Lawrence Kaplan (14 April 1926-6 March 1918)

Emily Kaplan

Smithsonian National Museum of the American Indian, kaplan@si.edu

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Recommended Citation

Kaplan, Emily (2022) "Lawrence Kaplan (14 April 1926-6 March 1918)," Andean Past: Vol. 13, Article 3. Available at: https://digitalcommons.library.umaine.edu/andean_past/vol13/iss1/3

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During a career that spanned more than fifty years, Lawrence Kaplan was recognized as the world’s foremost authority on the origins and domestication of beans (*Phaseolus* spp.) in the Americas (Kaplan 1984, 1987, Sauer and Kaplan 1969). Beans recovered from archaeological sites were often sent to Kaplan for identification and his analyses were included in site reports and other research publications. Kaplan made significant contributions at three major excavations in Mexico: Ocampo Caves, the Tehuacan Valley (Kaplan 1967; Kaplan and MacNeish 1960), and Guila Naquitz (Kaplan 1986). These pivotal studies provided the groundwork for an understanding of *Phaseolus* domestication in the Americas. Kaplan collaborated with numerous archaeologists working in the Andes, participating in a series of re-
search efforts that helped to further elucidate the domestication of *Phaseolus*, particularly in regard to the contributions of gene pools from both Central and South America. Notably, he collaborated with Duccio Bonavia for their “Bibliography of American Archaeological Plant Remains” (Bonavia and Kaplan 1990).

Kaplan's methods included morphological analysis, as well as optical and electron microscopy, and he was a pioneer in AMS radiocarbon dating of archaeological botanical remains (Kaplan 1994, 2004; Kaplan and Lynch 1999). Paleoenvironmental reconstructions using phytolith (Kaplan et al. 1992) and pollen evidence (Sneddon and Kaplan 1987) were a long-term interest. He identified beans from archaeological contexts including important Andean sites such as Guitarrero Cave (Kaplan 1980; Kaplan et al. 1992), Paracas, Cerro del Oro and Cahuachi, Los Gavilanes in the Huarmey Valley (Kaplan 1982), Guatacoando in the Casma Valley, and sites in the Virú Valley, in the Chilca Canyon, and Huacaloma, Picasca, San Pedro Viejo, Cerro Azul (Kaplan 2016), Marca- valle, and Piruru (Bonnier et al. 1983). Kaplan also studied specimens in various museum collections including the Museo Nacional de Arqueología, Antropología e Historia del Perú, the Phoebe A. Hearst Museum of Anthropology, and the Harvard Botanical Museum.

Kaplan received his B.A. (1949) and M.S. (1951) in botany from the State University of Iowa and his Ph.D. (1956) from the University of Chicago. He was born in Chicago, the younger of two sons of Fannie (Eisen) Kaplan and Herman Kaplan. He met his future wife, Lucille Nobler (Lucy), in high school. During World War II, he served in the U.S. Navy in the Pacific as a pharmacist’s mate, third class from 15 April 1944 to 1 June 1946. Lawrence and Lucy married on August 25, 1946, and moved to Iowa City where they attended the University of Iowa. Lawrence’s M.S. thesis focused on the study of fungal membranes (Kaplan 1951). Returning to Chicago, Kaplan began doctoral work in botany at the University of Chicago. His doctoral research, supported by a fellowship from the Field Museum, focused on the use of beans by the prehistoric inhabitants of the southwestern United States and northern Mexico (Kaplan 1956a, 1956b, 1963, 1965b, 1981; Kaemlein and Kaplan 1963; Kaplan and MacNeish 1960). In 1955, he took a position as an Associate Curator at the Missouri Botanical Garden in the Museum of Useful Plants. After receiving his doctorate, he obtained his first postgraduate position, as an instructor in botany at Wright College (now Wilbur Wright Community College in Chicago) in 1956 and 1957. Later, as a research associate at the University of Chicago anthropology department, he conducted ethnobotanical fieldwork in Chiapas, Mexico, where he and Lucy spent summers in 1956, 1957, and 1958. He and Lucy later conducted fieldwork in Oaxaca. Kaplan taught at Roosevelt University in Chicago from 1957 to 1965.

