



# the BULLETIN

A quarterly publication of the Arboretum Associates

Winter 2008-09 Vol.32, No.4

## Academic Partnerships

Professor Lincoln Taiz hosted a recent meeting between key Arboretum staff members and UCSC faculty to look for additional ways we can work together on undergraduate and graduate level educational goals during tough economic times. This supports work begun a couple of years ago when Executive Director, Dan Harder served on the search committees for two new faculty hires. Even before they were hired Dan and staff let them know the resources available from the Arboretum. At the meeting we were able to highlight some of the work we had been doing that not all faculty were aware of and to brainstorm about possible joint funding sources. Among other things, they need money for grad. students and we need money for operations.

The Arboretum and UCSC ornithologists had a symbiotic relationship last spring.

The grad. students were under direction to do public service/community outreach. They suggested again that they could help out at an event where we provided the publicity and the audience and they provided some of the expertise. That event was another successful Hummingbird Day. (The next one will be March 7, 2009.)

One area identified for improvement was the website. Faculty pointed out the need for better directions on how to get from campus to the Arboretum and for more descriptions of the resources available to students and professors. In our quest to maintain our income stream, we realize we have done a good job attracting public visitors and customers to our sales and letting them know how to get here, but may not have always

*continued on page 6*

*Biology students on an Arboretum Tour*



## Buck-Eye Butter-Fly

At first sighting the Buckeye (*Junonia coenia* Hubner) is so unusual that it could easily be mistaken for an exotic tropical vagrant - or an escapee from an upscale wedding. Actually, *coenia* is Greek for common and *Junonia coenia* is among the most common butterflies seen at the UCSC Arboretum. Its sophisticated wing patterns of wavy orange stripes countered by eight graduated lavender-blue circles might be an abstract design for a Gothic cathedral window. Its spiny, orange-headed, black and white striped caterpillar is spectacular too: so scary that I drew one for my Halloween card this year.

I am a volunteer census taker for the Arboretum. Each week from March through November I hike a three-mile circuit through parts of Australia, South Africa, New Zealand, Northern California and the Aroma Garden. I spend somewhat over an hour identifying what I see, and checking off the sightings on my clipboard. My tally includes all butterflies within five meters of the transect route. Surveys are made thirty-six times a year and record sun, temperature and Beaufort wind scale. Results are posted in the Arboretum office Butterfly Log, as well as emailed to the North American Butterfly Association (NABA) in New Jersey.

*continued on page 3*







Cindy Lloyd, new Master Gardener from Carmel, happily loaded with choice plants from the plant sale

## Fall Plant Sale Success

In the Fall issue of this year's Bulletin, we called attention to the Fall Plant sale. We can now report on the success of this sale. Despite worries of a slow economy and lower than normal numbers of plants due to light brown apple moth restrictions, the plant sale was a resounding success, raising more than \$23,000 for the Arboretum. Norrie's gift shop saw an increase in sales as well on that weekend, bringing in more than \$1300. At the sale, we signed up 20 new members or renewals, showing that early access to plant sales is an important benefit of membership in the Arboretum Associates. Thanks to all who helped ensure the success of this sale as an important fund-raising effort.

## New Benefit: 20% Discount on a Subscription to Pacific Horticulture

The Arboretum, recognizing the many valuable services of Pacific Horticultural Foundation, both to the Arboretum and to those who have a serious interest in plants and gardens, has become an Affiliate Society of Pacific Horticultural Foundation. The immediate benefit to Arboretum Associate Members is that you are now eligible for a discounted subscription to *Pacific Horticulture* magazine.

Beginning in 2009, you will receive an informational flyer and subscription form in your Arboretum Associates membership renewal mailing. The Arboretum is very pleased to be an Affiliate Society of Pacific Horticultural Foundation and to be able to offer this discounted subscription rate to its members. If you are not familiar with the wonderful *Pacific Horticulture*, please look for it at the Arboretum's library, or visit [www.pacifichorticulture.org](http://www.pacifichorticulture.org).

Call the office (831 427-2998) if you have questions or wish additional information.

