



Lucius G. Eldrege III (1938–2013)
(taken on his 50th wedding anniversary)

Lucius G. Eldredge (1938–2013): the man and his work

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In May 2013 we lost a valued colleague and close friend. Lucius G. Eldredge (“Lu” to everyone he met) had lost his battle with a bad heart. Those who came from throughout the Pacific to attend his memorial service in Honolulu are a testament to the many friends and colleagues he had during his life and career. He touched the lives of many and was selfless in his frequently helping others with their needs, both academically and personally. His expertise was in his knowledge of all things Pacific, but primarily in marine biology and the history of virtually all islands in the Pacific.

Early Years and Education

Lucius Gilbert Eldredge III was born in East Greenwich, Rhode Island, on 1 March 1938, to Lucius Gilbert Eldredge, Jr. and Harriet (née House) Eldredge. He was the youngest of three children (his two older sisters are Charlotte and Harriet). Genealogy was one of Lu’s interests and the Eldredge clan could trace their ancestry in New England back to the *Mayflower*. Lu told many that Pocahontas was a relation of the Eldredge family; a large lithograph done in the 1880s of the marriage of Pocahontas and John Rolfe was proudly displayed in the hallway of the Eldredge home in Hawai‘i.



Fig. 1. A young Lu Eldredge (center) with his sisters Charlotte (left) and Harriet (right).

Lu grew up on the family farm in East Greenwich tending to various animals including having a pet goat and mule. He was a 4-H member during his secondary school years and his capstone project was carefully describing four years of maturation in the personal garden he tended to. The project included growing new plants, experimenting with different fertilizers, and cutting down trees to provide more sunlight, all written in his characteristically beautiful longhand script. He attended Rocky Hill School, a private school in East Greenwich, which started in 1935 backed with funding from Lu’s grandfather, Garry C. House. It initially held classes in the living room of his parent’s home on Division Street until the school was built in 1937.



Fig. 2. Lu at 10 years of age in his 4-H outfit.

His first job was in 1950 advertising the movie *Francis the Talking Mule* by walking his mule up and down the streets of East Greenwich while wearing a sandwich board. He also worked in a florist shop, which gave him a special interest in flowers. The Eldredge home in Hawai'i was never without a display of fresh flowers that he would bring home after work.

In 1956 Lu matriculated at the University of Rhode Island. One year after beginning his college studies, Lu met Joanne ("Jo") Travell (who coincidentally could also trace her lineage back to the *Mayflower*) and the two were married the following year. After Lu received his BS in zoology from the University of Rhode Island in 1959, he and Jo set off to Hawai'i where he joined the Ph.D. program at the University of Hawai'i Mānoa campus in Honolulu. His doctoral dissertation was on the systematics of the ascidian (sea squirt) family Didemnidae; in that study he described 6 new species, including one named after his and Jo's favorite beverage, *Didemnum gintonicum*. He completed his thesis in 1965 and published the results of his dissertation in 1967.

During his studies at the University of Hawai'i, Lu spent time at the nearby Bernice Pauahi Bishop Museum, where he examined the invertebrate collection for his dissertation. Two things happened at the Bishop Museum that were to be a great influence on Lu for the rest of his life. It was at the Museum that he met Edwin H. Bryan, then the head of the Pacific Science Information Center located there. Ed was the center of knowledge of all things Pacific (having begun his gathering of such information soon after arriving in Hawai'i in 1916) and maintained numerous files on every island in the Pacific Ocean, with publications, notes, and newspaper clippings sorted both to island and also to subject. One of Lu's first scientific contributions was published by the Pacific Science Information Center: a *Catalog of the invertebrate type specimens in the Bishop Museum*. (Eldredge, 1967). Ed showed Lu the value of collecting all of this information and publishing bibliographies and checklists on them and Lu was hooked. From then on, one of Lu's specialties would be continuing Ed's passion for gathering information on all aspects of Pacific Islands, while specializing on marine invertebrates.

