



the review

UC DAVIS ARBORETUM AND PUBLIC GARDEN

Fall PLANT SALES

Saturday
OCTOBER 10
9 AM - 11 AM
Members Only
11 AM - 1 PM
Open to the Public

Saturdays
OCTOBER 24
Public Sale

NOVEMBER 14
Clearance Sale

9 AM - 1 PM
Arboretum Teaching
Nursery
Garrod Drive, UC Davis
arboretum.ucdavis.edu

UCDAVIS



**ARBORETUM AND
PUBLIC GARDEN**

CELEBRATING 10 YEARS OF ARBORETUM ALL-STARS

Ellen Zagory, Director of Horticulture

THIS YEAR OUR UC DAVIS ARBORETUM ALL-STARS CELEBRATE THEIR 10-YEAR ANNIVERSARY. It's an anniversary worth noting not just because it's been a decade, but because of the impact the plants and overall program have had on the improvement in sustainability of our landscapes. This has become even more important as California continues in its fourth year of drought. We were ahead of the curve on our recommendation of water-conserving species, and I believe that is one reason the All Stars plant list has been adopted widely.

The Arboretum's landscaping philosophy has always come from a place of conserving natural resources. From the beginning, the Arboretum relied on hoses and portable spray irrigation to establish and maintain plantings, and this "manual" system was operated by limited staff. That maintenance restriction meant that our horticulturists have always selected and tested plant species that could tolerate infrequent, but deep, irrigation. Then, a little over ten years ago, we decided that it was time to share the expertise we had accumulated about excellent, low-water plants for our region. There were other lists for California, but none that took into consideration the Central Valley's blazing hot and dry summers and periodic freezing winter temperatures.

In order to create the list that ended up as our top 100 All-Stars, we developed strict criteria for selecting plants. We wanted plants that first and foremost needed very little water. They had to be

attractive, easy for both beginning and advanced gardeners to grow, and have few problems with pests or diseases. We also especially wanted plants that supported native wildlife, such as birds and beneficial insects, and provided a variety of alternatives for year-round interest. We voted on those plants that we all felt best fit the criteria. And the Arboretum All-Stars were born!

We then developed an online database and planting plans, as well as signage on All-Star plants in the Arboretum. At the Arboretum Teaching Nursery we created demonstration gardens so people could easily see what an All-Star garden would look like.

Many funders and donors, including our wonderful Friends of the UC Davis Arboretum and Public Garden, supported this work over the years through grants, gifts, and time. Some supported the All-Stars Program directly, while others supported our nursery and plant sales program, which promote the All-Stars.

It is clear that the UC Davis Arboretum All-Stars Program has come a long way in ten years. We hope you have found the All-Stars list and other resources useful as you have designed and planted your own garden. Whether you are new to these plants or have been enjoying them for years, we invite you to our fall plant sales to celebrate this milestone and take home some more sure-to-please All-Stars!

STATEWIDE IMPACT OF THE ARBORETUM ALL-STAR PROGRAM



UC Cooperative Extension (UCCE) Environmental Horticulture Advisor Karrie Reid and UCCE Landscape Horticulture Specialist Loren Oki evaluate All-Star plant performance in their campus field trials.

THE SUCCESS OF THE ARBORETUM ALL-STARS plants and program would not have garnered the statewide impact we recognize today were it not for Dave Fujino, Director of the UC Davis California Center for Urban Horticulture (CCUH), who brokered connections to the nursery industry and support from wholesale partners to grow and sell Arboretum All-Stars to retail nurseries. See the Arboretum website for a list of these partners and the retail nurseries across the state that sell All-Stars.

Also critical were UC Cooperative Extension (UCCE) Landscape Horticulture Specialist Loren Oki and UCCE Environmental Horticulture Advisor Karrie Reid who established field trials on the UC Davis campus to generate scientific data about the All-Stars' water use, plant performance, and growing recommendations. Their connection with the Statewide Master Gardener program provided the necessary link for testing many of these plants in high-profile, sustainable demonstration gardens throughout California. In addition, they host sustainable and low-water landscaping workshops featuring Arboretum All-Stars. San Diego county has even adapted the UC Davis Arboretum All-Stars into something they call "The Nifty Fifty."

All-Stars continue to remain a topic of media interest both locally and around the state. Most importantly, for ten years the All-Stars have been a great tool for helping people understand that by choosing the right plants, they can create their own beautiful, low-water, low-maintenance, and vibrant landscapes.