## Arboretum Awarded Second Contract from the California Department of Parks and Recreation; This Time for Planting

On December 31st, the Arboretum will successfully complete an initial contract with California Department of Parks and Recreation (DPR) to collect seed and grow more than 100,000 plants for the "Laguna Lagoons Uplands Coastal Scrub Restoration Project at the Coast Dairies Property on the North Coast of Santa Cruz County". This project seeks to restore once cultivated lands to coastal scrub vegetation at the mouth of Laguna stream. The seeds were collected in the early spring of 2007 and grown in facilities at the Long Marine Laboratory by Arboretum staff and student workers. This 18-month contract is the type of work the Arboretum is becoming increasingly involved in as regional needs for knowledge and expertise in native plants and their cultivation increases.



On November 17th, the Arboretum signed a second contract to plant these plants into the restoration area at Laguna Lagoons. The \$38,100 contract supports the physical planting of the plants and their initial care. Francis Campbell will continue to manage the planting contract with volunteer, student and staff assistance. Delivery of the plants and planting will begin in December and continue until they are all planted. There is opportunity to help with the planting project. If you are interested, please contact the Arboretum. Thank you.

*News & Notes continued on page 7*

## Comments from our Visitor's Book

"The flowers really told me how beautiful it is in Australia."

- 11 year-old visitor

"What a surprise around every corner! Everything is amazing. Facts and information were wonderful. We enjoyed ourselves very much!"

- visitor from Placerville, CA

## The Bulletin of the UCSC Arboretum Associates Volume 32, No. 4 Winter 2008-09

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Dear Arboretum Friends,

"Happiness lies not in the mere possession of money; it lies in the joy of achievement, in the thrill of creative effort."

Franklin D. Roosevelt,  
Inaugural Address, March 4, 1933

In 1933, President Roosevelt began the first of a three-term presidency while the world was in the grips of the Great Depression and the US was between two World Wars. The stock market had crashed four years earlier and the US emerged as the surviving global economic power in the New Deal.

This quote stuck me as relevant to the Arboretum and provides good perspective on our modern condition and future. The Arboretum's Community of Friends continues to connect with and support this special UCSC institution for many reasons. From our founding, as is true today, the renowned collections, the expert staff, and the Arboretum are reflections of extremely generous community giving, both financially and through in-kind contributions of labor, expertise, and materials. The Arboretum was established, grew, and is sustained by the generous personal dedication of our Community who connect with the "achievement" that is the Arboretum and continue to support our mission as "... a living museum inspiring stewardship of the world's biodiversity through research, education, and the conservation of rare, endangered, and extraordinary plants". The happiness we experience as staff and for you as members of the Community of Friends certainly is and has

been in the "joy of achievement" and "thrill of creative effort". "Money", generously and consistently provided, has allowed us to become the valuable resource that we are and will determine how the Arboretum will survive this temporary crisis and progress in the future.

Continuing from my column in the last issue, the state budget crisis and the economy have forced the Arboretum to look more carefully at our operations and severely limit expenses and double our efforts to raise revenue. The Arboretum responded immediately to our budgetary challenges through significant reductions to our student work force, cuts in salary expenditures by 14.5% through voluntary reductions, imposed severe restrictions on expenditures through eliminating all unnecessary expenses, and preventing any project cost overruns. Each of you has received our annual appeal letter requesting your help to raise funds to target a 20% increase in giving for this year. We hope each of you will explore what the Arboretum means to you and help us meet this challenge.

In addition, proposals for grants and contracts are being researched, prepared and submitted. Some new grants have been awarded (the planting contract with the California Department of Parks and Recreation, see inside this issue) and others we hope to announce soon. If we fail to meet these cost-reduction and revenue-generating goals, we will face reductions in staff time and possible layoffs. Any layoff of personnel will have serious negative consequences for the Arboretum and its future, including not being able to raise the support necessary to operate, creating more work for fewer people, and preventing us from meeting goals within existing grants and contracts. These are very challenging times for the Arboretum and for everyone, requiring a comprehensive strategy for making ends meet. We are positive about the results of our efforts. I am confident using the words of president-elect Barack Obama's campaign, that I believe, "Yes We Can".

The Arboretum Associates Board of Directors have resolved to help reach our zero deficit goal for this year and are taking an active role in fundraising, new revenue generating initiatives and helping chart our course through these difficult times when our focus necessarily is

on maintaining the value of the collections. The recent appeal mailing sent by Board President, Matthew Thompson, and outlines the many ways to help get us through this temporary crisis. Board members are keen to hear from each of you. Thank you for responding.

