



# the BULLETIN

A quarterly publication of the Arboretum Associates

Spring/Summer 2011 Vol.35, No.1 & No.2

## Forty Free Plants at the Fall Plant Sale October 8th

People come from far and wide for Arboretum and Native Plant Society plants, but this year to create more excitement, bring in more people, and reward our shoppers, we will be giving away plants every hour on the hour from 11 am to

3 pm at our Fall Plant Sale. **You must be present to win one** of the 40 to 60 plants we will be giving away. There will be at least one each, in one gallon pots, of *Protea*, *Leucospermum*, *Grevillea*, and *Banksia* in the give-aways, as well as native plants and succulents in one gallon and smaller pots. Below, Helen writes about some of our bigger batches, but some of the batches too small to write about have floral treasures in them also.

– Stephen McCabe

### Plant Sale

Fall Plant Sale Saturday October 8

The Arboretum and the Santa Cruz Chapter of the California Native Plant Society fall plant sales will be on Saturday Oct. 8th in the Arboretum's Eucalyptus Grove. The sales are open to members only of both organizations from 10-12 and to the public from 12-4. Our sale will feature plants from Australia and South Africa as well as California natives.

One of our featured plants this sale is *Grevillea lanigera* 'Coastal Gem'. This low growing Australian shrub makes a good ground cover, border or rock garden plant. In bloom from winter to late spring with numerous clusters of red and cream spidery flowers, this plant has been our most popular introduction through our Koala Blooms program. It does best in sun and is drought tolerant once established.

Also featured in this sale are three banksias grown from seed collected from our plants at the

## Another Reason to Plant Drought Tolerant Plants: You Will Reduce your Carbon Emissions – Arboretum Wins Carbon Fund Grant

Planting drought tolerant plants not only saves you money on water and time watering, but also reduces the amount of electricity used to pump water to your house, which reduces greenhouse gas emissions. This is the Arboretum message that the UCSC Carbon Fund has sponsored for \$10,000. Carbon Fund projects are supported by the student fees voted in by the students. Student interns will be involved throughout the year-long project. We kicked off our pitch during Native Plant Week last spring when horticultural expert, Carol Bornstein, talked about alternatives to lawns in California at a book-signing for her most recent title, "Reimagining the California Lawn" by Bornstein, David Fross, and Bart O'Brien (available at the Arboretum gift shop/nursery: Norrie's). Her photos showed that wise planting for conservation can be beautiful as well.

The award was documented in the Santa Cruz Sentinel in an article, "UCSC Carbon Fund Promotes Green Projects on Campus and in the Community," by Tovin Lapan. Lapan quoted a student leader, "We are training students to go out into the world and implement real solutions," said John Michael Berndt, a UCSC senior who serves as the Carbon Fund's student facilitator. "It's one thing to have a knowledge-based system on campus, but we want to empower students to make change in the community. It's about bridging education with practicality."

We have worked on promoting native and exotic drought-tolerant plants for Central Coast gardens for years. What's new for us is making the connection to



*Banksia menziesii* Photo by Stephen McCabe.

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## Long-Term Funding Successes

### *New Langenheim Endowment supports teaching and research at UCSC Arboretum*

A gift of \$100,000 from Jean Langenheim, professor emerita of ecology and evolutionary biology, has established a new endowment in support of the UC Santa Cruz Arboretum. The endowment, "Strengthening Ties Between the Arboretum and Plant Sciences Faculty," is designed to foster more effective collaborative relationships between the Arboretum and UCSC faculty and students in the plant sciences.

The endowment has two main areas of focus: supporting Arboretum staff to assist with teaching and research related to plant science, and funding exhibits and displays at the Arboretum to highlight the plant sciences research of UCSC faculty and students.

"Jean Langenheim's endowment goes to the core of the Arboretum," said Arboretum director Brett Hall. "This generous endowment will foster tremendous learning and mutual support for research and conservation, while developing rich collaboration with the plant science faculty and graduate researchers. Jean Langenheim has long been a highly esteemed scholar, a leader in plant sciences, and an inspiring figure on campus. With this endowment, she is providing the magic to make good things happen."

