



THE UNIVERSITY OF CALIFORNIA, RIVERSIDE BOTANIC GARDENS

UCRBG Newsletter

VOLUME 22, NUMBER 4 • WINTER 2012

50th Anniversary Of The Botanic Gardens 2013 - A Year of Celebration!

WE ARE APPROACHING a significant milestone in the history of the Gardens. It has been nearly 50 years since the University agreed to set aside 37 acres for the establishment of the Life Sciences Experimental Area, which later became the Botanic Gardens. This step was an outgrowth of the vision of a founding faculty member, Dr. Victor Goodman, and the chairman of the Division of Life Sciences, Dr. Herman Speith. Early in 1963, the first director of the Gardens, Dr. Frank Vasek, broke ground and began the development and planting of the site.¹

Over the years, the Gardens has been used for teaching and research. Outreach and public education have been accomplished through partnerships with local gardening clubs, plant societies, and schools. Originally, the plant sale was tied to the Annual UCR Open House Day and served as an opportunity to introduce the community to plants suitable to the inland region, an educational opportunity that continues to the present.

The Friends of the UCR Botanic Gardens support group was founded in 1980 in recognition of the Botanic Gardens' great value to the local community. The formation of the Friends was an outgrowth of the efforts of Director Louis Erickson (1973-1981) to

¹ I am indebted to the late Dr. Walter Reuther for his thorough research on the history of the Botanic Gardens in preparation of this article. Reuther, W., "History of the UCR Botanic Gardens", *UCRBG Newsletter*, Vol. 12, No. 3 to Vol. 13, No. 3.



build mutually enriching connections with many community organizations and schools.

The volunteer docent program was begun in 1982, initiated by Dennis Kucera and Dr. Rich Adams, in response to tremendous public interest in touring the Gardens. Today we have 10 docents, trained and directed by Monika Ittig. We are finding that the demand for docent services continues to increase, and are planning a docent training course possibly in the spring of 2013.

The partnership with the Master Gardeners of Riverside County has also been very important in the development and improvement of the

Gardens. The many volunteer hours, either directly, in the care and cultivation of plants, or indirectly, in the support of our fundraising events, very significantly extends the limited operational budget that we have been afforded. We are greatly indebted to our volunteers from the Friends, the Docents, and the Master Gardeners.

This is an exciting time in the history of the Gardens. Despite the economic climate, we feel that the Gardens is recognized as an important resource to both the University and the community. As a result of that, you will see the CNAS Column, where our Associate Dean of Agriculture and Natural Resources, Dr. Jodie Holt, will

Alarming Spread Of Asian Citrus Psyllid! Story on page 5.

address us quarterly, keeping us informed of University decisions that affect the Gardens. (Many of you will remember the excellent presentation Dr. Holt gave on her role as a consulting botanist in the creation of the movie *Avatar*.) We are very excited to have a botanist serving as Associate Dean, and look forward to a close collaboration.

We plan to have many special events throughout 2013. The first celebration of our 50-year anniversary will be during the Winter Luncheon on Sunday, February 10th in our newly refurbished Conference Room. We are extremely pleased to have Dr. Frank Vasek as our guest lecturer. As one of the founding pioneers and the first director of the Gardens, Dr. Vasek will discuss the early history of the Gardens and describe the vision he had in the development of the different sections we enjoy today.

In addition, we are planning a series of 'Open Garden' days in the spring and fall when we will welcome nearby communities to experience the Gardens. Our docents will be available for tours and to answer questions. As a culminating activity, we plan to host a Family Festival, featuring arts, food, educational events, and hands-on activities for children. The Family Festival will be free to the public.

In addition to the events commemorating our anniversary, we are looking forward to several new projects that could be started at this juncture in the Gardens. We have been thrilled with the recent completion of the Butterfly Garden. (Please come and visit it.) We are also pleased with the changes that are occurring in our Conference Room as a result of a bequest by Grace Pernet Lorenz and her son Gary Lamberson. In the very near future, it will afford us a much better space to accommodate our events. We have visions of a Children's Garden and an educational amphitheater to hold outdoor classes. Further, we want to refurbish the Herb Garden with wider pathways. Plus, we are planning to establish partnerships which can assist us in making the Gardens more waterwise and, thus, a better steward of our resources.

This coming year, we want to take

the opportunity to celebrate all the history that has been made in the Gardens. We look forward to many more years serving the University and the surrounding community. Please watch the newsletter, the website, and your email for more information about this exciting year in the Gardens.

In closing, I have some requests of you. First, please consider how you might want to participate in the 50th Celebration. Secondly, if you have any photographs from "back in the day", I

would appreciate being able to reproduce and use them. Also, do submit your memorable anecdotes. Last, feel free to contact me with any ideas you may have to make this year special.

Katherine Kendrick
Co-President, with Amy Hao,
of the Friends Board of Directors
kjkendrick@sbcglobal.net

*Photography in this article by
Janine Almanzor*



UC Riverside Botanic Gardens

The UCR Botanic Gardens Newsletter is a quarterly journal published by the Friends of the UCR Botanic Gardens, UC Riverside Foundation, 900 University Ave., Riverside, CA 92521, and is one of the benefits of membership. Articles on various aspects of horticulture and its practice, history, or related subjects, especially as they apply to inland Southern California are welcomed. The selection of copy to print is at the discretion of the editors. Send copy to Steve Morgan, Botanic Gardens, University of California, Riverside, CA 92521, call 951.784.6962, e-mail smorgan@ucr.edu or visit our website at www.gardens.ucr.edu for information.

