

THE JEPSON GLOBE

A Newsletter from the *Friends of The Jepson Herbarium*

VOLUME 18 NUMBERS 1 and 2 September 2007

News from the Collections: The Charterhouse Herbarium

Following my arrival as new Administrative Curator in March 2006 (see *Globe* vol. 17 no. 1) came another British arrival, the permanent loan of a Charterhouse School Herbarium from Godalming in Surrey, England (with the interesting Index Herbariorum acronym of GOD). This small herbarium (around 8,000 specimens) of bound volumes and folders dates back to the late eighteenth century and includes specimens from all over the British Isles and also collections from Europe, the Middle East, South Africa, and east coast United States. The collections are particularly significant because they document the flora of Greater London during a time of great expansion and many specimens represent species no longer found in London and surrounding counties. The collection also contains seven fascicles of the *Flora of the Neighborhood of Godalming* or the “*Surrey Folios*” by John Drew Salmon (1802—1859), which served as the basis for James Brewer’s *Flora of Surrey* (1863), one of the first British floras that established the format that is now familiar in British local floras.

Highlights from the collections include poet botanist William Gardner’s *Illustrations of British Botany* (see image, p. 8). This bound collection includes an immaculate presentation of algae, lichens, bryophytes, and vascular plants.

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Anna Larsen, 2007

Welcome! Anna Larsen New Education Coordinator

by Staci Markos

In July 2007, Anna Larsen joined the staff of the Jepson Herbarium as Coordinator of Public Programs. Anna will have many responsibilities but the primary component of her new position will be to develop and implement the 2008 workshop season. The full schedule will be available this fall and from the classes that she has planned so far, I can see that 2008 will be an exciting workshop season!

Many of you may have met Anna when she served as Interim Coordinator in 2005. When I asked her what she enjoyed most about that position she said “I love the people, the places we go, the plants we get to see and I love the sense of community.” When the position of full-time coordinator became available this summer, Anna was eager to apply.

Continued on page 7.

An update from the Consortium of California Herbaria

by Sula Vanderplank

Rancho Santa Ana Botanic Garden

The Consortium of California Herbaria was developed to serve as a gateway to information from California vascular plant specimens that are housed in herbaria throughout the state. Currently, ~860,000 specimens from twelve collections (CHSC, DAV, IRVC, PGM, RSA-POM, SBBG, SD, SJSU, UC-JEPS, UCR, UCSB, and UCSC), are all searchable through a single interface <http://ucjeps.berkeley.edu/consortium/>. Four more collections (OBI, HSC, CDA, and CAS-DS) will be joining in the near future. The participating institutions cooperate under the guidelines of a memorandum of understanding, and participation as a data provider to the Consortium database is open to California herbaria that meet

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ALSO IN THIS ISSUE

-  Weekend Workshops in Review
-  Awards and Honors
-  New Flora Project Staff
-  TJM2 treatments ready for review
-  Thank you to recent donors
-  Graduation
-  Announcements & Volunteer Opp.

Awards and Honors Received



BOTANICAL SOCIETY OF AMERICA

MERIT AWARD

The Botanical Society of America Merit Award is the highest honor the Society bestows. The award was instigated at the 50th Anniversary Celebration of the Botanical Society in 1956. At the 2007 national meetings in Chicago, the Botanical Society of America presented its prestigious Merit Award to Bruce Baldwin, Curator of the Jepson Herbarium and Professor of Integrative Biology.

“Dr. Bruce Baldwin is recognized for his contributions in plant systematics. Beginning in graduate school, Dr. Baldwin studied one of the icons of island biogeography, the Hawaiian Silversword Alliance. His dissertation work using chloroplast DNA was one of the pioneers on island plant groups and confirmed that this morphologically diverse group represented a single colonization event from ancestors in North America. Baldwin reconfirmed these results using nuclear genes, the internal transcribed spacer (ITS) region. His development of ITS for plant phylogenetic study is perhaps his most widely recognized contribution. Less well-known outside of California is that Dr. Baldwin has made major contributions to plant floristics, through his efforts editing the Jepson Desert Manual and the 2nd edition of the Jepson Manual of California plants. For his many contributions to the systematics of Asteraceae, Hawaiian plant biogeography and evolution, and advances in molecular systematics, the BSA is pleased to recognize Dr. Bruce Baldwin with its highest award.”