I attended a lecture by UC President Mark Yudof at the Commonwealth Club of California in San Francisco. He presented a grim picture with a decline in state support and a necessary reorientation of the basis of support for the University of California. Within his remarks there was hope. He reiterated that the vast holdings within the UC system of collections (more collection objects than the Smithsonian Institution) including invaluable art collections, biological collections in museums and herbaria, living animals and plants, and other "Objects of Knowledge" must be a priority for the UC to maintain the value of these resources for education and research during these difficult financial times. He commented that it is the sole responsibility of the UC to maintain these collections for the people and state of California. He made it clear it is a challenge and that no one else has this responsibility except the University of California. A podcast of President Yudof's November 17th speech is available through the Commonwealth Club of California website archives. The entire speech is very interesting. His comments on collections begin at approximately 59:30 in the podcast.

We need a New Deal. The connections of the Arboretum to our community are deep, rich and powerful. We depend on these connections to sustain us not only during times of crisis and need, but annually. Historically, hard times brought out the best in the Arboretum community. I expect the same result here; stronger on the other side. We hope during these times there is opportunity to openly and productively address with the UCSC, the UC and all stakeholders the situation that the Arboretum finds itself in and to seek sustainable solutions. As members of the Arboretum Associates you play a major role in supporting the Arboretum and discovering solutions.

I sincerely thank each of you for your continuing support and commitment to the Arboretum. As executive director, it is a daily pleasure to work with the Arboretum's "Community of Friends".

### Buck-Eye Butter-Fly... (cont'd - p. 1)

Santa Cruz County is not the best butterfly habitat, but the Arboretum is gradually expanding its inventory of butterfly attracting plants. October is usually the most active month in our location. The Fall cover of NABA's *Butterfly Garden* magazine featured a spectacular Buckeye and reminded me that I always wanted to call attention to this low-profile treasure lurking on the paths through the New Zealand meadow and along the busy entry road. Males perch on the ground in a spot where they have

a hundred and eighty degree vista and wait for romantic encounters. Even on the hottest days they don't find the temperature too high. They thermo-regulate by folding their wings over their backs and orienting parallel to the sun's rays. They are multi-voltine, meaning they produce more than one brood a year. The trailing edges of Buckeye wings often become shredded since predators aim at the big circles, thus missing vulnerable body parts.

*Junonia coenia* is in the brushfoot family (Nymphalidae). The front legs of this group

are reduced to sensory brushes that the females thump to identify food plants. Adults nectar on asters, clover and coyote brush (*Baccharis pilularis* DC). The larvae munch on plantains, monkey flowers, bee plants (*Scrophularia californica* Cham. & Schldl.) and other Scrophulareaceae. A dedicated butterfly gardener will plant a row of snapdragons, in this family, in order to entice females to deposit their single white eggs.

Butterflies on the wing can be tough to

continued on page 6



## Looking Back and Looking Forward

In writing this column about “membership and gift support”, I am always pulled in two important directions. I feel like the two-faced Roman god of the new year, Janus, looking both backward and forward in time. Looking back, there is much to appreciate and recognize, thanks to dedicated membership and gift support. It is equally important to look ahead at our future opportunities and challenges and recognize what needs to be done to ensure the Arboretum’s future. So, I decided, as we approach January, I would do a bit of both in this column.



Just looking back over the past five years since I have been fortunate to be on the Arboretum staff, one can only be extremely impressed by the sheer scope and dedication of support by Arboretum members and donors. In those five years, memberships and gifts have totaled over \$1,260,000. This represents, on the average, about 30% of the Arboretum’s total yearly revenue. It’s worth noting, as well, that members have also contributed much of the \$1,200,000 in Plant Sales and Norrie’s sales revenue, which represents about another 30%. Finally, if you recognize that members are the ones responsible for the dozen endowments that have been set up to support the Arboretum, one can be very proud there has been an additional \$770,000 (another 20%) in interest income revenue that has come in from these permanently established revenue sources.

