

**ENVIRONMENTAL SURVEY TECHNIQUES  
FOR COASTAL WATER ASSESSMENT  
CONFERENCE PROCEEDINGS**

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presented by  
**WATER RESOURCES RESEARCH CENTER and SEA GRANT COLLEGE PROGRAM**  
University of Hawaii at Manoa  
with co-sponsor  
**HAWAII WATER POLLUTION CONTROL ASSOCIATION**

16-17 January 1980

Honolulu, Hawaii

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This conference proceedings was published and distributed to each of the registrants at the conference; consequently, it contains only the prepared texts of the conference speakers. Discussions of the individual papers, as well as the evaluations, conclusions, and recommendations of the panelists, are not included in this publication. However, a summary of this conference, with special emphasis on the results of the panel sessions will be prepared and made available to all registrants of this conference and to other interested persons.

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## FOREWORD

The coastal waters of Hawaii have traditionally played a vital role in the cultural heritage of its people and have served as a source of food, recreation and transportation. However, these waters have also traditionally served as the ultimate sink for most of man's land-generating wastes. In recent times, the volume of waste, such as domestic sewage, industrial, agricultural and urban-developmental discharges or runoffs, has increased to the point that the quality and productivity of some coastal waters sites have been badly degraded. As a result, state and federal governments have adopted many guidelines and regulations in an effort to limit and control the assaults to our water environment. Correspondingly, many studies have been conducted to measure the various parameters of the coastal waters of Hawaii in an attempt to assess the impact of man's activities on the quality of these waters. Many of these studies represent the first of their kind in subtropical coastal waters—an environment which appears in many ways to differ from the coastal waters in the temperate zones in other parts of the world.

The primary objective of this conference is to establish a public forum whereby the various researchers engaged in their individual projects—with the common goal of assessing the coastal water environment of Hawaii—can discuss the approach and methodology of their projects to measure specific parameters, and to relate these measurements to man's activities and ultimate impact on the coastal waters. In addition, representatives of state and county agencies involved in protecting, regulating, and using the coastal waters of Hawaii were invited to expand on current regulations, standards, and their role in assessing the quality of coastal waters. Finally, experts from the University of Hawaii, the Southern California Coastal Water Research Project (Long Beach, California), and the Environmental Protection Agency Research Laboratory in Corvallis, Oregon were invited to study and evaluate the projects and the programs within the state of Hawaii.

It is our hope that this conference will result in the dissemination of information to all concerned people in our state regarding the projects and the agencies involved in assessing the quality of the coastal waters of Hawaii; and, furthermore, that an evaluation will be made regarding the adequacy of the projects and programs within the state of Hawaii. Finally, it is hoped that

conclusions will be drawn as to the current conditions of the coastal waters of Hawaii and that recommendations will be made for future action.

Roger S. Fujioka  
*Conference Chairman*

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