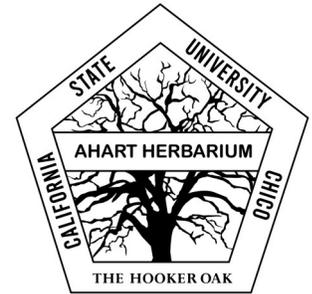


Friends of the Ahart Herbarium

California State University,
Chico



Volume 29 Number 2

October 2023

Fall Newsletter

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Announcing:

Friends of the Ahart Herbarium Annual Meeting

October 19, 2023

7:00—8:30 pm

Virtual Zoom Meeting

Guest Speaker: Rob Preston

Research Associate, UC Davis Herbarium
Botanist and Wetlands Ecologist for ICF Consulting, retired



**“Life in a Dry Climate:
An Overview of
California’s
Geophytes”**

Also updates for:

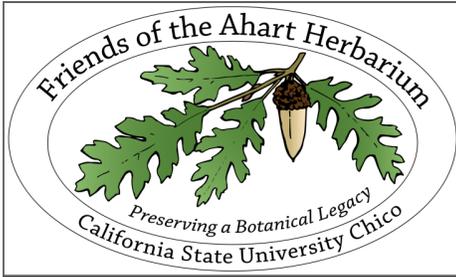
Herbarium, Friends’

“All Things Botanically Related” Presentation Series

Upcoming Workshops

(Check the Friends website to Register and get the Zoom link)

(A recording of the event will also be posted on the Friends website)



The **Friends of the Ahart Herbarium**, California State University, Chico, was formed to help maintain the high quality of work known to be associated with the Herbarium. The primary purpose of the group is to provide community support for the Herbarium. This includes raising funds for items that are not covered under the University budget, in particular the curator's position. Scientific and academic pursuits as well as community outreach are the focus of the group. The Friends also offer low cost workshops and classes on various botanical topics.

The **Friends of the Ahart Herbarium** operates under the auspices of the Chico State Enterprises at the California State University, Chico, and as such enjoys non-profit status and has access to the use of University classrooms and equipment.

Memberships are renewed on January 1 of each year.

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Colleen Hatfield, Herbarium Director
Lawrence Janeway, Herbarium Curator

Newsletter

Volume 29 Number 2

The Newsletter is published two times per year by the **Friends of the Ahart Herbarium**, California State University, Chico. Subscription is free with membership. Submissions on herbarium-related topics are welcome.

Herbarium Update Fall 2023

by Lawrence Janeway, Herbarium Curator

There are a couple of recent happenings in the Ahart Herbarium I would like to share with you. One includes the donation of new herbarium cases and the other includes a significant donation of books and plant presses and supplies.

You may recall from the December 2022 Newsletter that the Dye Creek Preserve (The Nature Conservancy) donated a used herbarium case to our herbarium. Since then, another supporter of the herbarium donated the funds for the herbarium to purchase two new herbarium cases. Those two cases arrived a month or two ago. Those three "new" herbarium cases allow the herbarium to spread out the specimens in the rest of the collection, relieving some of the crowding in the existing cases. I was also able to free up one of the cases being used for project specimen storage, outside of the main herbarium collections room, and we moved it in line with the other three cabinets. With the help of three herbarium volunteers, we were able to move that fourth case from one room into the other. Thank you to Robert Fischer and Alana Raczynski for help with the heavy lifting (aided by a dolly borrowed from the Biology stockroom) and to David Popp for help with logistics. Now volunteers Noelle Davis and Alana are in the middle of shuffling all the herbarium specimens to take advantage of the increased storage space provided by these four new cases. Many thanks are due to the supporter who made the purchase of two new herbarium cases possible and to the herbarium volunteers who are so critical to the functioning of the herbarium.