The completed field trial results at UC Davis have been shared on the CCUH website (<http://ccuh.ucdavis.edu/academia/plant-trials>), in popular and peer-reviewed print publications, at national and international conferences, and at myriad public outreach events promoting sustainable landscaping practices throughout the state.

Today, after ten years of the program, Reid points out that "UC Davis Arboretum All-Stars and sustainable landscaping practices are now inextricably linked throughout the state."

Superstars

ALL-STARS THAT STAND OUT

LOOKING FOR STANDOUT PERFORMERS of the Arboretum All-Stars? Based on her research, Karrie Reid, UC Cooperative Extension Environmental Horticulture Advisor, shares which All-Stars she would call "Superstars" based on their performance in low-water landscapes and adaptability to different climate zones.



CHRISTMAS CHEER POKER PLANT

Kniphofia
'Christmas Cheer'



MARIE SIMON CEANOTHUS

Ceanothus x pallidus
'Marie Simon'



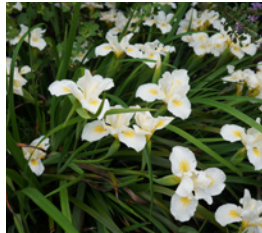
VINE HILL MANZANITA

Arctostaphylos densiflora
'Howard McMinn'



AUSTRALIAN BLUEBELL CREEPER

Sollya heterophylla



CANYON SNOW PACIFIC IRIS

Iris 'Canyon Snow'



CAPE BALSAM

Bulbine frutescens



ROSADA CORAL BELLS

Heuchera 'Rosada'

Rising Stars

Ellen Zagory, Director of Horticulture

THE ORIGINAL 100 ALL-STAR PLANTS are not the only ones that we have found to have excellent qualities for gardens in our area. This season, our Teaching Nursery staff nominated ten plants that they consider “Rising Stars.” These plants have many of the same characteristics as our Arboretum All-

Stars—they are attractive, dependable, drought tolerant, low maintenance, and provide value to our wildlife. Interested in trying out some Rising Stars in your garden? They will all be available, along with many All-Stars, at our upcoming fall plant sales, while supplies last.



ASTER MONK
Aster x frikartii 'Mönch'

A winter deciduous perennial that produces lots of lovely, 2-inch wide daisies in clusters in summer and fall. Long-blooming, it is a magnet for many native bees so it is perfect for the native bee conservation gardener. (Size: 2' T x 3' W)



**SILVERY BLUE
RUSSIAN SAGE**
Perovskia atriplicifolia
'Blue Lisservy'

This silvery blue produces metallic silver stems and leaves topped with spires of lavender-blue flowers. Drought tolerant and summer blooming, it is a great choice for attracting native pollinators. (Size: 24" T x 12" W)



WINTER RED GERANIUM
Pelargonium 'Winter Red'

Diminutive in size only, this geranium produces lovely, narrow-petaled, salmon-colored flowers above green foliage especially in cool weather. This sturdy and dependable plant grows beautifully in our gardens in part shade. (Size: 18" T x 18" W)



**WHITE-STRIPED
CENTURY PLANT**
Agave americana
'Mediopicta Alba'

Well adapted to our dry summer climate, agaves have long been used as accents in California gardens for their striking sculptural form and creamy stripes. Thankfully this variety will only be half the size of its parent species. (Size: 4' T x 6' W)



AUSTRALIAN FUCHSIA
Correa pulchella
'Orange Flame'

The beautiful rusty-orange flowers of this low, evergreen shrub brighten up gray winter days and provide a sought-after food source for hungry hummingbirds. Plant it in well-drained soil, partial shade, and enjoy! (Size: 2' H x 3' W)



CENTENNIAL COYOTE BRUSH
Baccharis 'Centennial'

Propagation Manager Lisa Fowler loves the feathery flowers of this hybrid shrub. It is tough, drought tolerant and useful as a large-scale ground cover. (Size: 3' T x 3-5' W)



AUSTRALIAN ROSEMARY
Westringia fruticosa

With grayish leaves that produce small white flowers for much of the year, coast rosemary provides a useful option for the low-water gardener. It has been dependable and long-lived for us and is hardy to about 20°F. (Size: Certain cultivars mound to 4-6' T x 4-6' W)



OAK-LEAVED HYDRANGEA
Hydrangea quercifolia

Missing masses of flowers in your low-water garden? Fear not! When grown in the shade, these oak-leaved hydrangeas not only tolerate our water and heat, they produce large white, conical, long-lasting flowers. (Size: 4' T x 3' W)



