



EDWIN WENDELL PAULEY

JANUARY 7, 1903-JULY 28, 1983

DEDICATION

This volume is dedicated to the late Edwin W. Pauley, in recognition of the significant role that he played in the founding and development of the Hawaii Institute of Marine Biology on Coconut Island. In 1947, Mr. Pauley invited the University of Hawaii to establish a marine laboratory on Coconut Island (Moku o Loe) located in Kaneohe Bay, Oahu, Hawaii. This offer was accepted and Dr. Robert E. Hiatt was designated as the first Director of what was then known as the Hawaii Marine Laboratory. The original laboratory was housed in buildings donated by the Pauley family. Mr. and Mrs. Pauley took a very personal interest in the laboratory and they established close ties with the University community. This was especially apparent during the annual luncheons when they would invite the entire laboratory staff to their home on Coconut Island. Those who worked at the laboratory during this period have many fond memories of the Pauley's gracious hospitality at these gatherings. Mr. Pauley continued to be a good friend and provided considerable financial support to the laboratory over the years. He frequently visited the laboratory when he was in residence on Coconut Island in order to check on progress of various research projects and determine how he might help. When the original laboratory building was destroyed in a fire during 1959, he offered assistance and furnished funds to enable the University of Hawaii to begin construction of the present laboratory building which was completed in 1966. The laboratory continued to grow and prosper, until today it is one of the world's leading tropical marine research institutions.

At the marine laboratory we knew Mr. Pauley as a friend and as a person who had an abiding humanitarian interest in the advancement of science and in higher education. Mr. Pauley was, however, unique in many ways. He was a very successful businessman and recognized widely as an accomplished economist and diplomat. He had a distinguished career in government, education and private industry. He was a talented educator, a skilled educational administrator, an enlightened and judicious philanthropist and an enthusiastic promoter of arts and athletics.

Edwin Wendell Pauley was born in Indianapolis, Indiana, January 7, 1903, the son of the late Elbert L. and Ellen Van Patten Pauley. He graduated from Georgia Military Academy, College Park, Georgia, in 1918, enrolling the following year at Occidental College, Los Angeles, where he later served as a trustee.

After two years at Occidental, he transferred to the University of California at Berkley, receiving his Bachelor of Science degree from the College of Commerce and Business Administration in 1922.

His lifetime contributions in the field of education were enormous. Following graduation Mr. Pauley spent a year on the teaching staff at the University of California, Berkeley. His interest in education remained strong throughout his life, even though his primary occupation was in business and government service. He was appointed a Regent of the University of California in 1939. He was reappointed for a second sixteen-year term in 1954, and served as Chairman from 1956 to 1958 and from 1960 to 1962. He worked hard to shape the University of California into one of the world's greatest institutions of higher learning. In 1960-1961 Mr. Pauley played an active role in raising funds to establish KCET, Los Angeles' educational television station. He was awarded honorary degrees from the University of Santa Clara, and Pepperdine College, Los Angeles.

Mr. Pauley's principal business interest was the oil industry and in real estate development. After his teaching experience at the University of California, he became associated with his father in the Pauley Oil Company. In 1927, he organized the Petrol Corporation and operated it until 1948. He sold this company and subsequently engaged in the oil business under his own name. He did likewise in real estate and operated both businesses until the incorporation of the Pauley Petroleum Inc. in 1958. Mr. Pauley was involved in a variety of other business activities. He was a partner in the Los Angeles Rams Football Club, and a principal in the Riverside International Raceway and the Valley Music Theatre, Los Angeles. He was a director of the San Francisco - Oakland Television, Inc., which operated KTVU. In 1945, Mr. Pauley purchased controlling interest in the Pacific Tire and Rubber Co. In 1951 he became interested in developing real estate in northern California and subsequently developed shopping centers and industrial parks in Southern California. The development of Hastings Ranch in Pasadena is an example. In addition, Mr. Pauley was a member of the Board of Directors of Western Airlines.

Mr. Pauley was an organizer and a leader in both business and government. In 1933, during the Great Depression, he represented the independent oil producers in the planning and coordinating committee under the National Recovery Act. From 1934 to 1938 he was president of the Independent Petroleum Association. He served as representative of the Governor of California at the Pan American High-

way Conference in 1939, and in the same year served as the Special Representative of the Governor of California on the National Resources Commission. With the approach of World War II, oil supply became vital to the defense of the United States. Mr. Pauley was appointed Special Representative of California on the Interstate Oil and Compact Commission in 1940 and was an organizer and member of the Defense Council of the State of California in 1941. In 1940 he was asked by President Franklin D. Roosevelt to serve as his Special Representative, acting as liaison between the United States and Great Britain. In 1941 he was also appointed by President Roosevelt to formulate plans for the Coordinator of Petroleum Industry, and later that year carried out missions in Europe as Special Representative of the Petroleum Coordinator for War. Mr. Pauley was economic advisor for the United States Government at the Potsdam Conference in 1945. From 1945 to 1946 he was the United States Representative on the Allied Commission on Repatriations, with the rank of Ambassador. From 1947 to 1948 he was Special Assistant to the Secretary of the Army.

