PROCEEDINGS OF THE
SECOND INTERNATIONAL CONFERENCE
ON AQUACULTURE NUTRITION:
BIOCHEMICAL AND PHYSIOLOGICAL APPROACHES
TO SHELLFISH NUTRITION

SPECIAL PUBLICATION NO. 2

OCTOBER, 1981
Rehoboth Beach, Delaware

EDITORS
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and D. CONKLIN
PROCEEDINGS OF THE SECOND INTERNATIONAL CONFERENCE ON AQUACULTURE NUTRITION: BIOCHEMICAL AND PHYSIOLOGICAL APPROACHES TO SHELLFISH NUTRITION

October 27-29, 1981
Lewes/Rehoboth Beach, Delaware

Sponsored by the University of Delaware Sea Grant Program in cooperation with the U.S./Japan Aquaculture Panel, UJNR, and the World Mariculture Society

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Published by the Louisiana State University Division of Continuing Education

Baton Rouge, Louisiana
1982

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PREFACE

This Second International Conference on Aquaculture Nutrition "Biochemical and Physiological Approaches to Shellfish Nutrition" in many respects can be considered a "nutritionists" nutrition conference. It was a gathering of highly respected scientists from around the world to report on and discuss their work on "real" nutrition.

Characteristically, nutrition studies on aquatic invertebrates are hampered by physical, chemical and biological instability of the feed. Extraordinary measures are required to minimize leaching and associated bacterial activity with the feed, prior to its ingestion by aquatic invertebrates.

It should be remembered that in the world of commercial intensive aquatic production systems, bacterial activities may play important roles in invertebrate nutrition. For example, it has been suggested that microbial populations in pond systems may serve as an "external" ruminant stomach for partial digestion of feed and supplements. Bacteria and algae may also enter the food web and may interact to maintain satisfactory environmental conditions.

ACKNOWLEDGMENTS

Special thanks are due to the National Office of Sea Grant, the Sea Grant Program of the University of Delaware, the U.S./Japan Aquaculture Panel, UJNR, and the World Mariculture Society for sponsoring this conference.

We express our appreciation to the honorable Spark M. Matsunaga, U.S. Senator, Hawaii for his address "Awakening the Public to Aquaculture".

We acknowledge the fine program coordination provided by Dorothy Kosey, of the Conferences and Centers Division of Continuing Education of the University of Delaware. We are indebted to Rae Clark of Delaware and Nancy Heinzel of California for their secretarial assistance and to the students and staff at the Center for Mariculture Research for their hospitality.

In many ways the quality of this proceedings is due to the extraordinary efforts of Christopher Landgon and Douglas Conklin for their unrelenting and rigorous reviews of the manuscripts. In this task they were assisted by: Mel Carriker, Chuck Epifanio, Peter Gabbott, Julius Gordon, Mike Helf, John Hilton, Dave Holland, Donal Manahan, Roger Newell, Glen Patterson, Dan Rittschof, Brenda Sanders, Sandra Shumway, Lowell Sick, Stan Slinger, Ravenna Ukeles, Mike Waldock, John Wickins, and Karl Wilbur.

Finally we are indebted to the World Mariculture Society for publishing these proceedings.

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