Bruce is also **President-elect** for the American Society of Plant Taxonomists.

STUDENT AWARDS

The American Society of Plant Taxonomists has selected **Abby Moore** as recipient of a Graduate Student Research Award for her population genetic study of the genus *Grindelia* (Compositae).



Eric Harris was First Runner-up for the A.J. Sharp award at the American Bryological and Lichenological Society (ABLS) meeting in Xalapa Mexico, given for the best student presentation. His presentation was: “Bryophytes used in traditional Chinese medicine.”

Left: Eric in the alpine zone (~14,000 ft.) on the Cofre de Perote volcano in Veracruz, Mexico.
Photo by Brent Mishler.



Lawrence R. Heckard Fund of The Jepson Herbarium

Each year, the Heckard Fund Committee awards research grants to UC Berkeley faculty, students, and staff to continue research on the systematics of California's vascular plants. Ten grants, totalling \$37,461, were awarded in 2007. Below is the list of successful applicants.

Ackerly, David, Digitization of Baker seed data (for Ecological Flora)

Baldwin, Bruce, Tarweed systematics
Bolmgren, Kjell, *Rhamnus/Frangula* comparative ecology

Driscoll, Heather & Chelsea Specht, Californian *Allium* systematics

Barbara Ertter, Potentilleae floristic treatments

Moore, Abigail *Grindelia* systematics

Park, Michael, *Collinsia* systematics
Shuldman, Michael, Comparative ecology of woody California endemics

Simms, Ellen, Phylogenetic and population studies in *Lupinus*

Stuart, Stephanie, Comparative studies of cold adaptation in Sierran plants

Lawrence R. Heckard, Curator of the Jepson Herbarium from 1968 to 1991, significantly increased our knowledge of Scrophulariaceae, especially the Castillejeae. A generous bequest by Dr. Heckard established the Lawrence R. Heckard Endowment Fund of the Jepson Herbarium. Each year, the Heckard Fund provides valuable resources for researchers.



**Edith Summers,
Administrative Assistant**

Edith became interested in botany while she was an undergraduate student at University of Michigan. Soon after graduation, she joined the Peace Corps, something she had wanted to do since she first heard about it as a kid. Her post was in Niger where she worked in an arid-land reforestation project.

She was fascinated by the flora and fauna there, some wonderful, some not so pleasant. The bird life was amazing — weaver finches building giant communal nests right outside the house, several kinds of sunbirds, rollers, hoopoes, and many more. A hedgehog visiting her house was delightful — after all, they are supposed to eat scorpions, but the giant rats were sometimes unwelcome guests; however the neighbors were happy to come and catch them, because they were supposed to be good eating. Giant cockroaches were more unwelcome than the rats, because they could fly, but not very well, so they often as not ended up in her skirt when they tried to fly away from her.

Since then Edith lived in Newfoundland, where she married Chris Meacham, and Georgia, where they started their family. Now that the kids are basically grown, she looks forward to spending more time in the field! 🍷

New faces in the Jepson Herbarium



Rob Preston, Contributing Author

Rob joined the Jepson Flora project in October, 2006, to serve as contributing author for groups that do not currently have a recognized expert. Rob brings to the project a unique blend of field knowledge, identification and writing skills, familiarity with many regions of California, and experience with rigors of academic publishing.

Rob is a native of Northern California where he grew up spending much time exploring the fields and woods near his home. Summer vacation camping trips to various remote locations in the north state, such as a week at the summit of Ball Mountain, in Siskiyou County, where his grandmother was a fire lookout for the Forest Service, also fostered a deep appreciation for nature. After high school, he served three years in the U. S. Army as a Chemical Laboratory Specialist working in a chemistry lab in Denver, Colorado. That experience convinced him that any future career for him in science had to have a strong field component.

Returning to California, Rob enrolled at California State University, Chico, majoring in Biology (later adding Chemistry as a second major). At Chico, he connected with the enthusiastic botanical community there that was active in ecology, floristics, and rare plant conservation. Many of those



Scott Simono, Editorial Assistant

Scott comes to California via North Carolina, where he grew up and formed his attachment to native plants in the forests of the Piedmont hills and Appalachian Mountains. He originally attended the University of North Carolina, Chapel Hill, but left to roam the south, learning to cook and apprenticing as a decorative painter and restorer in the process.

