



# the BULLETIN

A quarterly publication of the Arboretum Associates

Spring 2009 Vol.33, No.1

## Santa Cruz Mountain Violets

The Santa Cruz Mountains might seem a strange place for unidentified violets to hide.

However, at least four fragrant violets in the Santa Cruz Mountains alone have escaped reasonable attention and have not been named (probably because of the unshakable influence of long-established dogma). Very unfortunately, these violets are rare and need taxonomic attention. These new violets are in the process of being described as new to science by the UCSC Arboretum.

Because ancient dogma is difficult to shake, many points are belabored in the following paragraphs. The aim of the belaboring is to convince a diverse readership that these violets exhibit many characters that did not come from Europe. First, it should be mentioned that violets can produce two types of flowers, chasmogamous (open) flowers, which are showy and often held above the leaves,

and cleistogamous (closed) flowers, which are inconspicuous, produce many seeds, and are commonly said to be fertilized in bud. Usually the proportion of cleistogamous flowers to chasmogamous flowers varies with the season and age of the plant. A frequent but questionable assumption is that cleistogamous flowers always pollinate themselves. The very words can be vexing, because many violet flowers are morphologically in the middle between cleistogamous and chasmogamous.

*Viola A sp. nov.* is a good violet to use to begin this story. The especially able and careful botanist Neal Kramer watched this species for years. It never produced a showy flower. Thus his list of the plants in the Bonny Doon Ecological Reserve includes this violet that he left unidentified. His list is available at: [www.stanford.edu/~rawlings/pl-bd.htm](http://www.stanford.edu/~rawlings/pl-bd.htm)

*continued on page 5*

Nearly beardless *V. A. sp. nov.*, with spotted spur (petal removed)



*Mahonia gracilis*



## Arboretum Spring Plant Sale Saturday, April 18th

Come to the Arboretum's spring plant sale for a great selection of unusual plants that you may not be able to find anywhere else! We have many select drought-tolerant plants from California and Australia and from other locations with a Mediterranean climate similar to ours. We have larger special specimen plants this time too. Also look for an impressive selection of cacti and succulents. Arboretum staff and volunteers will be on hand to answer questions and help you find the best for your garden.

From our Australian collection, for the first time, we are offering *Hakea salicifolia* 'Gold Medal'. It is a large rounded shrub with variegated yellow and green leaves, with new growth flushed in pink. Grow this glowing plant for a bright accent in the garden. This plant is new from our Koala Blooms Plant Introduction Program, and many people have admired it in the garden for a long time.

Native to Mexico is *Mahonia gracilis* (*Berberis gracilis*), a tall evergreen shrub with fragrant, bright golden flowers in wintertime. Edible bluish-black berries that birds may feed on are then produced in the late spring. Shiny green leaflets strikingly contrast with the red stems of this plant. This frost-hardy plant does best with some shade.

*continued on page 10*



## Australian Fires

Our thoughts go out to our friends in Australia who have experienced such horrific wildfires. The crew at Cranbourne Botanic Gardens has really stepped up to help in the recovery. Two of the staff, Bob Lake & Terry Coates rescued a woman from the fires and were able to help save her home. Many are going out to help with mop-up efforts where the fires have been. The entire crew had a cricket game to raise funds for victims of the fires. Please consider making a contribution. Go to: [www.redcross.org.au/vic/services\\_emergencyservices\\_victorian-bushfires-appeal-2009.htm](http://www.redcross.org.au/vic/services_emergencyservices_victorian-bushfires-appeal-2009.htm)

## Jean Beevers – In Memorium



Jean Beevers and Marie Beckham.  
Cheerful greeters for the American  
Public Garden Visit of 2006

This morning when I was putting a stamp on an envelope, I happened to notice the words on the stamp, "First Class Forever." And I thought, that's Jean Beevers, a longtime supporter of the Arboretum who died on the 22nd of February.

Each of us who knew Jean has our own favorite stories about her, but the truth is, whether we knew her or not, all of us are affected by the devotion and tenacity that Jean brought to her involvement with the Arboretum.

Born in northern England, Jean, a trained botanist, and her husband, Harry, a biologist, graced the UC Santa Cruz campus with their presence in the early seventies when

Harry was hired as a professor. And when the Arboretum Associates was formed in 1976, both Jean and Harry immediately signed on as founding members, and, much to our lasting benefit; Jean dedicated herself to furthering the growth of the Arboretum.

Here are a few of the Arboretum "givens" that Jean helped make possible:

She gathered dried *Leucadendron* cones, *Protea* and *Leucospermum* flowers, and carried them in her car to florist and craft shops with the goal of selling them and popularizing the Arboretum flora. She then teamed up with Shirley Beneke, a retired florist, to set up the dry flower workshops that now supply the Dry Flower sales held every November, one of our most important fundraisers.

Jean was part of the group of talented women who were the original planners of Norrie's Gift Shop. Together they decided on the shop's floor plan, what kind of merchandise would be carried, and worked out the budget details that enabled them to launch a "start-up" business that has become one of the most successful money-makers the Arboretum has ever had. And, in addition to their planning savvy, this group brought to Norrie's the eclectic bottom-up management style that experts say doesn't work, but which Norrie's volunteers pull off to this day. Until she moved to Fresno several years ago, Jean could be found every week at Norrie's where her bright face and enthusiasm sold a lot of merchandise and memberships, and signed up a lot of volunteers.

She also designed the "Reunite Gondwana" bumper sticker, another amusing (or shocking, depending upon your point of view) and educational fundraiser.

Jean and Harry both used their influence on campus to talk with University administrators and faculty about the Arboretum and to push for its recognition and support. Jean gave generously to the Arboretum, and, as recently as this past winter, she wrote to the chancellor to remind him of the importance of the Arboretum to the campus and planet as a world-class plant collection.

So take a stroll down the Jean Beevers path in the South African garden, sit on the two Beevers benches there and reflect on what this tiny woman with her bright eyes and sense of fun has left for us to enjoy, cherish and foster in our own ways.

Thank you, Jean.

—Peggy Williams

At Jean's request, gifts in her honor and memory can be made to the Arboretum.

News & Notes continued on page 8

## Comments from our Visitor's Book

"Thanks for having us! We had a wonderful afternoon of watching pollinators visit your incredible plant diversity."

— Ingrid Parker & UCSC Plant Ecology (October 2004)

"Way rad! Never seen anything like this in all my travels. So much beauty!!!"

— Visitor from Ireland

## The Bulletin of the UCSC Arboretum Associates Volume 33, No.1 Spring 2009

The Bulletin is published quarterly by the UCSC Arboretum Associates, a non-profit organization that provides support for the Arboretum at UCSC.

Please send requests or questions to:

Bulletin Editor

UCSC Arboretum

1156 High Street, Santa Cruz, CA 95064

email: [dkharder@ucsc.edu](mailto:dkharder@ucsc.edu)

### Arboretum Associates Officers

Matthew Thompson, President

Paula Cole, Secretary

### Board Members

Those above and the following:

John Bost

Lynda Haworth

Carole Kelley

Mary Ann Leer

Janet Lever-Wood

Lincoln Taiz

Josh Weinberg

Nancy Woolf

### Ex-Officio

Daniel Harder, Executive Director

Ray Collett, Director Emeritus

Peggy Williams, Past-President

Alison Galloway, Vice Provost,

Academic Affairs

### Arboretum Staff

Daniel Harder, Executive Director

Ray Collett, Director Emeritus

Brett Hall, Director of Horticulture

Stephen McCabe, Director of Education

Tad Sterling, Development Director

Ron Arruda, Curator S.A. Collection

Susie Bower, Administrator

Francis Campbell, Facilities Manager, Curator

Katie Cordes, Assistant Administrator

Helen Englesberg, Nursery Manager

Rick Flores, Curator Calif. Collection

Stephanie Hudson, Assistant Nursery

Manager

Melinda Kralj, Curator Aust. Coll.

Dylan Neubauer, Collections Recorder

Sara Reid, Education Assistant

Tom Saucedo, Curator N.Z. Collection

Elyse Seigle, Office Assistant

Arboretum Phone: (831) 427-2998

Arboretum Fax: (831) 427-1524

Norrie's Gifts: (831) 423-4977

Website: <http://arboretum.ucsc.edu>

Jean and Bill Lane Library:

<http://www.library.ucscarboretum.org/openbiblio/opac/index.php>



Dear Arboretum Friends,

In mid-February I attended an outstanding meeting in San Diego titled, *It's Alive! Petals to Primates: Preservation Challenges of Living Collections*, convened by the federal Institute for Museums and Library Services (IMLS) and hosted by Heritage Preservation and the San Diego Zoo and held at the University of San Diego. This meeting brought together more than 200 participants who are the principle stewards of the nation's living collections of plants and animals to share ideas, build networks, share best practices, and foster a better understanding of the increasing number and severity of challenges facing each of our collections and institutions.

