

**Conference Schedule**  
(20min-presentation 10min-questions)

Hour		Sunday 16-Aug	Monday 17-Aug	Tuesday 18-Aug	Wednesday 19-Aug	Thursday 20-Aug						
Start	End											
8:00:00	8:30:00		Shuttles									
8:30:00	9:00:00		Opening Ceremony	S-9	C-9	M-9	Technical Tour	S-20	C-20	M-20		
9:00:00	9:30:00		Keynote-1	S-10	C-10	M-10		S-21	C-21	M-21		
9:30:00	10:00:00		Keynote-2	S-11	C-11	M-11		S-22	C-22	M-22		
10:00:00	10:30:00		Coffee Break			Coffee Break						
10:30:00	11:00:00		S-1	C-1	M-1	S-12		C-12	M-12	S-23	C-23	M-23
11:00:00	11:30:00		S-2	C-2	M-2	S-13		C-13	M-13	S-24		M-24
11:30:00	12:00:00		S-3	C-3	M-3	S-14		C-14	M-14	Closing Ceremony		
12:00:00	12:30:00		Lunch			Lunch			IMSF Annual General Meeting			
12:30:00	13:30:00											
13:30:00	14:00:00		S-4	C-4	M-4	S-15		C-15				M-15
14:00:00	14:30:00		S-5	C-5	M-5	S-16		C-16				M-16
14:30:00	15:00:00		S-6	C-6	M-6	S-17		C-17	M-17			
15:00:00	15:30:00		Coffee Break			Coffee Break						
15:30:00	16:00:00		S-7	C-7	M-7	S-18		C-18	M-18			
16:00:00	16:30:00		S-8	C-8	M-8	S-19	C-19	M-19				
16:30:00	17:00:00		Shuttles									
17:00:00	17:30:00											
17:30:00	18:00:00											
18:00:00	18:30:00	Shuttles										
19:00:00	19:30:00	Sightsee at Miraflores Visitors		Shuttles								
19:30:00		Conference Cocktail at Miraflores Visitors Center		Conference Banquet								

# MARSIM '09 Conference Program

## Keynote Lecture

Keynote Lecture - Day 1: 2009/8/17						
K-1	S 20	MARINER'S FACTOR AND SAFE NAVIGATION	Prof.	Hiroaki KOBAYASHI	Tokyo University of Marine Science and Technology	Japan
K-2	S 52	THE PANAMA CANAL EXPANSION PROGRAM	Mr.	Jorge L. Quijano	Autoridad del Canal de Panamá	Panama

## Maneuverability (M) Topics

Maneuverability - Day 1: 2009/8/17						
Session-1	M-1	THE NUMERICAL SIMULATION FOR THE SHIP MOTION BEHAVIOR WITH DYNAMIC POSITION CONTROL IN RANDOM WAVES	Prof.	Ming-Chung Fang, Zi-Yi Lee, Tsun-Lirng Yang	National Cheng Kung University	Taiwan
	M-2	REAL-TIME COMPUTATION OF SHIP MOTIONS IN WAVES	Prof.	Wei Qiu, Heather Peng, Brian Veitch, Randy Billard	Ocean Engineering Research Centre, Memorial University	Canada
	M-3	6-DOF MOTION SIMULATIONS OF A TURNING SHIP IN REGULAR WAVES	Prof.	Hironori YASUKAWA, Yoshiyuki NAKAYAMA	Hiroshima University	Japan
<b>Lunch</b>						
Session-2	M-4	AN EXPERIMENTAL STUDY OF A SHIP MANOEUVRABILITY IN REGULAR WAVES	PhD. Candidate	Lee Sung-Kyun, Seung-Hyun Hwang, Sang-Woong Yun, Key-Pyo Rhee, Woo-Jae Seong,	Seoul National University	Korea
	M-5	THE INFLUENCE ON INHOMOGENEOUS CURRENT ON THE SHIPS MOTION	Dr.-Ing.	Andreas Gronarz	DST – Development Centre for Ship Technology and Transport Systems	Germany
	M-6	EFFECTS OF THE SELF-PROPULSION POINT DURING PMM TEST ON THE PREDICTION OF SHIP MANOEUVRABILITY	Mr.	Young Jae Sung, Kyungsoo Ahn, Tae-il Lee, Key-Pyo Rhee	Hyundai Heavy Industries Co.Ltd	Korea
<b>coffee break</b>						
Session-3	M-7	FIELD OBSERVATION AND STS LIGHTERING WITH COMPARATIVE ANALYSIS RESULTS OF RELATIVE SPEED	Ms.	Yunja Yoo, Dagfinn Husjord, Etsuro Shimizu, Nobuyuki Kouguchi, Yasuo Arai, Egil Pedersen	Norwegian University of Science and Technology	Norway
	M-8	HYDRODYNAMIC INTERACTION EFFECTS DURING LIGHTERING OPERATION IN CALM WATER – THEORETICAL ASPECTS	PhD	Renato Skejic, Tor Einer Berg	MARINTEK	Norway

