



The Executive Committee

Report to the 22nd ITTC

1. INTRODUCTION

The 22nd ITTC Executive Committee has been acting according to the Rules of the Organization as defined in the 21st ITTC Proceedings. In general, the Executive Committee has approved and implemented the policies recommended by the Advisory Council, and implemented the decisions of the Full Conference. Furthermore, the Executive Committee has made decisions on many agenda items. It proposed the members and chairs of Technical Committees and Groups for appointment by the Full Conference.

All meetings of the Executive Committee have been arranged in conjunction with the Advisory Council meetings and followed immediately the Advisory Council meetings.

The Executive Committee consists of seven full-voting members, six of them being the current six geographical Area Representatives. The Chair of the Executive Committee is selected by the Full Conference of the ITTC. In addition, the Chair and Secretary of the Advisory Council and the past Chair of the Executive Committee are non-voting ex-officio members of the Executive Committee. The Secretary of the Executive Committee is elected by the members of the Executive Committee.

2. OBITUARIES

It is the sad duty of the Executive Committee to report the deaths of the following distinguished colleagues who have contributed so much to the activities of the ITTC.

Boris Biscoup

Dr. Boris Biscoup, one of the leading specialists of Krylov Shipbuilding Research Institute, St. Petersburg, Russia, and the head of the Ship Propulsor Laboratory, died suddenly on June 19, 1996 at the age of 61.

Dr. Biscoup was born on July 27, 1935 in Svobodny, Amurskaya region, USSR. After graduating from the Leningrad Shipbuilding Institute (now Marine Technical University) with an honours diploma in the specialised field of ship hydromechanics in 1959, Dr. Biscoup was employed as an engineer at Ship Hydrodynamics Department, Krylov Shipbuilding Research Institute.

His areas of scientific interest concerned ship propulsors, namely design, model and full scale tests, strength, cavitation, pressure fluctuation and acoustics of propellers and waterjets. One of Dr. Biscoup's principal achievements was the creation of a method to calculate unsteady forces transmitted from propeller to ship hull through the shaft and the water. This method was the subject of his doctoral



dissertation(1967) and has been applied by shipbuilders for many years. Scientific studies by Boris Biscoup's are published in more than 40 papers, in the monograph (1973) and the Ship Theory Handbook (1985).

As a member of ITTC Committees from 1981 to 1996, Dr. Boris Biscoup made a significant contribution to the activity of the 17th, 18th, 19th and 21st ITTC Propulsor Committees and to the 20th ITTC Cavitation Committee.

Louis Landweber

Professor Landweber died on Jan. 8, 1998. He was born on Jan. 8, 1912 in New York. He attended public schools in New York and received his Bachelor of Science degree in mathematics from City College in New York City in 1932. After graduation he worked as a junior physicist at the U.S. Experimental Model Basin in the Washington Navy Yard, later known as the David Taylor Model Basin (DTMB). He received his Masters degree in physics in 1935 from George Washington University and his Ph.D. from the University of Maryland in 1951. In 1940, he became head of the hydrodynamics division of DTMB.

He came to the University of Iowa in 1954 as a professor of mechanics and hydraulics and research engineer at the Iowa Institute of Hydraulic Research (IIHR). He wrote textbooks and taught courses in the advanced mechanics of fluids, hydrodynamics, and mathematical methods in engineering. He supervised more than 50 Master of Science and doctoral students. His career spanned 64 years over which time he authored, co-authored or edited more than 150 books, technical papers, monographs, and reports. His research interests and contributions were significant, lasting, and encompassing: blockage, ship rolling, and towed cables during his early career; integral equations, added mass forces and moments, ship vibration, conformal mapping, and viscous drag during his middle

career; and wave resistance, potential flow, and two-body impact during his late career.

