



# Executive Committee

## Final report and recommendations to the 27<sup>th</sup> ITTC

### 1. INTRODUCTION

The roles and responsibilities of the Executive Committee are defined in the ITTC Rules and include

- Implementing the decisions of the Full Conference
- Representing ITTC between Conferences
- Replacing members of technical committees and groups as necessary between Conferences
- Accepting new member organisations to the ITTC
- Managing the finances
- Approving the arrangements and associated costs and registration fees for the Conference
- Reporting on its activities to the Full Conference

In addition, the Executive Committee appoints members of the Advisory Council and reviews the members on a regular basis.

During the 27<sup>th</sup> ITTC, the Executive Committee has performed its duties in accordance with the above. In addition, circumstances have required the Executive Committee to make policy decisions which could not await the next Full Conference. These decisions concern acts in relation to IMO's introduction of the Energy Efficiency Design Index (EEDI) and are described later in this report. This has also led to

the recommendation to modify the ITTC Rules as also described later.

Finally, the Executive Committee has worked together with the Advisory Council on the presentation of recommendations to be adopted by the 27<sup>th</sup> Full Conference.

### 2. OBITUARIES

#### 2.1 Jong H. Hwang



Professor Jong H. Hwang died of pneumonia March 12, 2012 at the age of 84. He was born on January 25, 1928 in Seocheon, Hamkyungnam-do, Korea.

Prof. Hwang played a leading role in founding Korea Towing Tank Conference (KTTC) on April 1980 in order to incorporate effectively with ITTC and became the first



Chairman of KTTC until 1984. He remained a member of the Steering Committee of KTTC until 1997. He served as a representative for the towing tank of Seoul National University and actively participated in ITTC. He made contributions by presenting written discussions at the 11<sup>th</sup>, 15<sup>th</sup>, 16<sup>th</sup>, and 17<sup>th</sup> ITTC.

He attended Seoul National University and received his B.S. degree in naval architecture in 1950 and Ph.D. degree in naval architecture in 1969. His teaching career started early in 1952 as TA until 1954. He stayed at the Massachusetts Institute of Technology as a visiting fellow at the Department of Naval Architecture and Marine Engineering for one year beginning 1956. His academic career started as a lecturer at the Department of Naval Architecture, Seoul National University from 1954 to 1959. He became an assistant professor in 1959 and then an associate professor in 1961, and professor in 1969. He retired in 1993. Then he became a professor emeritus. He was a visiting professor at the Department of Naval Architecture, The University of Tokyo for one year from 1976 to 1977.

Professor Hwang was a pioneer in ship hydrodynamics research and education in Korea. Early in his life, he played a leading role in setting up the ship hydrodynamics research program in the Department of Naval Architecture and Ocean Engineering, Seoul National University. He was the most influential professor on many Korean ship hydrodynamicists. He also made a herculean effort to establish academic ties between Korea and Japan in the field of naval architecture, specifically with the University of Tokyo and Hiroshima University. He organized the Korea-Japan Ship Hydrodynamics Seminar in 1970 as the first international cooperative activity. He served as the 12th president of the Society of Naval Architecture of Korea (SNAK) from 1973 to 1975. During

this period, he put much emphasis on interactions with ITTC, ISSC, PRADS and IUTAM. He published over one hundred research reports and journal papers and four books in engineering mathematics and one in naval architecture. He was elected as a member of the Korea Academy of Arts and Science in 1999. Professor Hwang received many professional honors such as the Outstanding Scientific Achievement Award in 1986 from the Society of Naval Architects of Korea. He received the 'Mokryun Medal' and the 'Moran Medal' from the Government. He also received the 'Sunggok Award' from Sunggok Foundation.

Prof. Hwang is survived by his wife, Sook-hee Kim, four sons, Woonsuk (Prof. in Inha Univ.), Woonkwang (Executive V.P. in LG Electronics), Woonbong (Prof. in POSTECH), Woonjae (Prof. of Korea Univ.), and one daughter, Meeran.

