

HISTORY. ORGANIZATION, AND STAFF

The Coastal Water Research Project was founded in 1969, when five local government agencies (Ventura County, the Cities of San Diego and Los Angeles, and the County Sanitation Districts of Los Angeles and Orange Counties) entered into a joint powers agreement to sponsor environmental studies. Their intention was to develop regional scientific information on the coastal waters extending from Point Conception to the Mexican border. To keep the Project free of partisan pressures, its control was delegated to a commission of local civic leaders and elected officials, who would reflect the public concern for environmental quality. The financial support from the local government agencies has been supplemented in the last few years by a series of grants from the U.S. Environmental Protection Agency.

The Project's 30 scientists are organized into three divisions--biology, chemistry, and engineering, as shown on the organization chart (Figure 1). The staff receives overall guidance from a consulting board of eminent scientists from five major universities. The members of the research team are described in the following paragraphs and in Figure 2. Our scientific and technical associates are listed in Figure 3.

WILLARD BASCOM, Project Director

Mr. Bascom is an oceanographer with 29 years of experience in scientific work at sea. The early part of his career was spent with the University of California, both at Berkeley and at Scripps Institution of Oceanography, researching waves and beaches; he later directed the Mohole Project for the National Academy of Sciences. In recent years he has organized and led many ocean science and engineering projects around the world. Mr. Bascom is author of many books and papers about the ocean, a member of several senior government advisory committees, and a frequent university lecturer.

ALAN J. MEARNES, Fisheries Biologist

Dr. Mearns is head of the Project's biology division. He is an expert on the effects of environmental stress on marine fish and invertebrates. Dr. Mearns received his bachelors and masters degrees from California State University at Long Beach and was a Water Pollution Trainee on a 4-year program at the College of Fisheries, University of Washington, Seattle, where he received his Ph.D. degree in 1971. He has conducted detailed physiological studies in the Arctic Ocean and Bristol Bay (Alaska), Puget Sound, and southern California.

DAVID R. YOUNG, Chemical Oceanographer

Dr. Young is head of the chemistry department and an expert on trace metals and toxic organic materials in marine life. He received his bachelors degree in physics from

Pomona College in 1960 and then studied nuclear engineering at UCLA. After extensive study at the Scripps Institution of Oceanography on the problems of low-level radioactivity in the marine environment. Dr. Young received a Ph.D. degree in chemical and biological oceanography. He is the author of a number of papers on cycling of trace contaminants in the ecosystem. JACK MARDESICH, Engineer Mr. Mardesich has spent his life working on the design, construction, and operation of all kinds of marine equipment. He was educated at Northrop Institute of Technology, California State University at Long Beach, and the University of Southern California, receiving a B.S. from the latter in 1955. Mr. Mardesich spent 3 years in South Africa as chief engineer of a large marine diamond prospecting operation. He is an expert on marine hydraulics and instrumentation, including underwater television systems.

TAREAH HENDRICKS, Physicist

Dr. Hendricks brings mathematical order to the Project's diverse findings in chemistry, biology, and oceanography. He obtained a B.S. degree from the University of California at Berkeley with "highest honors" in physics and a Ph.D. from the University of California at San Diego as a National Science Foundation fellow in 1967. Dr. Hendricks' previous research has focused on high energy physics, sanitary engineering, and experimental reverse osmosis. FLOYD K. MITCHELL, Sanitary Engineer Mr. Mitchell is currently in charge of Project studies of sludge disposal in the ocean. He received his bachelors and masters degrees in civil engineering from the University of California at Berkeley, 1969 and 1971. He is currently writing his thesis for a Ph.D. degree from Berkeley in sanitary engineering. Mr. Mitchell's previous research and professional experience has been in the areas of sewage treatment and freshwater algae growth kinetics.