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CNAS Column

By Jodie S. Holt, Associate
Dean for Agriculture and
Natural Resources

IN JULY 2012 A NEW TEAM transitioned into leadership positions in the College of Natural and Agricultural Sciences. **Dr. Marylynn Yates**, professor in the Department of Environmental Sciences, is the Dean of the College of Natural and Agricultural Sciences; as Dean she is also Associate Director of the Agricultural Experiment Station in the UC Division of Agriculture and Natural Resources. Dean Yates and three Associate Deans oversee activities in the 13 CNAS departments and serve as liaison to the rest of UCR. **Dr. Peter Atkinson**, Professor in the Department of Entomology, is Associate Dean for Life Sciences and also responsible for space, facilities (including renovations) as well as teaching/curricular matters. **Dr. Michael McKibben**, Associate Professor in the Department of Earth Sciences, is Associate Dean for Student Academic Affairs. As Associate Dean for Agriculture and Natural Resources, I am also responsible for the Agricultural Experiment Station, Cooperative

Extension, and numerous centers, institutes, and facilities (including the Botanic Gardens).

We all look forward to developing a closer relationship with the Friends of the Botanic Gardens and working with the Director, staff, and Friends Board to advance the mission, raise the visibility, and increase the on- and off-campus support of the Gardens. Feel free to contact me for further information at Agdean@ucr.edu.

WHAT'S NEW ON CAMPUS

In order to forge closer ties among the Friends, CNAS, and UCR, we are launching a new column to keep you updated on what's happening on campus. In this issue I want to educate you about an ongoing process that affects all campus units who handle revenue. As you might expect, greater oversight of financial matters was provoked by the Enron and subsequent economic debacles at the national level.

Over the last two years the UCR Cashiers' Office has been actively reviewing cash-handling procedures of

all units to verify compliance with UC system-wide business policy (BUS-49 Policy for Cash and Cash Equivalents Received). Along with other campus units, the Botanic Gardens completed a review in March 2011; the formal report issued in August 2011 included several "findings" related to physical security of Botanic Gardens' revenue and cashiering procedures for the plant sales.

Changes based on these findings were in progress; however, a subsequent credit card security breach in UCR's Dining Services resulted in UC's Office of the President hiring an external consultant to perform last year's annual cash-handling review for UCR, which was completed in May 2012. Additional changes were requested for the cash-handling procedures for the Fall 2012 Plant Sale (including such things as background checks and fingerprinting). Additional changes to the Botanic Gardens' cash-handling procedures may be required after the release of the 2012 report. If you have read this far, you probably realize that these are complex legal issues that affect all units on campus, including the Botanic Gardens.

I appreciate the efforts of staff in CNAS and the Botany & Plant Sciences Department to facilitate smooth operations of the Botanic Gardens while complying with all UC policies. 🌸 JH

State of the Gardens

FRIENDS PLANT SALE: I wish to thank all those Friends and volunteers who helped with the plant sale the weekend of October 19, 20, and 21st. We could not mount plant sales without your assistance. I wish to mention especially **volunteers Diane, Susan, Juliet, Erika, and Vickie** who stepped in at the last minute to help with cash handling, and to **Mikeal Roose**, who volunteered to make their help possible.



DR. BETTY C. MOORE MEMORIAL BENCH: If you walk up to the newly planted **Butterfly Garden**, south of the lath house, rest for a while on the bench in honor of **Betty Moore**,

lovingly donated by daughter and son-in-law, **Sally and Einar Gall**. There you may watch butterflies, which are still numerous in late November. Even though the November flowers are not as colorful as they were several weeks ago, this garden is a wonderful addition to the Gardens. Two other memorials in this garden are a *Cassia leptophylla* tree in the northwest corner in memory of **Nathaniel Cosentino** and a Mineola tangelo citrus in the northeast corner in memory of **Dr. Walter Reuther**, historian and Friend of the Gardens, who served as chair of Botany & Plant Sciences for many years.



CONFERENCE ROOM: After several unforeseen delays, work started on the remodel of the Conference Building at the entrance to the Botanic Gardens on October 29, one week after the plant sale. This remodel was made possible by a generous bequest from **Mrs. Grace Pernet Lorenz**, of Riverside, who left a Remainder Trust in favor of the Botanic Gardens, and by her son **Mr. Gary Lamberson**, of Johns Island, South Carolina, who facilitated payment of the trust to UC Regents. The work is contracted to Physical Plant and the upgrade is scheduled to finish in December. It involves removal of the sink and concertina partition in the middle of

the room and relocation of the sink in a kitchen area in the northwest corner of the old herbarium space. A storage room for tables and chairs will be located in the southwest corner of the herbarium space. There will be outside doors in the west wall into the kitchen space and into the storage space, as well as from both rooms into the main meeting room. I wish to thank **Jodie Holt**, **Peter Atkinson**, and **Jo Ann Anderson** for input into the design at the west end of the building. At the same time, campus electricians will install upgraded outside lighting on all sides of the building.

A separate minor project will be the addition of outside lights to the pedestrian entrance gate, which is funded by payout from the Botanic Gardens endowment. Once the Conference Building is upgraded, the storage space in the Gatehouse will be vacated and two restrooms added. This renovation is made possible by additional funding from **Gary Lamberson**, who wished his mother's vision for the buildings at the entrance to come to fruition. People in the **Office of Planned Giving** who helped with these projects were initially **Diane Miller**, and lately **Cecilia Soriano** and **Tony Truong**.