A result of this highly sought expertise was that many of Lu's colleagues would have Lu provide the bibliography of all the literature pertaining to their various surveys, and his own literature studies resulted in synthesized bibliographies of a number of various subjects. Lu's passion for bibliographical research was strong enough for him to take classes in Library Studies at the University of Hawai'i in 1981–1982 during a sabbatical and obtain the Master of Library Science degree in 1987. In what is doubtless one of the more unusual theses in Library Science, Lu produced a detailed catalog of all of the described species of the tropical intertidal snails known as nerites.



Fig. 3. Lu's wedding with Jo Eldredge in 1958.

The other transformative event that happened to Lu at the Bishop Museum was his introduction to the Pacific Science Association, which had its Secretariat offices at the Museum. Lu's work in marine biology for his PhD was deeply Pacific-related and the Pacific Science Association was to be central to many of Lu's science activities for decades to come. He attended his first Pacific Science Congress in Honolulu in 1961 as a student, and in Tokyo as an official delegate in 1966, eventually becoming its Executive Secretary in 1989, as we describe below.

Life in Guam

After obtaining his PhD in 1965, Lu and his family left Hawai'i and arrived in Guam to begin his position as Associate Professor teaching biology at the University of Guam (UOG). Lu quickly ascended from a professorship to chairman of the Division of Biosciences and Marine Studies and then to Director of the Marine Laboratory (then operating out of the UOG Science building). Soon after Lu's arrival, Benjamin Stone, a botanist at UOG, and Lu envisioned a new laboratory building devoted to biology and began plans to see it to fruition. Stone left Guam in 1967 and plans focused more on the laboratory specializing in marine biology. Lu spearheaded the efforts to get the Guam legislature and governor to support the plan and to eventually obtain matching funds from Washington, D.C. Ground was broken in early 1970 on the new lab and it officially opened on December 17, 1970. Ichthyologist Robert S. Jones was selected by Lu and UOG President Antonio C. Yamashita as its new director, allowing Lu the time to continue with curriculum development and building the research staff there.

The Marine Lab was the center of Lu's life for 20 years. An incredibly active research facility, resident and visiting investigators conducted numerous surveys and research expeditions throughout western Pacific Islands. Surveys and scientific expeditions were made to virtually every one of the



Fig. 5. Lu with his daughters at Sea Life Park, Hawai'i (1965).

Northern Mariana Islands, as well as to the Marshalls, and Caroline Islands. A large number of publications resulted from all of this activity, with many of these having a detailed bibliography printed at the end, synthesized and completed by Lu. In addition to these surveys, Lu also conducted his own scientific research and conducted fieldwork in Fiji, Indonesia, Taiwan, Samoa, Fiji and a number of smaller Pacific islands. Not surprisingly, as a result of Lu's extensive work through the Pacific, and related to a special affinity he had for decapods, three crab species and a crab genus were named for him (*Pseudomiccipe eldredgei* Griffin & Tranter, 1986, *Petrolisthes eldredgei* Haig & Kropp, 1987, *Homola eldredgei* Guinot & Richer de Forges, 1995) and *Luciades* Kropp & Manning, 1996). In addition, 5 additional new taxa: a coral (*Psammocora eldredgei* Randall), an isopod (*Avada eldredgei* Boyko) and 3 crabs and hermit crabs [*Forestiana lucius* Ng, *Leptomithrax eldredgei* Richer de Forges & Ng, and *Porcellanopagurus eldredgei* Kropp) are named after Lu in the present volume.

Work was not the only activity for Lu. He was a devoted family man as well. The Eldredges had four daughters [Sarah, Deborah, Emelyn, and Rebecca] and, since marine biology was pervasive in the household, it was not unusual for the daughters to quip that they learned to swim before they could walk. The girls would often accompany their dad and his visitors on beach collecting trips.