He received many awards and citations including the Navys Meritorious Civilian Service Award in 1947 for his war-related research, primarily in minesweeping problems. In 1978 he was appointed the David Taylor Lecturer at DTMB and received the Davidson Medal for Ship Research Accomplishments by the Society of Naval Architects. He was honored by special sessions at the Third Engineering Mechanics Division Specialty Conference, ASCE, in Austin, TX, 17-19 September 1979. In 1980, he was elected to the National Academy of Engineering. In 1981 he was invited to be a Weinblum Memorial Lecturer. The Sixth International Conference on Numerical Ship Hydrodynamics was held in his honor in Iowa City in August 1993.

He served as a member of the Resistance Committee of ITTC from 1957-1975 and additionally contributed numerous papers published in the Proceedings of the 6th, 9th, 10th, 11th, 13th, and 14th ITTC.

Richard Bailey Couch

Professor Richard Bailey Couch, age 86, Chief Naval Architect of Navy Bureau of Ship, Washington, D.C., 1953-1957 and Chairman, University of Michigan Department of Naval Architecture and Marine Engineering, Ann Arbor, 1957-1967, died of congestive heart failure on March 10, 1998, at his daughters home in Poland, Ohio. Professor Couch resided in Dexter, Ann Arbor and then Barton Hills during the period 1957-1993.

Professor Couch was born on April 7, 1911, in St. Johns (Portland), Oregon to Frederick Cornelius Couch and Gertrude Edna Bailey. Professor Couchs career was shaped in part by his father, who was a second mate on the Ann Arbor car ferries plying Lake Michigan from



Frankfort, Michigan, 1900-1905, and subsequently on ocean going freighters during World War I. As a child, Professor Couch and his father built boats on the Willamette River at Portland, Oregon.

Later, upon earning a scholarship to the school in 1929, Professor Couch attended Webb Institute of Naval Architecture and Marine Engineering, New York City, earning his Bachelor of Science by 1933. During 1934, he received a Masters in Aeronautical Engineering from New York University.

During 1934, Professor Couch began work as a naval architect GS-1 at the Philadelphia Naval Shipyard, transferring to the Puget Sound Naval Shipyard, Bremerton, Washington in 1935. He worked at Puget Sound during WWII and served in the U.S. Coast Guard Reserve. In 1946, Professor Couch moved to the Navy's David Taylor Model Basin, Carderock, Maryland, where he became head of the Ship Propulsion Division. During 1953, he went to the Navy's Bureau of Ships in Washington, to become Chief Naval Architect. Professor Couch's work at the Bureau included design of the USS Enterprise, the first nuclear aircraft carrier. He resided with his family near Bethesda, Maryland, during the period 1946-1957.

Professor Couch left the Navy in 1957 to accept the position of Chairman, Department of Naval Architecture and Marine Engineering, University of Michigan, Ann Arbor where he served until 1967. During his tenure at Michigan, Professor Couch did pioneering work on the application of the now-ubiquitous bulbous bow to large ocean going vessels. In 1969 Professor Couch accepted a position as Director of Engineering, General Dynamics Shipyard, Quincy, Massachusetts. He returned to Michigan in 1969 to continue his teaching and a rewarding career as a consulting naval architect until his retirement in May, 1981, when he became professor Emeritus. Professor Couch's consulting work, which

spanned the period 1957-1993, included the Manville Corporation asbestos dispute, the Amoco Cadiz oil spill off the coast of France, the Tampa Bay ship-bridge collision, the Sumitomo Heavy Industries vs. Nomikos Shipping supertanker case and the Exxon Valdez oil spill, along with many other matters such as work on the stern-wheeler delta Queen.

During his professional career, Professor Couch contributed considerable additional time to sea-power and shipbuilding matters including membership on the Department of Defense Nuclear Propulsion Group (1958), Secretary of the Navy Carrier Review Board (1963-64), Secretary of the Navy Shipbuilding Study Group (1965-66), Secretary of the Navy Destroyer Study Group (1971-72) and Chairman, Maritime Information Committee of the Maritime Transportation Research Board, National Academy of Sciences (1973-76).