As part of IMLS's initiative, *Connecting to Collections; A Call to Action*, this meeting addressed a common concern: living collection managers nationwide recognize that under the current financial situation, as well as larger changes occurring to our environmental climate, we face an increasing number of challenges that are more difficult than ever before. Sharing information and increasing our effectiveness as stewards of these valuable resources without impacting the mission of our organizations are major challenges for living collections.

In 2007, Heritage Preservation and the IMLS published *The Heritage Health Index* as the first comprehensive survey

ever conducted of the condition and preservation needs of our nation's collections. Astoundingly, the survey found that more than 4.8 billion artifacts are held in the public trust by more than 30,000 archives, historical societies, libraries, museums, scientific research collections, and archeological repositories in the United States. Unfortunately, the survey included only non-living collections but the lessons learned and relevance of the issues are shared with those of us with living collections, including zoos, botanical gardens, aquaria, nature centers and living history farms.

Our institutions are visited by more than 3.5 billion people a year as our collections teach and inspire and are vital to sustaining a well-educated and connected citizenry, a thriving tourist industry, and a wealth of knowledge to enrich and enlighten our civilization. Although curation and preservation techniques vary with each type of collection, all of our institutions are expected to provide a safe environment and proper care for our collections as a fundamental responsibility of collection stewardship. As a call to action, efforts are needed now to ensure these collections survive the twenty-first century and continue to enrich the lives of Americans and the world through an understanding that:

1. Institutions must give priority to providing safe conditions for each of the collections they hold in trust.
2. Every collecting institution must develop an emergency plan to protect its collection
3. Every institution must assign responsibility for caring for collections to members of its staff, and
4. Individuals at all levels of government and in the private sector must assume responsibility for providing support that will allow these collections to survive.

Under these trying financial times the Arboretum has trimmed our staff and

programs and have focused our efforts on meeting these four actions. Our top priority now is to preserve the value of the plant collections through maintaining adequate, minimal staffing, keeping support systems working and efficient, and using opportunity to expand and develop these resources for research and education. Responsibility for collection care is firmly in the able hands of our curators who have leadership roles within each of their gardens for display, collection development, and preservation.

Through our planning efforts two years ago with IMLS support, we addressed some of our emergency plans and procedures to protect our collection from drought, fire, frost, and theft. More work is necessary to develop a fully effective response plan. We continue to work on these issues and refine our plans so we are ready for any emergency that may affect our collection stewardship.

The fourth action, that of providing support, requires the effort of everyone. It is the responsibility of the curators, the Arboretum Associates, volunteers, the UCSC campus, the UC Office of the President, students, public and private individuals and institutions, and, especially, me to be ambassadors and instill ownership for these collections; to promote their value, articulate their importance for providing a healthy environment, and interpret their essential connections to humankind. Plants contribute to the health of ecosystems, sustain us by providing food, medicines and other commodities, and provide opportunities for recreation and exploration. Most importantly, plants influence the evolution of life on land. Botanical gardens and arboreta are special in their priority commitment to preserving plants and as centers for research, education and conservation.

Thank you for all you do to support our efforts to protect plants.

## First Hand Academic Experiences: Reflections of a Student Employee

The first I ever stepped foot at the Arboretum was in the fall of 2006, on the first day of my two credit internship for the Restoration Ecology class. For two years, as a UCSC student, I passed the sign every day riding the bus up Empire Grade to campus, I knew of the Arboretum but never really understood what went on there. I knew it was a place of plants, a place to explore, but for some reason never took the opportunity to wander in on my own. When Karen Holl, my Restoration Ecology professor, provided a

list of possible internships to supplement our classroom work and gain a few extra credits, I found my opportunity as my eyes went straight to the UCSC Arboretum. We attended a meeting where all campus units gathered to provide information and sign students up for their internships. As the meeting was coming to a close, I got fidgety in my seat, waiting for them to let us loose so I could be one of the first to get to the Arboretum table, afraid that too many people would want to sign up and they wouldn't take us all. I was relieved

when Brett Hall met all of us eager interns with a smile, said he would be happy to take as many students as were interested, and instructed us to meet at the domes for our first day of internship work at the Arboretum.

That was the start of a new chapter in my academic life. I did not study botany but rather dabbled in the wider field of environmental studies. I did not realize I would enjoy studying botany until I began working at the Arboretum, where I got

*continued on page 10*



## The Arboretum An Incredible Gift!

It's nice to give yourself a gift once in a while, and it's nice to give one to those you care about. It's even nicer when you actually can do both – and some gifts can just keep giving!

I was thinking about the Arboretum in that way. We, as members, give benefits to ourselves – the opportunity to learn, to take walks in the gardens, to make friends – and we gift to others – visitors, students, the surrounding community, even teachers, faculty, and those doing serious plant research – the benefits of the collection and its knowledgeable curators, volunteers, and staff. But even more than that, we also gift the beauty, learning, and incredible value of our living collection to so many in future generations to come.



Protea

Dan's column about what he learned at the IMLS Living Collections Conference also reminded me of both the incredible value of our collection to so many, and of the challenges and responsibility we face in maintaining our collections and educational and research programs. Living collections nationwide are facing financial challenges at the same time as they are requiring even more responsibility for preserving collections and programs that will increasingly affect the quality of life for humankind. Providing support, he noted, will take our whole community – our curators, the Arboretum Associates, volunteers, the UCSC campus, the UC Office of the President, students, public and private individuals and institutions – to

be ambassadors and take ownership for our collections and programs.

We are fortunate to have a community of friends that makes it possible to give the gift of the Arboretum, to ourselves, others, and future generations. So once again, I want to thank you for being part of that community, and in advance, for your future giving to preserve and enhance our collections and programs.

Tad Sterling – Development Director – (831) 427-2998 – [sterling@ucsc.edu](mailto:sterling@ucsc.edu)

## Community of Friends Membership Program

### MEMBERSHIPS

#### California Poppy \$45 (1 adult card)

*Individual, Senior, Student. Non-Transferable*

- Free admission to the Arboretum
- Discount at Norrie's & Local Nurseries
- Priority Entrance to Plant Sales
- Discount on Admission to Lectures, and Events
- Recognition in Bulletin
- Quarterly Bulletin
- Free Admission to AHS Affiliate Reciprocal Garden members
- Invitation to Members Only Events
- One Garden Admission Guest Pass
- Discount on subscription to Pacific Horticulture

#### Salvia \$65 (2 adult cards)

*Dual, Family - All the above*

- Admission of one guest accompanying each member
- One additional Garden Admission Guest Pass (two total)

#### Kauri Circle \$100–\$249

*Poppy and Salvia Benefits above, plus—*

- Two additional Garden Admission Guest Passes (four total)
- 2 Guest Passes for Priority Entrance to Plant Sales
- 1 Specially Propagated Plant

#### Erica Circle \$250–\$499

*All of the above, plus—*

- Invitation to "Behind the Scenes" Event

#### Banksia Circle \$500–\$999

*All of the above, plus—*

- Invitation to Curator Events

#### Protea Circle \$1,000 & above

*All of the above, plus—*

- Invitation to Director's Dinner

#### Life (1 or 2 Cards)

*Poppy & Salvia Benefits*

*above for Life, plus—*

- Protea Circle benefits for one year

#### SPECIAL PROJECTS YOU CAN SPONSOR!

#### SPONSORSHIP LEVEL

Curator Apprenticeship Program: Cooley Match Fund	<b>NEWEST</b>	\$1,000
New Zealand Boundary Fence Planting	<b>NEWEST</b>	\$200
Eucalyptus Grove & Collection Interpretation & Signage	<b>NEW</b>	\$500
Australian Rock Garden	<b>NEW</b>	\$500
Front Entrance Renovation: Gate, Wall, Norrie's Steps & Deck		\$1,000
Self-Guided Tour Trails Signage & Interpretation		\$250
Sponsor a Student Worker or Intern		\$500
Sponsor an Issue of the Bulletin		\$250
Succulent Greenhouse and Garden Renovations		\$500
Memorial & Tribute Benches		\$3,500
Curator Discretionary Improvement Funds (for Australia, South Africa, New Zealand, Native California, Rare Fruit, Succulent Garden, and the Nursery)		\$100

## Violets... (cont'd - p. 1)

Application of ancient horticultural tricks can, however, make *V. A sp. nov.* produce a few chasmogamous flowers. Those few flowers are an amazement. They possess the legendary English violet scent, with a vengeance. Centuries of human selection have not resulted in a violet with so much violet scent. (Indeed some garden varieties of *V. odorata* have almost no scent at all.) Moreover, these flowers of this unidentified species are bluer than nearly all of the carefully coddled products of human selection.