Late last November Carl Wishner contacted me about donating much of his botany library to the Ahart Herbarium. Soon after that I made a trip to the outskirts of Grass Valley to meet with Carl and Karen Wiese to pick up much of their personal libraries and much more. Apparently they were preparing to move to Washington state and did not want to haul all of these things with them. I didn't anticipate picking up so many boxes of books and herbarium supplies, but fortunately I had driven my truck and had plenty of safe storage space to fit in the many boxes of books and supplies. These books, including most of the foundational resources for California botany, will add greatly to the herbarium library, enrich the libraries of upcoming botany students and young professionals, and earn some much-needed funding for the herbarium and Friends of the Ahart Herbarium. Most notable among the books was a complete set of Flora

(Continued on page 4)



Robert Fisher and Alana Raczynski helping Lawrence set up new cabinets into the herbarium.
Photo: David Popp

12th Annual California Native Plant Photo Contest

Winners and Submissions

Every year, the Friends host a California Native Plant Photo Contest. It is truly inspiring to see the beauty portrayed in the images but also a daunting task to select the best. Below are this year's winners and you can see all entries later in this Newsletter. As you are out taking pictures, keep in mind you might also capture an entry for next year's contest.



2023 Winner: Shane Hanofee—*Cycladenia humilis* var. *humilis* in the alpine barrens of a high mountain peak, Lassen County June 2022



**2023 Honorable Mention:
Ayla Mills
Desert Larkspur—*Delphinium parishii***



**2023 Honorable Mention:
Mary Ann Machi.
Pig a back plant—*Tolmiea menziesii***

(Continued from page 2)

of North America North of Mexico (FNA) volumes, as available at that time (not all volumes have been published yet), minus the two volumes on the bryophytes which Carl needed to keep for his use after moving to Washington. Also notable among the books was a complete set of Intermountain Flora, which is a critical resource for anyone working near or across the state border with Nevada. Also noteworthy was Carl's donation of three excellent plant presses and many press supplies. Many thanks to Carl and Karen for these generous donations!

Thanks also to herbarium volunteer David Popp for sorting through all the boxes of Carl's books and getting those needed in the herbarium library into their proper places. Over the past couple of years David has similarly sorted through numerous boxes and piles of books already in the herbarium, as well as better organized the whole herbarium library.



Carl and Karen Wishner who donated plant presses and a portion of their botanical library.
Photo: Carl Wishner



Sample of the donated books and the three plant presses donated by Carl.
Photo: Lawrence Janeway



“All Things Botanically Related” Presentation Series

We are excited to share the upcoming presentations as part of our monthly presentation series:

October—As shown on the first page of this newsletter, Rob Preston will be presenting on Geophytes at the Friends Annual Meeting .

November—John Whittlesey, garden designer and bee expert, will share his knowledge on bumblebees

January—Kaylie DeLuca, previous Jokerst Award winner, will present on a wet meadow restoration project

February—Andrea Craig, Preserve Manager will share the magic of the Nature Conservancy's Dye Creek and Vina Plains Preserves

March—Steve Laymon, Wildlife Biologist with BLM, will present on Sacramento River Bend including Hog Lake

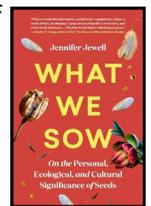
April—Right in time for the spring bloom, Samantha Hillaire, with PG&E and Co-Author of “Wildflowers of Table Mountain, a Naturalist Guide” will present on Table Mountain

We also post recordings of previous presentations on the Friends website. Some of the more recent presentations included:

“*What We Sow: The Personal, Ecological, and Cultural Significance of Seeds*” presented by Jennifer Jewell, author and host of Cultivating Place

“*Eriogonum (Wild Buckwheats) of California with Emphasis on Subgenus Oligogonum*” presented by John T. Columbus, Research Scientist at California Botanic Garden

“*Introduction to Chico State's Conservatory*” presented by Shaine Hill, CSU Chico Biological Sciences Greenhouse Manager



An Inspiration for Collecting Herbarium Specimens

By Lawrence Janeway

Barbara Castro regularly collected plant specimens for eventual donation to and incorporation into the Chico State Herbarium (Ahart Herbarium). Often these collections were made while out exploring northern California with me, her spouse and life partner. But she especially liked to encourage co-workers to make collections and would often take plants brought to her as “what is this?” queries and get enough information about them to turn them into herbarium specimens, giving credit to the collector of course. An example of Barb’s love for collecting specimens comes from the last time she was able to get into the mountains, when she made her last collection, *B. Castro & L.P. Janeway 2323*.