Maneuverability - Day 2: 2009/8/18						
Session-4	M-9	SIMULATION OF CLOSE-PROXIMITY MANOEUVRES USING AN ONLINE 3D POTENTIAL FLOW METHOD	Prof.	Serge Sutulo, Carlos Guedes Soares	CENTEC/SAEN	Portugal
	M-10	RANS SIMULATION OF THE VISCOUS FLOW AROUND A TURNING SHIP IN SHALLOW WATER	Mr.	Hua-Ming Wang, Zao-Jian Zou, Jian-Xi Yao	Shanghai Jiao Tong University	China
	M-11	AN INVESTIGATION OF THE EFFECT OF WAVE PROFILE ON THE MANOEUVRING DERIVATES OF A FISHING VESSEL	Dr.	Michael D. Woodward, Jonathan N. Bailey	Newcastle University	UK
<b>coffee break</b>						
Session-5	M-12	MATHEMATICAL MODELLING AND SIMULATIONS WITH AN ARTICULATED TUG-BARGE BASED ON PMM MODEL TESTS AND RANS CFD	Mr.	Kristian Agdrup, Claus D. Simonsen, Janne F. Otzen, Niels Arndal	FORCE Technology	Denmark

	M-13	NUMERICAL INVESTIGATION ON THE TURNING CHARACTERISTICS FOR A LARGE CONTAINER SHIP	Prof.	Chih-Chung Fang, K. T. Yu, S-K Chou,	National Taiwan Ocean University	Taiwan
	M-14	CAPTIVE MODEL TESTING FOR SHIP-TO-SHIP OPERATIONS	Msc.	Evert Lataire, Marc Vantorre, Guillaume Delefortrie	Ghent University – Maritime Technology Division	Belgium
<b>Lunch</b>						
Session-6	M-15	UNIFIED MATHEMATICAL MODEL FOR OCEAN AND HARBOUR MANOEUVRING	Prof.Dr.	Yasuo Yoshimura , Ikao Nakao, Atsushi Ishibashi,	Hokkaido University	Japan
	M-16	MANOEUVRING MATHEMATICAL MODEL FOR “SHIP DOCKING MODULE (SDMTM)”	Mr.	Evren Armaoğlu , Juan Garcia-Tuñón, Jose Iribarren, Ismael Verdugo, Ingeborg Bron	Maritime Research Institute Netherlands	Netherlands
	M-17	SQUAT EFFECTS ON SINGLE SCREW SHIPS	Mr.	Bjorn Allenstrom, Peter Ottosson (SSPA), Ulf Olsson (SMA), Chang-Bae Jin (DSME), Byeong-Seok Yu (HANJIN), Chul Hee Lee (HHI), Heejeon Yang (SAMSUNG), Youngdal Choi (STX)	SSPA Sweden AB	Sweden
<b>coffee break</b>						
Session-7	M-18	SHIP WAVE MAKING RESISTANCE, SINKAGE AND TRIM WHEN NAVIGATING IN MUDDY AREAS	Mr.	Masaaki Sano, Hironori Yasukawa	Hiroshima University	Japan
	M-19	STUDY ON THE MANEUVERABILITY OF TRAWLER UNDER TRAWLING CONDITION		Sun Xiaofeng, Yin Yong, Zhang Xiufeng	Dalian Maritime University	China

