

Appendix B

HISTORY, ORGANIZATION, AND STAFF

The Southern California 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. In the last year Encina Water Pollution Control Facility and the South East Regional Reclamation Authority have joined the organization. The financial support from local government agencies has been supplemented in the last two years by a series of grants from the Environmental Protection Agency, the National Oceanic and Atmospheric Administration (NOAA), and others.

The Project's 20 scientists are organized into biology, chemistry, biochemistry, and engineering groups, as shown on the organization chart in Figure 1. The staff receives overall guidance from a Consulting Board of eminent scientists from major universities. The members of the research team, identified in Figure 1, are described in the following paragraphs.

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 the Scripps Institution of Oceanography, and the National Academy of Sciences. He has organized and led many ocean science and engineering projects around the world. Mr. Bascom is the author of numerous books and papers about the ocean, a member of

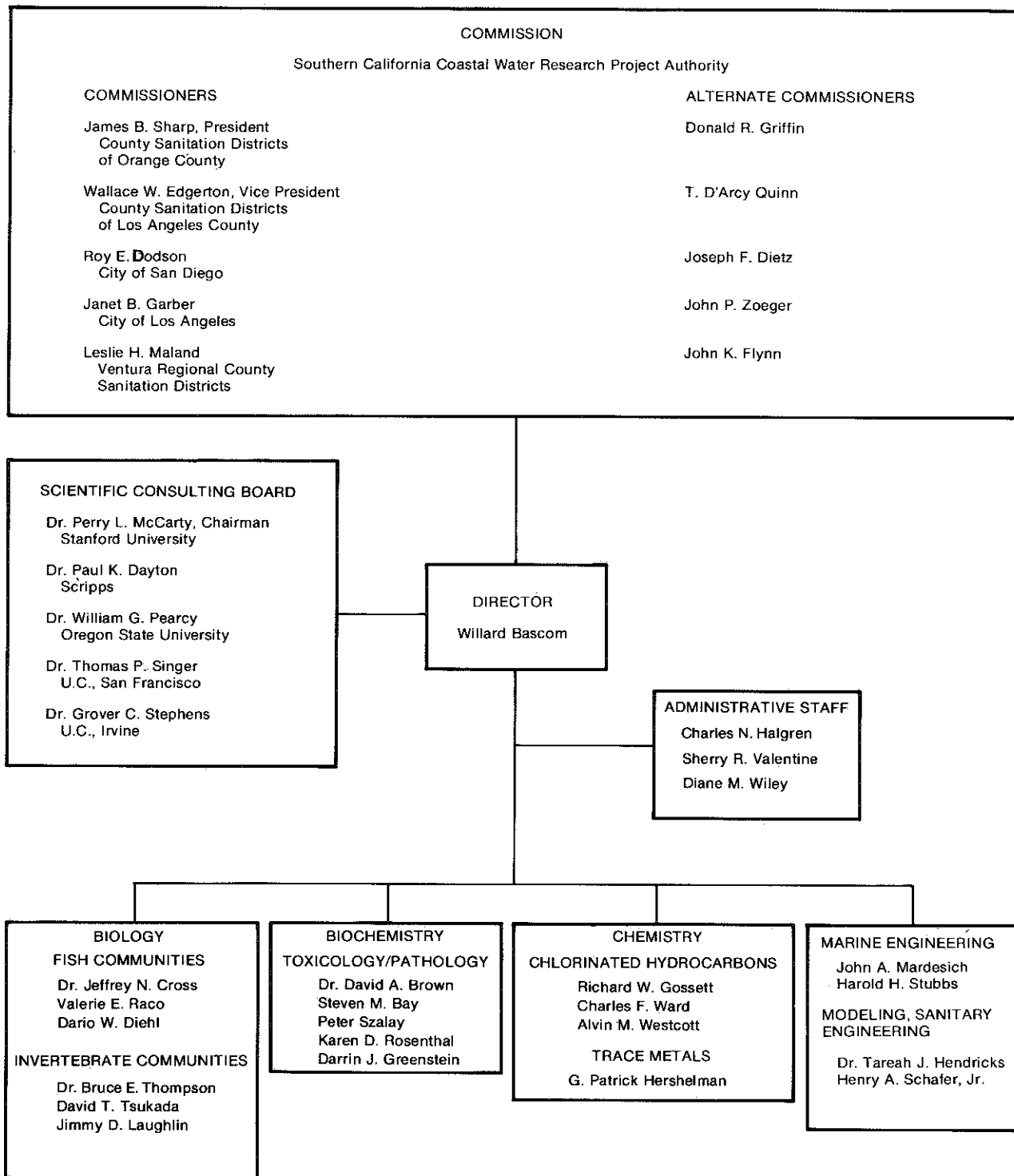


Figure 1. SCCWRP organization chart.

NOAA's National Sea Grant Panel, the Coastal Engineering Research Board of the Corps of Engineers, and the Ocean Waste Disposal Project of the Office of Technology Assessment of the U.S. Congress. He is a winner of the Explorers Medal and the John Wiley Jones award for leadership in oceanography.

DR. 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. Hendrick's previous research focused on high-energy physics, sanitary engineering, and experimental reverse osmosis.

DR. DAVID A. BROWN, Biochemist

Dr. Brown is head of the Project's chemistry department and an expert on trace metals and toxic organic materials and their effects on marine life. He receive his B.S. degree in biochemistry and his Ph.D. degree in oceanography from the University of British Columbia. His doctoral dissertation explored the toxicology of trace metals, including their detoxification by metallothionein and their role in carcinogenesis. In addition, he has published a number of papers on metabolism and detoxification of organic compounds, the biochemical stress response, and invertebrate histopathology.