JOHN MUIR: Opening December 2 and extending through April 7, the Riverside Metropolitan Museum is staging an exhibit of photographs and herbarium specimens from the Smithsonian Institute in Washington, DC – “John Muir and his Natural World”. **The UCR Botanic Gardens will mount a companion display of plants John Muir would have seen in his many journeys in northern and southern California.** At the end of his life Muir spent considerable time in southern California and he is buried here. Although the Botanic Gardens display may not be ready at the beginning of December, we plan to have labeled plants and docent led tours in the New Year.



50TH ANNIVERSARY: It is incredible that the UCR Botanic

Gardens will be 50 years old in 2013. Also, that I have been associated with the Gardens for 30 years. My time at UCR is coming to an end. In December 2014 I shall have worked at UCR for 40 years. The CNAS Dean's Office is beginning to think of what kind of leadership they wish to see in the Botanic Gardens in the future. I welcome the recent interest in the Botanic Gardens by **Associate Dean Jodie Holt**. (The Gardens is the only museum on main campus open to visitors at weekends.) The Botanic Gardens is special and needs mental



In the Rose Garden. Photo by Rachel Harms

and financial input from the Dean's Office. To mark this anniversary year we are planning a visit from **Dr. Frank Vasek** and **Mrs. Maxine Vasek** for the winter luncheon and program in February, 2013. Professor Vasek served as the founding director of the Botanic Gardens, and he also started the UCR Herbarium some years later. To have founded two campus teaching and research museums is a significant achievement.



HERBARIUM NEWS: Curator **Andy Sanders** has been busy collecting specimens in California and Nevada. **Teresa Salvato** and volunteers have been mounting specimens and shipping duplicates to other herbaria in the state. Volunteer lichen curator **Kerry Knudsen** and **Dr. Jana Kocourkova** of the Czech Republic have been collecting lichens and associated fungi on the Channel Islands and in Joshua Tree National

Park. Recently they presented posters on their work at biodiversity meetings in Ventura County and at Joshua Tree N.P. headquarters. **Dr. Ed Plummer** supervised the entry of collection data for higher plants and lichens into the database of the Consortium of California Herbaria, to which the UCR Herbarium is a contributing member.



TAX-DEDUCTIBLE DONATIONS:

At this time of the year, Friends may wish to make a tax-deductible donation to the Botanic Gardens or the UCR Herbarium. Checks should be made out to the UCR Foundation and memoed to the museum of choice. If you wish to support development of the Botanic Gardens, checks may be memoed to the Friends of UCRBG for general use, or to BG Friends Endowment for funds to provide support in perpetuity. If you wish to support current maintenance of the Gardens, checks may be memoed Botanic Gardens, or for maintenance in perpetuity to Botanic Gardens Endowment. Similarly, there is a general account for current support of the Herbarium and an Herbarium Endowment for support in perpetuity. **Thank you in advance for your donations. In these recession times, it was the payout from the two main endowment funds that have kept the Botanic Gardens open.**



DONATIONS: The following donations were gratefully received. *Botanic Gardens Endowment:* Dr. Lewis H. Cohen. *Botanic Gardens General Fund:* Drs. Brian & Claire Federici, Ray & Marylyn Harris, David Kellstrand & Lenita Kellstrand, Natalie Kille in memory of Michael O'Halloran, Mark Patteson, Janice & Dennis Ponsor for “Art in the Gardens”, Mrs. Arleen Raysor, Dr. Mikeal & Mrs. Pamela Roose, Barry Taylor, J.G. Waines. *Friends of UCR Botanic Gardens:* Members new and old too numerous to mention individually. *UCR Herbarium Fund:* J.G. Waines. May I wish you all the merriest of holiday seasons. 🍷 GW

Alarming Spread Of The Asian Citrus Psyllid

By Brian Taylor, Fields Operations Director,
Citrus Research Board

IN JUNE OF THIS YEAR, I spoke about the invasion of a new citrus pest called the Asian citrus psyllid (ACP) and the disease it spreads, Huanglongbing (HLB) with the Friends of the UCR Botanical Gardens at their Annual Meeting. At the time, there was dire news about the possible impact that this new pest and its disease could have on both backyard grown citrus and the commercial citrus industry. *However, few of us who deal with this situation daily could have predicted the rapid spread this pest has exhibited over the past few months.*

This rapid spread has overwhelmed attempts to eradicate the pest or even control it, forcing regulatory and funding agencies to shift strategies. Further, how we got into our current situation remains a mystery. Quarantine regulations prohibiting movement of citrus plants remain in effect (unless certain safeguards are met), and while these regulations do not prohibit the movement of citrus fruit, **homeowners should make sure that any fruit exchange with friends or family be thoroughly checked before giving away.**

At the time of my talk, a great deal of effort was being placed on the treatment of backyard citrus with conventional pesticides. Unfortunately, the rapid spread of ACP from the Los Angeles Basin into and throughout the Inland Empire has made this approach unfeasible. Funds for this program (collected through assessments on commercial growers) are now being spent to protect commercial acreages of citrus and to find sustainable alternatives to control ACP.

In areas where the ACP has become well established, including the Inland Empire, **the California Department of Food and Agriculture (CDFA) is asking residents to help reduce psyllid numbers by treating their own infested trees.** Reducing psyllid populations will lessen the chances of your trees becoming infected with HLB. To inspect your citrus trees properly for evidence of the psyllid, schedule your inspections on a regular basis. Trees



Asian Citrus Psyllid. Photo by M. Rodgers

should be visually inspected monthly from spring through fall paying close attention during periods of "flush" growth (the formation of new leaves).

Adults are about the size of an aphid with brownish mottled wings. They feed on the leaves and green stems of citrus plants with their heads down and "tails" in the air. Immature psyllids, known as nymphs, are tiny and yellowish and excrete white waxy tubules.