**WARRINER LYTLE
BUCKWHEAT**
Eriogonum fasciculatum
'Warriner Lytle'

Buckwheats provide a tough alternative guaranteed to bring movement to the garden when creatures come to collect its bountiful pollen and nectar. With needle-like leaves and a cloud of white flowers that turn copper by fall, this is a useful ground cover for dry areas. (Size: 12" T x 6' W)



**ORANGE NEW
ZEALAND SEDGE**
Carex testacea

An evergreen plant, this New Zealand sedge needs shade in the Central Valley and some summer irrigation. Useful as an accent in container plantings, it's stunning when backlit by the winter light where it will glow a lovely orange. (Size: 4' T x 3' W)

ALL-STAR ROOF

Katie Hetrick, Director of Marketing and Communications

OVER THE PAST 10 YEARS we have seen Arboretum All-Stars move from favorites in our Arboretum and other campus landscapes to widespread use in gardens statewide, but now their profile is literally being elevated even further. . . Arboretum All-Stars can now be found on roofs!

Sam Cooney, superintendent of parks and grounds for the City of West Sacramento, was in a predicament. The meadow grass and wildflower mix originally installed on the roof of the LEED platinum-certified West Sacramento Community Center had reached maturity after 5 years and was showing signs of overcrowding. This, combined with the availability of new and innovative irrigation materials specific to green roof design, drove his decision to renovate. But when he was ready to select the plant palette he needed help. That's where Haven Kiers, special projects manager with the UC Davis Arboretum and Public Garden, stepped in.

"Needless to say my interest was piqued when I heard about this project," explains Kiers. "Green roofs are a specialty of mine—I teach courses on campus and elsewhere about their importance and installation. I also knew a former student that shared my enthusiasm and that I could recruit for the project as well."

Carmen Godinez, recent UC Davis Landscape Architecture and Environmental Design graduate, just finished her senior project on green roofs. Not only that, but she received an award for her work that she could contribute to furthering this environmental cause.

"I received a three hundred dollar grant that I was inspired to donate back to the UC Davis Arboretum and Public Garden to pilot plants for this project," explains Godinez. "The City of West Sacramento had a mix of meadow grasses planted up here originally, but we wanted try something different."

"I've always been interested in restoration, design, and attracting wildlife with plants, so incorporating lots of Arboretum All-Stars into this project made sense."

So far, so good. According to Cooney, the revamped irrigation system and primarily All-Star plantings have raised his interest in green roofs.

"I can't thank Haven and the UC Davis Arboretum and Public Garden enough, not to mention Carmen," says Cooney. "Their expertise in low-water, full-sun plant selections that will do well in shallow root situations like this has been invaluable. The plant selections have not only established themselves but are putting on a wonderful display for the pre-school classroom next door."



Because this planting is on a secluded roof, visiting this garden is not possible, but we can let you know the plant palette. Below is a list of the plants that were used. "AA" designates the Arboretum All-Stars.

DWARF WHITE-STRIPED CENTURY PLANT
Agave americana var. *medio-picta*
'Dwarf Alba'

SPIDER ALOE
Aloe x spinoisissima

RED KANGAROO PAW
Anigozanthos 'Big Red'

BLUE GRAMMA GRASS (AA)
Bouteloua gracilis

HEN AND CHICKS (AA)
Echeveria 'Imbricata'

BOWMAN'S CALIFORNIA FUCHSIA (AA)
Epilobium canum 'Bowman's #1'

CALIFORNIA FESCUE (AA)
Festuca californica

CORAL YUCCA (AA)
Hesperaloe parviflora

GARDEN CATMINT (AA)
Nepeta x faasseni

LITTLE SPIRE RUSSIAN SAGE
Perovskia atriplicifolia 'Little Spire'

AUTUMN SAGE (AA)
Salvia greggii

HYBRID SOAPWORT (AA)
Saponaria x lempergii 'Max Frei'

PALMER'S SEDUM (AA)
Sedum palmeri

CASCADE CREEK CALIFORNIA GOLDENROD (AA)
Solidago californica 'Cascade Creek'

DWARF GERMANDER (AA)
Teucrium chamaedrys 'Nanum'



FALL 2015 GATEWAYS EVENTS

plant sales

Arboretum Teaching Nursery
Garrod Drive, UC Davis
arboretum.ucdavis.edu

Saturday, October 10

9 am–11 am
Members Only

11 am–1 pm
Open to the Public

Saturday, October 24

9 am–1 pm
Public Sale

Saturday, November 14

9 am–1 pm
Clearance Sale

*Members always save 10%
on every purchase!*

Not a member?
Call ahead or join at the door!

guided tours

WEDNESDAY WALKS WITH WARREN

October 14
November 11
December 9

All walks begin at 12 pm,
Arboretum Gazebo

Join Warren Roberts, the Superintendent Emeritus of the Arboretum and famous storyteller and punster, for an always engaging noontime exploration of the UC Davis Arboretum's west-end gardens.



