

Executive Committee Working Group *Future of ITTC*

Chairman : Kourosh Koushan

Members : Baoshan Wu, Bas Buchner, Didier Fréchou, Fabio di Felice, Gerhard Strasser, Janou Hennig, Leszek Wilczynski, Michael Woodward, Shotaro Uto, Suak Ho Van, Takuya Omori



Participants of meeting on 18 September 2019 at DGA, France

Member	Organization	Attended	Excused
Kourosh Koushan	SINTEF Ocean	x	
Baoshan Wu	CSSRC		x
Bas Buchner	Marin		x
Didier Fréchet	DGA	x	
Fabio di Felice	CNR-INM	x	
Gerhard Strasser	SVA	x	
Janou Hennig	HSVA	x	
Leszek Wilczynski	CTO	x	
Michael Woodward	AMC		x
Shotaro Uto	NMRI	x	
Suak Ho Van	KRISO		x
Takuya Omori	JMUC	x	

Participants of virtual meeting on 7 April 2021

Member	Organization	Attended	Excused
Kouros Koushan	SINTEF Ocean	x	
Bas Buchner	Marin	x	
Didier Fréchou	DGA	x	
Fabio di Felice	CNR-INM	x	
Gerhard Strasser	SVA	x	
Janou Hennig	HSVA		x
Leszek Wilczynski	CTO	x	
Michael Woodward	AMC	x	
Shotaro Uto	NMRI	x	

Proposed ToR for this term

1. Propose any modifications of the rules to allow a **more effective organisation** of ITTC just after transformation into a legal entity.
2. Discuss the mission and role of ITTC looking at long term developments in hydrodynamics and **new topics relevant to the ITTC**.
3. Discuss a different **membership** representation aimed to achieve a greater involvement of the members taking more into account their institutional role and mission.
4. Review the **Committee work organisation** looking to improve the quality of the issued documents that could be released when deemed necessary.
5. Develop a different approach of the **reviewing process** of procedures and reports aimed to the improvement of the quality.
6. Develop a plan for better management of the **benchmark activities** and relative dataset.
7. Implement a plan for the **exploitation of ITTC products** (publications, reports, procedures and benchmark results).
8. Apply the **ISBN numbering** to the all relevant ITTC publications (also to the previous proceedings verifying the possibility to transfer the copyrights from the conference organisers to ITTC)
9. Explore the feasibility to issue an **ITTC Journal**



Geographical areas

- Geographical distribution of ITTC members has been changed over the years.
- ITTC has expanded relatively more in **Asia** compared to the other regions.
- "Western world" looks overrepresented in the EC.
EC composition today does not mirror the current geographical distribution.
- Therefore, it is proposed to establish two regions in Asia, **Eastern and Southern Asia**, with one representative for each region.
- This will increase total number of regions and EC representatives by one.



Membership

- The group recommends **not to exclude** members without physical testing facilities but with **numerical** capabilities in ship and marine technology commercial applications.
- In special cases, EC should have the possibility to invite outside organisations as **observer** for TCs for a limited time. Observers will have **no voting rights**.
- Degree of contribution for each observer will be decided on individual basis by EC.
- Requirement for membership in AC shall not be changes (a.o. physical testing facilities)



Technical committee structure

- The group suggests to **remove the two different categories** of the committees (general and specialised). This makes the establishment of the committees more dynamic. It allows to provide more focus on current hot topics.
- There is already possibility to establish **committees between two conferences**, with shorter term. These committees need to be approved by AC. It is proposed to use more this possibility when required. AC approval can be done online.
- We should **limit** number of new or revised procedures based on available resources in the AC for reviewing these procedures.
- Member of technical committees to be selected based on their expertise, not geographical area. However, EC shall aim an overall balance.



Review of procedures

- Quality check and reviewing of new procedures is not optimal.
- As first step, it is proposed that each procedure is allocated to a single member of AC (**Chief Reviewer**) within the corresponding WG.
- This is discussed within corresponding WG and decided by the chair of WG.
- Chief Reviewer should communicate with the committee.
- Chief reviewer can **delegate**/(get support) from a panel of experts within own organisation or beyond. (Preferably at a later stage a database of panel of experts to be established)
- Chief Reviewer brings the findings to the WG meetings for final quality check and approval.



