International Conference on Design Construction and Operation of Commercial Fishing Vessels... Proceedings

John C. Sainsbury and Thomas M. Leahy

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INTERNATIONAL CONFERENCE
ON
DESIGN, CONSTRUCTION, AND OPERATION OF
COMMERCIAL FISHING VESSELS

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FOREWORD

This publication is a collection of papers accepted for presentation at the International Conference on Design, Construction and Operation of Commercial Fishing Vessels. Forty papers are included; one of these "Development of a Sail Assisted FRP Fishing Canoe for the Comoros" by Tokuzo Fukamachi did not arrive in time for presentation at the Conference, but is considered to be of sufficient importance to be included in this collection.

There were 112 registrants from eighteen countries at the Conference. That and the generally high quality of the papers given confirmed that the time was right for a technical meeting of naval architects, shipbuilders, fishermen, economists and other social scientists, government and international officials, in order to update developments in the field.

This had not occurred in such a generalized manner since the third and last World Fishing Boat Conference organized by the U.N. Food and Agriculture Organization in 1967. That series of conferences led to steady and marked development in the technology of fishing vessel design, construction and operation, and it was fitting that Jan-Olof Traun, organizer of those Conferences presented a paper here which traces fishing vessel improvements since 1950 and looks to the year 2000.

During the past ten years, rapid changes have occurred worldwide in the economic climate surrounding fisheries and fishing operations due to factors such as Extended Jurisdiction and the energy crisis. As a result fishing vessels are presently in a phase of rapid development and change, especially in terms of energy consumption and fishing systems to meet the changing situation. This collection of papers is illustrative of the changes occurring, e.g., the return to sails as a means of reducing fuel consumption, the increasing extension of oil production into fishing areas, and the effect on fishing industry operations of changing demands for waterfront use.

Conference participants were asked to vote for the best paper each day, and for the best student paper. The three best papers in the overall category were: "Fishermen and Oil Men Working together in the North Sea" by Alan Wilson, "A Review of Some Recent Stability Casualties Involving Pacific Northwest Fishing Vessels" and "Model Tests of Dynamic Response of a Fishing Vessel" both by Bruce Adee, and "Particular Needs of Fishing Vessels for Use in The Developing World" by Alejandro Acosta, Theophilus Brainerd, Bambang Priyono, Norbert Simmons, and Rajapaksa Don Warnadasa. Best Student Paper award went to Douglas McGuffey who presented the paper "Effect of Loading on Fishing Vessel Stability - A Case Study".

In order to bring within bounds the immense amount of material contained in the original papers, it has been necessary to undertake some editing. In undertaking this task, I attempted to maintain the authors' text and remove only supporting material and illustrations which did not appear to be essential. However, I am sure that some authors will be disappointed; to them I apologize, and accept full responsibility, emphasizing only the necessity of reducing the material to a publishable amount.
The Conference itself would not have been possible without the support of the sponsoring organizations, and the dedication and hard work of the coordinating committee and conference staff, all of whom are listed elsewhere. We owe them a special thank you.

The authors, session chairmen, and the participants were the flesh and backbone of the whole affair, and were the ingredients of the success which they achieved so well. My thanks to them all.

I would especially like to acknowledge the work of Tom Leahy, Director of Communications and Publications for the Florida Sea Grant College Program. It is mainly through his efforts that publication of these papers has materialized.

John C. Sainsbury
Conference General Chairman
Florida Institute of Technology
Melbourne, Florida
May 1985
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*Statements contained herein are the private opinions and assertions of the writers and should therefore not be construed as reflecting the view of the sponsors, nor of any other organization with which the writers are affiliated.
The following resolution was approved unanimously by delegates to the Conference:

"THIS CONFERENCE WISHES TO GO ON RECORD AS RECOGNIZING THE URGENT NEED TO REDUCE FISHING VESSEL CASUALTIES RESULTING FROM PROBLEMS DURING OPERATION.

THERE IS AN URGENT NEED FOR BETTER UNDERSTANDING OF VESSEL BEHAVIOR UNDER REALISTIC SEA CONDITIONS, AND APPLICATION OF KNOWLEDGE TO THE OPERATING PROFILES OF INDIVIDUAL FISHERIES AND VESSELS.

IT IS RECOMMENDED THAT PRIVATE, PUBLIC, AND COMMERCIAL SECTOR GROUPS, TOGETHER WITH THE UNIVERSITIES, RESEARCH AND EXTENSION AGENCIES INCREASE MARKEDLY THE LEVELS OF EFFORT AND INTERACTION IN THIS AREA. IN PARTICULAR THIS WILL REQUIRE INCREASED LEVELS OF FUNDING THROUGH INDUSTRY AND SUCH AGENCIES AS SEA GRANT, COAST GUARD, AND N.M.F.S."