An eminent plant ecologist, Langenheim has been involved with the Arboretum since she joined the UCSC faculty in 1966. She worked closely with Kenneth Thimann, a renowned plant physiologist and founding provost of Crown College, who helped shape the Arboretum into an internationally known horticultural site.

"Kenneth Thimann was very committed to the Arboretum and encouraged all the plant science faculty to use it as a resource for educational and research activities," Langenheim said. "This endowment is meant to reinforce and strengthen those academic ties."

Although plant science is the primary focus of the endowment, it can also be used to provide support for faculty and students working with animals that interact with plants, such as birds and insects. The endowment will be administered by a committee that includes Arboretum staff and plant science faculty from Ecology and Evolutionary Biology, Environmental Studies, and other departments with faculty engaged in plant science research.

Ingrid Parker, professor of ecology and evolutionary biology, will serve on the committee as holder of the Langenheim Chair in Plant Ecology and Evolution. "I'm excited about how this endowment provides a catalyst for creativity in our work. In discussions between faculty and Arboretum staff, we have already generated a dozen novel ideas for ways to build capacity and share the lessons of ongoing research with the community," Parker said. "Our Arboretum is not only a place with an exceptional collection of plants from around the world, it is also a vibrant community of people who are interested in plant biodiversity and horticulture. We all have a lot to gain from our interactions."

Michael Loik, associate professor of environmental studies, said the Arboretum serves teaching and research needs not only on the UCSC campus, but for institutions throughout the world. "The Arboretum is a storehouse of tremendous biodiversity, and the staff is very knowledgeable, so people contact them for botanical samples for a wide variety of studies," he said.

Previous gifts to UCSC from Langenheim have established the endowed chair now held by Parker and a graduate fellowship in plant ecology and evolution.

"Jean has been an amazing presence on our campus in terms of her contributions to the field of plant sciences, and her new endowment is one of many ways that she has given back to UCSC," Loik said.

— Tim Stephens

## New Green Endowment supports students at UCSC Arboretum



Memorial to Dudley Green.  
L to R – John Bost (executor), Jenny Bost,  
Melinda Kralj (curator), Susanna Arias (artist).

A gift of \$127,000 from the estate of World War II Navy veteran Dudley Green has established a new endowment in support of the UC Santa Cruz Arboretum. The endowment, named the Edna and Hugh Green Fund in memory of Mr. Green's parents, is designed to foster continued student involvement in the UCSC Arboretum.

The endowment will provide support for work-study students as well as student interns and volunteers working with Arboretum staff on senior theses and other projects. Students will have opportunities to earn course credits through work in the Arboretum that enables them to learn about plant conservation, habitat restoration, and horticultural principles and techniques.

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## The Bulletin of the UCSC Arboretum Associates Volume 35, No.1 & No.2 Spring/Summer 2011 Published September 2011

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**Green Endowment...** (cont'd - p. 2)

John Bost, a retired estate planning lawyer and professor emeritus at San Diego State University, designated the \$127,000 gift to create the Edna and Hugh Green Fund. Bost, the author of Estate Planning and Taxation, was the conservator for Dudley Green for thirty years and managed his financial affairs. He and his wife, Jenny, visited Green and took him to enjoy meals, music, and gardens over the years, providing him with some sense of family after the passing of his parents. Green wanted part of his estate to honor his parents, Hugh and Edna Green, and as part of his estate plan designated Bost to select the charity. Bost said he chose the student educational programs at the Arboretum to receive the funding because it fit with Green's enjoyment of gardens and his desire to help others.

The Bosts, who are long-time Arboretum volunteers and donors, also commissioned a bench in honor of Hugh and Edna Green that was placed along what will be called the "Green Path" at the Arboretum. The bench, crafted by local artist Susanna Arias, is in the entrance native garden where visitors can sit and enjoy the native garden to the southwest or the proteas of the Dean and Jane McHenry Garden to the northeast.

