

**A Salute to
Dr. Donald J. Pinkava
(1933–2017)**



Donald J. Pinkava examining an herbarium specimen. Photograph by William P. Sharp.

HONORING DR. DONALD J. PINKAVA (1933–2017)
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We dedicate this volume to our friend, mentor, and colleague who gave us so generously of his time, encyclopedic knowledge, wisdom, good humor, and patience. Dr. Pinkava mentored 35 students as chair or co-chair, including seven Ph.D. students, many of whom have launched their own academic careers (see list of graduate students at the end). He published generously with his students on Cactaceae, the Flora of Arizona and documenting new chromosome counts for both (see bibliography below).

This volume comes out of a colloquium held in Dr. Pinkava's honor at "Botany 2019," the annual meeting of the Botanical Society of America, that was held in Tucson on July 31, 2019. Four of these papers were presented at the colloquium and others have been added subsequently.

The first paper, *Donald Pinkava's journey from Asteraceae to Cactaceae: From The Ohio State University to Arizona State University*, by Melanie L. DeVore and Kathleen B. Pigg sets the stage for the volume by looking at Pinkava's training in plant systematics at The Ohio State University (OSU), from which he received his Ph.D. in 1964. His dissertation entitled *Biosystematic study of genus Berlandiera DC. (Compositae)*, was one of many studies of Asteraceae at OSU. DeVore and Pigg explore the influence of this preparation for his subsequent study of Cactaceae at Arizona State University (ASU) and outline the complex web of Asteraceae researchers who interconnected work at OSU, UT Austin, the University of Wisconsin at Oshkosh, the Smithsonian Institution and ASU.

This is followed by a manuscript by Tom Daniels on *Donald Pinkava's studies on the vascular flora of the Bolsón de Cuatro Ciénegas in the Chihuahuan Desert, updates, and taxonomic information on Acanthaceae in the region*, which refers to one of the first studies done by Don Pinkava in the Southwest.

Next are two studies of Cactaceae and one on Zygophyllaceae:

1. Marc Baker and Michelle Cloud-Hughes—*Reassessment of subspecific taxa within *Pediocactus peeblesianus* (Cactaceae) by multivariate analysis of morphological characters* examines over 300 individuals in the *Pediocactus peeblesianus* complex morphologically to test the geographic structure within the complex. A weak morphological cline occurred from west to east, in which central spines increased in number and length, and radial spines decreased in thickness. Historically, interspecific taxa in the complex were based on neotenuous individuals occurring on very shallow soils.
2. Lucas Majure—*On the origin of the two putative allopolyploids, *Opuntia curvispina* and *O. martiniana* (Cactaceae): a case of cryptic speciation in prickly pear cacti* continues foundational work on chromosome number evolution and hybridization studies in the prickly pears initiated by Don and his students. Using DNA sequence data, and detailed morphological observations, Majure raises *Opuntia curvispina* to specific rank and neotypifies *Opuntia martiniana*.
3. Jon Reberman—*New *Kallstroemia hageri* (Zygophyllaceae) a new caltrop from Baja California, Mexico* is based on the continued floristic exploration of Baja California by Jon. This new species is the second *Kallstroemia* species endemic to Baja California. A botanical illustration and a key to the species in the genus *Kallstroemia* from the Baja California peninsula are also presented.

The final paper, by Steffi Ickert-Bond and Ute Kaden, entitled *North to the Future: Asynchronous delivery of the classic "Flora Class" at the University of Alaska Fairbanks* speaks to Dr. Pinkava's inspirational approach to education (including Don's comprehensive statement outlining his teaching principles) and how Steffi has incorporated his principles into online systematic botany courses with interactive technology.

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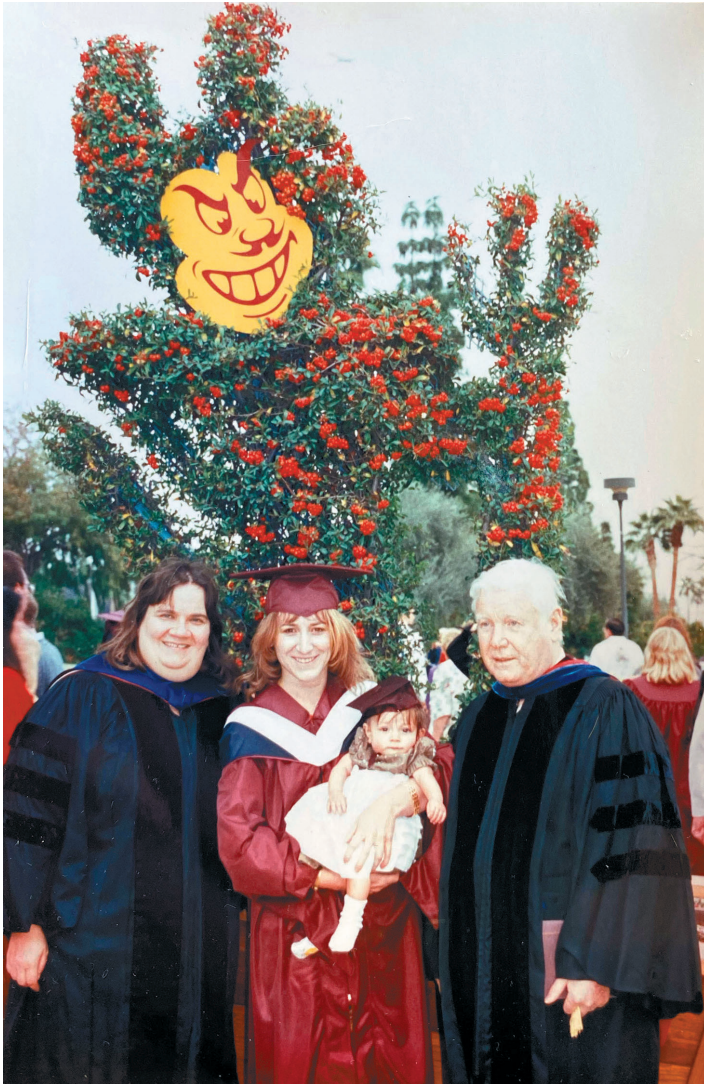
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