

PREFACE

On behalf of the Organizing Committee of the 16th International Towing Tank Conference held in Leningrad, USSR, I have the honour of welcoming all its participants, and I wish all of you fruitful work and active discussions.

We regard the decision to hold the 16th ITTC here in Leningrad as a fact which signifies that all over the world scientists working on hydrodynamics recognize our city as an important center of shipbuilding and ship research.

The list of the ITTC venues - Canada, Great Britain, France, FRG, Italy, Japan, The Netherlands, Scandinavia, Spain, USA - will now be joined by the USSR.

It is nearly 25 years since the USSR has become represented in the ITTC. Throughout this period Soviet scientists who took part in the work of the Executive Committee, Advisory Council, Technical Committees, and Full Conferences did their best to contribute to strengthening and developing the traditions of this international organization.

We can see with satisfaction that the ITTC's authority among the world's shipbuilders constantly increases. To a great degree this is due to the active work in the ITTC of such widely known scientists and leaders of scientific research as Mr. A. Castera, Mr. W. A. Crago, Dr. W. C. Cummins, Dr. H. Edstrand, Mr. P. Eisenberg, Prof. Dr. J. D. van Manen, Mr. S. T. Mathews, Prof. S. Motora, Dr. M. W. C. Oosterveld, and many others.

An evidence of the growing ITTC's prestige and general recognition is the fact that during the 3-year period new members, namely Japanese, Italian and Greek hydrodynamic research centers, have joined the organization.

In general, during the period following the 15th ITTC in The Hague the ITTC activities were in accordance with the decisions of that Conference. The newly established committees - Committee on Performance in Ice-Covered Waters and Ocean Engineering Committee, as well as Panel on High-Speed Marine Vessels, are working successfully. The number of Technical Committees has now reached ten. The sphere of their activity includes not only the problems of model experiment but also computer-based theoretical research and analysis of full scale trials.

The Reports of the Executive and Technical Committees published in this volume - volume I of the 16th ITTC Proceedings - contain thorough and detailed analysis of the present-day state of the problems of ship and ocean engineering hydrodynamics, as well as recommendations on the future Committees' activities. I hope that these Reports, as well as the discussions at the Conference, will make a worthy contribution to the ship hydrodynamics research which is the aim of our organization.

We should also note the constructive atmosphere in the work of the ITTC bodies and the mutual understanding among their members. This enables us to conclude that the ITTC's activities wed promotion of technical progress in shipbuilding with development of international cooperation and strengthening business relations among the scientists from different countries.

Prof. Dr. G. A. Matveyev



President of the 16th ITTC