At a dedication of the bench, John Bost commemorated the occasion with the following statement:

Jenny and I are pleased to present this bench as a gift from us to the University's Arboretum. May it stand as a testament to Dudley's generosity and as a commemorative in honor of his parents, Edna and Hugh Green. We hope that visitors looking at or resting on this beautiful bench will pause to think of and honor their parents as well as other family members and friends who have offered them love, support, and care, especially during difficult times. Let us also thank our own parents and remember them. Those of us with children, let us think of them and appreciate the importance of that reciprocal relationship, full of love and respect without limitation.

Arboretum director Brett Hall said that Dudley Green's gift, as well as the recent \$100,000 gift from Professor Emerita Jean Langenheim for Strengthening Ties Between the Arboretum and Plant Sciences Faculty, "have truly helped the long-term stability of the Arboretum. Visitors can find the new bench by starting at the entrance parking lot and walking up the Arboretum's "World Tour/Elvander Trail" for about 80 yards, where the bench can be spotted from sign #25 on the Elvander Trail.

– Stephen McCabe & Tim Stephens

## Short-term Funding is Down, Katie Cordes Laid Off

We sadly announce the end of Katie Cordes' employment at the Arboretum, effective August 31, due to lack of funding. She had been working as an assistant administrator for three years. Katie is enormously talented and gracious. Visitors, volunteers and staff will miss her delightful disposition, many smiles and willingness to help. We wish her the best in her next job.

## Seminar on Planned Giving and Major Gifts

Virginia Rivera, director of gift planning for UCSC, and Eileen Hamilton, estate planning attorney will present a seminar on Tuesday, September 20, at 10:00 am in the Horticulture Building to discuss the importance of estate planning and how you can bypass capital gains, increase income, receive a charitable deduction and benefit the Arboretum. While immediate, unrestricted gifts are vital to help keep the gardens beautiful now, some people may be better able to help through estate gifts of property or other assets. Using the proper language ensures your gift will do the most good for your areas of interest in the Arboretum.

If you are unable to attend and are interested in making an immediate donation or a gift through your will (or living trust), please contact us: Stephen McCabe, (831)427-2998 (ext 105 for messages), [smccabe@ucsc.edu](mailto:smccabe@ucsc.edu) or Virginia Rivera, (831)459-5227, [vorivera@ucsc.edu](mailto:vorivera@ucsc.edu).

## News: Arboretum Matching Funds

The University has introduced a three-year program of incentives to encourage friends of the Arboretum to donate to on-going funding of the Arboretum. Here are some of the highlights.

If you donate the same amount as last fiscal year (July-June), your donation will be matched 1:1.

If you increase your donation, the additional amount will be matched 2:1.

If you did not donate last year, your donation this year will be matched 2:1.

It is encouraging during these tough financial times that the University is working with the Arboretum to both raise new revenues and to help pay off old loans. Your gifts will solely be used to keep the Arboretum running. The first \$250,000 of the University's match each year will go towards the debt, but the next \$50,000 will go into a fund functioning as an endowment that can be used for on-going expenses.

The matching is only for on-going operations and projects, not new endeavors. If we are successful, a total of \$900,000 may be matched over the three years!

The bottom line: Gifts help. New gifts and increased gifts help even more. Your dollars go farther now.

A gift that just came in, from an estate, for \$53,000 will be matched by the University. Please join our efforts to raise these matching funds.

## Our Legacy Society

The 21st Century Club acknowledges those who have included UC Santa Cruz in their estate plans or made a Planned Gift to UCSC. You choose whether to make your decision public or not. Currently, the Arboretum has more people who have included us in their estate plans than any other unit on campus. If you are interested in becoming an honored member of the 21st Century Club, email or call UCSC's Director of Gift Planning, Virginia Rivera or call Stephen McCabe.

Member Benefits for the Legacy Society include meetings with the Chancellor at events, receipt of special publications, invitations to special campus and community events, recognition as a University philanthropist, and a designated campus contact.

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Students and volunteers have fun while preparing for and carrying out the plant sale.