Careful examination of *V. A sp. nov.* reveals more: There's no beard! At best, this new species produces a few, wispy hairs. Strange, as well, is this: If this species escapes the attention of deer, cottontails, and tiny rodents, it stands tall on a woody stem. From that stem, particularly near the apex, it sends out wiry, strawberry-like runners, which are so strong that they can trip an unwary person. Moreover, *V. A sp. nov.* does not produce the traditional heart-shaped leaf of English garden violets. Rather, it produces rounded leaves that are open at the base.

To continue, two new species long ago attracted the attention of Margaret Sowers. She grew them in her garden on Walnut Street in Santa Cruz, and she shared them with her friends. Precisely where she got them is unknown. According to legend, it was somewhere up the San Lorenzo River. Today these two violets grow together in a remarkably cold box canyon along Bear Creek, a tributary to the San Lorenzo River. (Hybrids are unknown, both along Bear Creek and in gardens.)

At first glance, the woody *Viola B sp. nov.* might be regarded as a highly floriferous, large-flowered undetermined *V. A sp. nov.* If examined closely, a curious fact stands out: *V. B sp. nov.* has a beard. It's short, but it's clearly there. This new species also has a distinctive, long, thick, unmarked spur. *V. B sp. nov.* is another, fragrant and distinctive Santa Cruz Mountains violet.

*Viola C sp. nov.*, which is not very woody, is the only Santa Cruz Mountains violet that is white. Ordinarily, it does have purple

markings on its long, curiously shaped spur. This undetermined species has its own kind of odor. Many people are inclined to say that it smells like a garden narcissus. Other people say that it stinks and smells fecal. *Viola C sp. nov.* is the grossest of the Santa Cruz Mountains violets. Its leaves can be seven inches across. This species is a third, undetermined, fragrant and distinctive Santa Cruz Mountains violet.

*Viola D sp. nov.* may be the rarest of all Santa Cruz mountain violets. Once numerous, just several individuals now survive, all on the UCSC campus. It may someday be grown in gardens for its very large, sweetly fragrant, rose, cerise, or magenta flowers. This undescribed species has a beard, which is very short and sometimes slightly greenish. Unlike *V. A sp. nov.* and *V. B sp. nov.*, *V. D sp. nov.* is a small plant, slow to develop woody stems. The spurs of this species are remarkably long and patterned with purple, rather like those of *V. C sp. nov.* However, the spurs of *V. D sp. nov.* are without a lengthy appendage.

*V. C sp. nov.*, *V. B sp. nov.*, and *V. D sp. nov.* arise and flower after the arrival of winter rains. Like many California natives, they shrivel away in summer. If artificially watered, they remain leafy all year and thus may be pleasing to many gardeners. (*V. A sp. nov.* grows in moist locations and has not been observed to go dormant.)

Curiously enough, all Santa Cruz Mountains violets have the company of mites (or mite-like creatures). These tiny creatures hide in the spurs and on the undersides of leaves, and they crawl into cleistogamous flowers, as well. Where these creatures go when violets are dormant is not known. Do these creatures pay any rent? Possibly they perform a pollinating service. Possibly they discourage other creatures harmful to violets. Who knows?

An important number of famously beautiful creatures are somewhat harmful to violets. California once was famous for its butterflies. That was back when huge California panoramas were a sheet of violets in spring. The caterpillars of *Boloria epithore* and many species of *Speyeria* eat only violets. The great sheets of violets once provided them with an abundance of food. People with memories extending back into the 19th century often told of the mariposas and the "flowers" in the California sky. Bernie Porter, a generous supporter of the UCSC Arboretum, was fond of recalling the butterflies of early California. (She was fond of frogs, also, and she endowed the Arboretum frog pond. Few of the world's frog ponds are endowed.) So famous was Santa Cruz for its butterflies that Gerhard Ringel knew of them when a young man in Eastern Europe. One of the



Bearded flower of *Viola C sp. nov.*

world's most honored mathematicians, he often said he came to Santa Cruz "because of all the butterflies." He was especially fond of violet-dependent *Speyeria*.)

Basic questions about all Santa Cruz violets and butterflies are still to be asked and answered. Which violets are the favorites of which butterflies? How do the many kinds of violets protect themselves against the many kinds of herbivores? How are new hatchlings from *Speyeria* or *Boloria* butterfly eggs regarded by the mites (or mite-like creatures) that accompany Santa Cruz Mountains violets?

Anyway, this much is true: Without sheets of violets on the ground, California loses many famous "flowers" in its skies. Already some California residents may never have seen a violet-dependent butterfly. What do they look like? The Internet provides an answer at [butterfliesofamerica.com](http://butterfliesofamerica.com)

—Ray Collett



Large-flowered, Small-leaved *Viola D sp. nov.*



Bearded flower of *V. B sp. nov.* with hairy stem

### A Special Offer for Arboretum Associates

*Pacific Horticulture* is written by and for gardeners and plant lovers who understand the need for responsible gardening in the summer-dry climates of the West Coast states. The quarterly publication features information-packed articles, superb color photography, in-depth book reviews, and scientific reports. Visit us at [www.pacifichorticulture.org](http://www.pacifichorticulture.org).



*Pacific Horticulture* is now available to Arboretum Associates at a 20% discount: \$22 per year. Call the office at 831/427-2998.



# 2009 members & donors

Our sincere thanks to those who joined the Arboretum Associates & to those who made gifts to the Arboretum.

## PROTEA CIRCLE

The Barkley Fund  
Jean Beavers  
Jennifer & John Bost  
California Native Plant Society,  
Santa Cruz  
Emily E. Clark  
Lorna Clark  
May & Michael Clark  
Francesca Deaver  
Perry F. French Family Trust  
Alison Galloway  
Robert & Priscilla Gilbert  
Art & Carol Graham  
Shirley Harder  
Nancy Jones  
Edward Lax  
Susan S. Martin  
Kiki May  
Mazal Foundation  
Fredaline & Harry McDonald  
Stephanie & David Mills  
Phyllis S. Norris  
Ranko Angelina Petroni  
Rosemary Raphael  
Carla W. Reiter  
Rosendale Nursery  
Barbara M. Shields  
Lee & Lincoln Taiz  
Thacher & Thompson Architects  
Joseph A. Toby  
Marion & Robert  
Trentman-Morelli  
David & Edna Vollmer  
Peggy & Hillis Williams  
Nancy Woolf

## BANKSIA CIRCLE

Marie & Rex Beckham  
Linda S. Brodman  
Alfred Cavanaugh  
Barrie & Carol Coate  
Martin & Susan Garbowitz  
Lynda & Peter Haworth  
Stanley E. Iversen  
Joni L. Janeki & Associates, Inc.  
Mannie & Martha Joel  
Richard F. Josephson  
Jean & L. W. Lane Jr.  
Tom & Phyllis McKinney  
Joyce Milligan  
Heather & Darryl Richman  
Carolyn Roberts  
Mark Sachau & Bill Gielow  
Ann & Ed Schwabecher  
Denise Vogel

## ERICA CIRCLE

Linda & William Anderson  
Dennis J. Brown  
Chuck Haugen Conservation Fund  
Richard E. Faggioli  
Charlie Haas & Barbara Moran  
Kathy & Alfred Herbermann  
Carole & Al Kelley  
Paul Kummer  
Mary Ann Leer & Jules Resnick  
Kelley Macdonald  
Erna Morris  
Joan Norvelle & Charles Lester  
Teresa & Gordon Pusser  
Rowland & Pat Rebele  
Betsy Riker & David Smith

Sandra & R. David Schmaier  
Daniel & Linda Sekella  
Brewster & Deborah Smith  
Tad & Jacci Sterling  
Stuart & Paula Walzer