They feed exclusively on newly forming leaves. **If you have a number of trees to inspect, an easy sampling method is to conduct a "tap test".** Use

the back side of a light colored clip board or small cutting board and an 18" broom handle or piece of PVC pipe. Hold the clipboard below suitable foliage and give it three solid whacks (called "taps"). Examine what falls on the clipboard for psyllids. Proceed to the next tree and repeat tapping. I like to use a spray bottle of soapy liquid on the clipboard after each tree. The insects "stick" and don't fly away so rapidly.

What should you do if you find the psyllid? There are both conventional and organic pesticides that are registered for use against ACP. **Treatments are not prophylactic and should only be done when the psyllids are present.** Insecticides can harm bees and the natural enemies of other pests. **Never**

apply insecticides when trees are flowering because of toxicity to bees. The systemic insecticide imidicloprid provides the best control of nymphs infesting your leaves. It is taken up through roots and retained in trees for up to six months. **Products registered for homeowner use are available at most garden centers.** Read product labels carefully and follow instructions on proper use, storage, and disposal. Additional information

about pesticides registered for use against ACP can be found at the University of California Integrated Pest Management website at <http://www.ipm.ucdavis.edu/EXOTIC/diaphorinacitri.html>

What about using natural controls? A great deal of work is being done on investigating and using biological control agents against the Asian citrus psyllid. Dr. Mark Hoddle, Director of UCR's Center for Invasive Species Research, has brought back several possible parasitic wasps from collection trips to Pakistan. One species of Tamarixia wasp has passed through the

quarantine hurdles and is now being reared at the insectary at UCR. A major collaborative effort is being put into place by the USDA, CDFA, UCR, Cal Poly Pomona, Citrus Research Board, and the Citrus Pest and Disease Prevention Program to begin

mass rearing of this parasite for releases throughout the urban infested areas. Additionally, the role of naturally occurring predators, such as ladybird beetles and green lace wing bugs, is being investigated.

Although the psyllid can damage leaves, it is not the citrus killer. The real killer in this story is Huanglongbing (HLB), the disease that the psyllid can spread. HLB disease will kill



Huanglongbing.
Photo by E. Grafton-Cardwell

mature trees in as little as five years and younger trees even quicker. HLB is caused by a bacterium carried from tree to tree by the Asian citrus psyllid. **There is no cure or effective control method for HLB. Once your tree becomes infected, it will die!**

How can you tell if your tree has become infected with HLB? Again, visual inspection is extremely important. While there are tests that can be done on your trees, they are not generally sensitive enough to determine the presence of HLB until visual symptoms are present. **Visual symptoms include** asymmetrical yellow mottling of the leaves with patches of green; "yellow sectors" of leaves within the tree canopy; leaf veins that feel and appear

to have a "corky" texture; and fruit that is small, lopsided, doesn't ripen evenly, falls off the tree easily or prematurely, and lastly, has juice that tastes bitter.

The good news about Huanglongbing is that so far only one tree in California has tested positive for the disease. This tree was quickly removed and destroyed shortly after it was discovered and, as yet, no additional trees have tested positive for the disease. This doesn't mean we should stop worrying and just ignore the Asian citrus psyllid. Reducing the psyllid populations will help to slow the eventual spread of the disease.

If you think that your citrus tree has developed symptoms of Huanglongbing you should call the California

Department of Food and Agriculture Exotic Pest Hotline at 1-800-491-1899 to confirm a find.

Don't move plants or clippings out of psyllid infested areas because they can spread the insect and disease. Plant trees from reputable, licensed California nurseries. Use only registered budwood that comes with source documentation.

Citrus is a part of our California heritage. With everyone's help we can continue to enjoy it for years to come.

🌱 BT

To learn more about the Asian citrus psyllid and Huanglongbing, visit <http://www.californiacitrusthreat.org/>.

Ann Platzer's regularly occurring column, "Butterfly Corner", returns in the Spring Quarterly.

Friends Annual Seed List for 2012

The Annual Seed List is just one of the many benefits of being a Friend of UCRBG. Circle the number of any three varieties of seed on the tear-off form at the end of the article and send it to Steve Morgan/Annual Seed List, Botanic Gardens, University of California, Riverside, CA 92521-0124.

You may also e-mail your choices to ucrbg@ucr.edu but be sure to include substitutes and your postal address. The seed packets include instructions for growing. Thank you to Theresa Arial, Michael Fugate, Amy Kwiecien, Ann Platzer, Robert and Bernice Tank, Katie Shea, and Julie Slis who collected, donated and/or processed seeds for the list. Enjoy! 🌱 SM

1. *x Amarygia* hybrids, "Naked lady" - Rare colors of this drought tolerant, easy-to-grow bulb with lily-like, deliciously fragrant flowers on tall, sturdy stems in summer in shades of deep rose pink to white. Foliage appears in fall after flowering. May take five or more years to bloom from seed. **This is an experiment since the fleshy seeds must be planted upon receipt.**



Baileya Multinadiata,
"Desert marigold"

2. *Asclepias curassavica* 'Silky Gold', "Bloodflower" - This is a golden yellow flowered form of a favorite larval host plant for monarch butterflies. Bloodflower is an easy-to-grow, shrubby, four-foot perennial with clusters of distinctive, crown shaped



Baubinia variegata,
"Purple orchid tree"

flowers throughout warm weather. Sow in spring.

3. *Baileya multinadiata*, "Desert marigold" - A desert perennial to two feet in height, with gray, woolly foliage and 1 1/2 inch, yellow daisy heads over a long season in both spring and fall. It is best grown in well-drained soil or on slopes. Sow in fall or winter.