August 25, 2022, as Barb was well into her third year of dealing with cancer, I drove us to Humboldt Summit so that she could experience some mountain and forest air and environment. I was trying to get her into the mountains from time to time, knowing that she had developed a particularly strong life-long bond with our local mountains and forests while she worked for the Plumas National Forest through the 1990s. She was tired much of the time, now, thanks to the cancer and the chemotherapy but was often up for getting into the mountains, even though her explorations couldn’t take her very far from the truck. Little did we know that this would be her last trip into the mountains.

This day we did our usual sort of excursion, eating lunch after arriving at our destination followed by each of us going in different directions to get what exercise we each could. I hiked a couple of miles east along the Pacific Crest Trail, making one collection while on the hike (*L.P. Janeway 13955, Doellingeria breweri*, one of the few plants still flowering there that late in the season), while Barb stayed closer to the truck, soaking in the sights and sounds around her.

On our drive up Humboldt Road to Humboldt Summit, Barb had noted that *Allium sanbornii* was still flowering at one particular rock outcrop along the way and wanted make a collection of it on our way home. I’m not sure why she was so interested in this species that day except that I had made a collection of it the previous month from along Forbestown Road and had shared with her how impressed I was by the flowers’ bright red coloring and the many open flowers forming a very round ball at the top of each stem (*L.P. Janeway 13918*). So on our drive back home from Humboldt Summit we did stop at the rock outcrop, although the parking was poor and we had to drive past the site a ways to turn around and get into parking from the other direction.

(Continued on page 6)



Barb Castro at Humboldt Summit
August 25, 2022
Photo: Lawrence Janeway



Lawrence upslope taking notes
August 25, 2022
Photo: Barb Castro

(Continued from page 5)

Barb did not have enough energy to get up the rocky slope to collect the specimens, so I did the clambering for her to dig out the specimens and also called out associated species to her for her records. We would often help each other with collecting when out in the field together, so this was nothing new except that normally she would have been up the slope herself making this collection. So that's how her last specimen was collected that day. If you know this species, then you know that to key it to species requires knowing that each bulb puts up a single round leaf. The leaves on these plants were very dry and would certainly shatter on pressing, so we misted them and let that soak in to hopefully soften the leaves enough that they wouldn't shatter. You can see from the herbarium specimen that at least one leaf stayed intact through the pressing and drying process.

Barb was fairly well caught up with making labels for her collections when she died but didn't get to this one. Thus, I took the final step of making a label for this specimen and getting it to the herbarium. In addition, I created one more specimen for her, *B. Castro & L.P. Janeway 2324*, *Navarretia leptalea*, that she hadn't intended to be a formal collection. This happened because Barb would often slip pieces of associated species into the newspaper with the intended species as a reminder of the associated species or to make the identification of it later as an associate. Sometimes she would realize later that that associated species from that site really needed to be an herbarium specimen too, for one reason or another, and if the quality of the sample was okay she would then assign it a collection number. That number would usually be the number of the main specimen with a "A" tacked onto it. In this situation with the specimen of *Navarretia leptalea* I could simply assign it the next number: 2324.

I continue to make trips out collecting specimens for the herbarium and to help me improve the next edition of the "Vern Oswald's Selected Plants of Northern California and Adjacent Nevada" book and have had a number of great trips around northern California this year. This continues to be a volunteer activity, of course, but now has a bittersweet aspect to it since Barb accompanied me on many of my past collecting trips, making numerous collections of her own. And, in a way, she is still with me on these trips...



Castro 2323
Allium sanbornii inflorescence
before pressing
August 25, 2022
Photo: Lawrence Janeway

Castro 2323
Allium sanbornii herbarium sheet
Image from CCH2, imaged by
Herbarium staff



Friends of the Ahart Herbarium Field Trips with Mount Lassen Chapter of the CNPS

By David Popp

This year, the Friends of the Ahart Herbarium joined with the Mt Lassen Chapter of CNPS for three field trips. These were to the Concow serpentine, Valley Creek SIA and Vina Plains Preserve. Many thanks go out to Marjorie McNairn, field trip leader for the Mt Lassen Chapter, for her efforts in getting the organizational work done and coordinating with the Lassen Chapter.