## KAURI CIRCLE

Sally Adams  
Martha A. Ainsworth  
Alameda Park Fund  
Mary Allen & Claude Fann  
Patrice Bailey  
Fred & B.L. Baker  
Joann & Larry Barbier  
Jill Barnes  
Lawrence Bazel & Diane Gibson  
Vladimir Bojov &  
Anne Staskewicz  
Emma Jean & Barry Bowman  
David Bunnett  
Jill & John Bushakra  
Margy J. Cacitti  
Anne Callaway & Dick Galland  
Chris & Catharine Chope  
John Chwistek  
Betsy B Clebsch  
Diane C. Craddock  
Constance Crawford  
Patricia Cullinan  
Kay & Gordon Cumming  
Liz Darling  
Paula & Chandler Dawson  
Linda K. Dolan  
Lee & Emily Duffus  
John & Helaine Dunmire  
Don Oakes & Jannette Engel  
Lou & Carolyn Fackler  
Barbara Farnsworth  
Ann & C. Garrison Fathman  
Skip & Nancy Fletcher  
Bodwyn & Alan Flores  
Kirby W. Fong  
Dana Frank  
Robert B. Garner  
Jack & J. Charmain Giuliani  
Dean & Sheila Gottfreh  
Frances M. Grate  
Robert & Margaret Grim  
Joan Halperin  
Irene & Paul Hashfield  
Paul & Judith Heim  
Harrison Higaki  
George & Ivette Hoffer  
Elise Huffman & Jeffrey Grubb  
Karla Hutton  
George & Nancy Ingram  
Gurson Kantor  
Dave Kirk & Larry Millsap  
Andre & Marijke Kuper  
Jean H. Langenheim  
Janet Lever-Wood & Dan Wood  
Mastick Senior Center  
Evelyn McCabe  
Margaret & R. I. McKinnon  
Ron Mickelsen  
Paula Mierau & Larry Payne  
Jocelyn & Jerry Nelson  
Linda & Bruce Nicholson  
Kenneth & Jean Nikodym  
Rebecca Nolan & Julie Watson  
Nancy Norris &  
Nicholas Littlestone  
Bart O'Brien

Jo O'Connell  
William G. & Joyce E. Odom  
Thomas C. Olson  
Irene H. Osterbrock  
Janet Parker  
Flavia Polensky-Geist &  
Donald Polensky  
James Potterton & Maria Mattioli  
Elizabeth & Hans Gerritsen  
Stefan Raffl & Christine  
Goritschnigg  
Richard Ragany  
Kevin Rasmussen &  
Matthew Henry  
Regional Parks Foundation  
Willa Dean Reynolds  
Warren G. Roberts  
Jeff & Donna Rodriguez  
E. Scott Royce & Julie Ann Floyd  
Alison Russell & Walter Wadlow  
Eugene Salamin & Eleanor Stitt  
Randy D. Saldinger &  
Kevin D. Kelley  
Timothy Delos Schueler  
Russ Scott & Carolyn Villa-Scott  
Alexandra & F. Wells Shoemaker  
Ray & Grace Silva-Santella  
Carol & Robert Simpkins  
Ericka Sleight & Manny Centeno  
Kirk Smith  
Graeme & Maria Smith  
William E. Smock  
Betty & Lou Stevens  
Elizabeth N. Stone  
Lynn Stralem  
Jean Swanson & Brendan Leary  
Richard & Bobbie Talmadge  
Jerry & Joshua Thomas  
Vanessa Tollefson & Randy Bevis  
William D. Unga  
Barbara & Gunter Vorlop  
Jerry & Robynn Walters  
Mary Wax  
Jack & Polly Western  
Mia & Jim Whitfield  
Jonathan & Susan Wittwer  
Jennifer Wood  
Woodside Atherton Garden Club  
Clare & Michael Workman  
Barbara Worl

## SALVIA

Jenny & John Anderson  
Ginny K. Aragon  
Linda Aurichio & Ellen Pearce  
Ruth Bancroft  
Richard Bartel & Ellen Stok  
Arthur & Marilyn Basham  
Russell & Jane Beatty  
Donna Becker & Gary Merrill  
Lili & Tom Beggs  
Karin & Jochen Behrens  
Eugene & Gracia Bello  
John & Diane Benson  
Ralph & Gunnela Berger  
Barbara B. Blau &  
Robert Kealhofer  
Susie & John Bower  
Steven & Donna Brigham  
Debbie Bulger & Richard Stover  
Terrence Cadigan &  
Claire LeDonne  
David & Debbie Calhoun

Rosalie & James Cape  
Heather Johanna Catchpole  
Casey Certis-Milby &  
Robert Milby  
Sherman Chan  
Barbara & Martin Chemers  
Paula & David Cole  
Shirley & Russell Coleman  
Nancy Collins  
Mary & David Cope  
Dean Dalton & Terry Troutt  
Jerry & Toni Danzig  
Bob & Betsy Darrow  
Dan Davis &  
Terry-Lynn Winston  
Peggy Delaney & Jack Mallory  
John & Ann Dizikes  
Ken & Katherine Doctor  
Victoria & Paul Dubiel  
Venson & Juliann McLane Dulaney  
Sue & R.A. Dumiller  
Ted & Pat Durkee  
Margery & Richard Edgren  
Barbara & John Ellis  
Ronald & Lorraine Emery  
Eric & Elizabeth Esarey  
Linda Eucalyptus &  
Lon Erickson  
Molly & Ted Fainstat  
Ralf & Nita Farrell  
Cynthia Ferguson & Rob Mace  
Penny L. Fitler & Kristin Bremm  
Laura Fletcher  
Mark Forry & Frances Hatfield  
Leigh-Anne & Cresson Fraley  
Marcine & Michael Freeman  
Caroline & Roger Gage  
Maria Guadalupe Garcia  
David C. Getchell  
Robert & Jennifer Goldbeck  
Bernard H. Goldner  
Karan & Joe Granda  
Doug & Lori Green  
Karin Grobe & David Heintz  
Terry & John Grove  
Hugh & Jennifer Grubb  
Jeff Hallock & Deborah Symes  
Alan & Anne Harding  
Suzanne Harley  
Andrew & Juel Hartmann  
Susan Harvel & Dave Baker  
Harold & Rosalind Hastings  
Roberta & Thomas Henderson  
Richard & Laura Hieb  
Henry & Galen Hilgard  
Russell & Mary Ann Hobbs  
Boyd & Sara Horne  
Linda Jackson & Kevin Deierling  
Sue & Harry Jackson  
Lorraine Jacobs & Dan Johnson  
Jana Jarrell & Michael Pham  
Ann & Dobie Jenkins  
Susan Johnson  
Evelyn & Harold Jones  
Eric & Connie Jorgensen  
Melissa Jurica &  
Hidebumi Kawatsure  
Amy Katzenstein &  
David Harrington  
Michael & Madeline Kauffman  
James J. & Jerry Kenny  
Lizann & David Keyes  
Laurie King

Ted Kirkles  
Craig Kochersberger &  
David Newswanger  
Charles Koester &  
Stephanie Seymour  
Bernard Elbaum & Nina Koocher  
John & Millie Kovacevich  
Robert Lambie  
Maxine Lane  
Frans Lanting &  
Christine Eckstrom  
Lisa LaRocca  
Jeff & Kathy Lassle  
Merrill & Fran Lathers  
Eileen Leary & Tom Burns  
Gene Lebel & Gael Solos  
Timothy C Ledwith &  
Christine McAllister  
Donna & Robert Lester  
Kenneth & Gabriele Levine  
Fay Levinson & Joe Vela  
Nancy & John Lingemann  
Linda Locatelli & Gordon Lion  
Jean Anne Logan  
Nancy V. Loshkajian  
Bruce & Janet MacDonald  
Salem Magarian & Laurie Patton  
Marc & Susan Mangel  
Tamia Marg & Tom Anderson  
Bruce & Lorraine Morgan  
William & Ann May  
Clint & Saralee McCormick  
Sean McCullaugh  
Gary & Andrea McDonald  
Carolyn & Brian McFadden  
Nancy & John Mead  
Nancy Merritt  
Art & Marian Middleton  
Judith & Richard Milgram  
Marvin Miracle & Jan Larzelere  
Marlene Mirassou &  
Steve Houlihan  
Harvey & Diane Morriss  
Colleen & Carmen Mulholand  
Donald & Ida Mungai  
Gary Nelson & Del Woods  
Stephanie & Jason Nielsen  
Bob & Ruth Nobuhara  
Susan Norris & Fred Carlson  
Johna & Virginia O'Brien  
Lyle & Barbara Overley  
Peter & Susan Overton  
Evan Parker & Lloyd Therce  
Ingrid Parker & Gregory Gilbert  
Richard & Patricia Payne  
Timmi Pereira & Paul Gratz  
Margaret Perham &  
Richard Griffith  
Pamela & Steven Peterson  
Celeste Phillips  
Janice & Richard Phister  
Laurence Pitsenberger  
Mike & Chris Pleiss  
Ryszard & Elia Pochron  
Richard & Karen Pontius  
Donald Potts & Laurel Fox  
Bernard Pregerson &  
Amber Jayanti  
Diana Redfern & William Parro  
Michael & Mary Reid  
Josh Reilly & Lisa Russell  
Ronald & Shelley Reinisch  
Adrienne Rich