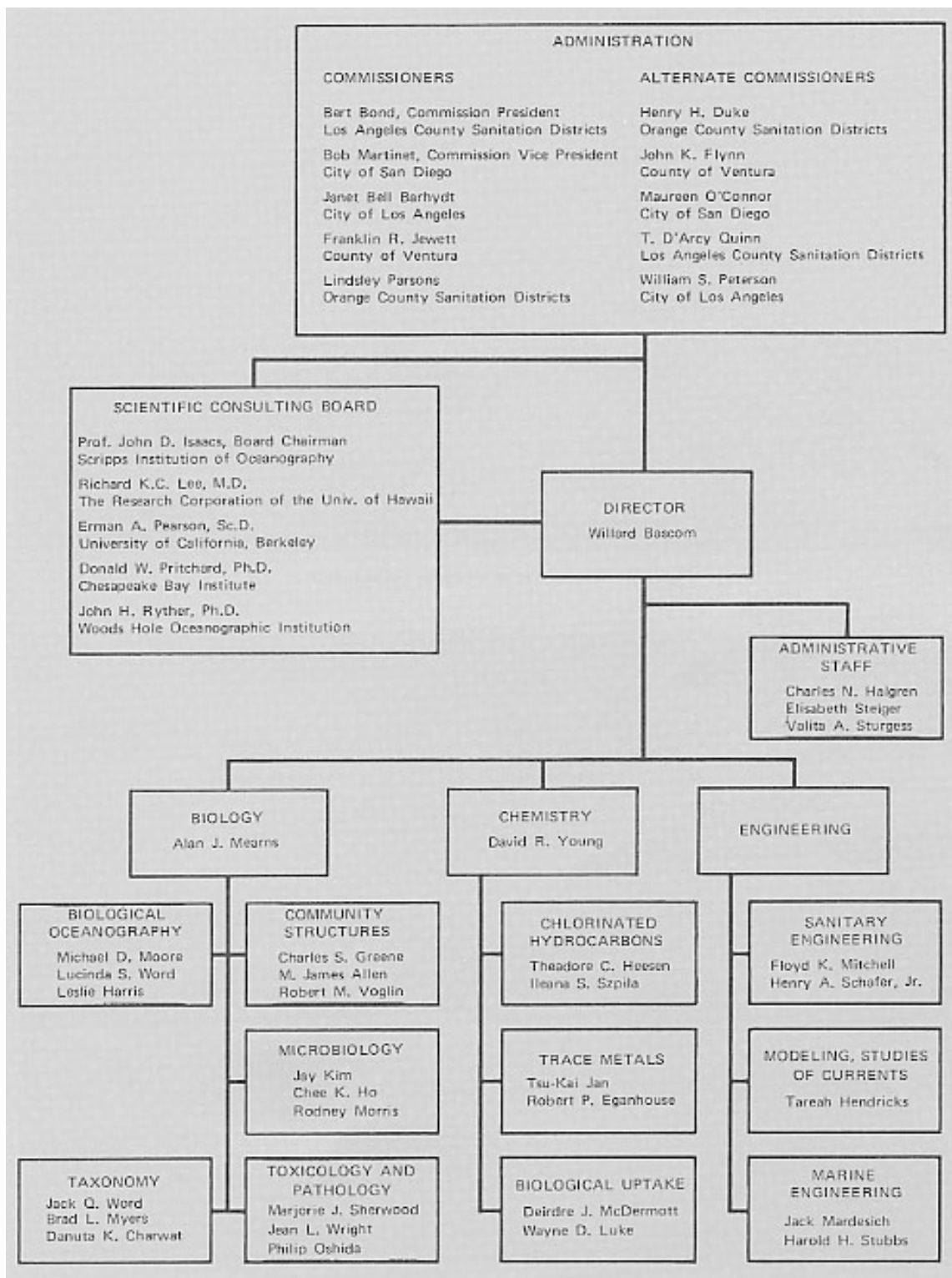


Figure 1. Coastal Water Research Project Organization

M. JAMES ALLEN, Fish Community Ecologist B.A., University of California, Santa Barbara, 1967 M.A., University of California, Los Angeles, 1970	DEIRDRE J. McDERMOTT, Mathematician, Chemistry B.A., University of California, Los Angeles, 1970
DANUTA K. CHARWAT, Research Technician, Biology* B.A., University of California, Berkeley, 1973	MICHAEL D. MOORE, Research Technician, Biology B.S., California State University, Long Beach, 1973
ROBERT P. EGANHOUSE, Organic Chemist B.S., Iowa State University, Ames, 1970 M.S., Florida State University, Tallahassee, 1974	EDWARD I. MOTOLA, Library Research Technician*
GARY S. FERENCE, Laboratory Technician, Biology*	BRAD L. MYERS, Research Technician, Biology B.A., Augustana College, Rock Island, Illinois, 1971
CHARLES S. GREENE, Invertebrate Community Ecologist B.A., University of the Pacific, 1965 M.S., University of the Pacific, 1967 Ph.D., University of California, Davis, 1972	CARLOS P. PATRICKSON, Field Technician, Chemistry* B.S., University of Chile, 1962 M.S., University of California, Los Angeles, 1971
CHARLES N. HALGREN, Administrative Officer B.A., California State University, Long Beach, 1970	HENRY A. SCHAFER, Jr., Research Technician, Engineering B.A., California State University, Dominguez Hills, 1974
LESLIE HARRIS, Research Technician, Biology	MARJORIE J. SHERWOOD, Fish Disease Biologist B.A., University of California, Los Angeles, 1966 M.A., University of California, Los Angeles, 1968
THEODORE C. HEESSEN, Organic Chemist B.S., California State University, San Diego, 1969 M.S., California State University, San Diego, 1971	ELISABETH STEIGER, Administrative Assistant
G. PATRICK HERSHELMAN, Data Technician, Chemistry*	HAROLD H. STUBBS, Coordinator of Marine Operations Master Diver, U.S. Navy
CHEE K. HO, Laboratory Technician, Microbiology*	VALITA A. STURGEON, Executive Secretary B.A., University of Illinois, Chicago Circle, 1972
TSU-KAI JAN, Metals Chemist B.S., Chiba National University, 1967 M.S., Chiba National University, 1969 M.S., University of Southern California, 1972	ILEANA S. SZPILA, Laboratory Technician, Chemistry B.S., University of Southern California, 1974
