MINUTES OF MEETING	SIMMAN 2007

SIMMMAN 2007
Meeting of organizers and co-organizers no. 5

Participants
Frans Quadvlieg (MARIN), Riccardo Broglia (INSEAN), Sun Young Kim (MOERI), Pierre Perdon (BEC), Zao-Jian Zou (SJTU), Hironori Yasukawa (Hiroshima University), Andres Cura (HSVA), Fred Stern (IIHR), Evgeni Milanov (BSHC), Paolo Bulgarelli (INSEAN), Kristian Agdrup (FORCE)

C.C. to
Michio Ueno (NMRI), Takanori Hino (NMRI), Suak-Ho Van (MOERI), Joe Gorski (NSWC), David Hess (NSWC), In-Young Koh (NSWC), Serge Toxopeus (MARIN), Adolfo Marón (CEHIPAR), Key-Pyo Rhee (Seoul National University), Joe Longo (IIHR), Yasuo Yoshimura (Hokkaido University), Claus D. Simonsen (FORCE)

Date	Place	
Apr 27, 2007	Bassin de Carénes, Val de Reuil, France	

No. of pages	Minutes taken by	Action items	
6	Kristian Agdrup (FORCE)		
		No.	Responsible

Agenda (as distributed by Stern prior to meeting;
0. Introductory remarks
    Overall status and timetable
    ONRG funding
1. KVLCC Captive and Free Model Tests
    MOERI
    INSEAN
    NMRI
    HSVA
    BSHC
2. KCS Captive and Free Model Tests
    CEHIPAR
    NMRI
    BSHC
    SVA
3. 5415 Captive and Free Model Tests
    FORCE/DMI
    MARIN
    BEC
    INSEAN
    IIHR
4. Systems Based Simulation Methods Comparisons: Instructions and Questionnaire
    KVLCC
    KCS
    5415
5. CFD Based Simulation Methods Comparisons: Instructions and Questionnaire
    KVLCC
    KCS
    5415
6. Detailed Plan for Workshop
    New date of workshop
    Instructions for papers and posters
    Status registration and 2nd call for participation
    Workshop program
    Other as needed

0. Introductory Remarks

Stern welcomed attendees and reviewed Agenda. Agdrup presented overall status of which model test data was available on web site/FTP server to date and which data was still missing. This is summarized in the next sections separately for each hull with main focus on the "focus tests" i.e. deep water, appended hull PMM, CMT and free model tests.

Agdrup mentioned that the executive committee has obtained funding for the workshop from ONR Global.

1. KVLCC1+2

The status of available data for KVLCC1+2 at the date of the meeting was as follows:

Model tests	
PMM app deep	1. MOERI - done, data available
	2. INSEAN - done, data available
CMT app deep	NMRI - done, data available
free model tests	1. HSVA – done, data to be sent(*)
	2. CTO – scheduled for May
	3. MARIN – scheduled for July
Geometries (iges-files)	
hull	OK
rudder	iges-file to be checked and sent(*)
propeller	1. MOERI – OK
	2. INSEAN – data to be sent (*)
	3. NMRI – data to be sent (*)
Additional data	
openwater	1. MOERI – data to be sent (*)
	2. INSEAN – data to be sent (*)
	3. NMRI – data to be sent (*)
resistance & self-propulsion	OK (included in NMRI results)
	MOERI may have data also, to be checked

(*) All missing data should be sent to Agdrup for posting on web site/FTP server **by end of May 2007**.

Itinerary for KVLCC1+2 models:
HSVA; April -> CTO; June -> MARIN; Aug -> BSHC

Additionally:
- INSEAN and MOERI will do comparative analysis of PMM results and distribute results
- Stern to contact CTO to discuss specific test program of free model tests including possible tests for system identification methods
- Cura presented trends in results of HSVA free model tests and emphasized importance of controlling and recording initial conditions at time of executing manoeuvre.

#1	Cura
#2	Broglia
#3	Broglia
#4	Ueno/ Yasukawa
#5	Kim
#6	Broglia
#7	Ueno/ Yasukawa
#8	Kim
#9	Broglia/Kim
#10	Stern

2. KCS

The status of available data for KCS at the date of the meeting was as follows:

Model tests		
PMM app deep	CEHIPAR – done, data to be sent(*)	
CMT app deep	NMRI - done, data available	
free model tests	1. SVA – done, data to be sent(*) 2. BSHC – scheduled for tests in June; data to be sent in July	
Geometries (iges-files)		
hull	OK	
rudder	OK	
propeller	1. SVA – OK 2. NMRI – data to be sent (*)	
Additional data		
openwater	SVA - OK NMRI – data to be sent (*)	
resistance & self-propulsion	OK (included in NMRI results) MOERI may have data also, to be checked	

(*) All missing data should be sent to Agdrup for posting on web site/FTP server **by end of May 2007**.

Itinerary for KCS model:
CEHIPAR; April -> BSHC; July -> FORCE

Additionally:
- Kim mentioned need for having free model tests carried out with high GM-value (additionally to the agreed 0.6m) in order to have comparative data to 3 DOF CMT tests performed at NMRI. Milanov agreed to perform such tests if possible.

#11	Marón	
#12	Steinwand/ Agdrup	
#13	Milanov	
#14	Ueno/ Yasukawa	
#15	Ueno/ Yasukawa	
#16	Kim	
#17	Milanov	

3. 5415

The status of available data for 5415 at the date of the meeting was as follows:

	5415
Model tests	
PMM app deep	FORCE – done, data available
CMT app deep	-
free model tests	MARIN – done, data to be sent(*)
Geometries (iges-files)	
hull	OK
rudders & appendages	OK
propellers	OK
Additional data	
openwater	MARIN data to be posted
resistance & self-propulsion	FORCE may have data, to be checked

(*) All missing data should be sent to Agdrup for posting on web site/FTP server **by end of May 2007**.

