

PREFACE

The 19th International Towing Tank Conference was held from 16th (Sun.) through 22nd (Sat.) September 1990 at the Palace Hotel in Madrid, Spain.

The Conference was attended by 235 delegates from 25 different countries, accompanied by 116 ladies and children. A social program was arranged for the conference participants and accompanying persons.

The Conference began Sunday afternoon with meetings of the Executive Committee and the Advisory Council. The official Opening Ceremony was held on Monday morning at the Politechnical University of Madrid, followed by a six-day program, Monday afternoon through Friday afternoon, featuring eighteen Technical Sessions. Eleven of them were devoted to the presentation and discussion of the Report of the nine Technical Committees, the Validation Panel and the Symbols and Terminology Group. Three were devoted to three Group Discussions on the topics of New Facilities and New Testing and Analysis Methods, Full Scale Measurements and Manoeuvring Simulation. The other four sessions were called Presentation Sessions and in them it was allowed to present short papers related to the subjects of the committees but not directly with the contents of the report. The Presentation Sessions were the only change introduced in the Conference of Madrid with regard to previous ones. The General Session and the Closing ceremony took place on Saturday afternoon. In addition there were a number of scheduled and unscheduled meetings of the Executive Committee, the Advisory Council and informal meetings of the different Technical Committees, Groups and Panel.

The 19th ITTC Proceedings have been published in two volumes, the first of which was distributed by air mail nine weeks ahead of the Conference to all delegates recognized by the Executive Committee of the Madrid Meeting (March 1990). Another volume of Standard Symbols and Terminology (Draft 1990) was also published and handed to the delegates at the beginning of the Conference.

The Volume 1 of the Proceedings includes the report of the Executive Committee and Advisory Council and of the Technical Committees, the Panel of Validation and the Symbols and Terminology Group, together with organizational material pertinent to the Conference.

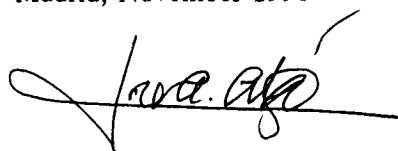
The Volume 2 of the Proceedings includes the contributions and replies to the discussions of the Technical Committees, Panel of Validation and Symbols and Terminology Group. It also includes introduction and written contributions to the Group Discussions, the contributions to the Presentation Sessions and the Recommendations and Guidelines for the future work of the Conference and the Technical Committees.

The Reports of the Technical Committees and the contributions to the technical sessions were excellent and stimulated many very active discussions, written and oral. As a consequence of that the second volume of the Proceedings has nearly as many pages as the first one.

The organizers would like to thank all of the participants who contributed to the success of the 19th Conference. Special thanks are due to the chairmen and members of the Technical Committees, Panel and Group, as well as to the chairmen and contributors to the Presentation Sessions and Group Discussions.


We would like to express our deepest thanks to the General Director of Armament D. Alberto Llobet Batllori and the members of the Spanish Organizing Committee without whose assistance the organization of the 19th ITTC would not have been possible. We also extend our thanks to all the persons who contributed with their time and efforts to the success of the Conference and to the completion of these Proceedings.

Madrid, November 1990



José A. Aláez

President of the 19th ITTC



José F. Núñez

Secretary of the 19th ITTC