The **Concow field trip** was on June 10th and was led by Lawrence Janeway and Linnea Hansen, both retired Forest Service botanists from the Plumas National Forest and with vast knowledge of the flora and ecology of the area. This field trip was a caravan through the serpentine outcrops along Concow Road and Rim Road which cover many different habitats in the serpentine formations. One of the stops was to check on the McNab cypress (*Hesperocyparis macnabiana*), which is listed as a Special Interest species on the Plumas National Forest. The McNab Cypress population in the area burned in the Camp fire of 2018 and previously in the Butte Complex in 2008. The site was visited to check on the status the recovering population from both of these wildfires. Lawrence Janeway mapped the population and Linnea Hanson completed a population status report for Kyle Merriam, Province Ecologist with the Forest Service, with input from the trip participants.



Hesperocyparis macnabiana (McNab cypress) sprout following recent fires. Photo: David Popp



Field trip participants on the Concow serpentine field trip taking a lunch break.
Photo : David Popp

(Continued on page 10)

Diverse seed surfaces of spring annuals grown in native plant gardens

By Michelle Graydon and Rob Schlising

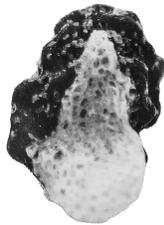
Ten species of California plants have the diverse surfaces of their seeds shown below. These are all annuals, and all but one (*Consolida*) are native to California. These seeds are planted each fall in our gardens in Chico, without our really being able to see their interesting surfaces up close. Seeds are shown magnified up to 15 or 20 times. Real-life length is listed in millimeters (1 mm = 1/25 inch).



Lupinus microcarpus. Chick lupine. Can the mottled pattern on the seed coat serve as camouflage when the seed lies on the ground as prey for seed eaters? (Diameter = 4-5 mm)



Collinsia heterophylla. Chinese houses. Each seed is shallow cup-shaped and has a fine network pattern over its entire outside surface. (Diameter = 2.5-3 mm)



Nemophila menziesii. Baby-blue-eyes. The dark, knobby surface has a mound of pale cells at one end that serves as an ant-attracting elaiosome. (Length = 2 mm)



Mentzelia lindleyi. Lindley's blazingstar. Seeds look like little granite rocks, and surfaces have a delicate pearly pattern. (Length = 1-2.5 mm)

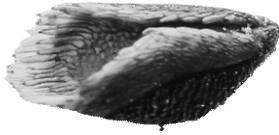


Layia platyglossa. Coastal tidy tips. Each "seed" is actually a tiny fruit from a dense head of flowers. The feathery pappus may help with dispersal. (Length without pappus = 4 mm)



Phacelia tanacetifolia. Tansy-leaved phacelia. The bumpy surface is quite uniform all over the seed of this popular spring flower. (Length = 2.5-3 mm)

(Continued from previous page)



Clarkia breweri. Brewer's clarkia. Seeds are very neatly stacked single file in the narrow fruit (capsule). Each closely fit seed has one feathery, cupped end. (Length = 2 mm)

Clarkia rhomboidea. Diamond clarkia. This clarkia has seeds that look "furry" up close, due to two types of matted hairs on parts of the surfaces. (Length = 1.5 mm)



Amsinckia intermedia. Common fiddleneck. The pebbly surface is composed of ovary wall. The large scar shows the attachment point to the receptacle. (Length = 2-3.5 mm)

Consolida (=Delphinium) ajacis. Doubtful knight's spur. Seeds of this non-native species have rows of small scales over the entire bell-shaped form. (Length = 2 mm)



Upcoming Workshop: Native Plant Wreath and Other Holiday Accents

Saturday, December 19, 2023 9:00—5:00

Workshop Leaders:

Jennifer Jewell and Adrienne Edwards

Many of our native chaparral shrubs and forest trees are ever-green, and species like native sages can remain fragrant for years after drying? Workshop leaders Jennifer Jewell and Adrienne Edwards will be your guides in helping you create your own holiday wreath, kissing ball, or garland while also learning more about local native plants!