4. *Baubinia variegata*, "Purple orchid tree" - One of the easiest trees to grow from seed. A deciduous tree growing from 25 to 35 feet tall with light green, two lobed leaves and three inch, purple, orchid-like flowers in late winter or early spring. Sow in spring or summer.

5. *Bouteloua gracilis*, "Blue gramma grass" - A small California native clumping

grass with slender, light gray green leaves and distinctive, comb-like flower heads that emerge silvery and turn purple. Sow in spring.



Clarkia unguiculata,
"Mountain garland"

6. *Cercis occidentalis*, "Western redbud" - This California native tree/shrub has all-year interest: masses of purple spring flowers, handsome foliage, interesting seed

7. *Clarkia unguiculata*, "Mountain garland" - Mountain garland is one of California's most distinctive late-spring wildflowers. It bears tall spikes of unusual, rose-pink flowers that are long lasting in cut flower arrangements, the flowers continuing to open on the spikes for days. Sow in winter or early spring.



Cynoglossum amabile
"Firmament",
"Chinese forget-me-not"

8. *Cynoglossum amabile* 'Firmament', "Chinese forget-me-not" - An easy-to-grow biennial that performs as an annual in our mild climate. The

foot-tall plants have hairy, tongue-shaped leaves and generous, coiled clusters of small, true “forget-me-not” blue flowers. Flowers are born over a long spring/summer season, especially if lightly shaded. Attracts butterflies and makes a fine cut flower. Sow fall to early spring.

9. *Echium candicans*, “Pride-of-Madeira” - A fast growing, evergreen shrub with bold, bristly, gray green leaves and dramatic, thick spires of blue purple flowers with protruding purple stamens over long spring season; butterfly favorite. Sow in winter or early spring.



Echium candicans, “Pride-of-Madeira”

10. *Euphorbia latyrus*, “Gopher purge” -



Euphorbia latyrus, “Gopher purge”

Unusual biennial with a single, upright stem to five feet tall closely lined with four vertical rows of long, gray green leaves. Yellow flowers produced in the second year are more interesting than beautiful. Poisonous, caustic sap is said to repel gophers but a curious and distinctive plant whether it repels gophers or not. Sow in spring.

11. *Europsys speciosissimus*, “Clanwilliam daisy” - Clanwilliam daisy is a rare, few-branched, evergreen shrub from South Africa that is reminiscent of our California coast’s tree coreopsis. It has ferny, gray-



Europsys speciosissimus, “Clanwilliam daisy”

spikes of small, snapdragon-shaped flowers over a long season; flowers are purple and golden yellow; good cut flower.

green leaves and long-stalked, yellow, daisy flowers in spring and into summer. Sow in fall or winter.

12. *Gladiolus tristis*, “Winter gladiolus” - Perennial from corms; easy relative of hybrid glads with spikes of creamy yellow flowers in winter; exquisitely night fragrant and fine for cutting. Sow in winter

or early spring.

13. *Limonium perezii*, “Sea lavender” - A bold, water efficient perennial with large, leathery, rounded leaves and long-stemmed, many-branched clusters of tiny white flowers, each surrounded by papery, purple bracts. The flowers are long lasting either fresh or dry in arrangements and are attractive to butterflies. Sow anytime.

14. *Linaria reticulata*, “Purple-net toadflax” - An easy-to-grow, cool-season annual with many-flowered



Linaria reticulata, “Purple-net toadflax”

15. *Senna (Cassia) didymobotrya*, “Popcorn cassia” - Popcorn cassia is always one of our most popular offerings, whether as plants at the sales or as seed in the seed list. It is a bold, evergreen shrub with divided leaves and candelabra-like spikes of black buds that open to large, yellow flowers over a long winter to spring season. The flower buds and new growth have a distinctive buttered popcorn scent and these seeds were collected from the Gardens’ especially deliciously scented plants. It usually blooms the first year from seed. Sow in spring or summer.

16. *Stanleya pinnata*, “Prince’s plume” - California desert native, drought tolerant, shrubby perennial growing from three to five feet tall with narrow, gray green leaves and tall, fluffy spikes of yellow flowers in spring; needs good drainage. Sow fall to early spring. 🌱 SM

FRIENDS ANNUAL SEED LIST 2012 Order Form

Circle the number of any three varieties of seed on the tear-off form and send it to:
Steve Morgan/Annual Seed List, Botanic Gardens, University of California, Riverside, CA 92521.

Since we must use a special envelope to return your order,

DO NOT ENCLOSE A SELF-ADDRESSED, STAMPED ENVELOPE.

You may also e-mail your choices to ucrbg@ucr.edu but be sure to include substitutes and your postal address.

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16

Please list substitute numbers here _____

NAME _____

ADDRESS _____

CITY, STATE, ZIP _____

Volunteer News

Volunteer orientations were held on September 25 and November 7 with approximately 30 new volunteers signing up to support the Gardens. Some volunteered to help at the Fall Plant Sale while others will be coming in weekly. Regular volunteers help Theresa with weeding, dead-heading, weeding, and did we say “weeding?!” Their enthusiasm and help are greatly appreciated by all. In fact, the moving of plants and setup for the Fall Plant Sale were done by Friday at noon, a record time!

Future volunteer orientations are scheduled for the second Tuesday of each month, starting January 8. We will meet at the entrance to the Gardens at 9 a.m. Wear comfortable shoes as Theresa will be taking us on a short tour of the Gardens, pointing out the areas where volunteer help is needed.

