

ITTC2024

**30TH INTERNATIONAL TOWING TANK CONFERENCE
22–27 SEPTEMBER 2024 | HOBART TASMANIA AUSTRALIA**

Report of the Advisory Council

ADVISORY COUNCIL

1. MEMBERSHIP AND MEETINGS

The membership of the 30th Advisory Council consisted of 40 organisations. One new organisation, Aker Arctic, Finland, was admitted to the Advisory Council.

Prof. Gerhard Strasser, Vienna Model Basin, was elected Chairman and Prof. Daisuke Kitazawa, University of Tokyo, Vice Chairman. The ITTC Secretary, Mr. Aage Damsgaard, is acting as Secretary of the Advisory Council.

The first meeting was planned to be held in Japan in September 2022, but due to the continued COVID-threat, it was held as a virtual meeting. The focus of the meeting was the review of the progress of the technical committee activities, and the response to the committees. Some of the Technical Committees had apparently had a very slow start, possibly due to the COVID-situation, and special actions were initiated to follow up on these.

AC had initiated a Working Group to investigate the speed/power predictions at different drafts, named the AC WG on Correlation. The group presented a report on their initial findings and were commissioned to continue the work.

The second meeting was held physically in Seoul, Korea, and was attended by representatives of ten out of twelve Technical Committees and Groups in addition to 32 out of 40 AC members. In addition, some of the Area Representatives of EC, which are not AC members, attended the meeting.

The progress of the Technical Committees was reviewed and was in general satisfactory. However, one committee had serious problems, partly due to the resignation of the chairman,

and particular attention was given to that committee in order to improve the situation.

The Chairperson of the AC WG on Correlation presented the report on the results of their work and recommendations for further action. A lengthy debate followed, and it was agreed that the WG should develop a test that should be tried by all AC members before a conclusion could be drawn.

Among other subjects discussed was the cooperation with ISSC, which is not working, continuation of the involvement in IMO, and recommendation of the next ITTC Secretary. As there is just one candidate, AC recommends John Koch Nielsen, FORCE Technology, as the next ITTC Secretary.

The third meeting was again a physical meeting hosted by MARIN, The Netherlands. 31 of the 40 AC members attended and the four EC members that are not AC members also attended.

Apart from reviewing the general progress of the technical committees, focus was on the review of the final drafts of technical procedures and guidelines submitted by the committees. In total, approximately 90 new or revised procedures and guidelines were reviewed, and more than half of them were sent back to the committees for further corrections.

The second important item on the agenda was the decision on the structure of committees of the 31st ITTC and preparation of the Terms of Reference (TOR) for these committees. Input to the first draft of the TOR was prepared by the AC Working Groups, but as the meeting had been reduced to 1 ½ days against the usual 2 ½ days, it was not possible to prepare a complete draft for further discussion. Hence, it was decided to convene a TEAMS meeting to review and discuss the TOR. It was also decided that the committees shall not be required to review all technical procedures and guidelines. The TOR shall define clearly which of them must be revised and the committees may recommend

which of them they wish to revise. An important decision was that a Group shall be established to resolve overlaps between procedures and guidelines, particularly with respect to description of environmental conditions.

Finally, a lengthy discussion took place over the outcome and recommendations of the AC WG on Correlation, in particular the proposed Guideline on Evaluating Power Ratio between Drafts. The consensus was that review of the guideline was closely linked to performing the test also suggested by the WG, and as just 11 of the AC members had performed that test, it was decided to extend the deadline to end July and arrange a TEAMS meeting mid-August to decide.

The fourth meeting was the virtual meeting to review the draft TOR for the next committees and groups. Approximately 33 persons attended the meeting and many corrections to the second draft of the TOR were suggested. It was decided that further reviews and corrections will be handled by mail communications, and that the final version will be reviewed at the virtual meeting planned for mid-August.

The fifth meeting was the virtual meeting held on 16th August 2024 with two main items on the agenda, viz. finalization of the Terms of Reference for the next committees and conclusion on the work performed by the AC WG on Correlation.

A few changes to the Terms of Reference were agreed, and they can be submitted to the conference organizer.

The procedure for predicting the speed/power curve at different drafts proposed by the AC WG was discussed at length. One solution was to publish it as a draft guideline with a note of concern to be formulated. This will be further discussed at the next AC meeting to be held on the first day of the conference.

The sixth and last meeting of AC will be held at the 30th Conference in Tasmania.

2. ACTIVITIES OF THE ADVISORY COUNCIL

2.1 Kick-off Meeting with Technical Committees

The kick-off meeting with technical committees implemented at the 26th Conference was held as a virtual meeting as the rest of the conference, with participation of the AC Chairman, the ITTC Secretary and the QSG Chairman, and the new TC Chairmen participating in the virtual conference.