As Kaplan recalled:

My first encounter with the field of economic botany was in the Chemistry-Botany library at the State University of Iowa sometime about 1950. After my undergraduate degree in botany I specialized in mycology and worked on the chemical makeup of hyphal walls in the major taxonomic groupings of the fungi. For a periodic change of pace I browsed the library. And there on the reading room shelf were the fledgling issues of *Economic Botany*. This was fascinating stuff. Many of the longer articles were based on the field experience of botanists and foresters who had worked during the late 1930s and the war years (1940–1945) [sic] to locate exploitable sources of plant products, rubber and fiber, for example,
that could substitute for the sources that had been closed off because of the war. These articles and the literature abstracts of Edmund Fulling of the New York Botanical Garden were fascinating tidbits that could have guided young botanists into long term research on economic plants. In my case, that’s what happened. On another library shelf, one set aside for large format books, sat the 1940 facsimile of the Badianus Manuscript, the 1552 Aztec herbal. After my M.S. at Iowa and Lucy’s award of a fellowship to continue her graduate work in anthropology at Northwestern University, I entered the botany department at the University of Chicago to work for a Ph.D. in botany. Hugh Cutler, then curator of economic botany at the Field Museum, agreed to be my dissertation adviser and got me involved in ongoing work on archaeological analysis of plant remains from sites in New Mexico and elsewhere in the Southwest. This, in short order led to my specializing in archaeological beans. Hugh and Edgar Anderson were already working on archaeological corn; Cutler and [Thomas W.] Whitaker were working on cucurbits (undated personal recollection “SEB and Me” in the possession of the author).

In 1965 Kaplan was recruited to serve as a founding member of the University of Massachusetts Boston campus where he helped to establish the biology department, which he went on to chair three times. Lucy was hired by the University of Massachusetts Boston in 1966 and taught as a lecturer in the department of social relations (later anthropology) for the next twenty-five years. Kaplan served three terms on the Society for Economic Botany (SEB) council, also serving as the Society’s president (1987–1988) and as the reviews editor (1988–1990), associate editor (1980–1989), and editor of the journal of Economic Botany (1990–1999). He was elected Fellow of the American Association for the Advancement of Science in 1989. He served as Faculty Associate for the Center for Materials Research in Archaeology and Ethnology at the Massachusetts Institute of Technology from 1976 until 1994.

Kaplan retired from teaching in 1995 and became a professor emeritus. He continued to conduct research until late in his life. His last project was at the Late Classic Maya site of Ceren in central El Salvador (Kaplan et al. 2015; Lentz et al. 1996). The preservation of plant remains there was extraordinary, and beans were found in great abundance, an unusual occurrence in Mesoamerica. When asked, Kaplan agreed to help sort things out and quickly recognized that the Ceren occupants were using not only two species of domesticated beans (P. vulgaris and P. lunatus), but also populations of wild Phaseolus species. This co-occurrence had not been documented before, and the observed process of using domesticates in the close proximity of wild species helps to explain how the broad genetic diversity of this genus came about.

Kaplan was preceded in death by Lucy, his wife of 69 years. He is survived by three daughters: Martha Kaplan, who is the wife of John D. Kelly and a professor of anthropology at Vassar College; Emily Kaplan, a conservator at the Smithsonian National Museum of the American Indian; and Elisabeth Kaplan, the wife of Bob Horton and an archivist and librarian, and by grandchildren Neil Kaplan-Kelly, a graduate student in anthropology at the University of California Irvine, and by Rose Kaplan-Kelly, a graduate student in mathematics at Temple University.

Kaplan’s papers and field slides are archived in the University Archives at the University of Massachusetts, Boston https://openarchives.umb.edu/digital/collection/p15774coll8/id/413/rec/1 (accessed 27
March 2022). His type specimens and field collections are housed in museums in the United States (Smithsonian National Museum of Natural History, Smithsonian Tropical Research Institute, University of Southern California, Mesa Verde National Park, Museum of Northern Arizona, Natural History Museum of Utah, Field Museum), and in Peru (Museo de Historia Natural, Universidad Nacional Mayor de San Marcos, Lima.)

WORKS BY LAWRENCE KAPLAN


Bonavia, Duccio and Lawrence Kaplan


Sneddon, Leslie and Lawrence Kaplan