Professor Couch was also a representative for the Society of Naval Architects and Marine Engineers, National Academy of Engineering (1967-70) and Chairman of the Board, Marine Engineering and Science Company, Ann Arbor, Michigan (1965-67) and a Consulting Editor for Naval Architecture and Marine Engineering to the McGraw-Hill Encyclopedia of Science and Technology (1966-1988). Professor Couch was a member of Tau Beta Pi and other professional societies including the Royal Institute of Naval Architects, the Society of Naval Architects and Marine Engineers, the American Society of Naval Engineers and the International Towing Tank Conference. He was the author or co-author of numerous technical papers.

His professional honors included the David Taylor Medal (1966) and Honorary Life Member of the Society of Naval Architects and Marine Engineers (1987).

Professor Couch is survived by his wife, the former Harriet Frances Gilmore and three children, all University of Michigan graduates;



Richard Allen Couch of Alexandria, VA, John Charles Couch, Chairman of the Board, Alexander and Baldwin, Inc., Honolulu, Hawaii and Frances Gene Couch, M.D., Poland, Ohio; and two grandchildren, Jon Couch, Alexandria, VA and Richard James Zamberlan at the Naval Academy, Annapolis, MD.

Alex Goodman

Mr. Alex Goodman, 74, a research engineer who had received patents on devices for improving the stability of submarines and surface ships died of a heart ailment on Oct. 20, 1998 at his home in Silver Spring, MD., USA.

Mr. Goodman was born in New York and graduated from City College of New York in 1953. He came to Washington and began working for the Department of the Navy at the David Taylor Model Basin. While there, he was co-inventor of the Planar Motion Mechanism, a widely used means of evaluating the stability, control and maneuvering of ships and submarines.

In 1961, he joined Hydronautics Inc. in Columbia, MD. He later became president of the company and continued in that position after it was acquired by Tracor Inc. He designed and supervised construction of the ship model testing basin in Laurel, USA. He was co-inventor of a high-speed water channel for testing hydrofoil and other ship models. He received U.S. and foreign patents for this invention.

He was author of more than 80 technical papers and reports, and he had lectured widely in the United States and abroad. He retired in 1996.

He is survived by his wife of 53 years, Paula Goodman of Silver Spring, three children, Joel Goodman of Saratoga Springs, N.Y., David Goodman of Silver Spring and Susan Goodman of Rockville; and five grandchildren.

Valere Ferdinande

Professor V. Ferdinande, Naval Architecture at the University of Ghent(Belgium), died on 21 April 1997.

Born in Brugge (Belgium) in 1930, Professor Ferdinande graduated from the University of Ghent as naval architect (1954). In 1961 he obtained the degree of Master of Science (nautical engineering) at Stevens Institute of Technology (USA).

He was employed at the Belgian ship Research Association (1954-55) and at the shipyard Beliard, Crighton & Cie in Oostende (1955-58), and at the University of Ghent (1958-1995), where he was appointed Professor in 1970, being responsible for courses in maritime hydromechanics until his retirement in 1995. He was head of the Office of Naval Architecture (1970-1991) and of the Department of Applied Mechanics (1991-1995).

Professor Ferdinande published many contributions to various branches of naval architecture in international journals and attended several congresses and symposia. He was a member of the ISSC from 1973 to 1994, fulfilling the function of Chairman of the ISSC Technical Committee on Derived Loads from 1976 to 1979. He attended several ITTC Conferences until 1993, and represented the University of Ghent at the WEGEMT(West European Graduate Education in Marine Technology). Professor Ferdinande was a member of several ship technical societies including member of the Royal Institution of Naval Architects and the North East Coast Institution of Engineers and Shipbuilders in Newcastle, which honoured him with the Ayre-Prize in 1965.