In the *Fall Quarterly Newsletter*, I talked about our new Visitor Information Volunteer program. It is a great success! Ten stalwarts answered the call to attend an orientation held on Saturday, October 6. We started greeting garden visitors the following Saturday, October 13, and have been greeting visitors at the entrance every Saturday and Sunday since from 10 a.m. to 2 p.m.

Many of our visitors have never been to the Gardens and are very pleased to have someone at the Gate to point out the areas of interest in the Gardens and the different trails. We also let visitors know about the benefits of becoming a Friend and we describe upcoming events. It is a fun and rewarding experience, especially when visitors who are leaving tell us how much they enjoyed the Gardens and that they will return.

Our current Visitor Information Volunteer Team is Janice and Dennis Ponsor, Janine Almanzor, Lynne Seymour, Mariano Resendez (A UCR student volunteer), Katie Shea, Sheilah Bellew, Noriko Cuaron, Pauline Calkin, and Karen Fleisher. Anyone who is interested in becoming a Visitor Information Volunteer can contact me, Karen Fleisher, at 951-682-3795 or volunteerucrbg@gmail.com. 🌸 KF

Volunteers Of The Month

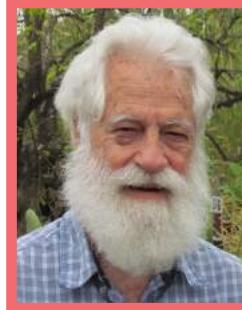
By Janine Almanzor

NOVEMBER – FRED PHILLIPS

Fred didn't think he should be the Volunteer of the Month since he hasn't been volunteering as much as he had in the past.

However, he has been volunteering in the Gardens for about 25 years! Although he doesn't remember the year he started, he does remember his initial conversation with Steve. When Steve asked Fred if he had anything in particular he wanted to do in the Gardens, he answered, “I'll do anything nobody else wants to do.”

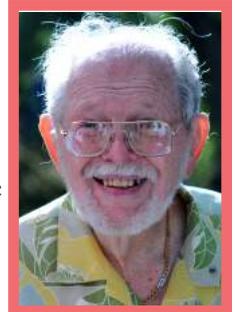
Over the years he has made a great contribution in many of the Garden areas. He has dug holes for new trees and now has the great satisfaction that after all these years those trees are still thriving. He has helped with plant sales in various ways for many years. What he enjoyed the most was putting his engineering skills to work by helping Dr. Louis Erickson survey and map the entire Botanic Gardens. More recently, his energy has been focused in an area where not that many people want to work. He has been working with the cacti and succulents.



Fred Phillips

DECEMBER – JOHN ERNSBERGER

If you know John, you think of 'Primavera in the Gardens' when you think of him. He attended the very first Primavera in 1999 and since then, has played a major role in making it happen each year. Next year will be the 15th Annual Primavera! For the past 7 years, he has been the chairman of Primavera and he is also responsible for obtaining all the restaurants for the event. In addition, John has served on the Board of the Friends of the Botanic Gardens so many times that he can't remember how many there have been. During those years on the board, he held the offices of President and Vice President several times and was also the Friends Membership Chair. In fact, you can find John at every plant sale sitting at the Membership Table gaining new Friends to support the Gardens he has loved for so many years. John is also a Master Gardener and over the years has enjoyed growing plumerias and roses in his own garden. He also loves to sing and has been in Barber Shop Quartets, choruses, and the Masters of Harmony. Currently, he enjoys singing in the choir at his church. 🌸 JA



John Ernberger



JACK'S GARDEN"
by Lucy Heyming.
Lucy's watercolor honors late longtime volunteer Jack Goertzen, who cared for the alstrameries in this garden and specialized in their propagation. Our volunteers are the lifeblood of the Gardens.

Photo by Jana Shaker

Around The Gardens

MESSAGE FROM THE FRIENDS CO-PRESIDENT:

THE YEAR 2012 IS COMING TO AN END. As we are busily planning for the holidays and end of year tax strategies, please keep the Botanic Gardens in mind. Many of the Gardens' improvements and projects are the results of the generosity of our donors. Such projects include the recent renovation of the Conference Room and construction of the Butterfly Garden.

With today's economic climate, donations are vital to the well being of our Gardens.

To our many donors and volunteers, thank you for your generosity in the giving of your time and resources.

Happy Holidays!

Amy Hao, Co-President with Katherine Kendrick



the invasion of non-native, non-flowering plants is causing decreased numbers of wild flowers with the simultaneous disappearance of the wild bees which had been their native pollinators. *AH*

Adult Ed: CACTUS & SUCCULENTS October 13

This class, presented by Buck and Yvonne Hemenway, owners of The Prickly Palace nursery, was held at the beautiful demonstration garden that surrounds the home of the presenters. Attendees were given practical advice about these water wise jewels of the garden, which included details of handling large prickly specimens in a remarkably easy fashion. With an outline that gave step by step directions, as well as an emersion in the fascinating world of cactus and succulents, all left with a head full of knowledge and a desire to put it to use.

Nan Simonsen



FRIENDS FALL PLANT SALE

October 20 & 21

News From The Friends'

Membership Table – We would like to take this opportunity to welcome our 19 new Friends members and also 31 returning members. We have many wonderful events and volunteer opportunities scheduled throughout the year. Use our beautiful newsletter as your personal passport, guiding you to all things pertaining to the Gardens.

I would also like to personally thank all the members that manned our tables both Saturday and Sunday. Many thanks also to those of you who

BIRD WALK & BREAKFAST

September 29

What a beautiful day for a birdwalk! Great turnout, great weather, and great birds!! As always we tour the Gardens starting in the Desert Section and moving through many areas of the Gardens. Bird watchers were treated to many returning fall migrants, including good looks at white crowned sparrows. We were also captivated by a wonderful look at a soaring red-tailed hawk being chased by smaller bird!