Brett Hall

## Conservation Collections to Conservation Gardens

While models for climate change disagree on the intensity of future summer fog and decades of data point to diminishing fog intensity along the coast, this year's cool summer in Santa Cruz with many fog drenched nights and early mornings, wouldn't necessarily lead you to any conclusions. Most of California enjoyed above normal and record late rains this last year, and with the deep snow pack and intense spring and summer wildflower displays, it gives one the impression that everything is going to be ok! But everyday from all directions, we are exposed to disappointing news and observations of habitat destruction, invasive weed advances across the north coast, and local population extinctions, to name but a few. However, we also hear about new discoveries of plant populations, new gardens, new cultivars, new people discovering their love of plants, gardening, education and conservation. I think there is more than just hope in a microcosm, I think there are things that we can do.

The Arboretum is very fortunate because we can do things that matter to people and help make the environment more interesting, more alive, produce more oxygen and sequester more carbon. We grow and propagate plants. This is what we do best and what we plan to keep on doing. Years ago Roger and Gwen Elliot had a marvelous logo statement for their Australian Native Plant Nursery, Part of Conservation is Growing. This expression is worthy of a regional native plant landscaping movement. It is particularly relevant to land stewards who monitor wild areas or do treatments to encourage native plant recovery in place, or to nurseries and growers involved in restoration, and it certainly is relevant to the Arboretum. We conserve rare and extraordinary plants from around the world. Many are unusually beautiful or represent collections from populations that have disappeared. Our conservation collections range from Australia, New Zealand, New Caledonia and California. They represent collections of *Phyllocladus trichomanoides*, native to the serpentine Surville Cliffs of North Island New Zealand, to compact low-growing forms of *Banksia grandis* occurring naturally almost in the surf on Cape Leewin, Western Australia, to the Ohlone manzanita, *Arctostaphylos ohloneana*, known only among rare maritime chaparral in the Chalks along the ridges of the upper Scott Creek water shed in the Santa Cruz Mountains. It will not be much of a leap to go from conservation collections to conservation gardens displaying rare plant communities and maintaining a seed bank and live plants to safeguard the genetics of populations. Again, studies and predictions suggest more fog on the one hand and less fog on the other. The climate will change and plant species will be on the move with fewer and fewer places to go.

## Book Review: A Californian's Guide to the Trees Among Us. Author, Matt Ritter. Heyday Books.

Matt Ritter, Botany Professor, Cal Poly, San Luis Obispo has done it again! His earlier book, *Plants of San Luis Obispo: Their lives and Stories* was a generously photographed and very exciting regional treatment. *A Californian's Guide to the Trees Among Us* is yet another stellar performance and a superb guide and reference to the trees used in California landscapes. Dr. Ritter's guide will quench your thirst and curiosity and inspire your attention to the trees across California's urban landscapes. The guide is exquisitely photographed, neatly and very helpfully organized, marvelously illustrated with drawings and well placed guiding icons directing the reader to specific kinds of information on the page. The identification keys work! Each species is characterized and has its botanical name along with their Greek or Latin definitions, phonetic pronunciation detailed, country or region of nativity, tree size, and more. Dr. Ritter also delight's us on each page with quotations about trees and their value from famous (and not so famous) scholars and wise individuals. This book is a must for every landscape professional, tree enthusiast, natural historian and educator, as well as the casual to fanatical botanist. Buy your copies now from Norrie's Gift Shop. At only \$18.95 it's a steal!

## Heraclitus, Fire and FREMONTIA

The ancient Greek philosopher, Heraclitus believed that fire is the origin of all things and that the world is continuously changing. At the core of his philosophy was the observation that you cannot step into the same river twice and that fire transforms!

During the last several years, wildfires have transformed the central coast and contributed tremendously to our understanding of local plant communities, flora, land-use and fuels along the wild urban interface. Fire awareness may be at an all time high. Members of the California

Native Plant Society are currently receiving a special double issue of the *Fremontia* journal, *Native Plants and Fire Safety*. Jon E. Keeley who is a research scientist with USGS, wrote the introductory article, *Fire on California Landscapes*. In addition to introducing the volume and highlighting the important discussions in the various papers, Dr. Keeley describes the diversity of fire regimes and the effects that changing these regimes has had on California vegetation. He points out in thundering prose that the population of California is set on a trajectory to increase to 60 million by 2050 and how this population trend is likely to have tremendous influence on both fire as well as habitat conversion.