# 2009 members & donors

Rick & Wendie Roberts  
 Andrew Robinson &  
 Nancy Sperry  
 Linda & Rich Rollin  
 Sandra & William Rosen  
 L Rosenfeld & S Morris  
 Nick & Ruth Royal  
 Edith & Morris Rubesin  
 Dorothy B. Ruby  
 James Rumbaugh &  
 Madeline Morrow  
 Janice Sanson  
 Peno & Marlene Saraliev  
 Charles Sawabini &  
 Jo Romaniello  
 Isabelle & Michael Scott  
 Karen Scott  
 Peter & Celia Scott  
 Cary Seiden & Doris Jay  
 Jaap Selman & Faith Ann Zack  
 Larry & Marti Selman  
 Renee & Michael Shepherd  
 Gary Silberstein  
 Steven & Stephanie Singer  
 Roy Stahlhut & Nan Kim  
 Ann Steinlauf & Bill Miller  
 Patricia & Vaughn Stumpf  
 Margaret Sturtevant  
 Jane & David Styer  
 Gordon & Sally Jones  
 Julius & Angela Surkis  
 Teresa Swatoski &  
 Chris Blanchard  
 Ted Tawshunsky  
 Jade Taylor & David Krasowski  
 Judith Taylor & Shirley Brown  
 Hideko Sakamoto  
 Robert & Nancy Terrebone  
 Brent & Luisa Thompson  
 Jill & John Thompson  
 Jim & Annette Tokarz  
 Adelle & Erwin Tomash  
 Evelyn Treiman  
 Richard Turner & Thomas Urani  
 Mari Tustin  
 Eric & Martha VanDyke  
 Gwen & David Wade  
 Carri & Steven Wagner  
 Jefferson B Waldron &  
 Gail Korich  
 Iris Wallace & Jan Palia  
 Judy & Carl Walsh  
 Patty Walters & Arleigh Movitz  
 Jack & Trudy Washburn  
 Kerstin Wasson & Bruce Lyon  
 Christine Watten & Tim Hill  
 Mary & James Weersing  
 Christine Weir & Sally Arnold  
 Harold & Joyce Werner  
 Sheila Wickens & Roger Bach  
 Corinne & Todd Wipke  
 Sally Wittman  
 Bruce Wrenn & Elizabeth Hagan  
 Harriet Wrye & Jim Wheeler  
 Joel & Nicole Yellin  
 Takashi & Carol L. Yogi  
 Rosalyn Zakheim &  
 Gayle Dukelow  
 Caroline P. Zlotnick

## POPPY

Bruce Abt  
 Beverly Adams  
 Mahir Agha  
 Joy Albright-Souza  
 Alta Organic Coffee & Tea Co.  
 - Patti Spooner

Ronald Alves  
 Helen Aylsworth  
 Barbara Baker  
 John Balcom  
 Sharon Banks  
 Stephanie Barnes-Castro  
 Barbara Bartlett  
 Tamara Beale  
 Alice Benet  
 Edith Bergstrom  
 Mary Ann Berkana  
 Adrienne Birmingham  
 Ann Berry-Kline  
 Karin Beumer-Browner  
 Janet Bloom  
 Cherie Bobbe  
 John Bray  
 Marilyn Brennan  
 Eamon Briggs  
 Norma Brodbeck  
 Mark Brown  
 Worth C. Brown  
 Jordi Bruguera  
 Susan Bruijnes  
 Thomas Bush  
 Colleen Butterfield  
 Lori Calvery  
 Evy Cambridge  
 Eleanor Carolan  
 Marjorie Cassel  
 Brian Cayton  
 Penny Cheney  
 Robert Chisari  
 Carolyn Christian  
 Gwen Clark  
 Margot Joan Clark  
 Carole Clarke  
 Susan Coale  
 Janice M. Cockren  
 Barbara Coe  
 Dale Coke  
 Madelene Coke  
 Sharon Cooper  
 Barbara Cordes  
 Haley Olivia Cox  
 Sandra Craib  
 Ralph Cross  
 Alan Cunningham  
 Karlene Dahlmeier  
 Christina Danley  
 Jean A. De La Torre  
 Marie-France De Sibert  
 Margaret De Vecchis  
 Lois De Vogelaere  
 Elliot Dembner  
 Mary Ann Dewey  
 May Diaz  
 Donna Dillon  
 Sharon D. Dirnberger  
 Linda Dobson  
 Leah Doran Lepak  
 Virginia Dow  
 Bunny Drayer  
 Nancy Drinkard  
 Julie Dryden-Brown  
 Maureen Duffy  
 Francois Duminy  
 Mia Duquet  
 Sharon A Dwight  
 Dorothy Edmonston  
 Nancy Eidam  
 Helen Eidemiller  
 Sherry Eisendorf  
 Sandra Farrell  
 Jeanie Fidler  
 Diana Fish  
 Don Flescher

Judith Foreman  
 Jonathan Fox  
 Gordon Frankie  
 Lesley A. Franz  
 Marilyn Frederickson  
 Maria Freeman  
 Alison Fuhrman  
 Vicki Garside  
 Francis Gates  
 Stephen Burc Gerow  
 Ann E. Gibbs  
 Mary Jo Goddard  
 Robert Goff  
 Roy Gomez  
 Mary Gonzalez  
 Gail Goodcase  
 Greg Goodman  
 Dede Goodrich  
 Thuy Goodwin  
 William Gottfried  
 Gary Gouldsberry  
 Neal Hellman  
 Genevieve Graves  
 Pria Graves  
 Clifford Greek  
 David Gutierrez  
 Adrienne Hagen  
 Jeff Hagenah  
 Judith Hall Hashii  
 Mary Hardin  
 Mike Haro  
 Joan Harrington  
 Eleanor Hawkins  
 Anne Hayes  
 Paul Hayter  
 Beverly Heinze  
 Robert William Henry  
 Caroline G. Henton  
 Winifred Heron  
 Christine A. Hirsch  
 Evelyn Hirsch  
 Vera Joan Hodgson  
 Inga Hoffman  
 Kathleen Hofvendahl-Clark  
 John Holden  
 William Holliday  
 Vera Hope  
 Patti Hughes  
 Sharon Hull  
 Cindy Jackson  
 Susan Jacobs  
 Rick Jacoby  
 Alan Jaffe  
 Susan R. Johnson  
 Elizabeth Jones  
 Donna Karolchik  
 Robert E. Kates  
 Lisa K Kealhofer  
 Dorothy Keefe  
 Lisa Kinberger  
 Katherine M. Kitsuse  
 Katherine Klein  
 Stefan Klein  
 John Knief  
 Michael Koslosky  
 Michele M. Kraft  
 Susan Krevitt  
 Marcela Laddon  
 Richard Landon  
 Kenneth L. Larson  
 Thomas Lawson  
 Judy Lefler  
 Sonne Lemke  
 Terry Lenhart  
 Georgia Leung  
 Christine L Lewis  
 Dottie Lieber

