

**The Executive Committee**  
**Final Report and recommendations to the 29<sup>th</sup> ITTC**



## 1. INTRODUCTION

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

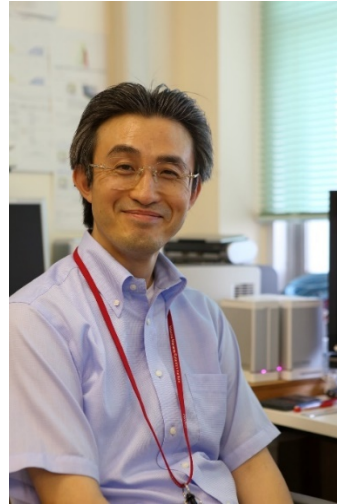
- Implementing the decisions of the Full Conference
- Representing ITTC between Conferences
- Replacing members of technical committees and groups as necessary between Conferences
- Accepting new member organisations to the ITTC
- Managing the finances
- Approving the arrangements and associated costs 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 29th ITTC, the Executive Committee has performed its duties in accordance with the above. The Executive Committee has worked together with the Advisory Council on the presentation of recommendations to be adopted by the 29th Full Conference.

## 2. OBITUARIES

### 2.1 Dr. Yusuke Tahara



Dr. Yusuke Tahara, a senior research engineer of National Maritime Research Institute (NMRI), sadly passed away on January 25th 2019 at the age of 56. Dr. Tahara earned his Bachelor of Engineering and Master of Engineering in 1985 and 1987, respectively, both from Yokohama National University. After one-year experience as a system engineer at Japan IBM, he started his postgraduate study in the University of Iowa, Iowa Institute of Hydraulic Research (currently IIHR-Hydroscience & Engineering-) in 1988. In 1992, he earned his Ph.D. degree with the dissertation title “Interactive Approach for Calculating Ship Boundary Layers and Wakes for Nonzero Froude Number”. Dr. Tahara started his academic carrier as the post-doctoral scholar at IIHR for 2 years, and then returned back to Japan as the assistant professor at Osaka Prefecture University (OPU) in 1994. In 2009, he chose NMRI as the next base of his research career after 15 years of activities at OPU, lastly appointed as an associate professor.

Dr. Tahara was the professional in developing codes in computational ship hydrodynamics including potential and viscous

flow solvers, grid generation, overset grid assembler and optimization. In the meantime, he put great importance on industrial application of his research works. He was also the yacht scientist. As the core representative of technical team of Nippon Challenge America's Cup during 1995 to 2000, the appendages for two challenger boats, "Asyura" (JPN44) and "Idaten" (JPN52), were designed and equipped owing to enormous efforts of Dr. Tahara and his team. As a research engineer, professor and yacht scientist, the achievement of Simulation Based Design throughout R+3D, including Research, Development, Demonstration and Dissemination, was his life work.

Dr. Tahara was nominated as the member of Resistance Committee in 25th and 26th ITTC. He accomplished many tasks including worldwide round robin tests in towing tanks for establishing benchmark data to identify the facility bias. As the conference operational director, several international workshops were able to be carried out with success, such as Osaka Colloquium, New S-Tech, and AMEC. His contributions to the field of naval architecture and ocean engineering were domestically and internationally awarded, including SNAME ABS Captain Joseph H. Linnard Prize in 2010 and JASNAOE Paper Award on 2012. Dr. Tahara supervised more than 30 students at OPU, and kept training young researchers after he moved to NMRI. "Face up. Find the way forward. No matter what. We can do it." We were always encouraged by Dr. Tahara's extremely positive attitude. Dr. Tahara will be missed by the worldwide ship hydrodynamics community.

## 2.2 Prof Seizo Motora



Professor Emeritus Seizo Motora passed away peacefully at the age of 98 on May 1st, 2020. He studied naval architecture at the Second School of Engineering, University of Tokyo. After graduation in 1944, he worked as a faculty member in the Department of Naval Architecture at University of Tokyo until 1982. After he retired University of Tokyo, he was the president of Nagasaki Institute of Applied Science from 1982 to 1989.