There are ten fire papers in this volume: In Betsy Landis's paper, *How CNPS Developed a Policy on Native Plants and Fire Safety*, she presents the case for why and how CNPS developed a fire policy during the last several years. She clarifies the challenges and problems interpreting and responding to Federal, State, and County agency regulations (among others) and how important it is to weave through and locate the statutes in place that may do more damage than not. For example, she cites one instance where a County was instituting the California Fair Plan (CFP) and required 3,000 feet clearance for defensible space. Jack Cohen's paper, *The Wildland Urban Interface Problem* introduces the concept of engineering a site and home so that it can survive without the necessity of wildfire control. He presents this concept and challenges us to develop a mindset moving away from "wildfire exclusion to wildfire compatibility".

Authors of the CNPS Publication, *Manual of California Vegetation*, Todd Keeler-Wolf, Julie M. Evens and John O. Sawyer, contributed a paper to the Fire Issue on Interpreting Fire and Life History Information . . . providing a very useful approach to use the Manual in understanding the many diverse ways that fire interacts with different vegetation types and in different regions of California. While fire is a natural process that California vegetation has evolved to survive, refresh and grow from, there are huge challenges coping with invasive weeds that are also favored and follow fires. *Invasive Species and Fire in California Ecosystems* by Adam M. Lambert, Carla M. D'Antonio, and Tom L. Dudley provides an excellent introduction to some of these problems and challenges.

In *Sustainable and Fire-Safe Landscapes: Achieving Wildfire Resistance and Environmental Health in The Wildland/Urban Interface*, author Sabrina L. Drill, confronts the circumstances of what went wrong following fire where nurseries sold drought tolerant invasives to homeowners in the Wild Urban interface. Her article and our very own Santa Cruz

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

All three make excellent cut flowers and are not often available for sale. *Banksia menziesii* or the Firewood Banksia is a small to medium shrub or sometimes a small tree with acorn shaped flowers that are silvery in bud and open to red and then finally golden. *Banksia victoriae*, the wooly orange banksia, has cylindrical flowers with pale pink hairs and orange styles. It has long narrow leaves with prickly triangular lobes. *Banksia prionotes*, the acorn Banksia, has grey buds that open into orange acorn shaped flowers.

The silver leaf manzanita, *Arctostaphylos silvicola* 'Alma' is one of our local native plant selections. It originated from the sand hills around Ben Lomond near Zayante. This manzanita has silvery leaves, which contrast well with gorgeous deep red bark. It attracts hummingbirds and has flourished in cultivation.

Another great plant with nectar for hummingbirds is *Penstemon cardinalis*, which is Native to West Texas and New Mexico. This perennial blooms in mid summer with deep red flower spikes, which contrast with its deep green leaves.

– Helen Englesberg.

The following list includes some of the plants, which will be available at the sale. A more complete plant sale list will be on our web site [arboretum.ucsc.edu](http://arboretum.ucsc.edu) beginning October 1st. In addition to these, there will be succulents and the CNPS plants. Local nurseries will be donating other sale plants to make an even bigger selection.

*Adenanthos sericeus* ssp. *sericeus*  
*Arctostaphylos edmundsii* 'Little Sur'  
*Beaufortia squarrosa*  
*Banksia marginata* 'Mini Marge'  
*Banksia speciosa*  
*Banksia spinulosa* 'Schnapper Point'  
*Berberis pinnata* ssp. *insularis*  
'Shnilemoon'  
*Boronia crenulata* 'Rosy Splendor'  
*Epilobium* 'Select Mattole'  
*Callistemon* 'Cane's Hybrid'  
*Correa pulchella* 'Pink Eyre'  
*Correa reflexa* 'Kangaroo Island'  
*Crocea exalata* 'Southern Stars'  
*Erigeron grande* var. *rubescens*  
*Grevillea* 'Austraflora Fanfare'  
*Grevillea* X *gaudichaudii*