Itinerary for 5415 model:
BEC; May -> MARIN

Additionally:
- INSEAN bare hull PMM data to be sent to Agdrup for posting
- INSEAN bare hull PMM and UA report to be distributed
- BEC bare hull CMT report is almost ready and will be sent to Agdrup soon; PIV

#18	Quadvlieg
#19	Agdrup
#20	Agdrup
#21	Broglia
#22	Broglia
#23	Perdon

measurements of wave pattern are being analysed; UA work is in progress - MARIN has decided to perform bare hull PMM and CMT tests, which are scheduled to take place in Sept '07, date to be confirmed	#24	Quadvlieg

The **model test plan** is hereby updated as follows:

Hull	PMM app. deep	PMM app. shallow	PMM bare deep	PMM bare shallow	CMT app. deep	CMT bare deep	Free app. deep
KVLCC 1	MOERI (1999) INSEAN (oct 2006)	INSEAN (oct 2006)	-	-	NMRI (dec 2006)	-	HSVA (nov 2006) CTO (may 2007) MARIN (july 2007)
KVLCC 2	MOERI (1999) INSEAN (oct 2006)	INSEAN (oct 2006)	FORCE/ INSEAN (jan 2006) BSHC (jul 2007)	FORCE/ INSEAN (jan 2006) BSHC (jul 2007)	NMRI (dec 2006)	-	HSVA (nov 2006) CTO (may 2007) MARIN (july 2007)
KCS	CEHIPAR (dec 2006)	-	-	-	NMRI (dec 2005)	-	SVA (apr 2006) BSHC (jun 2007)
5415	FORCE (2000)	-	FORCE (2004) IHHR (2005) INSEAN (2005) MARIN (sep 2007)	-	-	BEC (sep 2006) MARIN (sep 2007)	MARIN (2000)

Key: Fields in green are tests that have been finalized to date, in dark colour if test data is available for download. Columns headers in grey are "focus tests" that form the primary basis for comparison at the workshop.

4. Systems based simulation methods comparison The proposal for **instructions** prepared by Quadvlieg will cover all hulls. It was agreed that this document should be revised before posting on web site. This was done directly after meeting by Quadvlieg, Perdon and Agdrup. The latter to write up final version and distribute to others before posting.	#25	Quadvlieg/KP Rhee/Perdon/ Agdrup
Questionnaire: To be prepared by Quadvlieg/Agdrup and distributed to others.	#26	Quadvlieg/ Agdrup

Comparison: The list of responsible persons is as follows:
    KVLCC1+2: KP Rhee
    KCS: Quadvlieg
    5415: Perdon and Hess
    coordination by Agdrup		

5. CFD based simulation methods comparison As agreed earlier the **instructions** will be split up into separate guidelines for each hull: **KVLCC1+2** – has been prepared by Hino, to be posted **KCS** – test protocol from CEHIPAR PMM tests to be sent by Agdrup to Hino, who will prepare instructions for KCS similarly to KVLCC's	#27 #28	Agdrup Hino/Agdrup

5415 – has been prepared by Stern, to be posted	#29	Agdrup
Questionnaire: has been prepared by Hino, to be posted	#30	Agdrup

Comparison: Broglia offered to take the responsibility on comparison of CFD results for KCS. The list of responsible persons is thereby as follows:
     KVLCC1+2: Hino
     KCS: Broglia
     5415: Gorski
     coordination by Stern		

6. Detailed plan for workshop **New date of workshop** As a consequence of the fact that not all model test data and most of the instructions for the participants was not available at the date of the meeting, the executive committee proposed to postpone the workshop and thereby the deadline for submittal of data and papers. There was general agreement to move the workshop to Spring 2008. This means that the workshop will take place on: **April 14th-16th 2008** The new deadline for submittal of data and papers will be December 31st 2007. The web site will be updated accordingly. The new dates will be announced in the following ways: - e-mail call to participants (2nd Call for participation, see below) - ITTC News (next issue in June) - web site	#31 #32	Stern Agdrup
Instructions for papers and posters To be prepared. It was agreed to re-use procedures from other workshop/conference.	#33	Stern/Agdrup
Status registration and 2nd call for participation Agdrup presented a list of the replies to the first Call for participation. Generally the response has been satisfactory and a substantial number of persons have shown interest in the (new) workshop. At the date of the meeting, a total of 26 persons/groups have indicated that they definitely intend to participate and other 17 persons/groups have indicated that they may possibly participate. Most of these intend to participate using several hulls and many using more than one method. The estimated number of participants is still around 70 persons. The 2nd Call for participation will be sent out no later than June 30th and should include mention of new workshop date and deadlines.	#34	Stern/Agdrup
Update of web site and FTP server All test data as well as missing instructions should be available on web site/FTP server no later than June 30th.	#35	Agdrup
Workshop program The program for the 3-day workshop was revisited and discussed briefly with no substantial modifications. At present there is no person appointed to present the overview of model tests for KCS. Stern to ask Steinwand/SVA and/or Ueno/NMRI.	#36	Stern
7. Action items from previous meeting The status of action items from Meeting No. 4 (see simman2007.dk) was checked. Those items not finalized or covered elsewhere in these Minutes are as follows: #21 – CFD instructions: propose plots to replace derivatives #22 – CFD instructions: add background – skipped #24 – INSEAN shallow water PMM problems – report almost ready #25 – possible free model tests in Japan – skipped	#37 #38	Cura Broglia

| **9. Next meetings**
- Executive committee: June 25th 2007 at FORCE, Denmark
- Comparison subcommittees: Jan 19th 2008 at MARIN, Holland (directly after ITTC MC meeting) | | |