He moved to California in 1995, working as a decorative painter in San Francisco. Collecting orchids, exploring the parks and gardens of his new home, and hiking the forests and coastal prairies of Mount Tamalpais, he realized his first love was botany. In 2001, he returned to school to get a BS in Botany at San Francisco State University, studying with Bob Patterson and Gretchen LeBuhn on projects like the molecular systematics of *Linanthus dichotomus* and the ecology of montane meadows in the northern Sierra Nevada.

In 2005, Scott left CA to pursue a Ph.D. in Molecular Plant Systematics at Cornell University and the New York Botanical Garden, only to return a year later to the flora and landscapes of California. Reconnecting with friends and the beauty of California, he hopes to pursue a career that allows him to enjoy the natural wonders of our state and the west. He is honored to participate in the production of the new edition of the Jepson Manual, a book that has been a companion and teacher to botanists, both amateur and professional, for almost two decades. 🍷

Second Edition of *The Jepson Manual: Vascular Plants of California* Treatments for public viewing

The treatments below have undergone both technical and scientific editing within the Jepson Flora Project and are, in the view of the author or authors as well as the Jepson Flora Project Staff and the Jepson Flora Project Editors, ready for public viewing. They are posted on the web at: <http://ucjeps.berkeley.edu/jepsonmanual/review/>. New treatments will be added as they become available. Please forward any comments you may have about these treatments to the Scientific Editor, Dr. Thomas Rosatti (rosatti@berkeley.edu).

Adoxaceae

Sambucus
Viburnum

Araceae (Lemnaceae)

Landoltia
Lemna
Spirodela
Wolffia
Wolffiella

Betulaceae

Alnus
Betula
Corylus

Burseraceae

Bursera

Calycanthaceae

Calycanthus

Celastraceae

Euonymus
Maytenus
Mortonia
Paxistima

Cistaceae

Cistus
Helianthemum
Tuberaria

Convolvulaceae

Cuscuta
Ipomoea

Cupressaceae

Callitropsis
Calocedrus
Chamaecyparis

Juniperus

Thuja

Dipsacaceae

Dipsacus
Scabiosa

Fouquieriaceae

Fouquieria

Geraniaceae

Geraniaceae
Geranium
California
Erodium

Gunneraceae

Gunnera

Lentibulariaceae

Pinguicula
Utricularia

Linnaeaceae

Linnaea

Lythraceae

Ammannia
Lythrum
Punica

Rotula

Meliaceae

Melia

Melanthiaceae

Stenanthium
Xerophyllum

Myrsinaceae

Anagallis
Glaux
Lysimachia

Trientalis

Myrtaceae

Chamelaucium
Eucalyptus
Leptospermum

Luma

Melaleuca

Myrtus

Syzygium

Nitrariaceae

Peganum

Nyctaginaceae

Abronia
Acleisanthes
Allionia

Anulocaulis

Boerhavia

Mirabilis

Tripterocalyx

Orchidaceae

Listera

Ophioglossaceae

Ophioglossum

Papaveraceae

Hesperomecon

Meconella

Platystemon

Parnassiaceae

Parnassia

Phytolaccaceae

Phytolacca

Pontederiaceae

Eichhornia
Heteranthera
Monochoria

Primulaceae

Androsace
Dodecatheon
Primula

Salicaceae

Salix

Sarraceniaceae

Darlingtonia
Sarracenia

Saururaceae

Anemopsis

Smilacaceae

Smilax

Styracaceae

Styrax

Tamaricaceae

Tamarix

Theophrastaceae

Samolus

Tropaeolaceae

Tropaeolum

Viscaceae

Arceuthobium
Phoradendron
Viscum

Zingiberaceae

Hedychium

Zygophyllaceae

Fagonia
Kallstroemia
Larrea

Tribulus

Zygophyllum

Support for the Jepson Flora Project and the Second Edition of *The Jepson Manual*

We continue to be thankful to supporters of the Jepson Flora Project and the effort to produce the second edition of *The Jepson Manual*. Since January 2006, the following individuals, foundations, and agencies have joined the sponsorship program by pledging or giving \$1,000 or more. We sincerely thank each of them and will be pleased to acknowledge each one in the front pages of the new *Manual*.