*Grevillea intricata*  
*Grevillea* 'Mason's Hybrid'  
*Grevillea* 'Poorinda Blondie'  
*Grevillea* 'Waikiti Sunrise'  
*Kennedia nigricans*  
*Leucadendron* 'Safari Sunset'  
*Leucadendron* 'Safari Sunshine'  
*Leucadendron strobilinum*  
*Leucadendron salignum* 'Winter Red'  
*Leucospermum cordifolium* 'Yellow Bird'  
*Phyllica plumosa*  
*Pimelea nivea*  
*Protea* 'Pink Ice'  
*Salvia apiana*  
*Vaccinium ovatum* 'Blue Madonna'



*leucospermum, protea*

## News & Notes... (cont'd - p. 3)

### *Eucalyptus Grove: New Labels and the Next Era*

The Eucalyptus Grove is home to the first plantings in the Arboretum. It is the largest collection of Eucalyptus species grown outside of Australia. The first trees were planted 47 years ago, the year before ground-breaking for the UC Campus. It has been 23 years since Grace Heinz volunteered her services monitoring, identifying and labeling trees in the Grove, supported by a donation from Diane and Don Cooley. And it has been about 22 years since volunteer Dick Painter and former student Tom Moutoux contributed enormous time and energy pruning the grove. During that time, the trees have thrived. Many grew enormous. Some had progeny... lots of progeny. Birds introduced ivy and poison oak volunteers, which draped the trunks of trees and formed frightening thickets. In short, it became difficult to see the forest for the trees.

Five years ago (Nov 2006) Eucalyptus authority, Professor Matt Ritter accepted a visiting scholar position, graciously made available by an anonymous gift to the Arboretum. Matt, with the help of his graduate student, Jenn Yost, and Australian Curator, Melinda Kralj, found and identified the original trees within the dense thickets of growth. In many cases, Ritter and crew had to climb up into the trees to obtain flowering and fruiting material for identification. Ritter and Yost made herbarium specimens of all trees within the Eucalyptus Grove. One is housed here at the Arboretum; a second at Cal Poly, San Luis Obispo. Ritter and Yost have researched Eucalyptus throughout California. They published their findings in *Madroño*, Vol 56, 2009.

Serendipitously, Walter Pingree began volunteering at about the same time. Undaunted, at eighty-one years old, he offered to help remove poison oak. (We tried to dissuade him, but he insisted!) Walter has been working faithfully every Monday morning for the last five years. Not only do we appreciate his work, but he kept things lively with his recounting of operas he attended and stories of when he was a bugle boy in WWII. David Vollmer and Manuel Santana have taken up the baton, and are making their mark on the Eucalyptus Grove. We have also had assistance from our Ranch View Terrace neighbors, Melinda's brother, Chris Kralj, ACE (American Conservation Experience) volunteers, and Jenn Yost's Biology 20B students. We have opened up vistas, and created inviting pathways. Planting of understory plants has begun. We have also planted additional species of Eucalyptus, further enriching the diversity of this remarkable collection.

Exciting news: This July, we installed almost 100 Eucalyptus labels. The labels are durable photo metal, directly attached to the trees by springs & screws to allow the trees to grow. Each label lists the common name, the scientific name and a one or two sentence description providing interesting information about the tree. There are beautiful, clear line drawings by Annette Felice, of the fruit capsules and buds & fruits, and a map of Australia indicating the species' natural range. The majority of the labels are in the Eucalyptus Grove, along the main road and pathways. Three labels may be seen closer to the Arboretum Office. One is on the Snow Gum with the spider web sculpture; two are in the next bed along the Hummingbird Trail, and another is on the Peppermint Gum near the picnic tables in the north Banksia Field. Labels were funded through the visiting scholar fund, and by generous donations from Martin & Sue Garbowitz, and Ed Lax.

We will be having a tour Saturday, October 1 at 9:00 am to celebrate the Eucalyptus Grove. Please join us!