Looking ahead, there are immediate challenges, but there are also enormous long-term opportunities. The immediate challenge, as laid out in the fall appeal letter you recently received, is to raise enough additional revenue and continue to cut costs to reach a zero deficit by June 30th. Though several grants will help cover some operating costs, most of the basic operating revenue needs to come from memberships, gifts, and revenue for sales.

Our opportunities ahead stem from the careful development of our Master Plan, and the resulting collaborative and funding partnerships which we are developing to expand our California Native Plant Collection and Program, and launch our Conservation Center. Funding for these major enhancements to the Arboretum’s collections and programs will come from grants and contracts for services, but these enhancements are only possible if the Arboretum’s basic collections care is assured as well by your continued support through your memberships, gifts, and purchases at plant sales and Norrie’s.

So once again, I want to thank you for your past support of the Arboretum, and in advance, for any future support you might give to preserve and enhance our collections and programs.

*Tad Sterling – Development Director – (831) 427-2998 – sterling@ucsc.edu*

SPECIAL PROJECTS YOU CAN SPONSOR!	SPONSORSHIP LEVEL
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

## 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

#### 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

## A Message from Matt Thompson, Arboretum Associates President



Dear Friends,

As the new president of the Arboretum Associates, I want to take this opportunity to introduce myself and the Arboretum Associates Board. The 12 members of the Board are a remarkable group of volunteers committed to providing leadership and community support for the Arboretum. As a 'friends organization', the Arboretum Associates works to raise funds and to provide leadership for the remarkable volunteer efforts that sustain the Arboretum. And as you know, with the budget crisis at the University, the Arboretum needs all the friends it can get.

We all have different reasons for our involvement with the Arboretum. For many, the love of gardening prompts them to volunteer. For others, the fascination with botany and with flora from around the world motivates their engagement. And for others, the arboretum is an aesthetic or even spiritual experience that enriches life. This last quality was what originally attracted me to the Arboretum; a walk through the gardens could open the senses and clear the mind.

In the six years I've served on the Associates board my own commitments to the Arboretum have evolved. I joined the board because I was intrigued by the potential of the Arboretum to mature into a living resource of global importance. As home to more than 10,000 rare, endangered and extraordinary plants, the Arboretum may well become one of the ultimate conservators of biodiversity.

My work as an architect gives me a chance to make local contributions to sustainability within our community. We are able to use materials and building strategies that conserve energy and natural resources and we use appropriate technologies to build wisely. But even at our best, these green building efforts will have a negligible impact on the health of the planet. The global challenges of climate and population changes make the Arboretum's living collection an asset we may need for survival. Our collective work to sustain the Arboretum may be the most important contribution we can make for planetary health.

—Matt

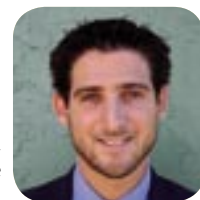
## Cooleys Establish Curator Apprenticeship Challenge Fund

Don and Diane Cooley, longstanding supporters of the Arboretum, have pledged \$10,000 as a challenge fund to initiate the first Curator Apprenticeship Program at the Arboretum. The Cooleys stated, "We were pleased that an outstanding Cabrillo College Horticulture student could be given the opportunity of further professional training, enhancing the Arboretum as well as providing a skilled local student participation in the field at the University level." This challenge fund will match one-for-one all gifts to this fund to reach a goal of \$20,000 to support the first curator apprentice at the Arboretum. Gifts of \$1,000 or more will be recognized as Apprenticeship Sponsors. This new program plans to seek candidates who graduate from Cabrillo College's Horticulture Program and award a part-time position for a 10-12 month period. Please contact Tad Sterling, Development Director, if you are interested in supporting this exciting new Program.

## Oops Occurs in Associates Board Nomination at BBQ

The September Member Appreciation BBQ was a complete success, except for one small but important omission during the brief Annual Membership Meeting. With a bit of fanfare, two newly nominated members-at-large were introduced, Josh Weinberg and Nancy Woolf. Unfortunately, in the excitement, a vote of approval was never called for, and this vote is required by the By Laws to install these new members to the Board. In absence of this required vote, and in order to fill two existing vacancies on the Board, the Board, at its October meeting, temporarily appointed Josh and Nancy to fill the vacancies until the next Annual Membership Meeting in 2009. Should you have any questions about all this, you can refer to the Arboretum web site section on Associates Constitution and By-Laws, or give Dan Harder or Tad Sterling a call at the Arboretum at 427-2998.