In the Los Angeles community, Mr. Pauley's civic activities included the following: Director and Treasurer of the Hollywood Bowl Association, Member of the Board of Directors of the Los Angeles Chamber of Commerce, Member of the Board of Directors and President of the Los Angeles World Affairs Council, Member of the Southern California Committee for the Olympic Games, and Vice Chairman of the Board of Trustees of the California Museum Foundation. Mr. Pauley is one of the founders of the Los Angeles Music Center, which was established in 1964. He was an active supporter of the San Gabriel Valley Council of the Boy Scouts of America. He was a moving party and principal donor of land and new building which is the headquarters of the San Gabriel Valley Council. Mr. Pauley's other philanthropies included substantial contributions to the University of California.

Edwin Pauley died in July 1987 at the age of 78.

There is adequate evidence that Mr. Pauley was a man of great wisdom and vision who demonstrated a unique talent to identify areas of high potential success and to develop these areas. Perhaps it is not surprising that he recognized the importance of the marine sciences in the late 1940's some two decades before this area achieved national prominence. He had an abiding humanitarian concern for the potential role of marine science to address societal needs, particularly food production and resource management. Mr. Pauley correctly antici-

pated the important and unique role that the University of Hawaii was to play in the development of this area of research.

All of us at this laboratory recognize that Mr. Pauley gave up his privacy on Coconut Island when he invited the University to establish laboratories and share his beautiful estate. It is clear that he wanted this institution to grow and prosper. In this spirit, we have initiated a major summer research training program and have invited students and scientists from all over the world to participate.

The traditions started by Mr. Pauley have been perpetuated by his family and through the Edwin W. Pauley Foundation. Close ties have long existed between marine scientists from throughout the University of California system and HIRM due to joint programs initiated by Mr. Pauley. Mr. Pauley's wife, Barbara, takes an active, ongoing interest in the laboratory and has done much to promote marine science in Hawaii on her own initiative.

This volume represents only a tiny fraction of the research and training that has occurred at HIRM as a result of Edwin Pauley's foresight and generosity. The Hawaii Institute of Marine Biology is living evidence of Mr. Pauley's commitment to excellence in higher education and research in the marine environment. In a small way this dedication is a grateful recognition of our debt to this man.

Foreward

This volume is the result of research done by a group of highly motivated scientists and students who gathered at the Hawaii Institute of Marine Biology on Coconut Island in Hawaii during the summer of 1983 to participate in a program titled "Coral Reef Population Biology". This was officially labeled as a graduate course in zoology, but it was actually much more.

In an effort to extend the influence of the University of Hawaii as an institution striving for excellence, a number of the institute's staff who had participated in earlier, similar programs, conceived the idea for this one. They planned to make maximum use of the unique laboratory facilities and reef communities in the tropical environs of Hawaii, with the additional goal of making a substantial contribution to graduate education in marine biology.

The setting on Coconut Island contributed greatly to the success of this program. The island is in a protected bay with a variety of biotopes and is surrounded by a fringing coral reef that is protected as a marine sanctuary. This luxuriant reef is but a few feet from a well equipped laboratory, and only a few miles from a major university with even more sophisticated apparatus, research library, etc.

This program was all made possible through the vision and generosity of the Pauley Foundation, the University of Hawaii Foundation and the University of Hawaii Sea Grant Program. Not only was funding supplied, but also a great deal of personal interest and concern was shown by Mrs. Edvie Pauley and Mr. William Paugen of the Pauley Foundation, President Fujio Matsuda of the University of Hawaii (for the U.H. Foundation) and by Dr. Jack Davidson, Director of the Sea Grant Program at the University of Hawaii.

The format for this program consisted of a series of lectures presented by a group of outstanding scholars with a broad spectrum of approaches to the subject. Next followed intensive research through small group and individual projects. Because of the enthusiasm of the organizers for the high quality and intense interest of the applicants, the program surpassed the original expectation of participation by 12-15 students, and resulted in a final total of 29 students and 11 senior staff members. The atmosphere was scholarly, dynamic and

creative. The students had varied backgrounds - some having never observed the living corals or tropical environment. New techniques and approaches were introduced which allowed students to trace growth processes in order to elucidate reproductive regimes, as well as to explain ecological relationships in a variety of corals and organisms in the coral reef community. Seven of the students were already enrolled as graduate students at the University of Hawaii. Others came from six mainland states, Australia, the Philippines, Japan, Guam, Mexico and the United Kingdom. The students became a friendly, stimulated and strongly motivated group, and student-instructor relationships were highly conducive to the production of ideas that evolved into fruitful research. Each student arrived at the course with an approved research topic, having already communicated with one of the instructors.

Most of the research described in this volume was accomplished during the period extending from the first week in June until mid-August. Interests developed and nurtured during the summer persisted and several of the students stayed on to be part of the graduate program at the University of Hawaii in order to pursue the research that they had initiated in this course. Other students and instructors acquired interests and developed collaborative relationships with members of our staff. This endeavor was strongly influenced and given direction by the core staff consisting of Robert Kinzie, Paul Jokiel, Peter Glynn, George Losey, Robert Richmond, and David Krupp, as well as by some of the student participants in the course.

This volume stands as testimony that we can make substantial contributions to graduate education and advanced research training by exposing students to a rich tropical biota with a stimulating format of lectures, and at the same time advance our own knowledge of the particular discipline through research. It was my distinct privilege to have been associated with the outstanding group of scholars whose concerted efforts produced this work. We anticipate that this will be an annual program, and that it will continue to serve as an example of a unique and rewarding approach to graduate education.

Philip Helfrich

Coconut Island

6 June 1985

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CORAL REEF POPULATION BIOLOGY



Graduate Research and Training
Summer Program, May-August 1983
Hawaii Institute of Marine Biology
University of Hawaii