Randall Linke  
 Michael Charles Lipkin  
 Scott Morgan Lipscomb  
 Marcia Lipsenthal  
 Lillian Locke  
 Linda Locklin  
 Jill Logar  
 Elmer Lorenz  
 Sandy Louthian  
 Barbara Lyon  
 Don Mahoney  
 Sandra Martin  
 Deborah Masonheimer  
 Sue Massey-Kirkpatrick  
 Cynthia Mathews  
 Gary Mayers  
 Gordon Mayfield  
 Katherine McKeon  
 Kay McDonald  
 Stephanie McDonnell  
 Julie Meyer  
 Carol Michener  
 Gary A. Moro  
 Brenda Moss  
 Shelagh Moss  
 R.A. Munro  
 Lucia Musso  
 Gladys Naman  
 Wendy Naruo  
 Camille Nava  
 Marilyn Norberg  
 Ann Nunziata  
 Helen Palmer  
 Linda Parsons  
 Vicki Pearse  
 Cynthia Pensinger  
 Dennis Perry  
 Genelia Phillips  
 Steve Piercy  
 Denise Polk  
 Carole Poole  
 Helen Prieto  
 Bernadette Ramer  
 Ann Ranish  
 Linda M. Ray  
 Lynn Renshaw  
 Irene Reti  
 Cherie Reveles  
 Beulah Rider  
 Deborah Rider  
 Mary Anne Robb  
 Marilyn Rogers  
 Lilly Rose  
 John Rose  
 Annmarie Rosengreen  
 Ilse E. Rowe  
 Cynthia Rudokas  
 Ann Rupert  
 Robin Sanders  
 Suzanne Schettler  
 Priscilla Schleich  
 Jennifer Schmida  
 Paula Schneider  
 Kathleen Shaeffer  
 Clasia Shane  
 Peter Shaw  
 Paul Sheard  
 Anne Sherwood  
 Helene Shulman  
 Alice Sickels  
 Jane Simpson  
 Jenna L. Sindle  
 Donald Singer  
 Laura Smith  
 Shirley Ann Soldin  
 Theanne Sprech  
 Miscelle St. Michael

Arlene Stamp  
 Jane Starbird  
 Andrea Steiner  
 Barbara H. Stevens  
 Don Stevens  
 Doug Stewart  
 Mary Stone  
 Jennifer Straw  
 John Suttle  
 Jack Swords  
 Candace Sy-Costa  
 Harriet Talan  
 Donald E Thomas  
 Kenneth Thomsen  
 Patricia Thorsby  
 Sharon Tolby  
 Abel Torres  
 Doug Tucker  
 Meri Vahl  
 Leilani Vevang  
 Pat Voss  
 Kathryn Vroomen  
 Evonne Waldo  
 Patrick Cearley  
 Jeff Wall  
 Helen Wallis  
 Katherine Elizabeth Walter  
 Janice Walton-Hadlock  
 Edward Watson  
 Anita Kay Weldon  
 Robert Werra  
 Candace West  
 Judith West  
 Flora Lé Williams  
 Lee & Rich Williams  
 Linda V. Willis  
 Charles Wise  
 Diane Wolfsen  
 Adele M. Wood  
 Edwin Wood  
 Pat Ybarro  
 Kathy Yee  
 Margaret Ysselstein

## OTHER GIFTS

Lilias Barton  
 Thomas Chavez  
 Robert Ferber & Linda Maepa  
 Yvonne Garden  
 Ann Graham & Arlen Johnson  
 A. Johnson & A. Graham  
 Lynn Kanne & Randall Hitchin  
 Melinda Kralj  
 Benjamin David Kruger  
 Dean & Jane McHenry Trust  
 Daniel & Judy Meconitas  
 Ernest W. Rideout  
 Diane Robinson  
 Marilyn Swanson  
 Rina & Edward Weingold  
 Elizabeth Emma Wiig  
 Maggie Wineburgh-Freed &  
 Jan Freed  
 John & Bernice Woolf  
 Ann & Fred Zeise

**Note:** This list represents the combination of actual membership dues payments and gifts received in the 2008 calendar year. Names are listed based on what is in the university gift record. Every effort was made to properly list everyone, however, please contact Tad Sterling, Arboretum Development Director, at 427-2998, to correct any errors or omissions.



## The Australian Rock Garden, Western Australia Plantings

The larger Sonoma Fieldstones are in position, granitic scree has been added, and the irrigation line is finished. The Australian Rock garden is now being planted with choice collections from sub-alpine regions of Australia including higher elevation areas of the Sterling Range in Western Australia, the Grampians in the east and from Tasmania. The new planting areas are developed to feature special plants that might get overlooked in a general landscape planting. The Elvenia Slosson endowment and directed gifts provided support for a major portion of this garden. This spectacular new garden planting is drawing visitors to the back sections of the Banksia Field. This open area will not be planted in large trees or bulky shrubs in order to evoke the sand plains of Australia. Coastal plants will be grown in the sandstone areas near the edges and plants from the interior of Australia near the larger fieldstones. Western Australian plants will be located to the north of the central rift in the planting and eastern Australian plants to the south. Plants from specific geographical regions will be clustered with other regional plants. Plan a visit to see how this spectacular garden is coming along.



Australian Rock Garden

## Laguna Lagoons Restoration

The Arboretum's work contract growing and, then, planting for the California State Parks and Recreation is complete. Under the direction of Francis Campbell (Arboretum Facilities Manager), a cadre of student workers, community volunteers within the Friends of Santa Cruz State Parks, California State Parks, the Arboretum, and the California Native Plant Society helped plant the 110,000 native plants on five acres at Coast Dairies at the mouth of Laguna Creek. This project is one of the largest restoration projects in the county. The Arboretum collected all of the seed locally, grew the plants, and planted many of these for this restoration.

In a single day in January nearly 90 volunteers helped plant 11,000 plants to reclaim land along Laguna Beach to coastal sage scrub habitat with native coyote brush (*Baccharus pilularis*), lizard tail (*Eriophyllum staechadifolium*), and sage (*Artemesia tridentata*). The plants used in this restoration will serve the wildlife that live in this area such as the snowy plover, golden-crowned sparrows, and more than 200 species of insect.

## Slosson Endowment Award

The Arboretum received a \$36,000 award from the Elvenia J. Slosson Endowment for a project titled, "Central Coast Native Plant Horticulture". During the 2009-2010 fiscal year, the Arboretum will develop garden displays, improve availability to these choice garden plants, and enhance educational resources focused on Central California Coast native plants. The award will specifically support growing out of existing collections from seeds and cuttings and establishing these plants within the California Province Gardens. Exploration within Central Coast wildlands and the collection of seed and cuttings of outstanding selections is also supported. Educational outreach will be developed to promote the use of native selections in local gardens and for labeling of these plants in the garden.

## Hummingbird Day Hum-Dinger

A warm, sunny day greeted visitors to our annual educational open house, Hummingbird Day, on March 7th. It was easily one of the largest events ever held at the Arboretum. To accommodate the extra people, we spontaneously added four tours to the fifteen we had scheduled. New this year, we had a sorority, Alpha Kappa Delta Phi and a fraternity, Lambda Phi Epsilon helping our volunteers staff the kids' tables. The ornithology grad students led many children's tours and came up with a new graphic, postcards showing a pile of 572 Snickers bars, the number of bars that a person would have to eat to consume the equivalent calories per ounce of body weight that a hummingbird eats each day.

We thank our participants, volunteers and sponsors; Todd Newberry, David Suddjian, Barbara and Kevin Monahan of the Santa Cruz Bird Club; Oliver Klink and Munir Kureshi of incredibletravelphotos.com; Larry Selman of mostlybirds.com; the California Native Plant Society; Gold Rush Nursery; Sierra Azul Nursery; the Garden Company; Ladera Garden and Gifts; Pacific Sun Properties; Staff of Life; Joni Janecki and Associates; and the ornithology students from the Department of Ecology and Evolutionary Biology.



## A Message from Matthew Thompson, Arboretum Associates President



Dear Friends,

Volunteerism is flourishing at the Arboretum. There were 7,700 recorded volunteer hours at the Arboretum in 2008.

And we know there were many more volunteer hours that went unrecorded. I want to thank all of you for your contributions to the Arboretum. I also want to acknowledge that keeping track of time may seem at odds with the spirit of volunteer gardening. Time reporting is a part of the world that is not gardening, after all. But documenting the volunteer contributions to the Arboretum is extremely important as the Arboretum competes for non-profit and public-sector grants, contracts, and gifts. The level of local support is frequently a factor in the funding competition. An outstanding depth of support is demonstrated with the 2008 volunteer numbers.

The Arboretum would not look the way it

does today without continued volunteerism in countless tasks. Over the next several months the Associates Board will be looking at how the volunteer network can evolve to improve the volunteer experience, to reduce the staff time required for coordination, and to continue to attract dedicated volunteers. We solicit your comments and reflections.

It is also important to acknowledge the crucial role the Arboretum staff plays in the volunteer system. As the trainers, managers, and mentors of all the volunteer efforts, the staff spends time and creative energy to help keep all the balls in the air as they juggle multiple tasks. We all thank you for your boundless help and patience.