Scene from 2022 Wreath Workshop
Photo: Colleen Hatfield

(Continued from page 7)

Some of the interesting plants observed on the Concow serpentine field trip included:

Aphyllon fasciculatum (Clustered broom-rape)

Frasera albicaulis var. *nitida* (White-stem Swertia)

Brodiaea sierrae (Sierra Foothills brodiaea)

Hesperocyparis macnabiana (McNab cypress)

Calystegia occidentalis (Western morning-glory)

Lilium humboldtii (Humboldt lily)

Erigeron petrophilus var. *sierrensis* (Sierra rayless daisy)

Packera eurycephala var. *lewisrosei* (Lewis Rose's ragwort)

Eriogonum umbellatum var. *ahartii* (Ahart's buckwheat)

Penstemon azureus (Azure beardtongue)

Erysimum capitatum (Western wallflower)

Streptanthus polygaloides (Milkwort jewelflower)

Festuca californica (California fescue)

The **Valley Creek Botanical Special Interest Area** field trip on July 28th was led by Emily Doe, Plumas National Forest District Botanist and Friends of the Ahart Herbarium President, and Marjorie McNairn from the Mount Lassen Chapter of the California Native Plant Society. The Valley Creek Botanical Special Interest Area contains one of the closest resemblances of Sierra Nevada mixed conifer old growth forest in the Northern Sierra Nevada Mountains. The trip was a short hike down into the watershed on an easy trail hike, about 1.5 mile circular trail that looped back. This allowed us to see many different plant microhabitats and thus a range of plant diversity.

Some of the interesting plants observed at Valley Creek Botanical Special Interest Area are listed on the next page in this newsletter.



Lilium pardalinum spp. *pardalinum* (Leopard Lily) - far left and *Platanthera dilatata* var. *leucostachys* (White Bog Orchid) - Valley Creek Botanical Special Interest Area plants:
Photos: David Popp

(Continued on page 11)

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Valley Creek Botanical Special Interest Area List:

<i>Actaea rubra</i> (Red baneberry)	<i>Lilium pardalinum</i> ssp. <i>shastense</i> (Shasta lily)
<i>Amelanchier alnifolia</i> (Pacific service-berry)	<i>Linnaea borealis</i> var. <i>longiflora</i> (American twin flower)
<i>Athyrium filix-femina</i> var. <i>cyclosorum</i> (Western lady fern)	<i>Notholithocarpus densiflorus</i> var. <i>echinoides</i> (Dwarf tan-oak)
<i>Boykinia major</i> (Mountain brookfoam)	<i>Pedicularis racemosa</i> (Leafy lousewort)
<i>Circaea alpina</i> ssp. <i>pacifica</i> (Enchanter's nightshade)	<i>Penstemon roezlii</i> (Roezl's beardtongue)
<i>Clintonia uniflora</i> (Bride's-bonnet)	<i>Platanthera dilatata</i> var. <i>leucostachys</i> (White-flowered bog-orchid)
<i>Corallorhiza maculata</i> (Spotted coralroot)	<i>Sceptridium multifidum</i> (Leather grape-fern)
<i>Goodyera oblongifolia</i> (Rattlesnake-plantain)	<i>Thalictrum fendleri</i> (Meadow-rue)

The **Vina Plains** field trip was on August 12th. Elena Gregg led this fieldtrip with her vast knowledge of vernal pool habitat. Many would think that there would be little to see but many were pleasantly surprised. The field trip was done at this time to see the federal- and/or state-listed *Orcuttia pilosa*, *Tuctoria greenei* and *Euphorbia hooveri* that are found in the dry vernal pools on the preserve. This was an easy walk on flat terrane except for the occasional uneven areas of cow footprints.

<i>Asclepias eriocarpa</i> (Indian milkweed)	<i>Euphorbia hooveri</i> (Hoover's spurge)
<i>Asclepias fascicularis</i> (Narrow-leaved milkweed)	<i>Hemizonia congesta</i> ssp. <i>luzulifolia</i> (Hayfield tarweed)
<i>Centromadia fitchii</i> (Fitch's spikeweed)	<i>Marsilea vestita</i> ssp. <i>vestita</i> (Hairy pepperwort)
<i>Croton setiger</i> (Turkey mullein)	<i>Orcuttia pilosa</i> (Hairy Orcutt grass)
<i>Eryngium castrense</i> (Great Valley coyote-thistle)	<i>Tuctoria greenei</i> (Green's tuctoria)



Left: Elena Gregg talking about the vernal pool ecology. Above: *Euphorbia hooveri* Hoovers spurge
Photos: David Popp