## Joshua Weinberg



Joshua is committed to social justice and environmental sustainability, demonstrated through active involvement in non-profit and environmental protection organizations. He studied at the University of Colorado, Boulder, earning a degree in anthropology and political science with an emphasis on East Africa. In 2002, Joshua returned to California, and opened One World Tropicals, LLC, a sustainable, import, tropical flower company. In 2004, he earned his CA Real Estate Broker's license and eventually opened Goldwin Mortgage and became the C.O.O. for its parent company, the Luken Corporation, a firm located in San Francisco specializing in real estate services. Currently, he also works as an analyst for the largest technology company in the mortgage lending industry. Creating community and securing representation for marginalized people are areas he feels need improvement both locally and on a global scale.

## Nancy Woolf



Nancy grew up on a family ranch in Huron, Ca. Her family still farms this land, producing almonds, pistachios, cotton, and tomatoes. She moved to Fresno for elementary school and then attended Santa Catalina High School in Monterey. She entered UCLA for art history and ended up in paralegal school in Philadelphia. Her first position was working for a mid-sized law firm in L.A. for a few years and then she went to USC for a teaching credential specializing in early childhood education.

She then moved to Chicago with her husband for his job and began her career in volunteering. Before long she found she had established her own early childhood classroom at home with three children, Annie (now 26 years old and in Connecticut in medical school), Philip (25 years old in graduate school in soil science at Washington State), and Jane (recent graduate in Spanish from Colorado College). Nancy returned to Pasadena and devoted time to schools, driving children to their lessons, and entertaining bankers. Eventually she moved to Westport, Connecticut and spent the next eighteen years volunteering as the President of the PTA, President of Westport Garden Club, Historical Society, book club, and other community organizations. She returned to a family home in Santa Cruz in 2006. She now is happy to serve on the Arboretum Associates Board, the Santa Cruz County Symphony Board, the Museum of Art and History Board, and the Friends of Hospice.

She is very happy to be back in Santa Cruz where she spent every summer of her life!





## Book Review

### *Introduction to Fire in California*, by David Carle.

UC Press 2008, 216 pp. 91 color photos, maps, drawings  
Cloth or paper, \$50/\$18.95

### *Living With Fire*, by Sara Jensen and Guy McPherson.

UC Press 2008 192 pp. photos, line illustrations  
Cloth \$29.95

UC Press has published six books related to fires in California in the past few years. David Carle was a speaker here at the Arboretum last year on the subject of air in California. In this book he explains the effect of climate change on fires in natural landscapes, what to do before, during, and after fires as well as a look at the history of fires in the state.

Though these books were produced before the recent outbreak of fires throughout the State, they are as up to date as anything written since.

Carle writes clearly and convincingly about the complex subject, especially stories of his experience as a park ranger for 27 years. There is not a question I could think of that he has not answered well.

The two authors of *Living with Fire* approach the topic from a different point of view: they outline the misconceptions about fires, the basic reasons for our failed fire policies, and the program necessary to overhaul the policy and management if we are to avoid any future catastrophes.

Their suggestions for officials as well as anyone who lives near a potential fire area on understanding how to cope with fires, how we created many of our problems, and how we must plan for a future which will always be faced with sudden appearance of flames.

– Bill Grant

## Academic Partnership... (cont'd - p. 1)

communicated as well to campus.

To address this, in part, I recently gave a talk on my research for campus faculty and grad. students. In it I was able to thank Michael Loik and other faculty for sponsoring interns over the years. I also mentioned a number of research interns, collaborations with a grad. student, and a project I have with Long Marine Lab investigating possible ocean dispersal of certain land plants. To further help with publicity we hope to upgrade the website as funding allows.

A specific grad. student I mentioned was Jenn Yost, who volunteered in the Eucalyptus Grove renovation project while at Cal Poly. She is now a grad. student at UCSC who is collaborating with me on my research, taking the lead in sequencing DNA from the Arboretum's *Dudleya* collection and interpreting the results for a joint research project. She works in the lab of the new faculty member, Kathleen Kay.