DR. BRUCE THOMPSON, Benthic Ecologist

As leader in the benthic laboratory, Dr. Thompson conducts analyses of how changes in environmental conditions affect invertebrates at the bases of marine food chains. He received his Ph.D. from the Univeristy of Southern California in 1982 and has extensive experience working on the benthos of the region. He has also conducted research on deposit-feeding communities, invertebrate systematics, and phytoplankton productivity.

DR. JEFFREY CROSS, Fishery Biologist

Dr. Cross conducts research on fish biology including ecology, reproduction, and disease. His statistical background has benefited several of the Project's studies. He received a Ph.D. in fisheries from the Unviersity of Washington in 1981 and has authored several publications on the biology of marine and freshwater fishes.

RICHARD W. GOSSETT, Chemist

Mr. Gossett is in charge of the trace organics laboratory, which conducts biological and sediment sample preparation and analysis of high-pressure liquid chromatography and packed or capillary column gas chromatography. He is also involved in the application and development of new techniques in separation and analytical methods, including compound confirmations by gas chromatography/mass spectrometry. Mr. Gossett is currently enrolled in the graduate program at California State University at Long Beach.

G. PATRICK HERSHELMAN, Trace Metals Chemist

Mr. Hershelman coordinates trace metal analyses, having had extensive experience with the various techniques of chemical preparation and analysis of marine samples. He received his B.S. degree in biology/chemistry from Loyola University in 1974.

JOHN A. MARDESICH, Marine Engineer

Mr. Mardesich designs, constructs, and tests sampling equipment required for the Project's marine studies. He is an expert on marine hydraulics and remotely operated underwater photography and television systems. Mr. Mardesich has a B.S. in mechanical engineering from Northrop Institute of Technology. Prior to joining the Project in 1973, Mr. Mardesich was Chief Engineer for Ocean Science and Engineering, Inc.

HAROLD H. STUBBS, Marine Coordinator

Mr. Stubbs is field engineer and coordinator of marine operations for the Project. He organizes and schedules marine surveys and acts as liaison between vessel operators, equipment vendors, and Project scientists. After 22 years in the U.S. Navy, Mr. Stubbs retired as a Master Diver and Rigger, joining Ocean Science and Engineering, Inc., as a field engineer before coming to the Project.

HENRY A. SCHAFER, Marine Biologist

Mr. Schafer has contributed to studies of the distribution and effects of discharged sewage sludge and has annually surveyed the characteristics of sewage effluents in southern California since 1975. He is also responsible for collecting data and samples for our marine mammal studies. Mr. Schafer received his BA degree in biology in 1974.

STEVEN M. BAY, Marine Biologist

Mr. Bay manages the operations of the biochemistry laboratory, where he is responsible for the separation and biochemical analysis of tissue samples for the Project's contaminant detoxification studies. He also oversees the activities of the toxicity laboratory, including the collection, culturing, and exposure of marine animals for toxicity tests. Mr. Bay coordinates the activities of our student intern program with California State University at Long Beach. He received his B.S. and M.S. degrees in marine biology from California State University at Long Beach in 1976 and 1981, respectively.

PETER SZALAY, Biochemist

Mr. Szalay is involved in the development and application of biochemical assays as tools for discerning the effects of metals and synthetic organic compounds upon marine organisms. He received a B.S. degree in biochemistry from the University of California at Riverside in 1975.

JIMMY D. LAUGHLIN, Benthic Biologist

Mr. Laughlin is concerned with the organization and processing of benthic samples and the maintenance of aquaria of benthic infaunal cultures. He has taxonomic expertise in Polychaeta and Crustacea and is currently working on feeding habits and respiration of benthic infauna. Mr. Laughlin received a B.S. degree in marine biology in 1978 from California State University at Long Beach.

DAVID T. TSUKADA, Benthic Biologist

Mr. Tsukada is a taxonomist involved in sorting, processing, and identifying benthic grab samples, with special expertise in Mollusca, Nemertea, and Ophiuroidea. He also conducts analyses of fish stomach contents. He received a B.S. degree in marine biology from California State University at Long Beach in 1975.

VALERIE RACO, Marine Biologist

Ms. Raco takes part in fish reproduction and fin erosion studies. She received her B.S. degree in Marine Biology from California State University at Long Beach in 1982.

DARRIN J. GREENSTEIN, Marine Biologist

Mr. Greenstein performs various biochemical analyses of tissue samples for detoxification studies. He also performs water quality analysis and is responsible for the care and feeding of the marine animals used in Project studies. He received an A.S. in Marine Biology from Long Beach City College in 1979 and a B.S. in Marine Biology from California State University, Long Beach, in 1981.

KAREN D. ROSENTHAL, Histopathologist

Ms. Rosenthal dissects, prepares, and analyzes histological materials. She received her A.A. from Long Beach City College and a B.S. in Marine Biology from California State University, Long Beach.

CHARLES WARD, Technician

Mr. Ward performs sediment and organism extraction and analysis in the Project's trace organics and trace metals laboratories. He received his B.S. degree in Marine Biology from California State University, Long Beach.

ALVIN M. WESTCOTT, Technician

Mr. Westcott performs sediment and organism extraction and analysis of chlorinated hydrocarbon parent compounds and metabolites. He is currently an undergraduate student in marine biology at California State University, Long Beach.

DARIO DIEHL, Marine Biologist

Mr. Diehl is involved in studies concerning various aspects of fish biology, including reproduction and fin erosion. He received his B.S. in Marine Biology from California State University, Long Beach, in 1982.

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