



Closing Session

Presented by

Peter K. Sørensen

Chairman of 27th Executive Committee

Revised ITTC Rules

- Adopt revised article 5.2 regarding decision making between Conferences?
- Adopt revised article 7.2(a) regarding qualifications for AC membership?
- Adopt other minor changes?

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Committees and Tasks for 28th ITTC

Approve that the following technical committees and group are formed?

General Committees:

Resistance Committee

Propulsion Committee

Manoeuvring Committee

Seakeeping Committee

Ocean Engineering Committee

Stability in Waves Committee

Committees and Tasks for 28th ITTC



Specialist Committees:

Performance of Ships in Service

Hydrodynamic Noise

Hydrodynamic Modelling of Marine Renewable Energy
Devices

Ice

Energy Saving Methods

Modelling of Environmental Conditions

Group:

Quality Systems Group

Committees and Tasks for 28th ITTC

Adopt the Terms of Reference for the Technical Committees and Group as described in Proceedings Volume I, Appendix 3, with some revisions resulting from the Conference?

Resistance Committee: Continue WWC

Propulsion Committee: Additional unconventional propellers included

Manoeuvring Committee: Cooperate with PSS on minimum power requirements

Committees and Tasks for 28th ITTC

Stability in Waves Committee: Clarifications

Performance of Ships in Service: Clarifications

Ice: Completely revised

Energy Saving Methods: Exclude machinery



Technical Committees of 28th ITTC

- Accept members and chairs of the technical committees as proposed in the following slides?



Resistance Committee

Americas	Pacific Islands	East Asia	Southern Europe	Central Europe	Northern Europe
Thomas Fu, NSWCCD	Hisao Tanaka, JMU	Wentao Wang, CSSRC	Mario Felli, CNR-INSEAN	Richard Pattenden , Qinetiq	
	Gregor Macfarlane, AMC	Jin Kim, KRISO	Sakir Bal, ITU		



Propulsion Committee

Americas	Pacific Islands	East Asia	Southern Europe	Central Europe	Northern Europe
Steve Ceccio, UMICH	Takuya Omori, JMU	Chenjun Yang, SJTU	Ramon Quereda, CEHIPAR	Rainer Grabert, SVA Potsdam	Aleksey Yakovlev, Krylov
		Moon Chan Kim, PNU			Nikolaj Lemp Larsen, FORCE

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Manoeuvring Committee

Americas	Pacific Islands	East Asia	Southern Europe	Central Europe	Northern Europe
Eduardo Tannuri, IPT	Yoshitaka Furukawa, Kyushu U.	Sang Hyun Kim, Inha U.	Pierre-Emanuel Guillerm, ECN	Guillaume Delefortrie, FHR	Claus Simonsen, FORCE
	Jonathan Duffy, AMC		Salvatore Mauro, CNR-INSEAN	Marc Steinwand, SVA Potsdam	

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Seakeeping Committee

Americas	Pacific Islands	East Asia	Southern Europe	Central Europe	Northern Europe
David Hayden, NSWCCD	Katsuji Tanizawa, NMRI	Chengsheng Wu, CSSRC	Antonio Marón, CEHIPAR	Pepijn de Jong, Delft U.	Florian Sprenger, MARINTEK
Ayhan Akinturk, NRC		Yonghwan Kim, Seoul N.U.			Frederik Gerhardt, SSPA

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Ocean Engineering Committee

Americas	Pacific Islands	East Asia	Southern Europe	Central Europe	Northern Europe
Wei QIU, Memorial U.	Takashi Mikami, Mitsui Akishima	Dong Yeon Lee, SHI	Jean-Marc Rousset, ECN	Longbin Tao, Newcastle U.	Viacheslav Magarovskii, Krylov
Claudio Rodríguez, LabOceano				Maurizio Collu, Cranfield U.	Chittiappa Muthanna, MARINTEK



Stability in Waves Committee

Americas	Pacific Islands	East Asia	Southern Europe	Central Europe	Northern Europe
Art Reed, NSWCCD	Toru Katayama, Osaka Pref. U.	Shan Ma, HEU	Jean-Francois Leguen, DGA	Andres Cura-Hochbaum, TU Berlin	
	Akihiko Matsuda, NRIFE	Seokku Cho, KRISO	Paola Gueleni, Genova U.		