He made a great contribution to developing the field of manoeuvrability of ships. He revealed the hydrodynamic characteristics of the added mass of the hull and presented a practical estimation method based on extensive experimental studies. In 1970, Seakeeping and Manoeuvring Basin with a length of 50 m, a width of 30 m, and a depth of 2.5 m was constructed under his leadership in the university and was engaged in education and research until 2010s. In addition to university education and research, he authored numerous academic papers and several textbooks, including Ship Dynamics and Dynamics of Ships and Offshore Structures. As a social activity, he was in charge of analysis of an accident in 1954 when the Seikan ferry Toyamaru sank due to the effect of a typhoon. He played a key role in research on ship safety standards and contributed significantly to the development of ship building industries. As an academic activity, he was President of the

Society of Naval Architects of Japan from 1981 to 1983. He also established STAB Conference (The International Conference on Stability of Ships and Ocean Vehicles) and initiated PRADs Symposium (The International Symposium on Practical Design of Ships and Other Floating Structures). He participated in the Maritime Safety Committee and Marine Environment Protection Committee of the International Maritime Organization (IMO) as a Japanese representative more than 20 times and contributed to developing the limitation of the size of tanks in tankers and international standards regarding ship stability. For such outstanding achievements, he was awarded Compass International Award of Marine Technology Society, Stanley Gray Award of the Institute of Marine Engineering, Science and Technology and other awards.

He participated in ITTC many times. He was a member of Manoeuvrability Committee in the 10th and 11th from 1960 to 1966 and served as a chairman of the committee. He was a member of Japan Organizing Committee of the 11th in Tokyo in 1966 and the 18th in Kobe in 1987. He served as a member of Executive Committee in the 14th, 15th and 16th from 1972 to 1981. He joined the 25th Conference as a special guest in Fukuoka in 2008. Through joining, hosting and organizing conferences and related meetings, he had contributed greatly to the development of ITTC and to the development of the academic field of naval architecture since the early days.

In 1997, he received the Order of the Sacred Treasure, Gold and Silver Star in Japan. Here, we would like to express our deep homage to his achievements over the years, and to express our sincere condolences.

### 2.3 Prof. Baoshan Wu



Prof. Wu Baoshan, deputy director of China Ship Scientific Research Center (CSSRC), passed away at the age of 52 at 05:40 on February 10, 2020.

Born in Tianmen City, Hubei Province on Dec. 29, 1968, Prof. Wu Baoshan graduated from the Department of Engineering Mechanics of Xi'an Jiaotong University in 1993, and in the same year joined China Ship Scientific Research Center (CSSRC). He obtained a doctorate in fluid mechanics from China Ship Research and Development Academy in 2012. He served as director of the CSSRC Hydrodynamic Research Department (2002-2018), director of CSSRC Graduate Department, deputy director and technical director of CSSRC(2018-2020).

Since 2002, Prof Wu had been the Academic Committee Member of Ship Mechanics Committee, Chinese Society of Naval Architecture and Marine Engineers(CSNAME).

Since 2005, Prof. Wu had been a member of the 25th and 26th ITTC Uncertainty Analysis Committee, the 27th ITTC Resistance Committee, the 28th ITTC Executive Committee and the Advisory Committee and the 29th ITTC Advisory Committee. As secretary of the 28th ITTC Organizing Committee, he had exerted great efforts for the success of the 28th ITTC held in Wuxi, China.

Prof. Wu Baoshan was not only an outstanding scientist who had long been engaged in the research on the overall performance of ships, but also an excellent tutor who had instructed more than 10 students for master's and Ph. D degrees.

We extend deepest condolences to Prof. Wu's family and mourn the loss of an exceptionally gifted colleague.

Prof. He Chunrong  
On behalf of  
China Ship Science Research Center

## 2.4 Prof. Ichiro Tanaka



Ichiro Tanaka, Professor Emeritus of Osaka University, Japan passed away on 23rd June 2019 at the age of 87.

He was born on September 9, 1931 in Kobe City, Hyogo Prefecture Japan. He was a member of the 16th (1978-1981) and 17th (1981-1984) ITTC resistance committee. He was also a member of Japan executive committee for 18th Conference held in Kobe. He started Osaka Colloquium on Ship Viscous Flow on 1985 and was a Chairman of first and second Colloquium.