## 2.2 Takao Inui



The Emeritus Professor Takao Inui of the University of Tokyo, Japan went away on 14<sup>th</sup> September 2012 at the age of 92. He was a chairman of the 18<sup>th</sup> ITTC executive committee in 1987 (Kobe, Japan). He has achieved a great number of excellent research works in the field of wave resistance. Especially he contributed to the dissemination of bulbous bow for merchant



ships. He was the fourth Weinblum lecturer and received a lot of awards including Japan Academy Prize and Japan Culture Prize (Bunkakourousha).

### 3. COMMITTEE MEMBERSHIP

Membership of the 27<sup>th</sup> Executive Committee has been the following:

Chairman: Stig Sand, FORCE Technology. Stig retired from FORCE on 31<sup>st</sup> December 2013 and was replaced by Peter K. Sørensen, also from FORCE.

Northern Europe representative: Susanne Abrahamsson, SSPA.

Central Europe representative: Jürgen Friesch, HSVA.

Southern Europe representative: Daniele Ranocchia, INSEAN (CNR)

Pacific Islands representative: Masashi Kashiwagi, Osaka University

East Asia representative: Suak-Ho Van, KRISO

Americas representative. F. Mary Williams, NRC. Mary resigned in January, 2013, and was replaced by Antonio Fernandes, LabOceano.

Non-voting ex-officio members of the Executive Committee were:

Gerhard Strasser, Vienna Model Basin, as Advisory Council Chairman,

Antonio Fernandes, LabOceano, as past Chairman, until appointed Americas Area Representative,

Aage Damsgaard, FORCE Technology, as ITTC and EC Secretary.

### 4. COMMITTEE MEETINGS

The committee has held four meetings between 2011 and 2014, and the final meeting will be held in Copenhagen during the 27<sup>th</sup> Full Conference.

The first meeting was held in Rio de Janeiro during the 26<sup>th</sup> Full Conference. The committee reviewed the comments made by the Conference to the Terms of Reference for the new technical committees and endorsed the revised version, which was subsequently issued to the technical committee chairpersons together with their appointment. The Terms of Reference are included as Appendix 2 of Volume I of the Proceedings of the 27<sup>th</sup> Full Conference. The technical committee members had already been selected and were approved by the Full Conference, see Appendix 1 of Volume I of the Proceedings.

The committee further discussed the issue of AC membership qualifications. The discussion was instigated by the increasing number of universities seeking membership of the AC. The valuable work of the universities in the technical committees is highly appreciated, but care should be taken to avoid the procedures becoming too “academic” and impractical for use in the commercial tanks. It was decided to propose a revision of the Rules on this point, to emphasize the importance of commercial work as a qualification for being member of the AC.

The committee confirmed the financial support to representation of ITTC at IMO meetings, and appointed Gerhard Strasser as the representative for EEDI/EEOI matters.

The second committee meeting was held in Daejeon, Korea, hosted by KRISO. The proposed wording of the modification of the ITTC Rules regarding AC membership was reviewed and agreed to be submitted to the Full Confer-



ence for adoption, and a new AC membership review form should be prepared, reflecting the revised requirements. It was decided that all AC members should report on the new form during this period.

The committee established a new working group to deal with the future role of ITTC, including planning of future technical committees. The group is headed by Jürgen Friesch and members are Gerhard Strasser, Masashi Kashiwagi and Suak-Ho Van.

The decision on venue for the 28<sup>th</sup> ITTC Full Conference was opened for discussion. Both Korea (KRISO) and China (CSSRC) announced that they would be candidates. They were asked to give a presentation of their candidature at the third Executive Committee meeting.

The committee decided to re-admit Brodarski Institute, Croatia, to the Advisory Council after it had settled the outstanding fees.

During the AC meeting preceding the committee meeting, a serious dispute had arisen with regard to the process of revising the speed/power sea trial procedures and submitting them to IMO. As a consequence, the committee decided to produce a procedure for making decisions between Conferences and recommend this for adoption by the next Full Conference.

The third meeting was held in Copenhagen, Denmark, hosted by FORCE Technology. The two candidates for hosting the 28<sup>th</sup> Full Conference, CSSRC and KRISO, both gave very convincing presentations of their respective proposals, and the committee had to vote to make a decision which venue to recommend to the Full Conference. The decision was to recommend CSSRC to host the 28<sup>th</sup> ITTC Full Conference.