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SC Performance of Ships in Service

Americas	Pacific Islands	East Asia	Southern Europe	Central Europe	Northern Europe
Lawrence Mak, NRC	Hironori Yasukawa, Hiroshima U.	Jinbao Wang, MARIC	Gregory Grigoropoulos, NTUA	Uwe Hollenbach, HSVA	Sofia Werner, SSPA
	Koutaku Yamamoto, Mitsui	Tae Il Lee, HHI		Dominic Hudson, Southampton U.	Sebastian Bielicki, CTO
	Masaru Tsujimoto, NMRI			Henk van den Boom, MARIN	

SC on Hydrodynamic Noise

Americas	Pacific Islands	East Asia	Southern Europe	Central Europe	Northern Europe
Theodore Farabee, NSWCCD	Kei Sato, MHI	Denghai Tang, CSSRC	Didier Fréchet, DGA	Johan Bosschers, MARIN	Tuomas Sipilä, VTT
Dean Capone, Penn State		Gil-Hwan Choi, HHI	Emin Korkut, ITU		
			Claudio Testa, CNR-INSEAN		

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SC on Hydrodynamic Modelling of Marine Renewable Energy Devices

Americas	Pacific Islands	East Asia	Southern Europe	Central Europe	Northern Europe
Arnold Fontaine, Penn State	Motohiko Murai, Yokohama N.U.	Ye Li, SJTU	Aurelien Babarit, ECN	William Batten, Qinetiq	Marek Kraskowski, CTO
	Irene Penesis, AMC	Hyunkyoungh Shin, Ulsan U.			Petter Berthelsen, MARINTEK



SC on Ice

Americas	Pacific Islands	East Asia	Southern Europe	Central Europe	Northern Europe
John Wang, NRC	Akihisa Konno, Kogakuin U.	Yinghui Wang, CSSRC		Nils Reimer, HSVA	Kirill Sazonov, Krylov
					Victor Westerberg, SSPA
					Rüdiger von Boch und Pollach, Aalto U.
					Topi Leiviskä, Aker Arctic

SC on Energy Saving Methods

Americas	Pacific Islands	East Asia	Southern Europe	Central Europe	Northern Europe
Marc Perlin, UMICH	Munehiko Hinatsu, Osaka U.	Decheng Wan, SJTU		Tom Dinham Peren, BMT	
	Michio Takai, SHI-M&E	HaeSung Ahn, KRISO		Alexander Philllips, Southampton U.	
		In Won Lee, PNU		Mahdi Khorasanchi, NRC	

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SC on Modelling of Environmental Conditions

Americas	Pacific Islands	East Asia	Southern Europe	Central Europe	Northern Europe
David Drazen, NSWCCD	Toshifumi Fujiwara, NMRI	Zhi Zong, Dalian U.	Alessandro Iafrazi, CNR- INSEAN	Janou Hennig, MARIN	
		Hyun Jo Kim, SHI			
		Longfei Xiao, SJTU			

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Quality Systems Group

Americas	Pacific Islands	East Asia	Southern Europe	Central Europe	Northern Europe
Joel Park, NSWCCD	Eiichi Kobayashi, Kobe U.	Weimin Chen, SSSRI	Marco Ferrando, Genova U.	Michael Woodward, Newcastle U.	
Joel Sales Sena Jr., LabOceano			Lanfranco Benedetti, CNR-INSEAN	David Clelland, Strathclyde U.	
Michael Morabito, USNA					

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Venue of 28th Conference

Approve recommendation of Wuxi, China as venue for 28th Conference, hosted by CSSRC?

Approve Prof. Zhenping Weng as Chairman of 28th Executive Committee?



ITTC Secretary

Approve Aage Damsgaard as 28th ITTC Secretary?

The logo for the 28th ITTC meeting in Copenhagen, 2014. It features a circular emblem with a silhouette of a city skyline and a sailing ship on the water. The text "2014 COPENHAGEN" is written in a light blue, stylized font along the bottom arc of the circle. The background of the slide is a light blue circle containing the text "28th ITTC" in a large, semi-transparent font.

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Financial report

Approve the financial report for 27th ITTC as presented?

Approve budget for 28th ITTC as presented?

Approve general membership fee of 600 USD for the next period?



IMO/ISO/ISSC

Approve the continued cooperation with IMO and ISO and supporting this financially?

Approve a formalised cooperation with ISSC, in the form of a joint technical committee, if found relevant by the EC?

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Future of ITTC

Approve the recommendation to continue the
EC Working Group on the Future of ITTC?



