MIN	IUTES OF MEETING	SIM	MAN 2007	
SIMMMAN 2007 Meeting of organizers and co-organizers no. 3			Workshop on Verification and Validation of Manoeuvring Simulation Methods	
Evgeni Milanov (BSHC), Joe Patrick Purtell (ONR), Claus	iccardo Broglia (INSEAN), Takanori Hino (NMRI), Gorski (NSWC), Andres Cura (SVA), Fred Stern (IIHR), D. Simonsen (FORCE), Kristian Agdrup (FORCE)	www.si	mman2007.dk	
Claudio Lugni (INSEAN), Mai (NSWC), In-Young Koh (NSW (CEHIPAR), Key-Pyo Rhee (S Yoshimura (Hokkaido Univer	uak-Ho Van (MOERI), Paolo Bulgarelli (INSEAN), thias Vogt (HSVA), Michio Ueno (NMRI), David Hess WC), Serge Toxopeus (MARIN), Adolfo Marón Seoul National University), Joe Longo (IIHR), Yasuo rsity), Pierre Perdon (BEC)			
June 22, 2006	FORCE Technology, Lyngby			
	Minutes taken by Kristian Agdrup (FORCE)	А	action items	
-	,	No.	Responsible	
purpose of workshop. The p October 15 th – 17 th 2007	nts and Stern gave summary of background and lanned date for the workshop was announced: (3 days) in Copenhagen.			
being re-analysed (reconstrudate. - Broglia enquired about mischeck the iges-files on the wear of the second of t	SEAN appended hull PMM tests are planned for Septeller are ready. Report on bare hull PMM tests will be issues such as speed dependency on shallow water I problem of PMM will be investigated further by IC conduct shallow water PMM tests with (one of the) CS, mainly due to more appropriate model size. In the sit was decided that BSHC should perform bare hull model from INSEAN. These tests are tentatively be confirmed. Image: The confirmed is a similar test with test program will be put on web site. It is a still test at a still test program will be put on web site. It is the still test and model transportation from INSEAN is still to free model test data for validation including a full cessary to conduct tests in a larger (wider) tank. It is dislot for such tests at MARIN and also contact is dislitities. Hino will check possible facilities in Japan. It is ded stock propellers should be made available for I and others). This will be provided by INSEAN and the sent to Agdrup for publishing on web site.	#1 #2 #3 #4 #5 #6 #7 #8 #9	Agdrup/Kim Simonsen Broglia/Lugni/Agdrup/Simonsen Milanov Agdrup Cura/Lugni Quadvlieg Hino Broglia/Hino	
- Itinerary of KVLCC1+2 INSEAN to HSVA – end Oct, HSVA to BSHC – dec 2006 BSHC to INSEAN – feb 2007	2006			

 KCS: CEHIPAR was not represented at meeting, but according to e-mail from Marón the PMM tests (4DOF, appended hull) will be carried out in October (to be confirmed). Questions from Marón reg. model transportation/data format will be replied by Cura/Agdrup. Cura explained that free model tests in SVA have been completed and results are being analysed. However due to high course instability of KCS at selected GM (0.6 m), it was not possible to perform all zig-zag tests. 	#10 #11	Marón Cura/Agdrup
- Milanov announced willingness to carry out supplementary free tests at BSHC. These tests should also cover sufficient tests to enable participants to do system identification, Milanov will propose test program. Test date is tentatively set to Dec 2006.	#12	Milanov
- CMT and PMM tests at NMRI have been performed. Hino distributed report incl. test program, open water data and selected results. Hino will send electronic version to Agdrup for update of web site/FTP server.	#13	Hino
 Propeller data i.e. drawing and open water curves should be made available. Cura will send data to Agdrup for publishing on web site. Itinerary of KCS model: 	#14	Cura
SVA to CEHIPAR – end Aug 2006 CEHIPAR to SVA – end Sept 2006 SVA to BSHC – end Nov 2006 BSHC to SVA – end Dec 2006		
5415: - FORCE PMM test data, both appended (2000) and bare hull (2004) are now available on FTP-server.		
- IHHR bare hull PMM test data to be put on FTP server. Also PIV measurements are available from these tests, should be noted on web site. - INSEAN bare hull PMM test report is finalized and will be distributed by Broglia.	#15 #16	Stern Agdrup
Test data to be put on FTP server.	#17	Broglia
- BEC was not present, but according to e-mail from Perdon the rotating arm tests (bare hull incl. bilge keels) will be carried out in September, to be confirmed. The model will be transported from FORCE to BEC on July 5 th .	#18	Perdon
- MARIN (2000) free model data should be put on FTP-server. If applicable, a subset of this data can be made available for system identification groups. Also propeller open water curves to be provided for publishing on web site.	#19	Quadvlieg
- Quadvlieg announced that MARIN is looking in to the possibility of conducting CMT with the model in the original appended configuration, to be confirmed. - Itinerary of 5415 model: FORCE to BEC – July 5 th 2006 BEC to MARIN – ?	#20	Quadvlieg
Stern/Agdrup clarified as follows regarding the costs of model transportation : The general procedure is that shipment costs are part of the expenses involved in conducting tests, i.e. the tank that borrows the model also bears the shipment costs, usually including the transportation back to the place of origin.		