Two new members of ITTC were approved, Technical University Berlin and Cranfield University, and a number of changes to technical committees were implemented.

Further items covered in this meeting included a presentation by the working group, approval of the venue and fee for the 27<sup>th</sup> Full Conference, ITTC Secretary for the 28<sup>th</sup> ITTC, and cost of attending IMO meetings.

The fourth meeting was held in Wuxi, China, hosted by CSSRC.

The committee reviewed the wording of the proposed changes to the Rules of ITTC and agreed on a few further revisions.

The committee further reviewed the financial status. As a consequence of the increased financial support to the involvement in IMO and ISO activities in relation to EEDI and sea trial procedures, and of the introduction of the new website, it is expected that the total expenses for this period may exceed the fee income by up to 10,000 USD. As this amount may be covered by the reserves and as the corresponding costs will be less during the next period, the committee decided that the membership fee should be kept at its present level. The committee also agreed to support the printing of the Proceedings of the 27<sup>th</sup> ITTC by an amount of 6,000 USD.

The AC membership review was performed using the revised form, which was found acceptable with a minor adjustment. The revised form is annexed to this report.

The committee briefly reviewed the evaluation of the members of the technical committees submitted by the chairmen using the form annexed to this report. The evaluations will be considered when appointing candidates for the





next committees. For this purpose, the revised form of CV for committee member candidates, also annexed, shall be used.

Two new AC member organisations were approved, Shanghai Ship and Shipping Research Institute, China, and Samsung Heavy Industries, Korea, as was Universiti Teknologi Petronas, Malaysia, as new member of ITTC.

Several new Area Representatives will be or have been appointed for the next ITTC, including Kourosh Koushan, Marintek, for Northern Europe and Fabio di Felice, CNR-INSEAN, for Southern Europe. A new representative for Central Europe will be appointed later, as may a new representative for East Asia. The representatives for Pacific Islands and Americas shall continue for one more term.

## **5. COMMITTEE DECISIONS**

### **5.1 Revision of ITTC Rules**

The committee decided to recommend to the 27<sup>th</sup> Full Conference to adopt two modifications to the ITTC Rules, one concerning decision making between Full Conferences, the other concerning the qualifications for Advisory Council membership. The recommended modifications appear in clause 5.2 and 7.2(a) of RP 1.0-01, Description and Rules of the ITTC, respectively, which is found in the 2014-version of the ITTC Recommended Procedures and Guidelines. RP 1.0-04 describes the procedure for decision making between Full Conferences. Both documents are also found in Appendix 4 of Volume I of the Proceedings.

The involvement of ITTC in external activities, e.g. in IMO and ISO, has necessitated the ability of the Executive Committee to make and execute decisions without having them

approved by the Full Conference in advance. During the past period, the Executive Committee decided that ITTC should play a major role in the implementation of EEDI requirements in order to influence this important aspect of ship performance requirements. This necessitated a revision of the speed/power sea trial procedures which was implemented in 2012 and submitted to IMO beginning of 2013. At the same time, the two revised procedures 7.5-04-01-01.1 and 01.2 were made available on the ITTC website. The recommended modification of the ITTC Rules is made in order to formalise this way of operating.

The Advisory Council was formed at the 13<sup>th</sup> ITTC in 1972 in order to emphasize the role of the commercial tanks in relation to the procedures and guidelines issued by ITTC, to ensure that they are applicable in practice. Criteria for becoming a member of the Advisory Council were established, to show that their primary business was model testing for clients. The recommended modification strengthens the criteria slightly, also requiring work to be performed by professional full-time staff. The new requirements are reflected in the form used to assess present Advisory Council members every second period and new candidates for membership of the Advisory Council, partly asking the member to specify the division of their turn-over between commercial work, research and education, partly to specify the number of full-time staff performing work for clients. The new form has been tested on all Advisory Council members this period and on two new candidates.

In addition to these two major changes to the Rules, some minor revisions were made for reasons of consistency. Among these is the definition of the role of the Vice Chairman of the Executive Committee and the Advisory Council, clauses 6.2 and 7.2, respectively.