<b>Maneuverability - Day 3: 2009/8/20</b>						
Session-8	M-20	ESTIMATION OF MATHEMATICAL MODEL AND ITS COEFFICIENTS OF SHIP MANOEUVRABILITY FOR A TWIN-PROPELLER TWIN-RUDDER SHIP		Sahbi Khanfir, Vishwanath Nagarajan, Kazuhiko Hasegawa, Seung Keon Lee	Osaka University	Japan
	M-21	APPLICATION OF SYSTEM IDENTIFICATION FOR THE IMPROVEMENT OF MANOEUVRABILITY PREDICTION FOR TWIN-SCREW SHIPS	Dr.	Michele Viviani, Carlo Podenzana Bonvino, Giulio Dubbioso, Chiara Notaro, Roberta Depascale, Massimo Soave	Genoa University, Department of Naval Architecture and Marine Engineering	Italy
	M-22	PREDICTION OF MANOEUVRABILITY ON THE ICE BREAKING SHUTTLE TANKER WITH TWIN PODS	Mr.	Hee-joon Yang, Chang-seop Kwon, Young-jin Lee, Gun-il Park	Samsung Heavy Industries Co., Ltd.	Korea
<b>coffee break</b>						
Session-9	M-23	HYDRODYNAMIC FORCES INVESTIGATION ON A SHIP WITH AZIMUTHING PROPELLERS IN MANEUVERING MOTIONS	Associate Prof.	S.Tanaka, N.Hirata, H.Yasukawa	Hiroshima University - Graduate School of Engineering	Japan
	M-24	LESSONS LEARNT FROM THE WORKSHOP ON VERIFICATION AND VALIDATION OF SHIP MANOEUVERING SIMULATION METHODS - SIMMAN 2008	Prof.	F. Stern, K. Agdrup, S.Y. Kim, A.Cura-Hochbaum, K.P. Rhee, F. Quadvlieg, P. Perdon, T. Hino, R. Broglia, J. Gorski	Iowa Institue of Hydraulic Research, IHR	USA

## Common (C) Topics

<b>Common - Day 1: 2009/8/17</b>						
Session-1	C-1	A STUDY IN THE IMPROVEMENT OF AN IMAGE-PROCESSING-BASED APPROACHING AND BERTHING FUZZY AUTOPILOT DESIGN AND EXPERIMENTS	Mr.	Sin-Der Lee, Ching-Yaw Tzeng, Young-Zehr Kehr, Chi-Chun Huang, Chih-Kai Kang	National Taiwan Ocean University	Taiwan
	C-2	AUTOMATIC BERTHING CONTROL OF SHIP USING ARTIFICIAL NEURAL NETWORKS WITH ASSISTNACE OF SIDE THRUSTER AND TUGBOATS	Mr.	Van-Luong Tran, Nam-Kyun Im	Mokpo National Maritime University	Korea
	C-3	FEASIBILITY STUDY ON THE NAVIGATIONAL INTENTION EXCHANGE SUPPORT SYSTEM BY USING SIMULATION SYSTEMS	Dr.	Junji Fukuto, Makiko Minami , Yasuyuki Niwa	National Maritime Research Institute	Japan
<b>lunch</b>						
Session-2	C-4	CONSTANT RADIUS TURNS, VIEW, SPATIAL ABILITY AND VISUALIZATION MEASURES FOR INLAND TOWBOAT OFFICERS	PhD.	Eric K Larsson	Seamen’s Church Institute	USA

	C-5	NEW ATTEMPT TO INVESTIGATE MARITIME ACCIDENT USING AIS DATA AND BRIDGE SIMULATOR	Dr.	Kenkichi Tamura, Junji Fukuto, Makiko Minami, Yasuyuki Niwa, Harukuni Taguchi, Tomihiro Haraguchi	National Maritime Research Institute	Japan
	C-6	SIMULATION ANALYSIS OF A MARINE DISASTER Capsizing of a Derrick Barge in Stormy Sea Conditions	Prof.	Haruzo Eda	US Merchant Marine Academy	USA
<b>coffee break</b>						
Session-3	C-7	ANALYSIS OF ACCIDENT CAUSES LATENT IN MARINERS' EXPERIENCE	Dr.	Akiko UCHINO, Hiroaki KOBAYASHI	Tokyo University of Marine Science and Technology	Japan
	C-8	CAUSAL ANALYSIS OF THE TOWING VESSEL'S CAPSIZING ACCIDENT IN THE ROUGH WEATHER CONDITION BASED ON DYNAMICAL SIMULATION	Prof.	Hyeon Kyu Yoon, Sun Young Kim, Gyeong Joong Lee, Don Jin Yeo	Changwon National University	Korea