Report on Friends Previous Workshops

Butterflies of Butte County and Their Larval Host Plants

Workshop Leader—Dr. Don Miller

By Michelle Graydon

On a beautiful Thursday morning in early June around fifteen lucky individuals gathered in the Ahart Herbarium in Holt Hall to learn about the dynamic and magical world of Butte County's butterflies and the host plants they depend upon. Dr. Don Miller, entomologist, introduced us to this invertebrate order, Lepidoptera, and their ecology, biology and natural history. Dr. Miller has a life-long love of all things butterflies and has studied them extensively throughout the world. He has been teaching in the Biological Sciences department at CSU Chico for over twenty-five years and has expanded his interests to include the ecology and evolution of gall aphids on manzanitas.

The participants had a hands-on, engaging and fascinating morning, being introduced to what makes an insect a butterfly. Butterfly life cycles, ecology, and the special features of their anatomy, including sexual dimorphism and mimicry, were discussed as well as an overview of their five major families. Workshop time was allotted for looking at a large collection of specimens and using the dissecting microscopes available at each station to examine scales, antennae and other features.

Herbarium specimens were also laid out for participants to use to examine butterfly larval host plants. Additionally, a useful handout grouping these host plants for selected Butte County species was made available.

As part of the discussion of specific host plant/larva relationships, the Pipevine Swallowtail butterfly was introduced, and its larva passed around. Pipevine Swallowtail, or *Battus philenor*, larvae only consume the native vine *Aristolochia californica*, also known as Dutchman's Pipe. Endemic to California, a central and northern population of Pipevine Swallowtails, *B. philenor hirsuta*, is isolated from the rest of the range and considered a separate subspecies. It is this subspecies you find in Butte County.

Aside from their intrinsic value, butterflies play an ecological role in plant pollination, and their larvae provide food for a huge variety of birds and other wildlife. Therefore, learning what to plant to attract and provide for them was a bonus of attending.

Dr. Miller has led the annual North American Butterfly Association field count at the Big Chico Creek Ecological Reserve for the past six years. This is a volunteer effort to survey this area consistently over time, furthering the understanding of these iconic insects and their species representation and population numbers. Workshop participants had the opportunity to join the count the following day. Splitting into groups, we walked the trails looking for butterflies and counting each species we observed or netted. Swinging a net and catching a fast and erratically flying butterfly takes more skill than you might think!



Pipevine swallowtail butterfly

Photo: Michelle Graydon

Introduction to the Willows of California (Salicaceae)

Workshop Leader—John Bair

By David Popp

The Salix workshop was taught by John Bair on June 24, 2023, Saturday, at the Ahart Herbarium from 9 to 5. John Bair is a recognized expert in willow and cottonwood taxonomy and physiology. The workshop was fully attended

(Continued on page 13)

(Continued from page 12)
with 20 students.

Many samples of fresh willow specimens were available for each member of the workshop to see and identify. John provided a copy of the Jepson Manual key for each attendee to use as opposed to hauling the Manual to the workshop. The Jepson Manual was used to key plants in the traditional manner and to have a description of the each taxon (33 *Salix* taxa were covered including 3 common introduced species). What made this workshop different than the classic dichotomous key for identification was John's use of a multi-entry matrix key and a cross-sectional diagram of the general locations of willows as one transverse California from the coast to the sagebrush desert, and a location matrix where each species could be found. These handouts made identification easier. This approach is what made the workshop for identification of willows different and easier to accomplish.



In addition to the introduction of willow botany and ecology, there was an instructional explanation on how to choose the key parts of willows for identification. There were handouts of different willow keys in parts of California and distribution maps and various books about willows on display. A bonus booklet, "Field Guide to the Common Riparian Trees and Shrubs of the Lower Trinity River", was provided for each attendee by John. A bonus section of the workshop dealt with the genus *Populus* in California which covered identification and distribution for each taxon.

The workshop began with a brief presentation focusing on the overall willow family taxonomy, ecology, recent taxonomic changes in the second edition of The Jepson Manual, geographic distribution, key identification characteristics and brief overview for the uses of willows and cottonwoods in restoration projects. Fresh material of cottonwoods and willows were available to illustrate the variety of vegetative and flowering characteristics used in The Jepson Manual 2 keys.