## 5.2 Committees and Tasks of the 28<sup>th</sup> ITTC

Based on input from the technical committees, AC members, ITTC members and the EC Working Group on the Future of ITTC, the Advisory Council prepared the document defining the structure and Terms of Reference of technical committees and groups of the 28<sup>th</sup> ITTC enclosed as Appendix 3 of Volume I of the Proceedings of the 27<sup>th</sup> Full Conference.

## 5.3 Working Group on Future of ITTC

The Executive Committee decided to continue the working group considering the future role of ITTC. However, as the specific tasks for this group could not be finalised during this term, a small group of committee members continued subsequently to elaborate the Terms of Reference and mode of operation of the group.

The working group has proposed the following draft Terms of Reference:

Discuss open questions of long term developments in hydrodynamics by observing also different activities of networks worldwide (EU, aerospace, automobile)

Identify new topics of importance / relevance to the ITTC

Develop a strategy with regard to ITTC's role in national and international institutions like IMO, ISO, ISSC. It should additionally outline how ITTC should be represented in those bodies

Discuss if the way how ITTC works is still adequate

Discuss if ITTC is ready to react flexible on short term questions mainly in between two Conferences (Does the role of the committee chairmen need to be defined in a new way)

Handle all external needs which are related to non-technical issues

Define how the group should interact with AC and EC

Represent ITTC in all political, administrative bodies and organizations (technical input should be given by the technical committees), and suggest how this could look like

Suggest modifications to the ITTC Rules, if necessary

Adjust the relevant procedures, if necessary.

## 5.4 Changes in ITTC Membership

The following new members of ITTC have been approved during this period:

- Technical University Berlin, Germany
- Cranfield University, UK
- Universiti Teknologi PETRONAS, Malaysia

The following members terminated their membership:

- Webb Institute, USA
- Icepronav, Romania

The two Japanese members, IHI Corporation and Universal Shipbuilding Corporation, merged their test facilities, which now operate under the name Japan Marine United Corpora-



tion. JMUC continues IHI's membership of the Advisory Council.

Several members have changed the names of their Designated Representatives. The member information as known by the secretariat on 1<sup>st</sup> May 2014 is included in Appendix 5 of Volume I of the Proceedings of the 27<sup>th</sup> Full Conference.

### 5.5 Changes in Technical Committee Membership

The Executive Committee has endorsed a number of changes of membership of the technical committees. Appendix 1 of Volume I of the Proceedings includes a list of all past and present members of the committees of the 27<sup>th</sup> ITTC.

### 5.6 Advisory Council Membership Review

During this period, all Advisory Council members were reviewed using the revised evaluation form. The revised review form, reflecting the increased emphasis on commercial work required for being a member of the Advisory Council, was generally accepted by the AC members. This form will therefore be implemented for future reviews, and the Executive Committee will decide on the continuation of AC membership on the basis of these forms.

### 5.7 ITTC Website

A new website has been developed and may be found on [www.ittc.info](http://www.ittc.info). The website is continuously updated with member information and provides links to ITTC Recommended Procedures and Guidelines, Symbols and Terminology, Dictionary, Sample QA Manual, and the ITTC wiki. It furthermore holds the Pro-

ceedings of all ITTC Conferences and the Catalogue of Facilities. Under the News menu, you will find the ITTC News and Short News, which are posted when relevant. Finally, when relevant, it will provide a link to the conference website.

### 5.8 IMO and ISO Activities

The Executive Committee has decided that ITTC shall continue the cooperation with IMO in relation to the implementation of EEDI and EEOI. IMO has adopted the ITTC model test procedures and recommends the ITTC speed/power trial procedure to be used until the ISO15016 standard has been revised. The committee has consequently decided to continue the financial support to ITTC's involvement in the revision of the ISO standard.

### 5.9 ITTC Accounts

The final accounts of the 26<sup>th</sup> ITTC and the projected accounts for the 27<sup>th</sup> ITTC are shown below. All amounts are in USD.