David Bailey

David Bailey died peacefully at Weybridge on the 6 March 1999. Mr Bailey was born on the 22 August 1928 in Portsmouth. He was employed



for thirty eight years at Teddington and Feltham as an hydrodynamicist, initially with the National Physical Laboratory, then with the National Maritime Institute and, finally, with British Maritime Technology. He specialised in the design of small high-speed ships and, together with John Marwood, he designed the NPL series of semi-displacement vessels. He was a fellow of the Royal Institution of Naval Architects and was awarded the Medal of the Small Craft Group by the Institution. As well as being the author of many technical papers and reports, Mr Bailey also wrote a history of ship model testing at Teddington and Feltham- "Ships in the Making".

He was a member of the Powering Performance Committees for the 17th and 18th ITTC.

Mr Bailey is survived by his wife, Audrey, and two daughters, Ruth and Imogen.

Zae-Geun Kim

Professor Zae-Geun Kim, age 79, the founder of the Naval Architecture field in Korea, President of the Society of Naval Architects of Korea, 1960-1970 and the Vice President of the Korea Academy of Arts and Sciences, 1988-1999, died of a heart ailment on April 9, 1999 at his home in Seoul, Korea.

Professor Kim was born in 1920 in the Pyungbuk Province of northern Korea. He attended the Kyung Sung Imperial College (now Seoul National University) in 1938 and received his Bachelor's degree in mechanical engineering in 1943.

After graduation he began work as a marine engineer at the Chosun Machinery Manufacturing Co. and took part in the design of Japanese submarines until the end of World War II. After Korea's independence he was a faculty member of the Department of Naval Architecture at the Korea Maritime University

from 1946 to 1949. He came to the Seoul National University in 1949 as the first faculty member of the Department of Naval Architecture. He stayed at the Massachusetts Institute of Technology as a visiting fellow at the Department of Naval Architecture and Marine Engineering for one year beginning in March 1954. He received his Ph.D. from the Seoul National University in 1968 and Professional Degree on Shipbuilding Technology in 1966. After retirement from the University in 1985, he served as a professor emeritus. He wrote textbooks and taught courses on ship design, hydrodynamics, resistance and propulsion. He made significant contributions to papers of journals until the latest date. After his retirement, he made herculean efforts to investigate the ancient Korean ships including the well-known 'Turtle Ship' and published books such as "History of Ships" and "Myth of Turtle Ship".

Professor Kim was a founder of the Society of Naval Architects of Korea and served as a trustee from 1951 to 1960 and as the president from 1960 to 1970. He was elected as a member of the Korea Academy of Arts and Science in 1966 and later served as vice-president from 1988 to 1999. He served as vice president of the Korean Register of Shipping from 1960 to 1965 and as president from 1965 to 1979. He was also vice-president of the Korean Association of Welding Technology from 1965 to 1970. He actively served as vice-chairman of a board of trustees of the Korea Ship Research Institute (now KRISO) from 1976 to 1980. He was vice chairman of the Korean Technical Committee of the American Bureau of Shipping from 1982 to 1999.

Professor Kim had been involved on many advisory committees for the Government such as the Maritime Administration Agency, Ministry of Education, Korean Industrial Bank, Ministry of Construction, Ministry of Health, Ministry of Home Affairs, Ministry of Labor and Korea Science and Engineering Foundation. Especially, he served as a member



of the Excavation and Investigation Committee of Shinan Sea-bed Relics from 1978 to 1984.

Professor Kim received many professional honors such as the Technology Achievement Award from the Samil Cultural Foundation in 1969, the 'Dongbaeg Badge' of National Decoration in 1972 from the Government and the 'Moran Badge' of National Dacoration Award in 1985 from the Government. He also won the Publishing Cultural Award from the Korea Publication Association in January 1978 and the Writing Award from the Korea Academy of Arts and Science in September 1978 for writing the book, "Study of Naval Ships in Lee Dynasty".