**Common - Day 2: 2009/8/18**

Session-4	C-9	A STUDY ON DEVELOPMENT OF ETM TRAINING	Associate Prof.	Koichi KONDO, Yoshihiko NOJIRI, Toshihiko OKINO	Marine Technical Colleg	Japan
	C-10	THE CONTRIBUTION OF VIRTUAL REALITY TO ENGINEER ROOM SIMULATION TRAINING RESULTS	MSc.	Marcel Krijnen, Harmen v.d. Ende	Maritime Institute Willem Barentsz	The Netherlands
	C-11	DEVELOPING STANDARDS OF COMPETENCE THE CASE OF BERTHING LARGE CONTAINER VESSELS		Lars Markusson, John Douglas	Det Norske Veritas (DNV)	Norway
<b>coffee break</b>						
Session-5	C-12	APPROVALS AND CERTIFICATION ACCORDING TO GL QUALITY MARITIME TRAINING STANDARDS ASSURES QUALITY AND HIGH PERFORMANCE OF MARITIME TRAINING	Dipl.Ing.	Reinhold Heller	Germanischer Lloyd AG	Germany
	C-13	AN EXPERIMENTAL STUDY OF NAVIGATOR'S DECISION-MAKING AND ACTION MODEL TO AVOID COLLISION USING NAVIGATION SIMULATOR	Assistant	Takashi KUBOTA, Shusaku IMO, Nobuyoshi KOUGUCHI	Oshima National College of Maritime Technology	Japan
	C-14	A STUDY ON ENVIRONMENTAL FACTORS IN INSUFFICIENT LOOKOUT	Dr.	NISHIMURA Tomohisa, Hiroaki KOBAYASHI	Japan Coast Guard Academy	Japan
<b>lunch</b>						
Session-6	C-15	A STUDY ON THE EVALUATION OF BERTHING MANEUVER UNDER WIND DISTURBANCE		Atsushi ISHIBASHI, Hiroaki KOBAYASHI	Tokyo University of Marine Science and Technology	Japan
	C-16	A CASE STUDY IN IMPROVING TUG ESCORT PROCEDURES WITH THE AID OF SIMULATION	Capt.	Gregory Brooks, Garland Hardy	Towing Solutions Inc.	Canada
	C-17	ESTIMATION OF UNKNOWN TRAJECTORY AND JEAIDING ANGLE OF A BARGE USING TUB'S AIS DATA	Dr.	Dong Jin YEO, Hyeon Kyu YOON, Yeon Gyu KIM, In-Young GONG	Maritime & Ocean Engineering Research Institute / KORDI	Korea
<b>coffee break</b>						
Session-7	C-18	STUDY ON THE EVACUATION MANEUVER FROM A TSUNAMI ATTACK	Dr.	Eiichi Kobayashi, Syunichi Koshimura, Takashi Mizunoe	Kobe University	Japan
	C-19	STUDY ON THE MANAGEMENT OF MARINERS' TECHNIQUE IN SHIP OPERATION	Dr.Capt.	Susumu TOYA, Hiroaki KOBAYASHI	National Institute for Sea Training	Japan

**Common - Day 3: 2009/8/20**

Session-8	C-20	SAFETY ASSESSMENT OF HEAD IN ENCOUNTERS AND OVERTAKING MANOEUVRES WITH CONTAINER CARRIERS IN CONFINED CHANNELS THROUGH SIMULATION TOOLS	Prof.Dr.	Katrien Eloot, Jeroen Verwilligen, Marc Vantorre	Flanders Hydraulics Research, Ghent University	Belgium
	C-21	MODEL OF SITUATIONS FOR SIMPLIFICATION OF PREVENTING COLLISIONS WITH SHIPS	Prof.Dr.	Leonid Vagushchenko, Alexander Vagushchenko	Odessa National Marine Academy	Ukraine