AMONG THE OAKS

Saturday, October 17, 11 am
Arboretum Gazebo

Explore an amazing variety of oaks from around the world in the Peter J. Shields Oak Grove. Learn about the life cycle of oaks and see why autumn is acorn time in the grove.



NATIVE AMERICAN USES OF CALIFORNIA PLANTS

Sunday, November 8, 2 pm
UC Davis Welcome Center

Enjoy an engaging, family-friendly tour of the Native American Contemplative Garden and discover traditional uses for a variety of California plants.

all-ages programs

ARBORETUM MAKERSPACE SERIES

Saturday, October 17, 1–3 pm
Arboretum Gazebo

Sunday, November 22, 1–3 pm
Wyatt Deck

(Rain location: 146 Environmental Horticulture)

We provide the supplies and you bring the manufacturing skills! Design innovative do-it-yourself projects by reusing everyday objects. All ages welcome.



STORYTIME THROUGH THE SEASONS: UNDER THE REDWOOD TREE

Sunday, November 1, 1–3 pm,
Wyatt Deck

(Rain location: 146 Environmental Horticulture)

Join the Arboretum Ambassadors for a free, outdoor reading program exploring the cultural and natural world of Native Californians. Enjoy traditional stories, games, and arts.

arts & letters

OPENING NIGHT: READINGS BY THE CREATIVE WRITING FACULTY

Wednesday, October 7, 7 pm
Wyatt Deck

(Rain location: 126 Voorhies Hall)

Award-winning fiction writers and poets from the UC Davis Creative Writing Program read from their work: Joshua Clover, Lucy Corin, Yiyun Li, Katie Peterson, Margaret Ronda, and Joe Wenderoth. Co-sponsored by the English Department.

FOLK MUSIC JAM SESSIONS

Fridays, Oct. 9 & 23, Nov. 6 & 20,
Dec. 4 & 18, Noon–1 pm
Wyatt Deck

Folk musicians bring their acoustic instruments and play together informally over the lunch hour. All skill levels are welcome and listeners are invited.

nature programs

WALKING IN THE WOODS WITH CHEMISTRY: TALK & TOUR

Sunday, October 11, 1 pm
Arboretum Gazebo

(Rain location: 146 Environmental Horticulture)

Have you ever wondered what makes up the flavor of your wine? Or how a plant can cure cancer? What the smell is in your perfume? Or how a tree defends itself? Join Chemistry Professor Dean Tantillo, Plant Biology professor Philipp Zerbe, and Chemistry Ph.D. candidate Nhu Nguyen for a talk and tour in the Arboretum, exploring these plant chemistry mysteries and more. All ages invited. Co-sponsored by the Tantillo Group, Chemistry Dept., and the Zerbe Group, Dept. of Plant Biology.

WALKING IN THE WOODS WITH CHEMISTRY: EXHIBIT

October 11 to December 7, 2015
Storer Garden, Mediterranean Collection,
Conifer Collection, & Mary Wattis Brown
Garden

Explore our temporary exhibit to discover how a plant can cure cancer, what plant molecules create the smell in your soap and perfume, and how a plant defends itself chemically. Spread across several collections in the Arboretum, this exhibit reveals some of the research of UC Davis Chemistry Professor Dean Tantillo, Plant Biology Professor Philipp Zerbe, and Chemistry Ph.D. candidate Nhu Nguyen. Co-sponsored by the Tantillo Group, Chemistry Dept., and the Zerbe Group, Dept. of Plant Biology.



THE TANOAK TREE: AN ENVIRONMENTAL HISTORY OF A PACIFIC COAST HARDWOOD

Sunday, November 22, 3 pm
Whole Foods Market Annex

Tanoak (*Notholithocarpus densiflorus*) is a resilient and common hardwood tree native to California and southwestern Oregon. Evergreen State College Botany Professor Frederica Bowcutt will talk about the complex history of cultural, sociopolitical, and economic factors affecting the tree's fate. Book signing after the presentation; books can be purchased onsite, provided by The Avid Reader. Co-sponsored by the UC Davis Arboretum and Public Garden, Davis Botanical Society, and Whole Foods Market.