Prof. Tanaka started his scientific career on the viscous flow around ship stern as a student and a colleague of Professor Hideo Sasajima at Osaka University. He worked for Osaka University as an assistant professor (1952-1967),

an associate professor (1967-1973) and a professor (1973-1995) and he retired on March 1995. He made a lot of achievement on simplified computation method of turbulent boundary layer around ship. He also made the prediction method of scale effect for the wake distribution in the stern region and the simple formula for estimating form factor of viscous resistance especially for viscous pressure resistance based on turbulent boundary layer theory. From those achievement, he got many awards such as JASNAOE Awards in 1976. He extended his research field to ship propulsion and performance prediction and did a lot of excellent works.

Prof. Tanaka supervised more than 200 students at Osaka University and many graduates from his research group are working in the ship hydrodynamics community.

## 2.5 Prof. Bruce Johnson



Prof. Bruce Johnson passed away on 4 June 2018, at the age of 85 years old. He had been a professor for 35 years, in the Naval Architecture and Ocean Engineering Department at the United States Naval Academy.

Prof. Johnson received a BSME in Mechanical Engineering from Iowa State University where he was a member of the Navy Reserve Officers Training Corps in 1955. He earned a MSME in 1962 and a PhD. in 1965, both degrees in Mechanical Engineering from Purdue University.

From 1955–1959, Prof. Johnson served in the US Navy, as an Engineering Repair Division Officer on the U.S.S. Kearsarge (CVA-33) and then as a Naval Officer Instructor at the US Naval Academy. While he was a graduate student at Purdue University from 1959–1964, he was also an instructor. He then joined the faculty of the US Naval Academy in the Department of Naval Architecture and Ocean Engineering, where he was an Associate Professor from 1964–1970, and a full Professor from 1970–1999. He became a Professor Emeritus upon his retirement in 2000.

At the Naval Academy, Prof. Johnson taught courses and did research. He was the Director of the Hydromechanics Laboratory in Isherwood Hall from 1967–1972, where he began development of the towing tanks for Rickover Hall. He then became a Project Manager in the Hydromechanics Laboratory in Rickover Hall from 1972–1975. He was the Naval Sea Systems Command Professor of Hydromechanics from 1975–1986; Director, Hydromechanics Laboratory in Rickover Hall, 1976–1987; and Program Director, Ocean Engineering, 1996–1999.

Prof. Johnson performed research in many fields including fluid mechanics, hydrodynamics, naval architecture, ocean-wave mechanics, time-series analysis, brain-wave analysis, and engineering-economic analysis. He was advisor or co-advisor for nineteen Trident Scholars, four of whom were awarded the Harry E. Ward Trident Scholar Prize. Two of them made flag rank, including one four-star admiral. He received an American Society for Engineering Education Excellence in Engineering Teaching Award in 1970, and he received the William H. Webb Medal from the Society of Naval Architects and Marine Engineers for outstanding contributions to education in Naval Architecture, Marine, or Ocean Engineering in 2017.

In addition to teaching and research, Prof. Johnson was the author or co-author of many papers. After he retired he focused his writing on the stability of fishing vessels and sailing ships. He also co-authored several textbooks including *Introduction to Naval Architecture* published by the U. S. Naval Institute with Prof. Thomas Gillmer. He was responsible for major revisions to the chapters on ship stability in the second edition of *Introduction to Naval Engineering* by Blank, Bock, and Richardson. He was a coauthor of the 5th edition of *Engineering Economic Analysis* with Donald Newnan, for which he rewrote chapters on the use of spreadsheets in cash-flow analysis for the 6th and 7th editions. He was the first author of *Hydrostatics and Stability of Ships and Offshore Floating Systems*.

Prof. Johnson was active in the ITTC for 40 years. He was a member of the Presentation and Information Committee for the 15th and 16th ITTC's (1978–1981), a member of the Information Committee for the 17th ITTC (1984–1987). He was the chairman of the Symbols and Terminology Group for the 18th–22nd ITTC's (1987–1999). Finally, he was a member and then Corresponding member of the Quality Systems Group for the 26th–28th ITTC's from 2011 until his death in 2018.