This Willow workshop was an informative and innovative. John's enthusiasm showed during the workshop, especial his lunch, which he used to work with those who chose to stay and with ones that stayed after for willow conversation.



John Bair and workshop attendees. Photo: David Popp



Entries for the 2023 Native Plant Photo Contest

By Tim Hanson

In addition to the contest winners mentioned earlier, below are the remaining entries. For a more detailed view, check out these beautiful images on the Friends website under Photo Contest. Enjoy!



Iris missouriensis, High Desert Iris
Paul Davis



Gold Fields, Walker Creek area
near Twin Oaks, CA
Mike Dolan



Pholisma arenarium
Moe Donnelly



Sisyrinchium bellum in
a native plant garden
Jola Fishman



Yellow-faced Bumblebee on
Collinsia heterophylla in my garden
Michelle Graydon



Dudleya cymose
Upper Bidwell Park—May 2023
Deborah Halfpenny



Medicinal herb White
Sage (*Salvia apiana*) at
dusk
Alucero Juarez



Silver cholla and rainbow over
the White Mountains
Gaylene Kinzy



Triantha occidentalis, western false
asphodel, being visited by common
buckeye
Junonia coenia
Len Lindstrand III



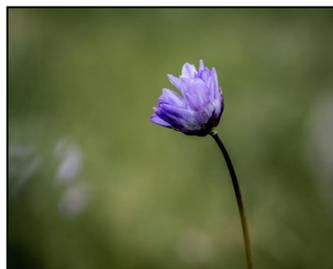
Superb Mariposa Lily
Robert Nance



Santa Ynez Groundstar, a
tiny treasure
Kristen Nelson



Spring at Coyote Ridge
Christal Niederer



Blue Dicks
(*Dipterostemon capitatus*)
Harold Paine



Vernal pool
Downingia bicomuta
Barbara Peck

(Continued on page 15)



Pollinator flyover on
Endangered Stebbins'
Morning Glory
Jake Picardat



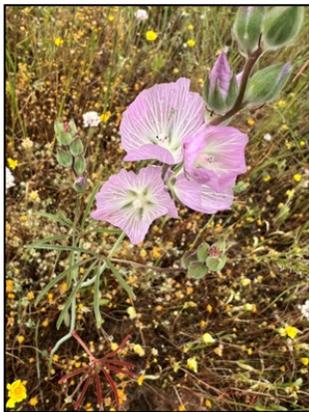
Moundain Medley
Anna Prang



Pterospora andromedea
breaking ground after winter
in Tahoe National Forest
Kristen Quigley



Castilleja exerta
Malak Saleh



Sidalcea hirsute
Shawn Spani



Calochortus greenei bloom-
ing on Tertiary volcanics at
the confluence of the
Southern Cascades and the
Modoc Plateau
Morgan Stickrod



Leptosyne calliopsidea
Sharon Strauss



Lovejoy
Garth Talbott



Poppy Palette
Elise Theriault



Caulanthus inflatus and *Mentzelia*
pectinate in Temblors
Ellen Uhler



The inflorescence of a
snow plant (Sarcodes
sanguinea) graces the
coniferous flores floor
ini Sequoia National
Park.
Dean Wu



Silene nelsonii —
a rare serpentine endemic
CJ Cooper



Albiflora Pacific Bleeding Heart
(*Dicentra formosa*) Kaden Ashdown



Yes, I Would Like to Join/Renew/Contribute!

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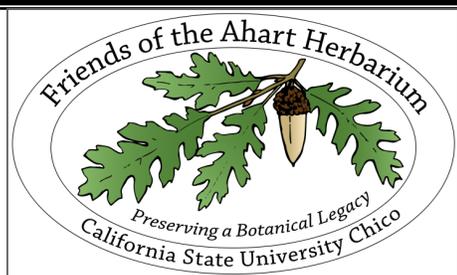
Please make your check payable to: Chico State Enterprises (include membership and/or donation on the memo line).

The Chico State Enterprises is a 501c(3) non-profit organization.

Mail to: Ahart Herbarium, c/o Biological Sciences Dept., California State University—Chico, Chico, CA 95929-0515

Friends of the Ahart Herbarium

October 2023



Friends of the Ahart Herbarium
California State University, Chico
Chico, CA 95929-0515
(530) 898-5356