	C-22	STUDY IN THE ALGORITHM OF COLLISION AVOIDANCE FOR LARGE CONTAINER VESSEL IN OPEN SEA AND SHALLOW CONFINED WATER BY USING SIMULATION AND FREE RUNNING MODEL TEST	Dr.	Nam-Sun Son, Yoshitaka Furukawa, Sun-Young Kim, Katsuro Kijima	Maritime and Ocean Engineering Research Institute / KORDI	Korea
Session-9	C-23	MODELLING PROCESS FOR RISK BASED DESIGN MODEL FOR COLLISION AVERION FOR INLAND WATER TRANSPORTATION	Dr.	Ab Saman Abd Kader, Oladokun Sulaiman Olanrewaju, Saharuddin Dato` Abdul Hamid		

## Simulation (S) Topics

Simulation Day 1: 2009/8/17						
Session-1	S-1	USE OF SIMULATION ON PANAMA CANAL WATERWAY THE HUMAN FACTOR AND CHANNEL DESIGN	Capt.	Rogelio Altafulla	SIDMAR Centre, Panama Canal Authority	Panama
	S-2	ESCORT TOWING IN THE EXPANDED PANAMA CANAL	Capt.	Francisco Javier Tejada, Ian Cohen	SIDMAR Centre, Panama Canal Authority	Panama
	S-3	PHYSICAL MODEL OF THE FILLING AND EMPTYING SYSTEM OF THIRD SET OF LOCKS FOR THE PANAMA CANAL		Juan Wong H., Rigoberto Delgado, Jean-Louis Mathurin	Autoridad del Canal de Panamá	Panama
<b>lunch</b>						
Session-2	S-4	BEHAVIOR OF POST PANAMAX VESSELS IN THE THIRD SET OF PANAMA LOCKS	Dr.ir.	Guillaume Delefortrie, Marc Willems, Marc Vantorre, Erik Laforce	Flanders Hydraulics Research	Belgium
	S-5	APPLICATION OF LATEST SHIP MANEUVERING TECHNOLOGY AND SHIP HYDRODYNAMICS MODELING TO THE EXPANSION OF THE PANAMA CANAL – WORKING OUR OPERATION PROCEDURES AND TECHNIQUES	Dr.	Larry L. Daggett, J. Christopher Hewlett, Vladimir Ankudinov, Igor Filippov, Vladimir Panomarev, Ekaterina Rogozhina, Dmitry Shilkin	Waterway Simulation Technology, Inc.	USA
	S-6	NAVIGATING SAFETY OF SHIP IN INLAND WATERWAY	Dr.	Cheng Xide, Liu Zuyuan	Wuhan University of Technology	China
<b>coffee break</b>						
Session-3	S-7	SHIP SIMULATION STUDY FOR BOSTON HARBOR CHANNEL IMPROVEMENTS		Dennis W. Webb, Mark L.Habel	U.S. Army Corps of Engineers, Engineer Research and Development Center	USA
	S-8	MANOEUVRINF SIMULATION FOR DYNAMIC PREDICTION DISPLAY TO BE USE ON-BOARD AND IN SHIPHANDLING SIMULATOR TRAINING	Prof.Dr.	Benedict K., Baldauf M., Fischer S., Gluch M., Kirchhoff M.	Hochschule Wismar, University of Applied Science - Technology, Business and Design, Dept. of Maritime Studies Warnemuende, Maritime Simulation Centre Warnemuende	Germany