INDIVIDUALS

\$10,000 - \$15,000

Wilma C. Follette
Lowell Ahart

\$5,000 - \$9,999

Heath Bartosh and Nomad Ecology Ericaceae and the San Francisco Bay Area subregion

\$2,500 - \$4,999

Kenneth Fuller in memory of Thomas C. Fuller

\$1,000 - \$2,499

anonymous	<i>Pogogyne</i> , in memory of G. Bentham and W. Kelly
F. Thomas Biglione	<i>Populus</i>
Richard and Trisha Burgess	<i>Imperata</i>
Margaret Colbert	<i>Dodecatheon</i> , in memory of Richard & Sue Colbert
Ellen Crumb	<i>Ceanothus</i> , in memory of and thankfulness for Howard E. McMinn and his student Marie Louise Elliott Locke and their teaching
Claire Englander	<i>Viola</i> , in memory of Ralph Marco Boemio, Frances and Herman Englander, and Margaret Condliffe Kessler
Garcia & Associates	<i>Lasthenia</i>
John Gibson	<i>Pedicularis</i> , in honor of Dr. J. Robert Haller
Ann Howald	Violaceae
R. John Little	<i>Lewisia</i>
Irene Miura	<i>Streptanthus</i>
J. Fraser and Helen Muirhead	<i>Hesperolinon</i>
Natural Diversity Database, (DFG)	<i>Carpenteria</i>
Charles and Kati Quibell	<i>Iris</i>
Suzanne Schettler	<i>Eschscholzia</i>
Loretta Schield	<i>Artemisia</i>
Peter N. Slattery	<i>Mimulus</i>
Robert K. Vickery	<i>Rubus</i>
Norm and Cathy Weeden	

FOUNDATIONS AND AGENCIES

\$50,000 and above

Preserving Wild California (PWC) program of the Resource Legacy Fund Foundation

\$25,000 - \$49,000

Bureau of Land Management, California State Office

\$5,000 - \$24,999

USDA Forest Service, Shasta-Trinity National Forest



2007 Weekend Workshops in Review



Paul Mitchell, John Game, and Thor Henrich study a challenging shrub at the Eastern San Diego and Imperial Co. work-

The 2007 season is complete and we would like to extend our gratitude to our instructors, chefs, and participants for another year of spectacular workshops!

A special thanks to field leader Heather Driscoll.

See you next year!



Chef Dennis Ha prepares another delicious breakfast at the Flora of the Great Basin workshop.



On the Panamint Mountains workshop, Gary Monroe lines up his shot of *Astragalus* sp.



Jim Holland leads a participant in “keying by lantern light” at the Flora of the Great Basin workshop.



Panamint Mountains Flora workshop instructor Dana York lines the group up for a field lecture at “the Kilns.”

(Photos courtesy of Anna Larsen, Scott Simono, Cynthia Perrine, and Irene Wibawa)

Anna attributes her interest in science to her early introduction to the natural world – she grew up in rural Vermont about a mile from the Canadian border and she spent a lot of time in the woods behind her house catching monarch butterflies and climbing trees. Anna developed a strong interest in botany as an undergraduate at Skidmore College when she took a non-majors course ‘Biology of the Green World.’ This course opened her eyes to how closely the lives of people and plants are intertwined and led Anna to the popular literature on medicinal plants. Her interests continued to develop and eventually she came to UC Berkeley where she has pursued (and almost completed!) her Ph.D. studying the prehistorical co-movement of plants and people in Oceania.

During her dissertation studies, Anna traveled to the Society Islands, Samoa, American Samoa, Tonga, Indonesia, and Hawaii. She also lived in Australia for a year as an undergraduate. Through all of these travels, Anna has gathered many interesting stories to share around the campfire!

Anna has also been very active in the field of science education. She has taught various courses for UC Berkeley undergraduates including General Biology, Medical Ethnobotany, and the Biology and Geomorphology of Tropical Islands. She co-taught a natural history course for middle and high school biology students at Richmond High School and Adams Middle School. Most recently, she was an instructor for Project POSIT’s Summer Institute, a professional development partnership between the Oakland Unified School District and partner organizations, including the Berkeley Natural History Museums.