KVLCC1 KVLCC2 KCS	MOERI (1999) INSEAN (oct 2006) MOERI (1999) INSEAN (oct 2006)	INSEAN (oct 2006) INSEAN (oct 2006)	- FORCE/	-	NMRI (dec	-	HSVA		
	(1999) INSEAN		FORCE/		2006)		(nov 2006)		
ccs	(OCT 2006)		INSEAN (jan 2006)	FORCE/ INSEAN (jan 2006) BSHC	NMRI (dec 2006)	-	HSVA (nov 2006)		
	CEHIPAR (oct 2006)	-	(jan 2007) -	(jan 2007) -	NMRI (dec 2005)	-	SVA (apr 2006) BSHC (dec 2006)		
5415	FORCE (2000)	-	FORCE (2004) IHHR (2005) INSEAN (2005)	-	•	BEC (sep 2006)	MARIN (2000)		
orkshop (greed to p nembers nd of Au ub-comm	ns and quest (see <a href="http://prepare dreamb-color: blue-color: blue-color</th><th>stionnaire w
/www.nmri.
raft of instrommittee for should als
then iterate
xt SIMMA</th><th>go.jp/cfd/cructions a
for compa
so be included and agree</th><th>fdws05/ind
nd questic
rison of Cl
ded for co-c
on final v</th><th>ex.html). In the contract of t</th><th>Hino and G
nd send to
methods
purposes.</th><th>orski
o other
by
The</th><th>#21</th><th>Hino/Gorsk
Cura/Stern</th></tr><tr><th>as agreedull-, prope
articipant
post-pro
ommon fo</th><th>outlined pid that focuseller- and its should docessed by or all hulls.</th><th>roposal for o
s should be
rudder force
eliver ASCII
o a dedicate
prepare dra</th><th>on ship tra
s also shou
file of time
d plotting p</th><th>ajectories, build be include series in portogram (Ma</th><th>out that " lo<br="">ded where prescribed atlab scrip	ocal forces" possible. format, wh t or other),	such as	#22	Quadvlieg/				
end to o ased me dination	ther mem thods by purposes.	end of Aug The sub-co hing on we	b-commit gust. Agdr mmittee m	tee for co up should a ust then ite	mparison also be incl rate and a	of syster uded for co gree on fir	ns- o- nal	"	KP Rhee/Hes Agdrup

				1	1
	KVLCC1+2	KCS	5415		
speed, Fn	0.142	0.26	0.28		
static drift, β	4 deg	4 deg	4 deg		
pure sway, v´	0.08	0.08	0.07		
pure yaw, r'	0.4	0.4	0.3 (*)		
yaw & drift, r´/β	0.4 / 4 deg	0.4 / 4 deg	0.3 / 8 deg (*)		
		(*) NB. at	$0.60U_0$ i.e. Fn = 0.168		
partly fixed or participants so proceedings - main content present own tests and coneach participal methods) will important/proceedings total length or observers (in participation)	tlined two different all of paper presentation workshop. The follow should prepare a postontent, probably an eshould also submit a postontent, probably and should also submit a postontent of workshop will be poster at different timparison results, respating group under eal be given 2-4 min. to oblematic/surprising of workshop should be not participating with fee will be around 50 the executive organizare next meeting (Octation and how many participations. Agdrup and Quence (June 25-30th, Near the control of the participations).	ns/poster sessions/g ving was agreed: ter documenting th extract of questionning paper that will be p nic format) poster sessions (v mes), chairman projectively) and group ch topic (e.g. KCS, so express their "most findings" e 3 days a simulation data or DO EUR ing committee will properly cicipants we could explained will paid whetherlands) were as	eir method i.e. with a aire items published in where authors will esentations (model p discussions, where systems based other) are welcome prepare new proposal spect. A rough riticipate in the	#23	Stern/Agdrup Agdrup/ Quadvlieg
5. Action items from The status of action if #1 OK #2 pending (new action) #3 pending (new #4 #4 pending (new #4 #5 pending (new #4 #6 pending (new #4 #7 pending (new #4 #8 OK #9 OK #10 pending (new #1 #11 OK #12 OK #13 OK #14 OK #15 OK #15 OK #16 OK #17 OK #18 OK #19 pending (new #1 #20 OK	ttems from Meeting Nation item #1) 6) 6) 7) 10+11) 13)		007.dk) was checked:		

6. Miscellaneous		
- Rudder turn rate is missing on web site for KCS (2.32 deg/s) and 5415 (5 deg/s) - Definition of used coordinate system is missing on web site. (Coordinate system	#27	Agdrup
is as normally used in manoeuvring i.e. x-axis positive forward of midships, y-axis	#28	Agdrup
positive to starboard from centre line, z-axis positive down from water line.)		
- Appendage geometry files for 5415 as well as additional details of the performed	#29	Quadvlieg/
free model test, available from MARIN, should be made available on web site.		Agdrup
7. Next meeting		
18 th October 2006 in Shanghai (directly after ITTC MC meeting)		
8. Post meeting update: meeting at MARSIM 2006		
Date: June 27, 2006, Terschelling, the Netherlands		
Present: K.P. Rhee, S.Y. Kim, F. Quadvlieg, C. Simonsen, K. Agdrup		
Summary: Those not present at FORCE meeting were updated on decisions made including schedule and action items. Ideas were exchanged regarding item #22		
(comparison of systems based simulations). To this end Rhee distributed "SNAME		
Mathematical-Maneuvering Model Standardized Data Sheet for ESSO 190,000 DWT		
Tanker" and Quadvlieg outlined proposal for instructions.		