During their stay in Guam, the Eldredges generously opened their home to numerous visiting researchers from all over the world. If someone was going to visit Guam to conduct research, a stay at the Eldredge residence was essential. Word passed quickly to the scientific community that if you needed a place to stay, just call the Eldredges. In one case, that advice was taken to heart by a person who had no idea of who Lu Eldredge was—or vice versa. One day, Jo Eldredge answered the telephone and on the other end was a scientist who said, "Hi there, I just arrived at the Guam airport and I was told to call you if I needed a place to stay." The Eldredges proceeded to take him in despite not having any idea of who this person might be. Such was typical of the generous nature of Lu Eldredge.

In 1987, Lu finished his library degree at the University of Hawai'i. Almost immediately after that, he took a short-term position in Rome working in the Regional Seas Directories and Bibliographies section of the United Nations Food and Agriculture Organization. This work with FAO and some work for them conducted previous to his official employment there resulted in a directory of coral reef researchers, a bibliography of marine ecosystems, and a directory of coral reef research facilities.

Pacific Science Association and Bishop Museum

In 1988, long-time Executive Secretary of the Pacific Science Association, Brenda Bishop, passed away. The vacancy for that position was filled by Lu, who took up residence once again in Hawai'i in 1989 and remaining in the islands for the remainder of his life.

Back at the Bishop Museum, Lu had the best of both worlds. He could deliver the results of his passion on gathering information on Pacific Islands, and he could always be close to the marine invertebrate collections housed at the Museum.

With Museum invertebrate zoologist Dennis Devaney having passed away in a diving accident in 1983, Lu also became the resident specialist in marine biology and marine invertebrate zoology at the Museum.

Aside from the normal Executive Secretary duties of organizing the Congresses and Inter-Congresses, publishing the *Pacific Science Association Information Bulletin*, and liaising with many scientists throughout the Pacific, Lu devised a way—in the pre-internet world—to locate and distribute up-to-date information on Pacific-based literature to researchers around the world. He started the *Recent Pacific Titles* series as a supplement to the *Pacific Science Information Bulletin* (1991–2000). Every Friday when new journals arrived on the display rack in the Bishop Museum Library, Lu would assiduously photocopy the tables of contents of all the journals relating to the Pacific and compile them into an issue that was sent to members of the Pacific Science Association twice per year. Characteristic of Lu's careful scholarship and vast breadth of interests, he included journals from the humanities to biology to the physical sciences, and for many years his *Recent Pacific Titles* provided researchers the only way to learn of a vast amount of published work in journals that many never saw and, in not a few instances, did not even know existed.

Alien Species

In the 1980s, Lu's research interests began to turn to the diversity and proliferation of non-native species in coral reef systems of the Pacific – in so doing, he became one of the first and earliest workers to address the extent and impact of alien invasions in tropical marine communities. Again Lu's remarkable *forte* in ferreting out obscure information is reflected in much of this work, with a vast



Fig. 4. Lu in his office at the University of Guam (1976).

amount of the research requiring extrication of data from gray literature, internal memoranda, and the personal memories of those involved in intentionally moving marine invertebrates, algae, and fish around the Pacific. Years of meticulous Holmesian tracking, one clue leading to the next, resulted in a major synthesis in 1994 on the introductions and transplantations of commercially important species to and around the Pacific islands. In the 1990s Lu spear-headed, with Steve Coles, Ralph DeFelice, Ron Englund, Scott Godwin and others, a decade-long series of field and laboratory studies of marine, estuarine, and freshwater introduced species throughout the Hawaiian Archipelago, from Midway to the Big Island. Much of this work culminated in a 2009 monograph (with the junior author) that reviewed the history, distribution, biology of nearly 500 introduced and cryptogenic species in Hawai‘i.

Lu had many other interests and paths that he had hoped to follow relative to alien species in the Pacific theater, not the least of which was one of his long abiding interests (with Bob Gillett) on the history of the introductions of the Indo-Pacific top shell *Trochus niloticus*. A *Trochus* manuscript remains amongst Lu’s papers, awaiting the resumption of this important analysis. Lu was actively working on a 5-year update of the 2009 Hawaiian invasions book, and it is thus with no small pleasure that we are able to have one of Lu’s final papers on alien species in this very volume.