Following the bird walk, we returned to the Conference Room to recap our sightings and enjoy a continental break-

fast. Please watch for future bird walks. We are planning a spring bird walk and another Bird Walk Extravaganza as well. *Amber Jones*
Participant Michael Pazzani took the accompanying pictures.



FRIENDS FALL DINNER

October 7

The Fall Dinner attracted close to 70 people this year. This annual outdoor event was catered by Campus Catering with wine and appetizers provided by the Board. Our speaker was Dr. Chris McDonald. Chris lectured earlier for the Adult Education Series. That class was such a success that he was invited to lecture at the Fall Dinner. His talk emphasized the importance of

cultivating native plants to encourage native pollinators, i.e. bees. Chris introduced us to hundreds of types of bees, dispelling the myth that all bees are yellow with black stripes and live in hives. These native bees were widely responsible for the fields of wild flowers that once existed. However,



came early and stayed late both days to erect our pop-ups and set up our tables. And, lastly, our membership area looked great because of the terrific new banners and tablecloth.

We are in the Holiday Season and it is a wonderful time to give a Friends' membership as a gift. This gift gives back all year long. *Brightie Dunn*

HERBAL GIFTS FOR THE HOLIDAYS

November 10

For her class, Jean Weiss presented to a full house. The event was both informative and interactive, as Jean offered recipes for aromatherapy items such as a quieting nasal inhaler, a refreshing room spray, and several types of potpourri. The participants were offered the materials to make their own orange and clove pomander, after which a buffet of samples from a collection of herbal recipes was presented. As usual, a very well prepared and enjoyable class was taught by Jean. *NS*



KOGCB DAY, November, 17

Our supporting community continues to grow! This fall's Keep Our Gardens Clean and Beautiful Day demonstrated our community's commitment to the Botanic Gardens. A group of 40 people – comprised of Master Gardeners, Garden Volunteers, and an UCR Fraternity – arrived by 8:30 am to donate that most valuable of gifts: Time. Tables manned by KOGCB Committee members Amy Hao, Dennis Ponsor, and Theresa Arial provided snacks and beverages. Shortly after a welcome and briefing, the group broke into teams headed by team leaders Janine Almanzor, Nancy Cullen, Karen Fleisher, Janice Ponsor, Gurumantra Khalsa,

Nanci Nelson, and Bryan Roth. Each team was assigned to an areas where they pruned, weeded, dug, and raked. The Rose Garden, Mediterranean Section, and North Coast Sections all look refreshed and tidy after just three hours of work. Friendship prevailed and smiling faces abounded.

The spring KOGCB Day is scheduled for **April 20, 2013** (Earth Day). Come join the fun and comradery. And thank you again to all who generously gave their gift of "Time" to the UCRBG. *Theresa Arial*

Kids' Adventure: CACTUS & SUCCULENTS

November 24

This adventure will have happened by the time you receive this quarterly. About a dozen children will tour the cactus and succulent plantings in the Garden. They will learn all about growing and caring for cacti and succulents. For their culminating activity, they will plant and then take home a small succulent garden in a pot. *Janice Ponsor*

Friends Fall Plant Sale 🌸 October 20 & 21

THIS YEAR'S PLANT SALE WAS REMARKABLE in several ways. A conversation with Steve Morgan revealed that over 100 volunteers worked to bring the sale together and at the sale itself. He also reported that nearly 1000 sales were made.

Also, used to the free parking of the past, many people asked about the \$2 parking fee. Katherine Kendrick spoke to this plant sale policy change:

In the past, at all of our events, we were paying \$5 per car out of our gross receipts, including the plant sales. Because of the many people that come and leave throughout the plant sale weekend (some only to browse for a few minutes) this became a very large expense. It severely cut into the profits from that event, profits which are used directly in the maintenance and servicing of the Gardens. We felt that we were at a critical point, and needed to decide how to continue offering the plant sale in light of the large parking expense.

Two members of the Friends Board of Directors, Dennis Ponsor and Margo Chabot, were able to negotiate effectively with the UCR Transportation and Parking Services (TAPS). TAPS was very receptive to our concerns and agreed that for the plant sale they would reduce the parking charge to \$2. We felt that this was a very reasonable adjustment, and asked our visitors to pay for parking.

This change means that we can keep the price of our plants at a minimum, and have the fundraiser be effective enough to justify the tremendous amount of time invested by our staff and volunteers. We are very appreciative that the University was willing to work with us on this adjustment.

The 2011 Friends Fall Plant Sale paid \$5180 in parking fees. Because of the policy change, this year's charge for parking was considerably less. This is terrific for the Gardens. Thanks, TAPS! 🌸 SK



Upcoming Events, January – June 2013

January 8, Tuesday
"Second Tuesdays"
VOLUNTEER ORIENTATION

Wear comfortable shoes.
 9 a.m. at the Gate

January 13, Sunday
ANNUAL ROSE PRUNING DEMONSTRATION

(Rain Date, January 20)
 Bring pruners if you have them. Meet at the Rose Garden 1-3 p.m.

January 19, Saturday
***Adult Education Series**
Spring Soiree: FLOWER ARRANGING

February 2, Saturday
***Adult Education Series**
SUCCULENT PICTURE BOXES

February 10, Sunday
FRIENDS WINTER LUNCHEON & LECTURE
 Noon. More information coming.