Prof. Johnson was an avid sailor and spent many happy hours racing sailboats on the Chesapeake Bay. In addition, he loved the arts, including classical music, opera and ballet performances.

Arthur M. Reed

## 2.6 Dr. Kostadin Yossifov



Bulgarian Ship Hydrodynamics Centre – Varna sadly announces, that on April 12 2021 Dr. Kostadin Yossifov (1943 – 2021), the former BSHC director, passed away.

Dr. Yossifov is one of the founders of the BSHC, who participated in the design, construction, commissioning and development of its scientific and experimental facilities. Specialist in the design of ship propellers, with significant personal contribution to the creation and development of the Cavitation Laboratory.

During his long scientific career he was Deputy Director R&D, long-term director of BSHC, having an indisputable contribution to the establishing its international recognition.

He has been a longtime member of several ITTC Technical Committees as well as a member of ITTC AC until 2013.

A tribute to his bright memory!

### 3. COMMITTEE MEMBERSHIP

Membership of the 29th Executive Committee has been the following:

ITTC Association Chairman: Fabio di Felice, CNR

Northern Europe representative: Kouros Koushan, SINTEF Ocean

Central Europe representative: Janou Hennig, HSVA

Southern Europe representative: Fabio di Felice, CNR

Pacific Islands representative: Shotaro Uto, NMRI

East Asia representative: Suak Ho Van, KRISO, until 2018, Yonghwan Kim, SNU, from 2019 onwards

Americas representative: Antonio Fernandes, LabOceano.

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

Didier Fréchou, DGA Hydrodynamics, as Chairman of the 29th Conference

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

Zhenping Weng, CSSRC, as past Chairman,

Aage Damsgaard, FORCE Technology, as ITTC Secretary.

### 4. COMMITTEE MEETINGS

The committee has held three physical meetings between 2017, 2018 and 2019 and, due to the pandemic situation, six virtual meetings in 2020 and 2021. Further virtual meetings are foreseen, and the final virtual meeting will be held during the 29th Full Conference.

The first meeting was held in Wuxi during the 28th 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 committee elected Fabio di Felice as interim chairman of ITTC.A and authorised him to proceed with the registration of the association in Switzerland.

The committee appointed Kouros Koushan as chairman of the Working Group on the Future of ITTC, the continuation of which had been endorsed by the Full Conference.

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 committee appointed new members of the joint ISSC/ITTC committee and, finally, decided to seek additional members of the SC on Energy Saving Methods, which had just five members.

The second committee meeting was held in September 2018 in Gdansk, Poland, hosted by CTO.

The inaugural meeting of the ITTC Association, ITTC.A, was held on this occasion, and Fabio di Felice was elected chairman. He was authorised to proceed with the formalities in accordance with the statutes.

The Working Group on the Future of ITTC reported its progress and mentioned that a separate meeting would be arranged early 2019.

The committee endorsed that the speed-power sea trial procedure should be revised in cooperation between the AC Chairman and the SC on Ships Operating at Sea, and that the revised procedure should be published soonest possible.

Formal liaison with IEC was endorsed and action would be taken by the chairman.

The cooperation with ISSC was criticised, and it was discussed whether it should continue.

The AC Chairman reported on the IMO cooperation, specifically the ongoing activities in MEPC.

The secretary presented draft final accounts for the 28th ITTC secretariat. There had been some problems as the accountant in FORCE had left the company without informing the secretary. In the light of this, the secretary was given the mandate to look for an independent accounting firm to assist.

The 29th conference arrangements were discussed.

The Pacific Islands region proposed that the 30th conference should be held in Tasmania. Following the usual sequence of host regions, it should have been held in Central Europe, but the CE representative agreed to shift the sequence.

Antonio Fernandes was elected vice-chairman.

The secretary was authorised to make payments from the ITTC bank account up to 5000 USD. Larger payments should be co-signed by the chairman.

The committee decided that a general disclaimer shall be included in all ITTC procedures.