Each coordinator brings their own expertise to the position and we encourage each one to pursue their own professional interests. When I asked Anna how she would like to see Jepson’s education program develop, she said “I would love to see the program

expand to include more opportunities for kids (or their science teachers) to get involved in nature and natural history. By the time they reach middle school, students are primed to understand how science works and they still have the energy and enthusiasm for getting involved. That’s the age when you can catch their interest. Kids really come alive when they get the chance to get out of the classroom and get into nature.”

Welcome Anna, we all look forward to working with you as you continue the excellent tradition of the Jepson workshop program and expand the opportunities for a new audience!



California Botanical Society

Schedule of Lectures

7:30 P.M.; 2063 Valley Life Sciences Building, UC Berkeley

September 20 Biocultural Systems and Ethnobotany of California

Tom Carlson, Department of Integrative Biology, and University and Jepson Herbaria, UC Berkeley

October 18 Research and Building Programs at the Santa Barbara Botanic Garden

Edward Schneider, Executive Director, Santa Barbara Botanic Garden

November 15 Sustainability and the Living Roof at the New California Academy of Sciences

Frank Almeda, Department of Botany, California Academy of Sciences

More information:
<http://www.calbotsoc.org/>

THE JEPSON HERBARIUM PROJECTS & RESOURCES

The Jepson Flora Project

Second Edition of *The Jepson Manual*
Online Interchange for California Florisites
Jepson Desert Manual

Online Horticultural Database
Electronic Publication of Jepson’s
A Flora of California

Ecological Flora of California

Publications & Research Projects

Constancea: University of California
electronic publications in botany

DeCew’s Guide to the Seaweeds

Flora of Mount Diablo

Unravelling the dynamics of mating-system
evolution in tribe Collinsieae

Building the Tree of Life—A National Resource for Phyloinformatics and Computational Phylogenetics

Deep Green Plant Phylogenetics: Novel Analytical Methods for Scaling Data from Genomics to Morphology

Beyond “Deep Green”: Towards an Integration of Plant Phylogenetics and Plant Genomics

Demography and Germination Ecology of the Endangered Santa Cruz Tarplant
Phylogeny and evolution of the true thistles, genus *Cirsium* (Compositae)

Niche conservatism, functional trait evolution, and the diversification of the California vernal pool flora

Educational Services & Resources

Botanical Workshops & Courses

Plant Identification

2,200,000+ Worldwide Plant Specimens

Botanical Library & Slide Collection

Administration

Trustees: Vice Chancellor Emeritus Roderic Park, Chairman; Vice Chancellor Beth Burnside (on leave); UC Botanical Garden Director, Paul Licht; Professors John Taylor and Brent Mishler (ex officio)

Director: Professor Brent Mishler

Curator: Professor Bruce Baldwin
Project Research Sp.: Jeff Greenhouse

Webmaster: Chris Meacham

Manag. of Collections Data: Richard Moe

Scientific Editor: Tom Rosatti

Admin. Assistant: Edith Summers

Managing Editor: Margriet Wetherwax

Research Associate: Bridget Wessa

Administrative Curator: Andrew Doran

Senior Museum Preparator: Ana Penny

Assistant Museum Scientist: Kim Kersh

Public Programs: Anna Larsen

Project Manager, Development Coordinator & Globe Editor: Staci Markos



the minimum requirements for data inclusion.

Planning workshop in Asilomar

Earlier this year, the Consortium of California Herbaria (CCH) was fortunate enough to receive funding from the National Science Foundation's program for Biological Research Collections, to hold a workshop meeting for Herbarium Curators in California (potential and existing Consortium members) to discuss the future of the Consortium. The meeting was held 18—20 March, 2007 at Asilomar Conference Grounds in Pacific Grove, California, and included 28 people from 16 California herbaria, plus an invited speaker (Zack Murrell) from the South-Eastern Regional Network of Expertise in Collections (SERNEC).

There were three primary goals of the workshop: (1) To assess the potential growth of the Consortium (more institutions, more specimen records), (2) To identify the long-term needs of the botanical community in California and discuss areas of most critical need, and (3) To produce an outline for a larger strategic plan to address statewide priorities and move the herbarium community of California forward.

Topics discussed included: Databasing; Recruitment; Consortium Display; Consortium Administration; Imaging Standards; Geo-referencing standards and localization; Ideas for a tool box for smaller herbaria; and strategic plans for the first six months, the end of 2008, 2011, and 2020.