Your grateful Associates Board President,

—Matthew Thompson

### Make a Legacy Gift & Further the Mission of the Arboretum

Thankfully, members and friends have been generous in their support of the Arboretum, and that support has made it stronger. There is still much to be done to realize our mission and plans as articulated in the Mission and Program Plan. This article reviews various paths that one might take to further strengthen the Arboretum.

**Lifetime Gifts** - Making a lifetime-monetary gift to the Arboretum is fairly easy. Although checks are made out to the UCSC Foundation, by putting a notation “to benefit the UCSC Arboretum” the money will be wholly for its benefit. Setting up an automatic monthly withdrawal from a bank account or a recurring charge to a credit card can make gifting easy. Tad Sterling, Arboretum Director of Development, can help set this up for you at 831-427-2998. To underwrite a specific project consider making a multi-year pledge. Gifts of appreciated property usually allow you as the donor to claim a tax deduction for the value of the property while avoiding the capital gains tax on the appreciation.

**Retained Benefit Gifts** - Donating property, including money, in exchange for a lifetime annuity is a popular retained benefit way of giving. The Arboretum, through the UCSC Foundation, would pay you, the donor-annuitant, periodic payments (often quarterly) for your lifetime or, if giving as a couple, for your joint lifetimes. The amount is often set as a percentage, e.g. around 5%, of the value of your gift to the Arboretum. There are several annuity payment options such

as having the amount fixed, based on the original value of the donated property; having it change each year based on the value of the property as of the end of each year; or even having the payments start low and increase in later years. Tad Sterling and Michael Lorilla, UCSC Director of Development, welcome the opportunity to discuss these and other options with you.

A retained benefit option with considerable potential to reduce income taxes is the charitable remainder trust funded with one’s home. In a future article we will present creative ways to use one’s home in conjunction with one’s charitable gift planning. Tad is eager to meet with anyone wishing to discuss this kind of planning.

#### Gifts as Part of Your Estate Plan

Transfers that are finalized following the death of a donor are usually accomplished through the donor’s will or trust. Your bequest to benefit the Arboretum should be worded as follows: “...to the UCSC Foundation for the exclusive use of the UCSC Arboretum.” If the bequest is intended to benefit a particular project or invested in an endowment for a particular purpose, e.g., to fund student employees, this should be made clear in the bequest. Care must be taken that the gift is not so restrictive that your charitable intent goes unfulfilled. Generally, this is avoided by stating alternatives in the event that your initial designation cannot be accomplished. For instance, if your bequest is intended to support the Arboretum’s long range plan to build a visitor center you would want to specify an alternative in the event that

the visitors center was already built. The alternate might be something else that is dear to your heart, such as endowed curator support for your favorite section of the garden, or you might authorize the Arboretum Director, after consultation with your family, to select a substitute project as an appropriate use of your bequest.

Estate planning gifts are often contingent in the sense that the charity’s interest, in other words the Arboretum’s interest, will follow the interest of family members, hence you might establish a trust that benefits you and your spouse for as long as either of you are alive, and only after that will the Arboretum benefit. If you wish to make sure that the Arboretum will eventually receive the gift you intend, wording must be used that makes that part of your estate plan irrevocable upon your death. This is where the Arboretum Development Director can give you peace of mind by working with you and your attorney to assure, as far as humanly possible, your charitable goals are met and promises kept.

Our website will give you some creative ways to donate to the Arboretum. Either go directly to our website: [arboretum.ucsc.edu](http://arboretum.ucsc.edu) or, simply Google “UCSC Arboretum” to get there and click on the “Ways to Give to the Arboretum” heading on the home page—bright red lettering.

—John C. Bost, Arboretum Board Member, retired estate planning attorney and professor emeritus, & Michael Lorilla, J.D., UCSC Director of Development.

## First Hand Academic Experiences (cont'd - p. 3)

a hands-on introduction to botany that I didn't get in a classroom. My classroom experiences suddenly changed when, for example, Professor Holl would talk about restoring native grasslands and I could actually picture the plants she was talking about. During my Arboretum internship I transplanted native *Festuca* seedlings for the Arboretum's native collection, thus putting a face to a name that I had heard about in class. My short internship not only solidified my understanding of topics in the class but got me directly involved and interested in native plants. That involvement led to the job I have today at the Arboretum.

I remember during my internship, Brett was always encouraging us to develop and follow our own varied interests in native plants. Brett feels that exposing interns to a variety of topics prepares them for truly learning about a subject later on, and so he opened his extensive library to us. I told him I had interest in plant uses and he quickly directed me to various books on California ethnobotany, many of which I now own and refer to regularly. At the end of that internship I began working as a student worker at the Arboretum, and my practical knowledge of plants grew in a way that could not be achieved in classes alone. At the end of my senior year I was again immersed in an Arboretum internship, this time under the guidance of Professor Steve Gliessman, as I fulfilled my graduation requirement with a two quarter senior internship, "Ethnobotany of California: The value of traditional knowledge and our relationship to the land".

Winter quarter Brett had six student interns working on projects at the Arboretum, specifically assisting in the development of the California Native Province Garden. The students, with the exception of one, are studying Restoration Ecology in ENV5 160, this time under the direction of Professor Susan Langridge. For the Arboretum it is an opportunity to interact with the student community and get more accomplished on ongoing projects. For the students it is an opportunity to learn more about the Arboretum and put their studies into practice. Brett Hall says that it is the "Arboretum's role to interact with students and give them different perspectives", and the restoration ecology internships achieved the goal of "helping students to have a broader experience with native plants than they'd have in classes".

Over 10 weeks, Brett's interns worked to plant seeds, transplant seedlings, and finish deer fences around the California

Province Garden. There are now hundreds of seedlings coming up thanks to the efforts of the students, and these seedlings will be planted in the California Province Garden as part of an effort to expand the Arboretum's native plant collection and restore portions of the meadow between the Arboretum and Oakes College to native grassland. Intern Stephanie Winn says she appreciated the active introduction to native plants and taxonomic relationships she got this quarter during her internship. Stephanie was surprised to learn that she could actually enjoy studying taxonomy. She commented that she had never taken a taxonomy course because it seemed so daunting. At the Arboretum, however, it was more accessible and more interesting, and she says she naturally began to recognize and retain information about the classification of native plants.

The Arboretum provides a gift of beyond the classroom learning that benefits the entire academic community. Students who choose to use the Arboretum as part of their learning experience are rarely disappointed.

—Sara Reid

## Plant Sale... (cont'd - p. 1)

A very special offering this spring is *Xeronema callistemon* or the Poor Knights lily. According to New Zealand collection curator Tom Saucedo, this plant is "one of the showiest plants in the New Zealand flora." It is rare but easy to grow and has showy scarlet bottlebrush-like flowers, 8 to 12" long. The stiff dark green leaves are sword-like. The plant grows best when its roots are constricted. This lily thrives as a container plant and requires a warm sunny location with good drainage. It needs special attention however, as it is not frost hardy.

If you want to provide nectar for hummingbirds from California natives, we have several plants to choose from. *Aquilegia formosa*, the western columbine, is a deciduous perennial that has distinctive flowers with yellow petals and red spurs, and lots of nectar for hummingbirds. For light shade, you might also want to plant a twin-berry or *Lonicera involucrata*. This is a deciduous honeysuckle that can grow up to 10 feet tall. The tubular spring flowers are multicolored, and if pollinated they give rise to pairs of shiny black fruits. For a sunnier location, plant *Galvezia speciosa*, or island snapdragon. This is a low mounding shrub with semi-succulent leaves and bright red flowers.

—Helen Englesberg



*Xeronema callistemon*

Photo by Ian & Jocelyn Bell

A complete plant sale list will be posted on our web site by April 11th. Here are some more of the plants we will be selling:

*Arctostaphylos pumila*  
*Arctostaphylos manzanita*  
— Hood Mountain  
*Adenanthos X cunninghamii*  
*Anigozanthos flavidus*  
*Banksia grossa*  
*Banksia seminuda*  
*Banksia speciosa*  
*Boronia megastigma*  
*Callistemon 'Can's Hybrid'*  
*Chamaelucium uncinatum*  
*Crocea exalata* 'Sothorn Stars'  
*Darwinia citriodora* 'Seaspray'  
*Eriogonum giganteum*  
*Grevillea lanigera* — cream & red  
*Grevillea* 'Ruby Clusters'  
*Grevillea* 'Suberb'  
*Hebe topiaria*  
*Hibbertia truncata*  
*Iris douglasiana* 'Santa Lucia'  
*Isopogon formosus*  
*Indigofera australis*  
*Kunzea pomifera*  
*Pandorea pandorana*  
*Puya mirabilis*  
*Salvia apiana*  
*Salvia spathacea*



## New *Pachyphytum* & *Echeveria* hybrids available soon

*Pachyphytum*, *Echeveria*, and Mexican *Sedum* are attractive rock garden plants but they are fairly promiscuous. One offspring of an illicit affair is discussed later in this article. *Echeverias* are one of several plant groups, including *Sempervivum*, that are referred to as "hens and chicks" or "hens and chickens." This common name refers to species with low rosettes and several off-sets gathered closely around like little chicks. Members of this genus from Mexico (not those of northern Baja California) are summer growers. Several species are quite rare.