Account item	27 <sup>th</sup> projected	26 <sup>th</sup> Final
ITTC fee	56,000	55,200
AC fee	66,500	62,750
Financial income	0	129
<b>Total income</b>	122,500	118,079
Secretariat hours	95,000	86,525
Secretariat expenses	12,000	16,374
IMO/ISO activities	15,000	2,754
Support to Conference	6,000	0
Financial costs	750	535
Misc. costs	1,000	565
<b>Total costs</b>	129,750	106,753
<b>Net Result</b>	-7,250	11,325
<b>Total equity capital</b>	44,157	51,407



## 5.10 Budget for 28<sup>th</sup> ITTC

The proposed budget (in USD) for the 28<sup>th</sup> ITTC is shown below. The budget has been based on the assumption that the ITTC and AC fees and the remuneration of the secretariat remain unchanged.

Account item	28 <sup>th</sup> Budget
ITTC fee	57,000
AC fee	66,500
Financial income	0
<b>Total income</b>	123,500
Secretariat hours	90,000
Secretariat expenses	12,000
IMO/ISO activities	10,000
Support to Conference	6,000
Financial costs	800
Misc. costs	700
<b>Total costs</b>	119,500
<b>Net Result</b>	4,000

## 6. RECOMMENDATIONS

The Executive Committee recommends the following to the Full Conference:

- Adopt the following new and revised procedures and guidelines recommended by the technical committees and group
  - 4.2.3-01-03
  - 7.5-01-03-01
  - 7.5-01-03-03
  - 7.5-01-03-04
  - 7.5-02-01-01
  - 7.5-02-01-04
  - 7.5-02-01-05
  - 7.5-02-02-02
  - 7.5-02-02-02.1
  - 7.5-02-02-02.2
  - 7.5-02-03-01.4
  - 7.5-02-03-01.6
  - 7.5-02-03-02.1

- 7.5-02-03-02.2
- 7.5-02-03-02.3
- 7.5-02-03-03.2
- 7.5-02-03-03.3
- 7.5-02-03-03.4
- 7.5-02-04-02
- 7.5-02-05-04
- 7.5-02-05-05
- 7.5-02-06-01
- 7.5-02-06-02
- 7.5-02-06-03
- 7.5-02-06-04
- 7.5-02-06-05
- 7.5-02-07-02.1
- 7.5-02-07-02.2
- 7.5-02-07-02.3
- 7.5-02-07-03.7
- 7.5-02-07-03.8
- 7.5-02-07-03.9
- 7.5-02-07-03.10
- 7.5-02-07-04.2
- 7.5-02-07-04.4
- 7.5-03-02-03
- 7.5-03-02-04
- 7.5-03-03-01
- 7.5-03-03-02
- 7.5-03-04-02
- 7.5-04-01-01.1
- 7.5-04-01-01.2
- 7.5-04-04-01
- Delete and remove the following procedures and guidelines from the ITTC Recommended Procedures and Guidelines, as being obsolete
  - 7.5-02-02-03
  - 7.5-02-02-04
  - 7.5-02-02-05
  - 7.5-02-02-06
  - 7.5-02-07-02.4
  - 7.5-02-07-03.3
- Adopt the revised Register of ITTC Recommended Procedures and Guidelines as prepared by the Quality Systems Group





- Adopt the revised ITTC Rules as reflected in procedure 1.0-01 and 1.0-04
- Adopt the committee structure and Terms of Reference for the 28<sup>th</sup> ITTC as presented in Appendix 3 of Volume I of the Proceedings of the 27<sup>th</sup> ITTC Full Conference
- Accept the proposed chairs and members of the technical committees and groups
- Accept that the Executive Committee establishes an informal working group to consider the future role of ITTC
- Accept prof. Zhenping WENG, CSSRC as the next Chairman of the Executive Committee and CSSRC as host of the 28<sup>th</sup> ITTC Full Conference
- Accept Mr. Aage Damsgaard, FORCE Technology, as Secretary of the 28<sup>th</sup> ITTC
- Accept the continued involvement of ITTC in IMO and ISO with regard to EEDI, EEOI and safety matters and to support this activity financially
- Accept the proposed budget for the 28<sup>th</sup> ITTC and general membership fee of 600 USD for the entire period