Already two of the agreed products of this workshop have come to fruition: 1) A state-wide grant proposal involving 14 institutions was submitted to the National Science Foundation this summer, seeking to improve the Consortium interface and database the invasive plants of California; 2) An online index of California herbaria is now available to the community to update information on the status of collections in the state. Consortium representatives have been contacting smaller local collections to encourage participation. <http://ucjeps.berkeley.edu/db/calherbaria/> 

Further investigation has revealed the presence of around 8 volumes (previously recorded as two) of the Reverend Tullie Cornthwaite (1807—1878) from the exclusive Forest School in Walthamstow (North East London). Cornthwaite's collections reveal fascinating and largely undiscovered connections with leading botanists of the day and even include collections by William Bartram (1739—1823)

of Philadelphia included in Frederick Pursch's *Flora Americana Septentrionalis*, 1814. This interesting collection will be housed separately in UC due to its bound nature and closely correlated collections. Many of the volumes are also oversized and will be stored in a custom designed cabinet. With the historical side of the collections still unraveling, I anticipate launching new web pages highlighting developments with this

collection and working closely with conservators on campus to document/curate the volumes and specimens. Anyone interested in finding out more about The Charterhouse Herbarium should contact me at andrewdoran@berkeley.edu.

The University & Jepson Herbaria thank Dr. David Holloway and Charterhouse School for this generous addition to our collections. 



William Gardiner from Dundee often shows his artistic side with his fanciful introductions to his volumes such as pots of algae and fiddlehead planters.

Congratulations to our Herbaria graduate students!

In May, a large cohort of students participated in graduation ceremonies.

Best wishes for their continued success.

Danica Harbaugh (Ph.D.) Phylogeny of sandalwoods (*Santalum*, Santalaceae): Insights for biogeography, taxonomy, and ethnobotany

Eric Harris (Ph.D.) Ethnobotany, evolution, and chemistry of medicinal bryophytes: Examples from the moss genus *Plagiomnium*

Ruth Kirkpatrick (Ph.D.) Phylogenetic analysis and desiccation-tolerance of the homosporous fern genus *Pellaea* Link (Pteridaceae) and relatives

Bianca Knoll (M.A.) Arsenic Hyperaccumulation in Ferns: A Phylogenetic Perspective

Anna Larsen (Ph.D.) Application of phylogenetic methods in Polynesian prehistory

Andrew Murdock (Ph.D.) Systematics and molecular evolution of marattioid ferns

Elizabeth Zacharias (Ph.D.) The diversification on North American *Atriplex* (Chenopodiaceae): An evolutionary investigation based on phylogenetic, physiological, and anatomical evidence



CAL DAY Activities at the University and Jepson Herbaria

During Cal Day (each year in April), kids joined in a new activity — making herbarium sheets with common wildflowers that had been collected and pressed ahead of time. Once the sheets were made, the children went inside to the wildflower display to work with our botanists to identify the pressed specimen with the living plant. Once they successfully identified the plant they were given a label and put their name in the space for ‘determined by’. The whole process was an enormously popular, so much so that we ran out of material by mid-afternoon. It will hopefully be the start of the next generation of botanists...



Cal Day photos by Ana Penny

VOLUNTEERS NEEDED TO HELP WITH COLLECTIONS MANAGEMENT

One **Saturday** of each month is a **Group Volunteer Day**

Our focus will be chipping away at the unmounted backlog of pressed plant collections, from California and around the world, some brand new, some decades old. Expect a diversity of “buried treasures” to come to light, primarily new records of noteworthy plants that have been languishing in dead storage. Volunteers are greatly needed to mount, sort, and file these collections, and to assist with related projects. No previous herbarium experience is necessary, but a level of dexterity and attention to detail is valued.

Group Volunteer Saturday begins at **10 AM** and finishes up by **4 PM** (participants need not stay the full time).

SEPTEMBER 8, OCTOBER 6, NOVEMBER 3, DECEMBER 8, AND JANUARY 12

For more information, please call or write to Andrew Doran (510) 642-2465, andrewdoran@berkeley.edu

Preston, continued from page 3.

botanists later went on to work in rare plant conservation as consultants or as botanists for state and federal agencies. A favorite activity would be to pile into someone’s car and head out to botanize some remote locale in the mountains east of town. Rob became a member of CNPS and served on his local chapter’s rare plant and conservation committees. He stayed at Chico long enough to earn a Master’s degree in Botany, working as a teaching assistant and graduate assistant to the greenhouse and the herbarium, preparing a floristic treatment of the Brassicaceae for the Butte County Flora project, and conducting research on the significance of pollen-ovule ratios in that family.