The third meeting was hosted by DGA Hydrodynamics in Val de Reuil, France, September 2019.

The committee, on the recommendation of the Advisory Council, decided to establish a working group to look at extrapolation procedures at varying draft. It would be chaired by SSPA, and members were appointed.



Membership of ITTC has been terminated for six organisations that had not paid the fee and had not responded to reminders.

Hiring an external accounting firm to handle the ITTC accounts appeared to be excessively costly, so the committee accepted that the accounting is done by the secretary and checked by two internal auditors.

The WG on the Future of ITTC had been considering a large number of suggestions for modernising ITTC. It was agreed to follow some of the recommendations and introduce new procedures. Others would need further discussion.

The fourth meeting was planned to be held in Tokyo March 2020, hosted by NMRI. However, the meeting was cancelled due to the worldwide health crisis, and all subsequent meetings were held online.

A total of six virtual meetings were held between 15th April 2020 and 25th May 2021.

The meetings held in April, October and November 2020 and January 2021 mainly concerned the practical aspects of the conference. In April, it was decided to postpone the conference to 2021 and the 30th conference to 2024, and the consequences of this were communicated to the member organisations and the technical committees. At the next meetings, it was decided to arrange a virtual conference, and the practical aspects of that were discussed. Among others, it implied that all committee presentations would have to be video recorded and that there would not be a printed version of the Proceedings. Reports, presentations and the usual appendixes would be available on the ITTC website.

The last two virtual meetings before the conference handled the “normal” committee activities that had been given less attention up to then. The review of AC membership was performed and some AC members consequently asked to confirm their commitment to AC work,

TC member evaluations were reviewed, the Terms of Reference for new committees proposed by AC were reviewed, new Area Representatives identified, the budget and fee for the next period approved, and the accounts and fee payment status for the 29th period reviewed.

The WG on the Future of ITTC had proposed a number of revisions to the ITTC Rules and the ITTC.A Statutes, which were discussed and formulated. The proposed changes are presented later in this report and the revised documents are included in the Proceedings on the ITTC website.

The committee supported the recommendations of the Advisory Council with regard to Group Discussions at the conference.

New Area Representatives have been appointed as follows:

- East Asia: Chunrong He, CSSRC
- Southern Europe: Lanfranco Benedetti, CNR
- Northern Europe: Claus D. Simonsen, FORCE
- Pacific Islands: Toru Katayama, Osaka Prefecture University
- Americas: To be decided

The representative for Central Europe will continue for the next period.

## **5. WORKING GROUP ON THE FUTURE OF ITTC**

The Working Group on the Future of ITTC continued its activities during this period and produced a set of recommendations to the Executive Committee. The WG Presentation is included in these Proceedings as a separate report to which reference is made.

## **6. COMMITTEE ACTIVITIES**

### **6.1 Revision of ITTC Rules**

The committee decided to recommend to the 29th Full Conference to adopt a number of modifications to the ITTC Rules. The proposed modifications are:

- The membership of ITTC shall be open to organisations that carry out hydrodynamic work in support of the designers, builders and operators of ships and marine installations with numerical capabilities, only. AC membership shall be for towing tank organisations, only.
- East Asia shall be split into two areas and EC consequently increased to seven area representatives with voting right.
- There shall be one type of technical committees, only, and the requirements to them shall be the same.
- Membership of technical committees shall be based primarily on expertise, not on even geographical distribution.
- The ITTC and AC fees are merged into one account administered by EC.

The present version of the Rules is found as Procedure 1.0-01 in the 2017 version of the Quality Systems Manual, and the proposed revised Rules are included as an appendix in the Proceedings on the ITTC website.

If these changes are accepted, a number of procedures need to be changed consequentially. This will be done during the next period.

### **6.2 Revision of ITTC.A Statutes**

As a consequence of the proposed revision of the ITTC Rules, a number of revisions of the ITTC.A Statutes are required.

They concern:

- Revising the aim to include members that do not operate towing tanks or other physical test facilities
- Increasing the number of EC members

The proposed revised Statutes are included in Appendixes to the Proceedings on the ITTC website.