Since he attended the 2nd World Fishing Boat Conference in Italy in 1959, he had been present at the IMCO as a Government delegate in 1969. He attended the 17th(1978) and the 22nd(1988) International Congress of Science Union as a delegate of the Korea Academy of Arts and Science. He had attended the 11th(1966), 12th(1969) and 13th(1972) ITTC as the delegate of the Seoul National University.

Professor Kim is survived by two sons; Yoon, engineer and vice president of Yushin Corp. and Yoonsu, medical doctor and professor of Catholic Medical University, and three daughters.

3. COMMITTEE MEMBERSHIP

The membership was decided at the 21st ITTC meeting.

Chair : Prof. Choung M. Lee

Area Representatives:

- Prof. Robert F. Beck (America)
- Dr. Gerhard Jensen (Central Europe)
- Prof. Hong-Cui Shen (East Asia)
- Dr. Hans Broberg (Northern Europe)
- Prof. Hirohara Kato (Pacific Islands)

Adm. Ulderico Grazioli (Southern Europe)
Secretary:

Dr. Seung-II Yang

In addition, the following are ex-officio members:

Dr. Arne Hasle Nielsen

(Chair of Advisory Council)

Mr. Brian Bowden

(Secretary of Advisory Council)

Mr. Arnold Hansen (past Chair)

After Mr. Hansen's retirement, Mr. Kjell O. Holden replaced Mr. Hansen as the past chair of the Executive Committee from 1998.

4. COMMITTEE MEETINGS

The 22nd ITTC Executive Committee held four meetings from September 1996 until the end of March 1999. Further meetings will take place during the Full Conference in Seoul and Shanghai.

A first and very short meeting was held in Trondheim on September 20, 1996, the last day of the 21st ITTC. New members of the Committee were introduced, the Secretary was elected, and a tentative meeting schedule was decided.

The second meeting took place in Val de Reuil, France on September 26, 1997, hosted by Bassin d'Essais des Carenes. The main items discussed were the review of the Advisory Council membership, arrangements for the 22nd ITTC and preparation of the ITTC homepage on the internet, changes in membership of technical committees and cooperation with ISSC, IAHR, IMO and IMDC. It was decided that the EC Secretary would send a questionnaire to the Advisory Council members for the review of AC membership and the replies would be discussed at the meeting of the EC on August 13, 1998.

The third meeting was held in Washington, DC, USA on August 13, 1998, in conjunction with



the 22nd Symposium on Naval Hydrodynamics during the centennial celebration at the David Taylor Model Basin. Main items on the agenda were applications for ITTC membership and for Advisory Council membership, the review of Advisory Council membership, invitations for hosting the 23rd ITTC in 2002 and arrangements for the 22nd ITTC. According to the Rules of the Organization, sixteen AC member organizations were chosen for review during this conference period. The replies of the questionnaire from 15 member organizations were reviewed.

The list of delegates to be invited to the 1999 Conference was proposed. The list includes:

The delegate representing each member organization of ITTC

All members of present Technical Committees and Groups, Advisory Council and Executive Committee

Other delegates including observers from shipbuilding and shipping industries, and young researchers.

Applications for potential host for the 23rd ITTC were received from the Southern Europe and Central Europe Areas. The Executive Committee members voted to accept the proposal from the INSEAN of the Southern Europe Area to host the 23rd ITTC in Venice, Italy in 2002.

The fourth meeting of the EC was held at Izu-Kogen, Japan on March 17, 1999, hosted by the Nagasaki Research & Development Center, Mitsubishi Heavy Industries, Ltd. The principal subjects of this meeting concerned the final arrangements for the Conference, applications for ITTC membership and Advisory Council membership. Other matters discussed included the Area Representatives for the 23rd ITTC Executive Committee.

5. COMMITTEE DECISIONS

5.1 Rules of the Organization

It was decided that the geographic area of Portugal will be placed in the Southern Europe Area. The Rules of the Organization are reproduced as Appendix 1 of the present proceedings.