–Melinda Kralj



# calendar of events

## Fall 2011

### september

See the artwork at Stanford done by Arboretum alumus, Claudia Stevens. This is part of a collaborative project by Claudia Stevens, the UC Santa Cruz Arboretum and the Amah Mutsun Tribal Council. The project is funded by the Creative Work Fund and is at the Stanford Paul Allen Building, Mon-Fri, 8:30-5:00, continuing through Sept. 22. Claudia has painted plants selected by the Amah Mutsun, which have been or will be planted in the Relearning Garden at the UCSC Arboretum. She is also exhibiting some of her other paintings of Arboretum plants. [cstevensstudios.com/exhibitions/](http://cstevensstudios.com/exhibitions/)

#### 2011 ARB B Q. THE ANNUAL MEETING OF THE ARBORETUM ASSOCIATES. ELECTIONS.

*Sunday, September 18*

3:00 pm Appetizers and liquid refreshments

4:00 pm Let's Eat!

4:45 pm Annual Meeting and Election of Board Members

5:00 pm Plant give away to members. Each member gets one ticket to try to win one of the door prize plants. The ArbBQ will also serve as a reunion for former student workers and volunteers. Kids welcome. Former workers please come back and visit!

#### SEMINAR ON PLANNED GIVING AND MAJOR GIFTS

*Tuesday September 20th, 10 am*

Virginia Rivera, director of gift planning for UCSC, and Eileen Hamilton, estate planning attorney will present a seminar on Tuesday, September 20, at 10:00 am in the Horticulture Building to discuss the importance of estate planning and how donations can both benefit you and the Arboretum.

### october

#### EUCALYPTUS GROVE TOUR

*Saturday October 1, 9:00 am*

Celebrate new labels in the grove with the Curator of the Australian Collections, Melinda Kralj.

#### GARDEN TOUR

*Saturday, October 1*

1st Saturday of every month. Tour of the Arboretum, free with admission. Meet at Norrie's at 11:00 am.

#### COMMUNITY DAY

*Tuesday, October 4*

1st Tuesday of every month. Free admission to the Arboretum.

#### INDIGENOUS LANDSCAPE MANAGEMENT ON THE CENTRAL COAST OF CALIFORNIA.

#### EVENING TALK

*Wednesday, October 5*

*6:00 pm potluck, 7:00 pm talk*

Bio: Rob Cuthrell is a Ph.D. Candidate in anthropology, specializing in paleoethnobotany, at UC Berkeley. He is part of a research team working on a multidisciplinary research project investigating how indigenous groups in California transformed landscapes on the central coast using fire. This research project brings together archaeological, ecological, paleoecological, historical, isotopic, and fire history data sets to explore how the development and extent of indigenous landscape management practices might be reconstructed.

#### FALL PLANT SALE

*Saturday, October 8*

UC Santa Cruz Arboretum and CNPS, Santa Cruz County Chapter  
*Public sales are from noon to 4. Member's only sale 10-noon.*

Memberships available at the door.

At the UCSC Arboretum Eucalyptus Grove, High St. across from Western Dr. There will be free plants given away on the hour, each hour from 11 to 3pm. The 11 am plants are for members only. Must be present to win.

[www.cruzcnps.org](http://www.cruzcnps.org) or [arboretum@ucsc.edu](mailto:arboretum@ucsc.edu) for more information. Talk at fall sale.

12:30 pm. On native salvias (sages).

### november

#### ECOLOGICAL EVOLUTION IN ARCTOSTAPHYLOS

*Thursday November 3*

*Potluck at 6:00 pm, talk at 7:00 pm*

Tom Parker, professor of ecology at San Francisco State and Manzanita expert. He is one of the authors of the treatment for *Arctostaphylos* in *Flora of North America* (Volume 8) and the *Jepson Manual 2nd ed.* He has edited 3 books and has over 70 journal publications.

#### GARDEN TOUR

*Saturday, November 5*

1st Saturday of every month. Tour of the Arboretum, free with admission. Meet at Norrie's at 11:00 am.

#### COMMUNITY DAY

*Tuesday, November 8*

1st Tuesday of every month. Free admission to the Arboretum.