This fall, for the first time in several

years, we staffed a booth at the OPERS new student orientation to let students know right from the start where and what the Arboretum is. In the next bulletin, we will have a testimonial from a student who was an intern and student worker at the Arboretum. In News and Notes (page 3?) there are details of recent class tours to the Arboretum. We appreciate the willingness of both the long-time and new faculty to work together on academic and fund-raising goals.

– Stephen McCabe, Education Director  
and Coordinator of Research.



## Buck-Eye... (cont'd - p. 3)

identify but the flashing wing circles and unique stuttering, low-to-the-ground, flight of Buckeyes are diagnostic. Being aware of the location and time of year will always narrow down choices for the novice or student.

My three well-thumbed field guides illuminate different aspects of Lepidopteran literature. Kenn Kaufman's guide roams the entire United States, Jeffrey Glassberg's *Butterflies Through Binoculars* covers the West, and Arthur Shapiro's book, published by California Natural History Guides in 2007, focuses on central California. Shapiro, with a smaller number of species to document, finds space for detailed life histories. In addition to these field guides, my greatest aid is a pair of close-focus (3') Eagle Optics 8x32 binoculars. Staffer Tad Sterling recently came upon me scrutinizing the ground through them and realized that I was watching, not California quail, but a pair of copulating skippers. They had finally perched and I could study their orange spots with my binoculars and check off two Umber Skippers.

Brilliant male Acmon Blues sporting marginal orange hindwing bands, though tiny, are another gorgeous regular visitor. They can often be found on Native Garden buckwheats and the Coastal Mound developed by Brett Hall and Rick Flores. They also hang out among the tufts of *Festuca brachyphylla* Schult. & Schult. in the maturing meadow above the McHenry Amphitheater.

The Aroma Garden, completed last year with the assistance of generous Arboretum donors, added a plethora of butterfly attracting plants to my circuit. I came upon the garden designer, Angel Gurzon, while he was in the planning stages and put in my vote for several additional butterfly favorites. Many fragrant plants with essential oils attract butterflies as well as smell good to humans. Three species of Skippers (Umber, Fiery, and Woodland) plus the Mournful Duskywing regularly nectar here among other sippers.

Near the main office, volunteer golden straw flowers (*Helichrysum bracteatum* Vent.) Andrews) attract Skippers, three species of Ladies (*Vanessa*), and Mylitta Crescents (*Phyciodes mylitta* W. H. Edwards).

There are lots of distractions on the butterfly trail. I scrutinize everything that moves. Some days there are more bees than butterflies; Berkeley professor Gordon Frankie (frankie@nature.berkeley.edu) is presently tabulating Arboretum native bees. As I walk, hummers zip by, hoverflies hang out, and a grasshopper or a speedy dragonfly can spike a false alarm. One must just keep looking.

We are indeed fortunate to have such an incredibly beautiful garden in which to hunt for butterflies as well as visit a unique selection of world-wide plant species. There's something in bloom every month. Please take time to enjoy!!

– Edna Vollmer

## *Brett Hall and Arboretum Broaden Relationships with CNPS*

The Arboretum and the California Native Plant Society (CNPS) have a strong tradition of partnering on many projects together. This working relationship continues to broaden, to the benefit of both organizations and to conservation efforts in California.

Most recently, Brett Hall has been elected State Board President of CNPS. He will continue as the President of the local Santa Cruz Chapter.

In addition, the Arboretum is increasing its collaboration with the CNPS in several important new ways through the Arboretum Native Plant program. In addition to hosting the local Chapter's board meetings several times each year and the bimonthly Chapter public meetings, the Arboretum is participating in a collaborative Rare Natural Communities mapping Project. This project's first focus is maritime Chaparral which is an extremely sensitive habitat and plant community composed of many different kinds of associations along the central coast and northwards. Usually one or more forms of rare manzanitas are associated. Collaborators on this project in addition to CNPS and the Arboretum include the UCSC GIS lab, Department of Fish & Game, Cal Poly Swanton Pacific Ranch, State Parks, among others. Many significant large landowners are cooperating with the effort.

Other important partners the Arboretum is working with include Mike Vasey, Environmental Studies Ph.D candidate here at UCSC who is conducting his dissertation on maritime chaparral; the Elkhorn Slough National Research Institute, who have long been researching and conducting conservation workshops on Maritime Chaparral and many other sensitive coastal habitats; and Jim West, independent botanist from the north coast.