Recommended Procedures and Guidelines

Adopt the following new or revised Recommended Procedures and Guidelines

4.2.3-01-02 Guidelines for Preparation of Technical Committee and Group Reports

4.2.3-01-03 Work Instruction for Formatting ITTC Recommended Procedures

7.5-01-03-01 Uncertainty Analysis, Instrument Calibration

7.5-01-03-03 Guideline on the Uncertainty Analysis for Particle Image Velocimetry

7.5-01-03-04 Benchmark for PIV(2C) and SPIV(3C) setups

Recommended Procedures and Guidelines

- 7.5-02-01-01 Guide to the Expression of Uncertainty in Experimental Hydrodynamics
- 7.5-02-01-04 Guideline on Best Practices for the Applications of PIV/SPIV in Towing Tanks and Cavitation Tunnels
- 7.5-02-01-05 Model Scale Noise Measurements
- 7.5-02-02-02 General Guidelines for Uncertainty Analysis in Resistance Tests
 - 7.5-02-02-02.1 Example for Uncertainty Analysis of Resistance Tests in Towing Tanks
 - 7.5-02-02-02.2 Practical Guide for Uncertainty Analysis of Resistance Measurements in Routine Tests

Recommended Procedures and Guidelines

7.5-02-03-01.4 1978 ITTC Performance Prediction Method

7.5-02-03-01.6 Hybrid Contra-Rotating Shaft Pod Propulsors
Model Test

7.5-02-03-02.1 Open Water Test

7.5-02-03-02.2 Uncertainty Analysis, Example for Open Water
Test

7.5-02-03-02.3 Nominal Wake Measurements by LDV, Model
Scale Experiments

Recommended Procedures and Guidelines

7.5-02-03-03.2 Description of Cavitation Appearances

7.5-02-03-03.3 Cavitation Induced Pressure Fluctuations Model Scale Experiments

7.5-02-03-03.4 Cavitation Induced Pressure Fluctuations Numerical Prediction Methods

7.5-02-04-02 Test Methods for Model Ice Properties

7.5-02-05-04 Seakeeping Tests (HSMV)

7.5-02-05-05 Evaluation and Documentation of HSMV (manoeuvring)

Recommended Procedures and Guidelines

7.5-02-06-01 Free Running Model Tests

7.5-02-06-02 Captive Model Test Procedure

7.5-02-06-03 Validation of Manoeuvring Simulation Models

7.5-02-06.04 Uncertainty Analysis for manoeuvring predictions based on captive manoeuvring tests

7.5-02-06-05 Uncertainty Analysis for free running model tests



Recommended Procedures and Guidelines

- 7.5-02-07-02.1 Seakeeping Experiments
- 7.5-02-07-02.2 Predicting of Power Increase in Irregular Waves from Model Test
- 7.5-02-07-02.3 Experiments on Rarely Occurring Events

- 7.5-02-07-03.7 Wave Energy Converter, Model Test Experiments
- 7.5-02-07-03.8 Model Tests for Offshore Wind Turbines
- 7.5-02-07-03.9 Model Tests for Current Turbines
- 7.5-02-07-03.10 Guideline for VIV Testing

Recommended Procedures and Guidelines

7.5-02-07-04.2 Model Tests on Damage Stability in Waves

7.5-02-07-04.4 Numerical Simulation of Capsize Behaviour of Damaged Ships in Irregular Beam Seas

7.5-03-02-03 Practical Guidelines for Ship CFD Applications

7.5-03-02-04 Practical Guidelines for Ship Resistance CFD

7.5-03-03-01 Practical Guidelines for Ship Self-propulsion CFD

7.5-03-03-02 Practical Guidelines for RANS Calculation of Nominal Wakes

7.5-03-04-02 V&V of RANS Solutions in the Prediction of Manoeuvring Capabilities

Recommended Procedures and Guidelines

7.5-04-01-01.1 Preparation and Conduct of Speed/Power Trials

7.5-04-01-01.2 Analysis of Speed/Power Trial Data

7.5-04-04-01 Underwater Noise from Ships, Full Scale Measurements



Recommended Procedures and Guidelines

Approve the removal of the following Recommended Procedures and Guidelines from the Register:

7.5-02-04-02.4 Tests in Deformed Ice

7.5-02-07-02.4 Validation of Seakeeping Computer Codes in the Frequency Domain

7.5-02-07-03.3 Model Tests on Tanker-Turret Systems

7.5-02-02-03 through -06 Uncertainty Analysis Spreadsheets



Thank you

New Technical Committee Chairs meet at 13.00
in Room 104.



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