Regardless of some difficulty with the names, echeverias, graptopetalums, and pachyphytums look best and suffer less from pests and diseases when the older leaves are removed. They all benefit from applications of dilute liquid fertilizers a few to several times a year.

An Arboretum Life member, Robert "Bob" Grim, was successful in hybridizing between different genera and produced, for example, the inter-generic hybrids X *Cremnosedum* 'Crocodile' and X *Cremnosedum* 'Little Gem,' using *Cremnophila nutans* as a parent. The second parent for 'Crocodile' is *Sedum lucidum* and for 'Little Gem' is *S. humifusum*. We first received some Grim plants from Jack Napton and the International Succulent Institute. Soon after, noted hybridizer, the late Victor Reiter Jr, and his wife Carla hosted us and gave us many valuable Reiter hybrids and a few more of the Grim selections. After Bob and his late wife Margaret generously donated all of their remaining *Echeveria* and similar plants, we slowly began propagating the interesting ones, including the beautiful,

but long-named, *Graptopetalum amethystinum* X *Echeveria lilacina*.

With one species having the name about amethyst and the other lilac, you can imagine the colorful effect Bob was trying to achieve. The many shades of color present in this hybrid is rather remarkable. A waxy outer covering differs in thickness and whiteness over leaves that can be several shades of lilac and pale purple depending on how well watered, shaded, and fertilized the plant is.

Margaret and Bob sometimes shared bits of the plants with others (including members of the Sedum Society and Carmen's Nursery) and named several cultivars themselves. It is clear that without Bob's knowledge, some of his plants were given cultivar names, including the lilac/amethyst hybrid mentioned above. Until everyone can agree to a single cultivar name, I'll hold off on disclosing in print the name for the cultivar, *Graptopetalum amethystinum* X *Echeveria lilacina*.

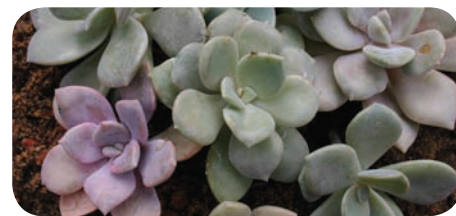
To honor Bob's work, apparently a friend named a hybrid he produced between *Sedum veradense* X *Echeveria rosea* as X *Sedeveria* 'Robert Grimm'. From our inquiries it seems it was probably named by the late Joyce Hoekstra of Squaw Mountain Garden Nursery. This colorful hybrid has been sold in the US and is distributed in Europe. The stems tend to elongate, the leaves are lightly short-hairy, not waxy and grow light-green to green with orange or red, depending on the growing conditions, getting redder with more sun. As this cultivar is widely distributed and recognized this name will probably remain. Bob had not heard of another of his hybrids being named X

*Graptoveria* 'A Grimm One' either. Some of these plants have found their way into international horticulture. Both of these intergeneric hybrids erroneously spelled Bob's last name as "Grimm." More than half of the photos of "unnamed hybrids" without hybridizer names in the book *Echeveria Cultivars* may be clones of plants produced by the Grims. He created and gave to us *E. albicans* X *lindsayana*, *E. diffractens* X *E. carnicolor*, and *E. pulidonis* X *lindsayana*, all of which appear to match hybrids in the book.

As part of a grant to the Arboretum from the Saratoga Horticultural Foundation, the International Crassulaceae Network, the International Succulent Institute, and growers from several countries will be queried about these hybrids and their origins. As of this writing some of the names need sorting out, but soon there will be many of the beautiful, named Grim hybrids and other attractive succulents at the Spring Plant Sale and at Norrie's Gift Shop.

We thank the Saratoga Horticultural Research Endowment, California Succulents, and the Monterey Bay Area Cactus and Succulent Society for their support for propagating, distributing, and publicizing the Grim Hybrids.

—Stephen McCabe



Cultivars of *Echeveria* and *Pachyphytums*

### PLEASE SEE COMMUNITY OF FRIENDS MEMBERSHIP PROGRAM ON PAGE 4

Yes, I want to give a gift membership or renew my Arboretum Associates Membership!

New Member     Renewal     Gift Membership\*     Donation Only (no benefits)

Check (payable to **UCSC Foundation**) Check No. \_\_\_\_\_

Cash

Please bill my [ ] Visa [ ] MasterCard [ ] Discover [ ] American Express

Card No. \_\_\_\_\_ Exp. Date \_\_\_\_\_

Cardholder's Signature \_\_\_\_\_

\*Gift from (Name, Complete Address): \_\_\_\_\_

Member Name (two names for *Salvia* or above) \_\_\_\_\_ Phone Number \_\_\_\_\_

Street Address \_\_\_\_\_ E-mail (for occasional reminders) \_\_\_\_\_

City, State, Zip \_\_\_\_\_  Yes, E-Membership\*

\*E-Membership helps the Arboretum save money by sending the Bulletin to your e-mail address.

#### Membership Levels

- \$45 Calif. Poppy  
 \$65 Salvia  
 \$ \_\_\_\_\_ \$100-\$249  
 Kauri Circle  
 \$ \_\_\_\_\_ \$250-\$499  
 Erica Circle  
 \$ \_\_\_\_\_ \$500-\$999  
 Banksia Circle  
 \$ \_\_\_\_\_ \$1000 or +  
 Protea Circle  
 \$2500 Life  
 \$ \_\_\_\_\_ Donation  
 - without benefits

## nursery discount program

Arboretum Associates can enjoy 10% discounts on plants (and sometimes on related merchandise) at the following nurseries:

**Gold Rush Nursery** new partner  
3625 N. Main Street, Soquel, CA 95073 • (831) 465-0314

**Drought Resistant Nursery**  
850 Park Ave., Monterey, CA 93940 • (831) 375-2120

**Garden Company**  
2218 Mission St., Santa Cruz, CA 95060 • (831) 429-8424

**Golden Nursery**  
1122 Second St., San Mateo, CA 94401 • (650) 348-5525

**Hidden Gardens Nursery**  
7765 Soquel Dr., Aptos, CA 95003 • (831) 688-7011

**Ladera Garden Center**  
380 Alpine Rd., Menlo Park, CA 94028 • (650) 854-3850

**Pottery Planet**  
2600 Soquel Ave., Santa Cruz, CA 95062 • (831) 465-9216

**ProBuild Garden Center**  
235 River St., Santa Cruz, CA 95060 • (831) 423-0223

**Sierra Azul Nursery**  
2660 East Lake Ave., Watsonville, CA 95076 • (831) 763-0939

And, of course,

**Norrie's Gift Shop** at the Arboretum.

*Printed with soy inks on recycled paper*

The **Arboretum** at UC Santa Cruz is a living museum *inspiring* stewardship of the world's biodiversity through research, *education*, and the *conservation* of rare, endangered, and *extraordinary* plants.

*Moving? Please let us know the address of your next garden... Thanks*

## Norrie's Gift Shop

at the Arboretum  
at UCSC



CELEBRATING OUR 15<sup>TH</sup> YEAR

10am - 4pm • 423-4977

Show your current membership card for 10% off!

Norrie's always has a great selection of plants, jewelry, housewares, statuary, books, and gift items.

356  
UC Santa Cruz  
**Arboretum**  
1156 High St.  
Santa Cruz, CA 95064

Forwarding Service Requested

Non Profit Org.  
U.S. Postage  
PAID  
Santa Cruz, CA  
Permit No. 32

The Arboretum is open daily from 9AM-5PM.  
Norrie's Gift Shop is open daily 10AM-4PM  
The Jean & Bill Lane Library is open by appointment.  
Visit the Arboretum's website at: [arboretum.ucsc.edu](http://arboretum.ucsc.edu)  
For information, or if you have any disability-related needs, call  
(831) 427-2998 or fax us at (831) 427-1524.