Expert panel

- Expert panel (reviewers) should support chief reviewers on reviewing the procedures.
- The AC working groups and all ITTC members can propose members for the panel. The panel members can be also from outside ITTC.
- The expert panel should be **approved by EC**.
- The main fields should be defined. (For example: resistance, propulsion, seakeeping, manoeuvring, ocean engineering, renewables, CFD, ice, ..).
- Each new or revised procedure should be flagged with the required field of expertise.
- The expert panel, could help ITTC members to look into new areas (for example renewable or digitalization)



Approval of procedures

- It is suggested that **only AC approves** the procedures (not the full conference).
- The procedures are presented to the full conference. The members get the opportunity to highlight unforeseen errors.
- AC collects the comments and examine them for possible change.
- It means **the procedures can be approved also between conferences;** any time AC has a meeting (physical or virtual).



Registration of procedures and proceedings

- It is proposed to register **ISBN** and **ISSN** for the proceedings.
- ISSN and ISBN are allocated for both printed and electronic documents.
- Preferably, also previous proceedings should be registered and copy right should be transferred to ITTC.A.
- It is proposed to register a **DOI** for each procedure
 - DOI is unique
 - DOI is dynamic, if the procedure is updated, still the DOI number is valid.
 - Link to the document is always updated, allowing transfer of electronic documents from one institution or site to another one.
 - It can be linked to copy right and right of access to the document (for example payment for non-ITTC-members).



Proposal to the coming conference

- Increase number of **geographical areas** and consequently representatives in EC by one.
 - Americas, Central Europe, Northern Europe, Southern Europe, **Eastern Asia**, **Southern Asia**, Pacific Islands
- Institutions with **only numerical capabilities** in ship and marine technology commercial applications can also become a member of ITTC.
- Members of committees to be selected based on their expertise, not geographical area, however, with the aim of an overall balance.
- Approval of procedures:
 - **Only AC** shall approve the procedures.
 - The procedures are presented to the full conference. The members get the opportunity to highlight unforeseen errors. AC collects the comments and examine them for possible change.
 - It means **the procedures can be approved also between conferences**; any time AC has a meeting.
- Removal of two different categories of the committees (general and specialised)
 - This makes the establishment of the committees more dynamic.
 - It allows to provide more focus on current hot topics.



Proposal to the coming conference, cont'd

- Review of procedures
 - each procedure shall be allocated to a single member of AC (Chief Reviewer) within the corresponding WG
 - Chief Reviewer can delegate and get support from an Expert Panel within own organisation or beyond.
 - Chief Reviewer brings the findings to the WG meetings for final quality check and approval.
- Expert Panel
 - An Expert Panel to be established to support chief reviewers on reviewing the procedures.
 - The AC working groups and all ITTC members can propose members for the panel, also from outside ITTC.
 - The expert panel shall be approved by EC.



Proposal to the coming conference, cont'd

- EC should have the possibility to invite an outside organisation as **observer** (without voting right) in a Technical Committee. Period and degree of contribution for each observer will be decided on individual basis by EC.
- Introduce possibility for approvals to be done **online**.
 - Which means the document (circular letter) will be sent to the corresponding members (AC or EC or full conference[all ITTC members]) and the decision can be made electronically.
 - An **online poll system** shall be implemented.
- A new working group to be established.
 - to work on **exploitation of ITTC products** (publications, reports, procedures and benchmark results)
 - to introduce an ITTC journal
 - to implement proper electronic registration of ITTC products (ISBN, ISSN, DOI)



Suggestion for future improvements

- Implement an online **cloud service (cooperative platform)** for editing the procedures and committee works and meetings. This could be also a storage for benchmark data.
- This will also assist reviewers and experts to have online access to the documents and provide online comments and suggestions.
- More focus on quality standards for **CFD procedures**. For example procedures for performance prediction using CFD.
- Provide **benchmark** available to ITTC members to check their **CFD** prediction.
- **Digitalisation**, including digital twins are topics getting more and more attention. It is important to start including these topics in ITTC.

