

## Appendix A

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# **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 Institute of Marine Resources of the University of California, the State Water Resources Control Board, and others.

The Project's 20 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 identified in the following paragraphs and in Figure 2. Our scientific and technical associates are listed in Figures 3, 4, and 5.

### **WILLARD BASCOM, Project Director**

Mr. Bascom has been involved in oceanographic work since 1945. 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 an adjunct professor at the Scripps Institution of Oceanography.

### **ALAN J. MEARNS, 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

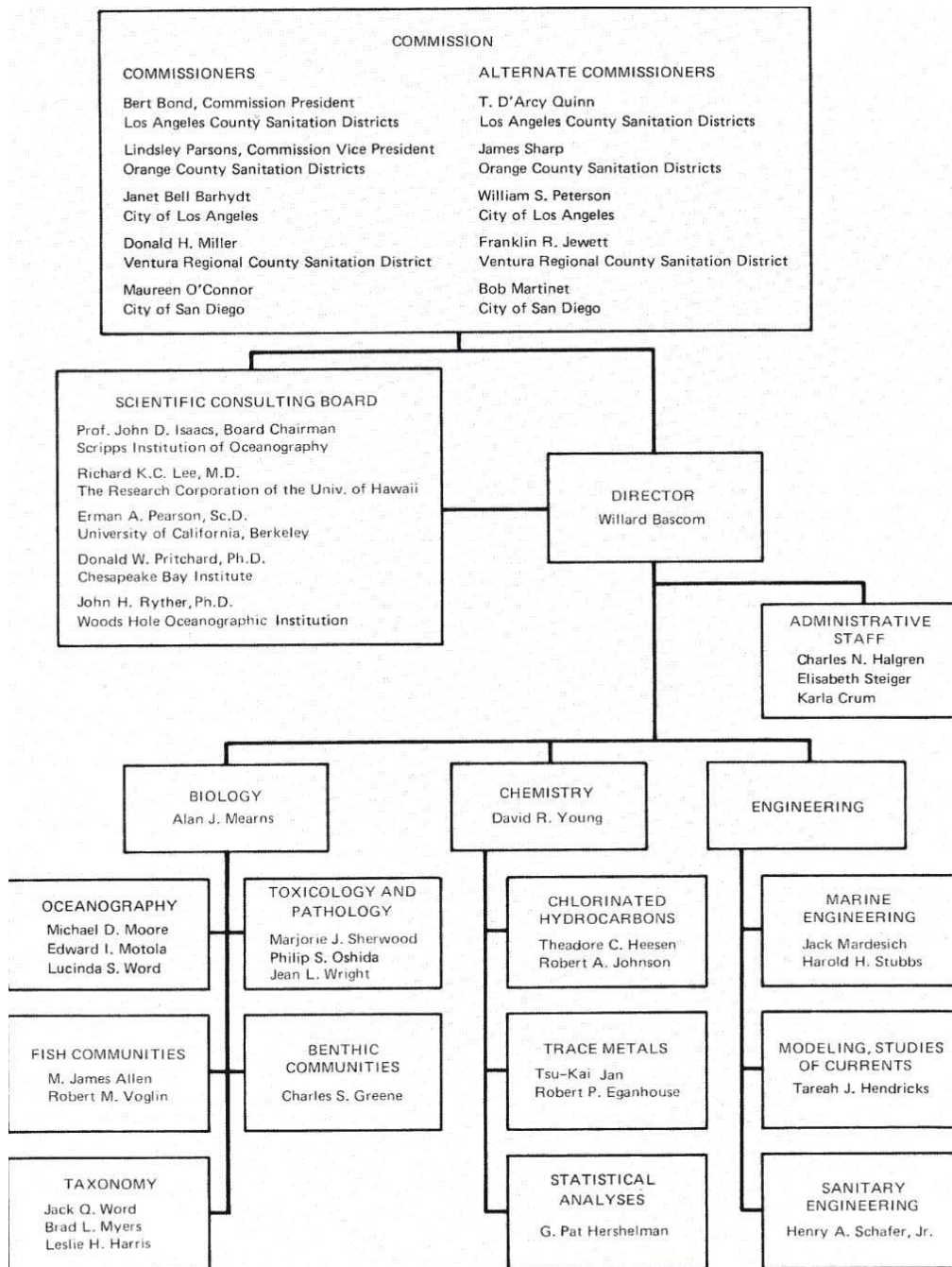
Dr. Young is head of the chemistry department and an expert on trace metals and toxic organic materials in marine life. He received his bachelors degree in physics from Pomona College in 1960 and then studied nuclear engineering at UCLA. After extensive study at the Scripps Institution of Oceanography 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 J. 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. degree 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.



