



Lucius Gilbert Eldredge III (1938 - 2013)

In 1965, at the age of 27, Lu Eldredge earned his PhD in Zoology from the University of Hawaii and joined the faculty of the University of Guam (UOG). Along with Robert S. Jones and Roy T. Tsuda, Lu relentlessly strived to get a marine laboratory established at UOG and succeeded in 1970. Lu served as the Director of the Marine Laboratory from 1972–1974 and as Interim Director of the Micronesian Area Research Center from 1982–1984. He edited Volumes 5 – 7 of *Micronesica* (1970–1972). Lu led the effort for UOG to become a full member of the Pacific Science Association. He earned his Masters of Library and Information Science at the University of Hawaii while on sabbatical in 1987. Following retirement from the University of Guam, he worked from 1987 to 1989 for the Regional Seas Directories and Bibliographies at the United Nations Food and Agriculture Organization in Rome. Lu served as Executive Secretary of the Pacific Science Association from 1989 to 2004. During this time, he also served on the Hawaii Coral Reef Initiative board and the Federal Invasive Species Advisory Council. Retiring from the Pacific Science Association in 2004, he became Invertebrate Zoologist at the Bishop Museum and, after his

work ended at the Museum, he was given the title of Distinguished Research Affiliate, conferred upon only three others, in recognition of the tremendous amount of work he had done. Lu was a founding member of the Hawaii Bishop Research Institute and served as its Executive Secretary from 1990 until he passed away on 1 May 2013.

Lu Eldredge did fieldwork surveying the marine invertebrates of Guam, Taiwan, Philippines, Samoa, Johnston Atoll, Fiji, Indonesia, and the Mariana, Caroline, Marshall, Line, and Hawaiian Islands. He was a renowned bibliophile and kept files of every publication known on the marine fauna of Pacific Islands (both by island and by animal group) and co-edited the annual Records of the Hawaii Biological Survey (a record of all native and introduced species to the Hawaiian Archipelago) since its founding in 1992. His constant and rigorous searching for all literature on Hawaiian plants and animals allows Hawaii to be the only state in the Union to have an accurate number of all its described species, not just rounded estimates. He was in the process of publishing an update to that list when he passed away.

Lu also compiled many bibliographies, and one in particular that included hard-to-obtain grey literature and technical reports of all Pacific Island coral-reef sites which have been surveyed or monitored. He edited two volumes of the Reef and Shore Fauna of Hawaii, important books from the Bishop Museum. Several new species of crustaceans and didemnid ascidians were described by Lu and a number of taxa have been named in his honor, including the Indo-Pacific crabs *Luciades agana*, *Petrolisthes eldredgei*, *Homola eldredgei*, and *Pseudomicippe eldredgei*.

One of Lu's great passions and an area where he made one of his important scientific contributions was in the still-developing field of introduced and invasive marine species. He was diligent in documenting the sources, dates of arrival and current status of introduced species on islands in the Pacific. Together with James Carlton, director of the Maritimes Studies Program of Williams College and Mystic Seaport Center since the 1980s, Lu compiled a comprehensive listing and validation of the marine and brackish water introduced and invasive species in the Hawaiian Islands. This in-depth treatise was published by the Bishop Museum Press in 2009 as *Marine Bioinvasions of Hawai'i*, and is the standard reference for marine introductions to the Islands. In the process of producing this work, Lu mentored colleagues and students in developing and finding funding for extensive research programs that expanded the knowledge base in finding new introductions and evaluating their impacts on native marine communities. Because of Lu's enthusiasm and guidance, more is probably known about marine introductions in Hawai'i than any other tropical location in the world.

At both the University of Guam and the Bishop Museum, Lu mentored young scientists and students and was an encyclopedic source of information for

the tropical Pacific. At UOG, Lu taught graduate courses in Marine Invertebrates and in Marine Biogeography, as well as a seminar in taxonomy. Lu was the faculty advisor for nine Masters degree students who went on to careers in education, mariculture and the environment, some after completing PhDs at other universities. He was recognized as being a major source of advice and information to all the students at the UOG Marine Laboratory as well as many at the University of Hawaii where he served on the adjunct faculty in Zoology and was the Bishop Museum's representative to the awards committee for the Edmondson Trust. Lu's kindness and generosity touched and influenced many fellow scientists both professionally and personally, and he will be greatly missed by those who knew him.

—*Charles Birkeland, James T. Carlton, Steve L. Coles, Neal L. Evenhuis, Michael G. Hadfield, Roy K. Kropp, James A. Marsh, Roy T. Tsuda*