### **6.3 Appointment of ITTC.A Chairman**

The Executive Committee has sent all members the call for candidacy for the position as Chairman of ITTC.A to be elected at the General Assembly. One candidate, only, submitted his application before the deadline 15th April 2021, Kourosh Koushan, SINTEF Ocean, Norway. The candidate will be the only one presented for election at the ITTC.A General Assembly, and the committee recommends the ITTC.A General Assembly to elect Kourosh Koushan as the new chairman.

### **6.4 Committees and Tasks of the 30th ITTC**

Based on input from the technical committees, AC members, ITTC members and the Executive Committee Working Group on the Future of ITTC, the Advisory Council prepared the document proposing the structure and Terms of Reference of technical committees and groups of the 30th ITTC enclosed as an appendix to the Proceedings of the 29th Conference on the ITTC website.

### **6.5 Changes in ITTC Membership**

The following new members of ITTC have been approved during this period (or late last period):

- National Iranian Marine Laboratory, Iran
- Gdansk University of Technology, Poland
- University of Sao Paulo, Brazil

- University College Cork, Ireland
- Daewoo Shipbuilding and Marine Engineering, Korea
- University of Galati, Romania
- Tallinn University of Technology, Estonia
- Changwon National University, Korea
- Laboratory for Waves and Currents, UFRJ, Brazil
- Coastal and Marine Engineering Research Institute, Israel

Membership was terminated for the following:

- Naval Science and Technological Institute, India
- Sharif University of Technology, Iran
- Universiti Teknologi Petronas, Malaysia
- BMT Seatech, UK
- Cranfield University, UK
- Orion Energy Centre, UK

Several members have changed their Designated Representatives. The member information as known by the secretariat on 1st May 2021 is included as an appendix to the Proceedings of the 29th Full Conference.

The total number of members is 103.

## **6.6 Changes in Advisory Council Membership**

There has been no change of AC membership this period. AC has 39 members.

## **6.7 Changes in Technical Committee Membership**

The Executive Committee has endorsed a number of changes of membership of the technical committees. An appendix to the Proceedings includes a list of all past and present members of the committees of the 29th ITTC.

## **6.8 Advisory Council Membership Review**

During this period, approximately half of the Advisory Council members were reviewed using the evaluation form that was revised during the 27th ITTC. Some AC members had not demonstrated the desired commitment to AC activities and were asked to reconfirm their interest in staying on the AC. As a result of this, all AC members were accepted.

## **6.9 ITTC Website**

The website is continuously updated with member information and provides links to ITTC Recommended Procedures and Guidelines, Symbols and Terminology, Dictionary, and the Sample QA Manual. The link to the ITTC wiki has not been functioning for some time as the server holding the wiki was not in operation.

The website furthermore holds the Proceedings of all ITTC Conferences and the Catalogue of Facilities. Under the News menu, you will find the ITTC News, and under Miscellaneous, other relevant information may be found. A new menu Benchmark Data has been implemented. This will, in time, link to the available benchmark data.

A password protected Member's area holds information for the Executive Committee and Advisory Council.

## **6.10 ISBN and ISSN Number on Publications**

In 2020, the ITTC Association registered as publisher at the Swiss ISBN Agency. The association bought a quota of 1000 ISBN numbers for 861,60 CHF that can be assigned to digital and printed publications. After publication, a copy of the published document must be submitted to the Swiss National Library.

The request of the ISSN (International Standard Serial Number) assignment for the ITTC proceedings series is in progress.

## 6.11 IMO Activities

### ADVISORY COUNCIL CHAIRMAN

The ITTC AC Chairman attended the following meetings, with travel and hotel costs paid by ITTC:

MEPC 72 (Marine Environment Protection Committee): 9 to 13 April, 2018

MEPC 73: 22 to 26 October, 2018

MEPC 74: 13 to 17 May, 2019

The following submissions have been made or co-sponsored by ITTC:

MEPC 72/INF.4, ITTC Recommended Guideline on Model Scale Cavitation Noise Measurements.

MEPC 72/INF.6, Updated ITTC Recommended Procedures and Guidelines concerning the determination and verification of EEDI.