February 12, Tuesday
VOLUNTEER ORIENTATION
 See January 8

March 5, Tuesday
VOLUNTEER ORIENTATION
 See January 8

March 9, Saturday
***Adult Education Series**
A VISIT TO THE MALOOF GARDEN

April 6 & 7
 Saturday & Sunday
UCR BOTANIC GARDENS SPRING PLANT SALE

April 9, Tuesday
VOLUNTEER ORIENTATION
 See January 8

April 13, Saturday
***Adult Education Series**
FENG SHUI IN YOUR GARDEN

April 20, Saturday
KEEP OUR GARDENS CLEAN & BEAUTIFUL DAY

May 14, Tuesday
VOLUNTEER ORIENTATION
 See January 8

May 19, Sunday
15TH ANNUAL PRIMAVERA IN THE GARDENS

Events To Be Scheduled

Docent Training
 Friends Spring Outing
 Kids Adventures
 Bird Walk & Breakfast
 Bird Walk & Breakfast Extravaganza!
 Art In The Gardens, II
 Grand Opening Celebration
 Of The Butterfly Garden
 Annual Meeting

*Complete descriptions of the Adult Education Series are on page 12.

Art In The Gardens

NOVEMBER 11 WAS AN EXCEPTIONAL DAY – sunny and crisp, a perfect Southern California fall day. The varied artwork was effectively displayed by 12 talented artists. All of them commented on how much they loved having the opportunity to exhibit in such a delightful setting.

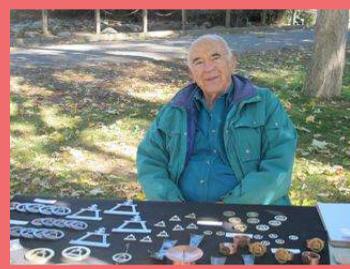
We had over 300 visitors to this new event. They were a mixture of Friends and new comers, some of whom hadn't known about the event. At the urging of Dennis and Janice Ponsor, who were hosting at the entrance, those who were surprised by the event ventured through Alder Canyon, enjoying the wonderful artwork and then went on to the turtle pond, up the path to the Butterfly Garden, and on to the Rose Gardens.

Many of the new visitors commented that they had not realized how beautiful the UCR Botanic Gardens was and vowed to return. All were encouraged to become Friends, and, in fact, we had a total of 6 new and renewal memberships. Other visitors commented on the fine quality of the artwork exhibited.

One of our artists, Kelly Noble, had native bee houses for sale which she had made and decorated with handmade tile. She had been inspired by the Native Bee Workshop with Chris McDonald presented by Adult Ed last spring. Also, several Friends were exhibiting artists: Kelly Noble, Lucy Heyming, Bill Gardner, Brenda Cook, and Rebecca Kallinger. Rebecca wrote, "What a setting! The sun kept poking through the trees and back lighting Jean's fused glass in the next booth. It was lovely. Showing my art work in my favorite garden was really a positive experience, and I hope to do it again."

Lynne and I would like to thank everybody involved for making Art In The Gardens such a big success. In particular, our thanks go to the artists for taking a chance on this first-ever event and exhibiting with us as well as to Janice and Dennis Ponsor for taking charge of the entrance and welcoming visitors and to Theresa Arial and her staff for all of their help and support. We plan to make this an annual event. 🍷 KAREN FLEISHER

Clockwise, starting at top right: Raven's Catch, Marijke Terwisscha, ceramic; Bill Gardner with his work; vendor booths; Lucy Heyming with Muriel Everett at Lucy's booth; people looking at Brenda Cook's work. Photos by Jana Shaker. People looking at Jean Aklufi's fused glass. Photo by Karen Fleisher.



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Adult Education Series Early 2013

Saturday Soiree: FLOWER ARRANGING

Saturday, January 19*

Learn to create a professional looking floral arrangement under the direction of Joel Udayke, owner of the renowned Flowerloft in Riverside. Joel began his floral artistry in 1975 and is known for his amazing and unique arrangements. Attendees will learn some tricks of the trade and even be able to turn store-bought bouquets into expensive looking arrangements. Cost includes flowers and vase.

\$40 for members and \$45 for nonmembers.

SUCCULENT PICTURE BOXES

Saturday, February 2

Create a beautiful picture box of succulents with Brenda Cook of Botanical Perspectives. Brenda creates wonderful terrariums and container gardens with succulents. These are offered for sale at Aurea Vista in downtown Riverside. Under Brenda's guidance, attendees will be assembling their own masterpieces. Cost includes a basic kit with additional plants for sale.

\$45 for members and \$50 for nonmembers.

A VISIT TO THE MALOOF GARDEN

Saturday, March 9

This event is a class *and* garden tour. The class will meet at the Maloof Foundation for Arts and Crafts in Alta Loma, a non-profit foundation with historic buildings and a 5 acre garden. This diverse waterwise garden is a combination of California Native and Mediterranean plants, and its evolution will be highlighted. Attendees will learn how to create the look of this beautiful garden on any size lot.

\$20 for members and \$25 for nonmembers.

FENG SHUI YOUR GARDEN!

Saturday, April 13

Design your garden to bring you luck. Shelley Sparks is not only a renowned speaker but a Feng Shui expert, licensed Landscape Architect, and author of "Secrets of the Land". Join Shelley as she discusses practical, easy and beautiful additions to your garden and how they can help the luck in your life. She believes as we bring our environments into balance, we live happier and healthier lives, benefitting all that surrounds us.

\$25 for members and \$30 for nonmembers.

*All classes begin at 9:30 and end at noon.

To make reservations, please email amyucrbg@gmail.com, call UCRBG at 951/784-6962, or email ucrbg@ucr.edu. Space is limited for some classes.

Background photo "Beverly's Garden" at the Maloof Garden