At that time, environmental laws were relatively new, and job openings for botanists were few, as the consulting industry was just getting going, so Rob followed his interest in plant reproductive ecology to the University of California-Davis. He entered the Ph.D. program in Botany and served as a research assistant and teaching assistant, including assisting with the UCD herbarium. His dissertation research focused on the pollination ecology and reproductive biology of *Streptanthus*

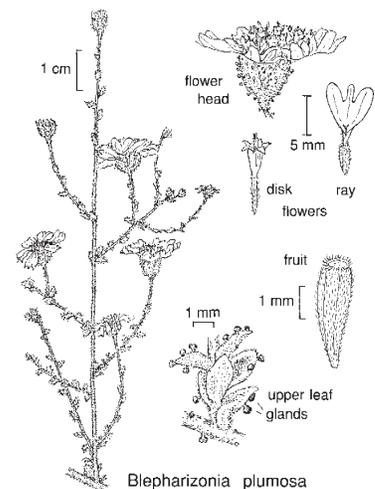
tortuosus, a montane species with populations that vary considerably in their floral morphology. By the end of his studies at UCD, there was a strong demand for botanists by environmental consulting firms, and the week after filing his dissertation, he was hired as a consulting botanist.

Rob is currently Senior Botanist in the Sacramento office of Jones & Stokes, an environmental planning and natural resources management company, where he conducts and supervises botanical surveys, habitat assessments, vegetation mapping, and wetland delineations, and he is the lead author on the botanical sections of environmental impact reports (EIRs), biological assessments, habitat conservation plans (HCPs), and other environmental documents. His projects take him to all corners of the state and occasionally to other western states. A recent highlight was his discovery of a new buckwheat species, *Eriogonum callistum*, on a project in Kern County.

In addition to his regular job, Rob continues an active research program on the floristics and taxonomy of California plant species. He recently contributed treatments of *Dittrichia* and

Pulicaria (Asteraceae) for the Flora of North America and published two papers on the taxonomy of *Brodiaea*, including describing a new species (*B. sierrae*) from the Sierran foothills. He is also a Research Associate with the Department of Plant Sciences at UCD and is on the Board of Editors for *Madroño*. He is collaborating with Chris Pires at the University of Missouri-Columbia on a phylogenetic study of *Brodiaea* using data from morphology, DNA sequencing, and chromosome numbers.

Rob currently resides in Davis with his wife, Laurie, and their two dogs, two cats, and five chickens. 🐾



FRIENDS OF THE JEPSON HERBARIUM

Name(s) _____

Address _____

City, State Zip _____

Telephone / email _____

- I would like to join the *Friends* / renew my membership (contribution to the annual fund).
- I would like to support the Second Edition of *The Jepson Manual* with my gift of _____.
- Enclosed is _____ of a total pledge of _____ to be paid over _____ years.
- Please acknowledge me as a sponsor of _____ (indicate genus name, e.g., *Lilium*, family name, e.g., Poaceae, or other category) by printing my name in *The Jepson Manual* (for gifts of \$1,000 or more, see side bar).
- Please acknowledge my gift as anonymous.
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University of California
Berkeley, CA 94720-2465

OR: Renew Online

<https://egiving.berkeley.edu/urelgift/jepson.html>

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CATEGORIES OF GIVING

GIFTS TO SUPPORT THE SECOND EDITION

- \$25,000 Honor the contributions and founding principles of W. L. Jepson, former Jepson Trustees and Robert Lincoln Constance and Robert Ornduff, former Jepson Curators Rimo Bacigalupi and Lawrence R. Heckard
- \$10,000 Support taxonomic efforts in an organizing unit of the *Manual* Ferns, Gymnosperms, Dicots, or Monocots
- \$5,000 Support floristic effort for a particular bioregion (Twenty-four listed in the *Manual*)
- \$2,500 Support taxonomic work in a particular family See the Herbarium web site for an up-to-date, complete list
- \$1,000 Show enthusiasm for your favorite genus

ANNUAL SUPPORT

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