WAYNE D. LUKE, Laboratory Technician, Chemistry B.S., University of Southern California, 1975	BARBARA M. TRAGER, Secretary* B.A., Ohio State University, 1966
	ROBERT M. VOGLIN, Research Technician, Biology*
	JACK Q. WORD, Invertebrate Taxonomist B.S., California State University, Long Beach, 1969
	LUCINDA S. WORD, Laboratory Technician, Biology* B.A., University of California, Berkeley, 1968
	JEAN L. WRIGHT, Laboratory Technician, Biology

*Parttime

Figure 2. Coastal Water Research Project staff

GEORGE V. ALEXANDER, Ph.D. University of California, Los Angeles Emission Spectroscopy	TIMOTHY D. LYNCH Current Meter Studies
RAYMOND A. BENDELE, D.V.M., Ph.D. Texas A&M University Histopathology of Fish	ROBERT A. MAH, Ph.D. ANN PITTMAN University of California, Los Angeles Outfall Methane Fermentation
CHRISTINE L. BONDANTE Biological Illustration	JAMES MORGAN, Ph.D. California Institute of Technology Aqueous Chemistry
LANNA CHENG, Ph.D. Scripps Institution of Oceanography Neuston in Coastal Waters	HARRY PECORELLI Aqua Contractors, Inc. Submarine Photography
BRUCE DUNN, Ph.D. University of British Columbia, Vancouver Polycyclic Aromatic Hydrocarbons	DONALD J. REISH, Ph.D. PHILIP OSHIDA California State University, Long Beach Chromium Toxicity to <i>Neanthes arenaceodentata</i>
ROBERT B. EVANS Le Mer Bleu Productions Underwater Photography	ROBERT A. RISEBROUGH, Ph.D. BROCK DE LAPPE Bodega Bay Marine Laboratory Chlorinated Hydrocarbon Analysis
DONN S. GORSLINE, Ph.D. University of Southern California Marine Sediments	ROBIN A. SIMPSON Editing and Publications Coordination
VINCENT P. GUINN, Ph.D. University of California, Irvine Nuclear Activation Analysis	ROBERT W. SMITH University of Southern California Benthic Community Structure
JON B. ISAACS Hook and Line Fish Surveys	HANS STICH, Ph.D. University of British Columbia, Vancouver Tumors in Fish
IAN KAPLAN, Ph.D. EMIL KALIL University of California, Los Angeles Marine Geochemistry, Pore Water Analysis	VICTOR VIDAL FRANCISCO VIDAL Scripps Institution of Oceanography Subsurface Hot Springs in Baja California
JUHEE KIM, Ph.D. EUGENE MANFREDI RODNEY MORRIS DARYL OSATO California State University, Long Beach Microbiology	SEFTON R. WELLINGS, M.D. University of California, Davis Fish Pathology

Figure 3. Scientific and Technical Associates