Simulation Day 2: 2009/8/18						
Session-4	S-9	ECDIS AND ERROR TRAPPING: A BRIDGE SIMULATION EXPERIMENT	Capt.	Steven D. Browne, James J. Buckley	California Maritime Academy	USA
	S-10	APPLICATION OF NAVIGATION SIMULATOR ON INTEGRATED BRIDGE SYSTEM RESEARCH	Assosiate Prof.	GU Wei, YIN Yong, JIN Yicheng, ZHAO Xue-jun	Laboratory of Marine Simulation & Control, Dalian Maritime University	China
	S-11	FULL 6-DIMENSIONAL MODELLING: A NEW APPROACH FOR FULL-MISSION SIMULATIONS	MSc.	Ingeborg Bron, Wendie Uitterhoeve	MARIN, Maritime Research Institute Netherlands	The Netherlands
<b>coffee break</b>						
Session 5	S-12	DEVELOPMENT AND APPLICATION OF HOW (HYBRID QUAY WALL) SIMULATOR	Ph.D, Principal Researcher, Director	Inyoung GONG , Kunhang YUN, Sekil PARK, Younghun YANG	Maritime & Ocean Engineering Research Institute / KORDI	Korea
	S-13	RESEARCH ON MARINE SEARCH AND RESCUE SIMULATION SYSTEM		XIAO Fang-bing, JIN Yi-chengYIN Yong,	Laboratory of Marine Simulation & Control, Dalian Maritime University	China
	S-14	ANCHOR HANDLING SIMULATION	MSc.	Noel Bovens, Mark Randall, Mike Collins, Garard Weder	MARIN, Maritime Research Institute the Netherlands	The Netherlands
<b>lunch</b>						

Session-6	S-15	DEVELOPMENT OF SIMULATOR SYSTEMS FOR PREVENTING COLLISION OF SHIPS SAFE RETURNING TO THE PLANNED ROUTE	Prof.	Mykola Tsymbal, Igor Urbansky	Odessa National Maritime Academy	Ukraine
	S-16	SHIP MOVING MATHEMATICAL MODEL IN IRREGULAR WAVES AND APPLICATION IN SHIP HANDLING SIMULATOR	Miss	ZHANG Xiufeng, JIN Yicheng, YIN Yong	Dalian Maritime University	China
	S-17	THE MODELING AND VISUALIZATION OF BOAT OPERATIONS IN LARGE BREAKING WAVES	Senior Principal Engineer	Eugene R. Miller	Computer Science Corp. Advanced Marine Center	USA
<b>coffee break</b>						
Session-7	S-18	VIRTUAL REALITY SIMULATION OF A HUMAN-MACHINE INTERACTION SYSTEM FOR WINDSURFING		Chung-Hung Lin, Ming-Chung Fang, Zhang-En Wu, Kuan-Yi Huang, Yu-Shu Hs	Department of Systems and Naval Mechatronic Engineering, NCKU	Taiwan
	S-19	MARITIME OFFSHORE SIMULATION WITH FOCUS ON ANCHOR HANDLING OPERATIONS	Mr.	Soren Einar Veierland	Kongsberg Maritime AS	Norway

<b>Simulation Day 3: 2009/8/20</b>						
Session-8	S-20	USING REAL ONBOARD CONTROL SYSTEM FOR MARINE ENGINE ROOM SIMULATION	Mr.	Leif Pentti Halvorsen	Kongsberg Maritime AS	Norway
	S-21	LATEST EXPERIENCE WITH USE OF SIMULATION AS A TOOL FOR EVALUTAION AND PLANNING OF PLACEMENT OF ATON IN WATERWAYS INCLUDING A VIEW AT THE LATEST DEVELOPMENTS IN SIMULATIR TECHNOLOGY SUPPORTING THIS ACITIVITY		Peter K. Sorensen, Peter S. Jensen	FORCE Technology	Denmark
	S-22	GAME BASED ASSESSMENT - HOW COULD IT WORK FOR PLATFORM SIMULATION?		Dr. Harro Kucharzewski, Jürgen Burg, Katrin Gläsel	MarineSoft GmbH	Germany
<b>coffee break</b>						
Session-9	S-23	A 138.00 m3 ACCESS STUDY TO THE PORT OF FERROL THOUGH A NARROW CHANNEL USING A REAL TIME SHIP-MANEUVRING SIMULATOR		Fernández-Prisuelos, J., Montero-Montalvo, J.M.	Centre for Harbours and Coastal Studies (CEDEX) Ministry of Development-Government of Spain	Spain
	S-24	PASSAGE OF NARROW LOCKS		Dr. A. Vrijburcht, W.C.D. Kortlever	Centre for Public Works and Water Management, Ministry of Transport	The Netherlands