#### DRIED FLOWER AND SUCCULENT WREATH SALE

*Saturday Nov. 12, 10 am - 4 pm*

*Sunday Nov. 13, 10 am - 2pm*

#### THANKSGIVING

*Arboretum Closed*

### december

#### TOUR OF THE ARBORETUM

*Saturday, December 3*

1st Saturday of every month, free with admission. Meet at Norrie's at 11:00 am.

#### NORRIE'S HOLIDAY OPEN HOUSE.

*December 3 & 4. 10 am - 4 pm*

#### COMMUNITY DAY

*Tuesday, December 6*

1st Tuesday of every month. Free admission to the Arboretum.

## Drought Tolerant... (cont'd - p. 1)

carbon reduction. By conserving water one is also conserving energy. Energy is required to pump and purify the water that we have.

If you get your plants into the ground during the fall or early winter, you will need less water to get them established before California's long summer drought. Instead of the traditional spring planting, water savers recommend planting in the fall. So Fall is the new "Spring" as far as planting time is concerned. Come to the Arboretum's Fall Plant Sale and get your plants in the ground before February to help your garden and the environment.

Each Carbon Fund project "is community-based, requiring cooperation between students, staff and community members. Staff will work closely with students and conservation groups to help the public save water."

We hope the Arboretum drought tolerant planting recommendations will save 740,000 gallons of water per year throughout the region, while reducing

the consumption of gasoline and other petroleum projects used to deliver and purify water. As with any conservation program, they will be more effective over the long run if population growth slows, rather than speeds up.

Students will also encourage residents to plant trees efficiently. It's great to plant a tree, but if you plant it right under power lines, you have to prune it back with chainsaws for the next 20 years. After a while, you consume so much energy that you more than offset the benefits of planting the tree, to store carbon, in the first place.

So the two aspects of the project each encourage gardeners to plant wisely to reduce the production of greenhouse gases. Planting drought tolerant plants saves water and thus energy. Planting trees wisely will reduce chain saw use, which will reduce the production of greenhouse gases too. We appreciate the interns who will be helping us and the students who helped fund the Arboretum's Carbon Fund project.

—Stephen McCabe



iris and salvia

## Heraclitus Fire... (cont'd - p. 4)

CNPS Chapter Treasurer, Suzanne Schettler's article shatters some of the myths about which plants are more fire prone and which aren't. Many natives maintain high degrees of moisture in their foliage with very little rain (or fog) far better than well-watered temperate non-natives in many instances. Landscaping your yard to be fire safe involves plant choice (for sure) and a whole lot more. Suzanne Schettler's article, *Fire Resistant Landscaping: A General Approach and Central Coast Perspective*, provides an effective guide to the kinds of considerations one needs to take in the structure, design and plant choices to provide safety to your home through a native garden in a fire prone region, like the central coast.

There are a few more articles to mention covering different aspects of the effectiveness of Fire safe Councils: Julie Rogers relates her experience with the Mendocino County Fire Safe Council and the many ways that they have helped their citizens to survive. Yvonne Everett's article, *The Role of Fire Safe Councils in California*, covers the subject and offers direction, and finally, Greg Rubin contributes a lively article detailing some critical lessons learned in his article on *Wildfire Safety, Lessons Learned from Southern California*.

If you are not a member of CNPS and therefore will not receive your copy of the special issue on Native Plants and Fire Safety, come on by and get your copy at Norrie's Gift Shop and while you are here, wander around and stop by to say hello.

—Brett Hall

## THE ARBORETUM IS STRONGLY ROOTED SUPPORT THE EDUCATIONAL, HORTICULTURAL, CONSERVATION AND RESEARCH GOALS OF THE ARBORETUM!

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

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

### Membership Levels

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- \$65 Salvia
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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.

*Printed with soy inks on recycled paper*

### ***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

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And, of course,

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

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

The Arboretum is open daily from 9AM-5PM.

Norrie's Gift Shop & Nursery is open daily 10AM-4PM

The Jean & Bill Lane Library is open Wed-Sun 12PM-3PM.

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.

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**Arboretum**

University of California Santa Cruz

1156 High St.

Santa Cruz, CA 95064

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