## *Yidumduma Bill Harney Visits the Arboretum*

Although the Arboretum was unable to raise sufficient funds to host a community event around a visit by Yidumduma Bill Harney and professor Paul Taylor and their personal stewardship of Wardaman (Australian) songs and story-telling as we had hoped, Bill and Paul with David and Charlotte Lee came to Santa Cruz and visited the Arboretum on a sunny October day. Australian curator Melinda Kralj, Board member Janet Lever-Wood, the volunteer Aussie Weeders, Arboretum Associate members and staff enjoyed an engaging afternoon walkabout, billy tea in the garden, and a potluck lunch with these special guests. The Arboretum missed a real opportunity to have Bill and Paul perform and share their stories for our community.



Those of us who spent this one afternoon with them were impressed and awed by the depth of knowledge and the willingness to connect us with the knowledge Bill has. Bill added an aboriginal perspective and depth to the richness of the Arboretum's Australian collections. Sara Reid, education assistant, documented much of the information Bill provided on the uses and stories associated with Australian plants in our collection. This information will be integrated into Sara's work on the ethnobotanical importance and uses soon to be part of the on-site interpretation in the garden. There are only a few opportunities during one's lifetime to meet such beautiful and valuable people like Bill. This encounter will remain a cherished memory for all of us who spent time with him.

## *Dried Flower and Succulent Wreath Sale*

On a recent unseasonably warm weekend in November, the Arboretum ushered in the holidays with the 24th Annual Dried Flower and Succulent Wreath Sale. This year's sale was dedicated to one of the event founders and longtime volunteer, Naomi Bloss. Over the years, Naomi has donated thousands of succulent plants for these sales. This past summer, Naomi and her family lost a barn, shed and several thousand plants in the local Trabing Fire; some plants had been in her collections for decades. Despite these losses, Naomi donated more than 300 plants to this year's sale.

The sale was a great success bringing serious shoppers and curious visitors to the two-day event. These beautiful wreaths and arrangements are the result of months of collecting, drying/growing, designing, and assembling by a dedicated team of volunteers who diligently

and creatively put together these works of decorative art. This effort brought in more than \$8,000 in much needed support for the Arboretum. Thanks to all who helped ensure the success of this fundraiser.

## *Bio 20b Student Tours*

As is becoming an annual or twice-a-year ritual, Director of Education, Stephen McCabe led tours for the students enrolled in the introductory Bio 20B course. In six tours over five days, Stephen walked the grounds with about 150 students and highlighted and discussed key topics for the course. Plant Ecology had a lab here and a College Eight class toured also.

The Arboretum is becoming increasingly valuable as an easily accessible resource for teaching and research at the undergraduate and graduate levels. The value added in using the Arboretum for teaching of UCSC courses to illustrate topics in evolution, taxonomy, ecology, pollination biology, and conservation to UCSC students is unrivalled at other campuses without such rich and diverse collections. In this way the Arboretum continues to support teaching at UCSC.

## *A Fond Farewell to Dick Dunn*

The Arboretum lost a good friend, Dick Dunn. Dick began volunteering in the Australian Garden about eight years ago. He was especially interested in the Australian Garden because his father was born in Cottesloe, near the city of Perth, Western Australia.

Dick was a powerhouse Energizer bunny. He raked and swept the paths and garden beds; he pruned throughout the garden; he built and installed traffic signs along the entry road and interpretive signs in the garden. He helped organize the "Aussie Weeder Clubhouse", and regaled us with interesting stories.

Most volunteers work a day or two a week, or a month. When Dick was in town, he would come every morning and put in a few hours before lunch. Then he would be gone, traveling. Delightfully and without fanfare, he would be back tidying up whatever had gone awry in his absence.

It is hard to believe, Dick won't be driving up in his white truck one of these mornings, cheering us along, and making the garden beautiful. We miss you, Dick. Thank you for everything. Gifts in memory of Dick Dunn help support the plantings and future improvements of the Australian Rock Garden.

– Melinda Kralj

## nursery discount program

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

### Gold Rush Nursery



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.

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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*

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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.