**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	MICHAEL D. MOORE, Research Technician, Biology B.S., California State University, Long Beach, 1973
KARLA CRUM, Secretary	EDWARD I. MOTOLA, Library Research Technician* B.A., University of California, Los Angeles, 1976
ROBERT P. EGANHOUSE, Organic Chemist B.S., Iowa State University, Ames, 1970 M.S., Florida State University, Tallahassee, 1974	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	PHILIP S. OSHIDA, Research Technician, Biology B.A., University of California, Berkeley, 1972 M.S., California State University, Long Beach, 1974
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
THEADORE C. HEESSEN, Organic Chemist B.S., California State University, San Diego, 1969 M.S., California State University, San Diego, 1971	ELISABETH STEIGER, Administrative Assistant
GEORGE PATRICK HERSHELMAN, Laboratory Assistant B.S. Loyola University, Los Angeles, 1974	HAROLD H. STUBBS, Coordinator of Marine Operations Master Diver, U.S. Navy
TSU-KAI JAN, Metals Chemist B.S., Chiba National University, 1967 M.S., Chiba National University, 1969 M.S., University of Southern California, 1972	ROBERT M. VOGLIN, Research Technician, Biology JACK Q. WORD, Invertebrate Taxonomist B.S., California State University, Long Beach, 1969 M.A., California State University, Long Beach, 1974
ROBERT A. JOHNSON, Senior Laboratory Assistant B.S., California State University, Long Beach, 1975	LUCINDA S. WORD, Laboratory Technician, Biology* B.A., University of California, Berkeley, 1968
	JEAN L. WRIGHT, Laboratory Technician, Biology

**Figure 2. Coastal Water Research Project Staff.**

GEORGE V. ALEXANDER University of California, Los Angeles Emission Spectroscopy	HARRY PECORELLI Aqua-Contractors and Oceanographics, Inc. Submarine Photography
BRUCE DUNN, Ph.D. University of British Columbia, Vancouver Polycyclic Aromatic Hydrocarbons	KENNETH V. PIERCE BRUCE MCCAIN National Oceanic and Atmospheric Administration Histology
BOB EVANS La Mer Bleu Productions Underwater Photography	DONALD J. REISH, Ph.D. California State University, Long Beach Chromium Toxicity Studies
DONN S. GORSLINE, Ph.D. University of Southern California Marine Sediments	ROBERT A. RISEBROUGH, Ph.D. BROCK DE LAPPE Bodega Bay Marine Laboratory Chlorinated Hydrocarbon Analysis
RICHARD W. GRIGG, Ph.D. University of Hawaii Survey of Benthos, Palos Verdes Shelf	MICHAEL H. SCHONZEIT Scripps Institution of Oceanography Current Meter Studies
JAMES R. HERRING, Ph.D. Scripps Institution of Oceanography Geochemistry	JACK SIADEK Sampling at Sea
IAN KAPLAN, Ph.D.	ROBIN A. SIMPSON Editing and Publications Coordination
EMIL KALIL University of California, Los Angeles Marine Geochemistry, Pore Water Analysis	ROBERT W. SMITH, Ph.D. University of Southern California Benthic Community Structure
K. ANDREW KLOOS University of California, San Diego Current Meter Studies	PAUL TAYLOR, Ph.D. California Analytical Laboratories, Inc. Chlorobenzene Analysis
DEIRDRE J. McDERMOTT-EHRLICH Lockheed Marine Biology Laboratory, Avila Trace Contaminant Studies	VICTOR VIDAL FRANCISCO VIDAL Scripps Institution of Oceanography Subsurface Hot Springs in Baja California
JOHN M. McGUIRE United States Environmental Protection Agency Chlorobenzene Analysis	ANN PITTMAN WARFORD
JAMES MORGAN, Ph.D. California Institute of Technology Aqueous Chemistry	ROBERT A. MAH, Ph.D. University of California, Los Angeles Methane Fermentation

**Figure 3. Scientific and technical associates.**



**Figure 4. Government advisors occasionally present at Coastal Water Research Project meetings.**

U.S. Department of Commerce,  
National Oceanic and Atmospheric Administration,  
Marine Ecosystems Analysis Program  
Dr. R. Lawrence Swanson  
Dr. Joel O'Connor

State of California,  
State Water Resources Control Board  
Dr. Gerald W. Bowes  
Dr. Melvin E. Holland  
James Allen  
Peter Rogers

U.S. Environmental Protection Agency  
Corvallis Environmental Research Laboratory  
Dr. Donald J. Baumgartner  
Region IX Office, San Francisco  
Dr. William D. Bishop

**Figure 4. Government advisors occasionally present at Coastal Water Research Project meetings.**

City of Los Angeles  
Bureau of Sanitation  
Jack M. Betz  
William F. Garber  
Joe Nagano  
James Langley  
Bureau of Engineering, Wastewater Systems  
Engineering Division  
Richard S. Heller  
Kenneth Y. Lee  
Department of Environmental Quality  
Norman D. Hanson

City of San Diego, Water Utilities Department  
Richard King  
William M. Conn

County Sanitation Districts of Los Angeles County  
Dr. C. Irwin Haydock  
Stephen R. Maguin  
Douglas A. Hotchkiss

County Sanitation Districts of Orange County  
Gregg Pamson  
Michael Heinz

Ventura Regional County Sanitation District  
Jerome J. Wedding  
Dr. G. M. Cianko  
Hernando Garcia

**Figure 5. Representatives present at bimonthly meetings of Coastal Water Research Project sponsors.**