5.2 New Committee Structure

A new Committee structure, developed by the Advisory Council and endorsed by the Executive Committee, is described in Appendix 2. Details are given the proposed new committees the Terms of Reference of the Committees as well as the Mechanism for Identifying Specialist Committees. The new structure will be effective for the 23rd ITTC after endorsement by the Full Conference in September 1999.

5.3 New ITTC Member Organizations

The following organizations have been accepted into ITTC membership.

- Technical University of Malaysia
Marine Technology Laboratory
Johor Bahru, MALAYSIA
- Offshore Model Basin
Escondido, CA, USA
- University of Ulsan
School of Transportation System
Engineering, Ulsan, KOREA

The University of Newcastle, UK has been approved as a member of the Advisory Council.

5.4 Changes in Membership of Technical Committees

The following changes in membership of the Technical Committees were approved by the EC:



Propulsion

Mr. Jan Holtrop (MARIN) replaced Mr. J. Th. Liglelijn (MARIN).

Dr. J. Pylkkanen was elected as the new Chairman.

Loads & Responses

Dr. O. A. Hermundstad (MARINTEK) replaced Mr. J. V. Aarsnes (MARINTEK).

Computational Method for Propeller Cavitation

Dr. P. G. Esposito (INSEAN) replaced Dr. M. Landrini (INSEAN).

Trials and Monitoring

Dr. J. Thomas (Hanworthy Marine) resigned with no replacement.

Deep Water Mooring

Prof. M. Bernitsas (U. of Michigan) was appointed in place of Dr. J. J. Murray (IMD).

Safety of High Speed Marine Vehicles

Prof. G. Grigoropoulos was appointed in place of Prof. S. Miranda (U. of Napoli).

5.5 Review of the Advisory Council Membership

According to the Rules of the Organization, sixteen member organizations were chosen and reviewed for reconfirmation as membership of the ITTC Advisory Council. Fourteen member organizations' qualifications for remaining as an Advisory Council member have been confirmed. The Shipbuilding Research Centre of Japan resigned from the Council in January 1999.

The Versuchsanstalt für Wasserbau und Schiffbau, Germany, resigned from the Council in August 1998 but it has since stated that it wishes to continue as a member. It was decided that the review information would be prepared and submitted by the VWS and reconfirmation of membership would be discussed at the next Executive Committee meeting.

5.6 ITTC Homepage on the Internet

The ITTCs web site was opened on the internet.

The site address is

<http://www.kriso.re.kr/ITTC>

The ITTC Homepage gives general information about the ITTC, providing news about conferences, meetings and other items of interest, including:

Introduction to the ITTC

Rules of the Organization

Member Organizations

Catalogue of Facilities

Information on the 22nd ITTC

ITTC Proceedings

Symbols and Terminology

On-line Paper Repository

It was decided that links should be established between the ITTC Homepage and the websites of member organizations. Each organization should put details of their facilities on their own websites. The guideline for the catalogue of facilities is introduced in the ITTC Homepage. Also the 22nd ITTC Proceedings (Vol. I and Vol. II) will be put on the ITTC website. ITTC member organizations and delegates can download the Proceedings from the Homepage.

5.7 Organization of the 22nd ITTC

The 22nd ITTC will be jointly hosted by the Chinese Towing Tank Conference and the Korean Towing Tank Conference in cooperation with the China Ship Scientific Research Center and the Korea Research Institute of Ships & Ocean Engineering.

A technical program of 17 technical sessions is planned. General sessions include opening and closing ceremonies and presentations of the Executive Committee report. Social activities include receptions, banquets, and conference tours.



5.8 Organization of the 23rd ITTC

Two invitations were received for hosting the 23rd ITTC.

The proposals were presented and discussed at the Executive Committee meeting in

Washington, DC, USA.

The decision was to accept the proposal from the INSEAN of the Southern Europe Area to host the 23rd ITTC in Venice, Italy in 2002