action items.
3. Decision on contents of final proceedings, including which plots to use in updated comparisons.
4. Plan for completion of final proceedings.
5. Other as needed incl. next meeting.

**1. EFD issues**

Numbers below refer to action items from Minutes of Meeting #9.

**KCS:**

#1: Valle from CEHIPAR informs that PMM tests have been repeated using model from SVA and analysis is in process. Analysed results will be sent to Agdrup by Nov 1.

#2: done

#3: 2<sup>nd</sup> draft report on BSHC free model tests incl. UA was received beginning of Sept. Some questions have thus been resolved, but there are still issues:  
- data to be presented from actual t=0 (from start of run, not start of manoeuvre);  
- mean data to be used in SIMMAN comparisons where possible;  
- explanation of filtering procedure;  
- differences between repeat runs and original submitted data incl. initial yaw rate;  
- data needed for all tested GM-values.

Stern to contact Milanov for clarification.

#4: CPMC tests have been performed at MOERI. Program of covered tests to be sent to Agdrup.

- Yoshimura presented results of new free model tests carried out at IHI with a 3 m model with a GM of 5 m. These results will be made available to SIMMAN and used for comparison of simulations in 3 DOF. Time series etc. to be sent to Agdrup.  
- HSVA has performed new PMM tests in a fixed heave & pitch condition. Cura will check whether test parameters coincide with SIMMAN test cases, particularly for pure sway and pure yaw.

**KVLCC:**

#5: Correction of PMM data from ship to model SPP is in process. Corrected results to be sent to Agdrup in October.

#6: Benedetti informed that measurement errors have been found in some of the static rudder tests. Bad points to be removed and updated results sent to Agdrup

#1

Marón

#2

Stern, Milanov

#3

Kim

#4

Yoshimura

#5

Cura

#6

Kim

#7

Benedetti

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| <p>in Oct.<br/>#7: Bugalski informed that both models are now at CTO, new tests are scheduled for first week of October. Results to be sent to Agdrup as soon as possible after completion of tests.</p> <p><b>5415:</b><br/>#9: Stern to check whether IHR have received all necessary geometry files from MARIN.<br/>#10: Quadvlieg informed that error in free model data has been corrected and extra data has been added:<br/>- repeat tests (mean values to be used for SIMMAN comparisons where possible)<br/>- turning circles with other rudder angles (5, 10, 20 deg)<br/>- forces on appendages.<br/>Updated results to be sent to Agdrup in October.<br/>#11: Raw data from PMM/CMT tests should be sent to Agdrup. Will not be included in final proceedings.</p> <p><b>EFD papers</b><br/>At the date of the meeting, no EFD papers had been received, partly due to the unresolved issues above. It was decided to change the requirement from a formal paper into a <u>brief description of the tests</u>, to be included as an appendix to the final proceedings. Agdrup will distribute template to EFD participants beginning of October.</p>   | <p>#8</p> <p>#9</p> <p>#10</p> <p>#11</p> <p>#12</p>   | <p>Bugalski</p> <p>Stern</p> <p>Quadvlieg</p> <p>Quadvlieg</p> <p>Agdrup</p>  |
| <p><b><u>2. Other pending action items</u></b><br/>(refer to Minutes from Meeting #8)</p> <p>#15 - Documentation of mathematical models for all submitted simulation methods: KP Rhee informed that only methods missing were those submitted by MARIN. Quadvlieg to send information to KP, who will include overview of math models in his summary section.</p> <p>Other pending action items (#2,14,17-22) concern final comparisons and chairmen's sections for final proceedings - see below.</p>   | <p>#13</p>   | <p>Quadvlieg,<br/>KP Rhee</p>   |
| <p><b><u>3+4. Contents and plan for final proceedings</u></b></p> <p><u>EFD overview</u><br/>Chairmen will prepare summary sections (Word documents) based on presentations at workshop updated with corrected data where relevant. Deadline: end of Jan '09.</p> <p><u>Free manoeuvres (systems based methods)</u><br/>Chairmen will exchange proposals for improved selection and layout of comparison plots. Decision on final layout of plots: end of Oct '08.<br/>MARIN will make full set of updated comparison plots by end of Dec '08.<br/>Each chairman to write summary section by end of Jan '09.</p> <p><u>Forced motions (CFD based methods)</u><br/>Fourier decomposition was proposed to improve comparisons, but no decision taken. Chairmen to agree on final comparison scheme following above schedule i.e. layout fixed end of Oct '08 and final plots ready end of Dec '08.<br/>Each chairman to write summary section by end of Jan '09.</p> <p><u>Overall conclusions</u><br/>The overall conclusions will be written based on all chairmen's summary sections, deadline: end of Feb '09.</p> <p><u>Final proceedings on CD-ROM</u><br/>Final documents (Word/pdf) will be compiled and distributed to all participants by FORCE: deadline end March '09.</p> | <p>#14</p> <p>#15</p> <p>#16</p> <p>#17</p> <p>#18</p> | <p>Kim, Cura,<br/>Agdrup</p> <p>Rhee, Perdon,<br/>Quadvlieg,<br/>Agdrup</p> <p>Brogli, Gorski,<br/>Hino, Stern</p> <p>Stern, Agdrup</p> <p>Agdrup</p> |

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| <b>5. Next meeting</b><br>Next SIMMAN meeting will be held in connection with first 26 <sup>th</sup> ITTC MC meeting.<br>Preliminary date and place are: January 9 <sup>th</sup> 2009 in Rome, to be confirmed. | #17 | Stern/Agdrup |
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