MEPC 73/5/5, Draft amendments to 2014 guidelines on survey and certification of EEDI.

### STABILITY IN WAVES COMMITTEE

The Stability in Waves Committee (SiW) had representatives to the Subcommittee Ship Design and Construction (SDC) of IMO as follows:

SDC 6: 4 to 8 February, 2019 (Akihiko Matsuda)

SDC 7: 3 to 7 February, 2020 (Akihiko Matsuda)

The SiW has been particularly involved in the discussions concerning the second generation intact stability requirements.

### ITTC MEMBERS

Several members of ITTC participate via the member states to IMO.

## 6.12 ITTC Accounts

The final accounts of the 28th ITTC and the projected accounts for the 29th ITTC are shown below. All amounts are in USD. The accounts for the 28th ITTC were checked and approved by the internal auditors Marco Ferrando, University of Genova, and R. U. Franz von Bock und Polach, Technical University of Hamburg.

Account item	29 <sup>th</sup> projected (4 years)	28 <sup>th</sup> Final
ITTC fee	80,000	57,800
AC fee	150,000	72,200
Financial income	2,670	116
<b>Total income</b>	<b>232,670</b>	<b>130,116</b>
Secretariat hours	120,000	95,000
Secretariat expenses	6,000	10,915
IMO/ISO activities	18,000	11,688
Support to Conference	6,000	6,000
Financial costs	1,500	1,171
Website	2,000	6,748
ITTC Association	20,000	1,712
<b>Total costs</b>	<b>173,500</b>	<b>133,234</b>
<b>Net Result</b>	<b>59,170</b>	<b>-3,117</b>
<b>Total equity capital</b>	<b>88,117</b>	<b>28,947</b>

## 6.13 Budget for 30th ITTC

The proposed budget (in USD) for the 30th ITTC is shown below. The budget is based on the assumption that the ITTC membership fee is reduced from 250 USD to 225 USD annually and the additional fee for AC membership is reduced from 1,100 USD to 1,000 USD annually.

Account item	30 <sup>th</sup> ITTC Budget
ITTC fee	69,525
AC fee	117,000
Financial income	0
<b>Total income</b>	<b>186,525</b>
Secretariat hours	90,000
Secretariat expenses	15,000
IMO/ISO activities	20,000
Support to Conference	6,000
Website	3,000
ITTC Association	15,000
Financial costs	2,000
Miscellaneous costs	10,000
<b>Total costs</b>	<b>161,000</b>
<b>Net Result</b>	<b>25,525</b>

- Accept AMC as host of the 30th ITTC Full Conference and Michael Woodward as chairman of the conference
- Accept Mr. Aage Damsgaard, FORCE Technology, as ITTC Secretary for the 30th ITTC
- Accept the continued involvement of ITTC in IMO and to support this activity financially
- Accept the formal liaison with ISO and IEC on subjects relevant to ITTC
- Accept the proposed budget for the 30th ITTC and general membership fee of 225 USD annually and an additional fee of 1000 USD annually for Advisory Council members.

## 7. RECOMMENDATIONS TO THE FULL CONFERENCE

The Executive Committee recommends the following to the Full Conference:

- Adopt the new and revised procedures and guidelines recommended by the technical committees and group as listed in the report of the Quality Systems Group
- Delete and remove the procedures and guidelines from the ITTC Recommended Procedures and Guidelines, as being obsolete as listed in the report of the Quality Systems Group
- 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 the revised procedure 1.0-01
- Adopt the committee structure and Terms of Reference for the 30th ITTC as presented in the appendix to the Proceedings of the 29th ITTC Conference
- Accept the proposed chairs and members of the technical committees and groups
- Accept that the Executive Committee continues the working group to consider the future of ITTC

## 8. RECOMMENDATIONS TO THE ITTC.A GENERAL ASSEMBLY

The Executive Committee recommends the following to the ITTC.A General Assembly:

- Adopt the revised Statutes and Articles of ITTC.A
- Accept Kouros Koushan as the next Chairman of the ITTC Association
- Accept Marco Ferrando and R. U. Franz von Bock und Polach as internal auditors