2.2 Review of the Work of the Technical Committees and Groups

One of the main tasks of AC is to review the progress of the Technical Committees, partly by reviewing the progress reports submitted by the committees, but in some cases supplemented with direct contact to the committee chairs. Due to the continued COVID situation, some of the committees had a very slow start on their work, but all but one caught up during the second year.

The technical committees and group submitted more than 80 revised or new procedures for review by the Advisory Council and proposed a number of procedures to be deleted. With such a large number of documents, it is evident that keeping deadlines, as well as maintaining a high standard of the procedures is crucial. During this period, more than half of all “final” procedures had to be returned to the committees for further corrections following the last AC review, and some even had to go back to the committees once more. Should the AC review procedures

have been taken literally, all these procedures would have been postponed to the next period.

In the review of procedures and guidelines, it became evident that a considerable number of overlaps and inconsistencies exist between different procedure and guidelines dealing with similar subjects, e.g. environmental conditions. In order to try to resolve this, AC decided to propose an Group on Overlap for the next period.

2.3 Advisory Council Working Groups

As in the recent periods, the work of the Advisory Council was organised in five working groups, each dealing specifically with the work of selected committees. This time the distribution of committees between the AC working groups was as shown in the table below.

WG 1	WG 2	WG 3	WG 4
SC on Combined CFD/EFD Methods	Resistance and Propulsion	Manoeuvring	Ocean Engineering
SC Ice	Full Scale Ship Performance	Seakeeping	SC Ocean Renewable Energy
SC Cavitation and Noise	SC Wind Propulsed and Wind Assisted Ships	Stability in Waves	

The work of the Quality Systems Group was monitored by WG 5.

The main responsibilities of the working groups are to review committee progress reports, review procedures and guidelines and define the Terms of Reference for the next

committees. In order to use the time at the AC meetings efficiently, the working groups as far as possible perform their review before the meetings. This is of course possible, only, if the documents are submitted timely by the committees. The meetings are then used to consolidate the comments resulting from the review in discussions with the entire AC and preparing responses to the committees.

2.4 ITTC Recommended procedures

A total of about 90 procedures and guidelines were prepared by the committees and group, some new, some with major revisions and most with minor revisions. The report from the Quality Systems Group contains a detailed account of the work with procedures and guidelines.

In addition to the revisions of the contents of the procedures and guidelines, all had a new title page layout, including information required for DOI registration, which is planned to take place during the next period.

The proposed new Register of ITTC Recommended Procedures and Guidelines has been published on the ITTC website.

2.5 Technical Committees for the 31st ITTC

AC reviewed the structure of technical committees and groups and decided that most of the Specialist Committees could be closed and the work be continued in other technical committees. As the combination of resistance and propulsion into one committee had not been a success due to the excessive number of tasks, it was decided to separate them again. Several procedures contain the same subjects with diverging recommendations, so it was decided to form a Group on Overlap to resolve this.

As decided by the 29th Full Conference, there is no longer a distinction between the permanent committees and Specialist Committees. They are all named Technical Committees. The following Technical Committees are proposed for the 31st ITTC:

- Resistance
- Propulsion
- Manoeuvring
- Seakeeping
- Ocean Engineering
- Stability in Waves
- Full Scale Ship Performance
- Cavitation and Noise
- Ice
- Wind Powered and Wind Assisted Ships

The following Groups were proposed:

- Quality Systems Group
- Group on Overlap

2.6 Appointment of new ITTC Secretary

The AC Chairman had issued an advertisement to find a new ITTC Secretary to replace Mr. Aage Damsgaard, who had announced his resignation after this period. Two candidates applied, Prof. Marco Ferrando, University of Genova, and Mr. John Koch Nielsen, FORCE Technology. Neither of the two candidates meet the two formal requirements, which are being employed by an AC member and having experience with ITTC.

Later on, Prof. Ferrando withdrew his application as he was assigned to some new duties at the university, that would not allow him to dedicate the required time to the secretary job. Consequently, AC decided to recommend to the EC to propose John Koch Nielsen as the next ITTC Secretary, to be approved by the Full Conference.

2.7 Cooperation with IMO

The Advisory Council, represented by its Chairman, has continued to actively be involved in activities concerning EEDI and GHG-emissions.

3. OFFICERS FOR THE 30TH ITTC ADVISORY COUNCIL

Prof. Gerhard Strasser was reappointed as Chairman for the 31st ITTC Advisory Council and Prof. Daisuke Kitazawa as Vice Chairman.