Later Years

In 2012, Lu retired from paid work at the Museum, but this did not stop his coming in every day and continuing his searches—now both “hard” (the library) and “soft” (online)—for the latest literature on Pacific marine invertebrates, updating his checklist of Hawaiian invertebrates, and letting others know of recent literature he found that might be of interest to them and their specialty. As in the halcyon days before the web, he would still go down to the library every week to look at the actual hard copies of journals, often sending an email to the junior author with new references on Hawaiian marine invasions, opening with the line, “Just arrived in the Library ...”. He continually mentored staff and liaised with and met with task forces relating to alien species—in Hawai‘i, and nationally, and throughout the Pacific. The junior author continued to visit O‘ahu to work with Lu on alien species, and here, as always, was the consummate host: attentive, concerned, making sure all resources were at hand, dropping whatever he had been working on to pursue a curious new lead, arranging visits with other Island colleagues. Every visit to the Islands was an occasion to gather all the old friends and colleagues on the windward shore on Milokai Street in Kailua for a dinner party, for an always elegant spread prepared by Jo and Lu, and hours of long conversations ranging across history, culture, and science.

Lu kept busy with his genetic passion of information gathering up to the end. A failing heart was to do him in, though. He battled it as best he could but after a month-long hospital stay, Lu passed away on 1 May 2013.

Epilogue

For the last 10 years or so, Lu would start his day virtually the same: up at 5am to get the newspaper, back to bed to read it, feed the dog, and off to work by 8 or 9am. Upon arriving at the Museum, he would head to the senior author’s office for a fresh cup of coffee, sit and chat about his latest readings of great places that should be checked for lunch or dinner, chat about nomenclature or taxonomy and frequently remind the more terrestrial-minded senior author that “there’s an ocean out there,” or maybe talk about a recipe he tried the night before; then off to his office to get online, answer emails from correspondents around the world, and start searching the web. At 12 noon sharp, he would walk back into the senior author’s office and complain that he had the “grumbles” [= he was hungry and wanted to go out to lunch ... and now!]. The lunch group would get into his car and head someplace off-campus for lunch [Lu never once in his life ever brought lunch to work]. Before leaving for lunch, he would always place his coffee cup in his mail slot to grab on his way back from lunch to have an afternoon cup of coffee.

With Lu gone, the chair in the senior author’s office is empty and there is no more discussion of recipes, good food to eat, or where the lunch group should go that day. However, the coffee cup remains in his mail slot, reminding everyone who passes that he wants to return and get that afternoon cup of coffee.

Acknowledgments

Many thanks to the Eldredge daughters, especially Rebecca Eldredge, who read an early version of this biography, helped with information on Lu's early years and provided the images used here. Roy Kropp kindly supplied the list of new species described by Lu. Many thanks to Roy Tsuda for his review of the final draft.

Appendix I. Complete Bibliography of Lucius Gilbert Eldredge III

As complete as possible a listing of all reports and publications written by Lucius G. Eldredge is given. Full authorship listed in square brackets at the end of each citation. Pages in square brackets are unpaginated.

1965

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1970

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1971

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Appendix II. New Species Described by Lucius G. Eldredge***Tunicates*** (all Didemnidae)

Trididemnum banneri Eldredge, 1966

Didemnum edmondsoni Eldredge, 1966

Didemnum elikapekae Eldredge, 1966

Didemnum gintonicum Eldredge, 1966

Didemnum pele Eldredge, 1966 [currently treated as *Didemnum granulatum* Tokioka, 1954]

Diplosoma abbotti Eldredge, 1966

Diplosoma handi Eldredge, 1966

Diplosoma hitatti Eldredge, 1966

Crustaceans

Homola dickinsoni Eldredge, 1980 — Homolidae

Paralomis seagranti Eldredge 1976 — Lithodidae

Paralomis haigae Eldredge 1976 — Lithodidae

Yaldwynopsis hawaiiiana Ng & Eldredge, 2012 — Homolidae

Rochinia decipitata Williams & Eldredge, 1994 — Epialtidae