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We extend our sincere gratitude to these donors

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Eugene & Elizabeth Renkin
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In Memory of Lisbeth Hirschboeck Petty
James Petty

In Memory of Karen Sue Khamashta

Karen Sue Khamashta
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STAFF NEWS

THERESA GOMAN

After 10 years of caring for the west end of the Arboretum as a Gardening Specialist, Theresa retired in June 2015. Theresa helped shepherd a wonderful blossoming of Shields Oak Grove, Nature's Gallery Court, the Arboretum Teaching Nursery, the Early California Garden, and the South African Collection among many other areas. In addition to her commitment to excellence in the care of her area, Theresa will be especially missed for her positive spirit and friendly leadership style with her Tuesday and Thursday volunteer teams. What's next for Theresa? Sleeping in past 4 am, photography classes, and a gradual move to Baja California. Congratulations, Theresa, and thank you for your many years of wonderful service to the Arboretum.



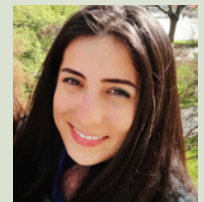
PAUL WILSON

Please join us in welcoming Paul in his new role as Gardening Specialist in the central area of the Arboretum. In the few months since he has started, Paul has already made great strides in improving the care and appearance of the Foothill, Desert, Redbud, and Aca-cia Grove sections. After receiving a degree in Environmental Horticulture from Cal Poly San Luis Obispo, Paul worked in a variety of private sector positions in landscape maintenance, landscape construction, and native plant restoration. He came to us with great reviews for his enthusiasm, drive, excellent performance, and strong leadership. Newly married, Paul is excited to settle down and develop his horticultural career at UC Davis. He is poised to contribute greatly to the care of the Arboretum as the newest member of our horticulture team.



ANGELICA SAUCEDA

We hope you will join us in extending a warm welcome to our new Plant Records Specialist, Angelica Saucedo. With the help of the Arboretum's curatorial volunteer teams, Angelica will be managing our extensive museum records, including our collection maps (GIS) and plant records (BG-Base). Once a student worker at the Arboretum, Angelica went on to become a field botanist/ecologist specializing in California native plants, mapping and studying rare plants, and, most recently, a marketing consultant for a landscaping company who helped to educate local gardeners. Along with her botanical, horticultural, and technical skills, Angelica brings both experience and a passion for working with empowered community members to have a local impact for conservation.



LEARNING BY LEADING PROGRAM SPOTLIGHT

EDIBLE LANDSCAPE INTERNS PILOT CAMPUS GLEANING PROJECTS

CARLI HAMBLEY, CO-COORDINATOR (second from the left) for our Edible Landscaping Internship Program, has a passion for making sure that food grown in our campus edible landscapes gets to the people and programs that need it. She has some experience in this area as she recently helped facilitate, along with GATEways Horticulturist Stacey Parker, the approval of a gleaning project in a Plant Sciences field in partnership with the Department of Plant Sciences and Agricultural Sustainability Institute. What may seem on the surface as a relatively straightforward task—harvest food and give it away—actually involved multiple steps to ensure consumer health and food safety. Now, continuing her leadership role in our Learning by Leading Program, Carli will guide the edible landscaping interns in creating a new program to distribute produce grown in the Good Life Garden to the UC Davis Student Food Pantry. This is contributing to a larger effort to address food insecurity issues for UC Davis students. Support this team by purchasing cool-season edibles at our fall plant sales (see below).



COOL-SEASON EDIBLES AT FALL PLANT SALES

SUPPORT OUR LEARNING BY LEADING EDIBLE LANDSCAPE INTERNS at our upcoming fall plant sales (see front page for more details). To raise funds for their program needs, they will be selling a wide variety of cool-season edibles including lettuces, spinach, Swiss chard, onions, beets, lavender, stevia, santolina, thyme, sage, rosemary, chamomile, and more!

SNAPSHOTS

SUMMER ACTIVITIES

1. In August, the Grounds and Landscape Services unit of the Arboretum and Public Garden hosted the Professional Grounds Management Society School of Grounds Management; attendees learned about water conservation for large-scale landscapes and sports fields.
2. Laurie Casebier, entomology student, conducts research on the California jumping gall wasp. She inspects, collects, and records her findings from a selection of valley oak trees throughout the Arboretum.
3. The ever-popular Camp Shakespeare closed out its fifth-annual summer program in the Arboretum with a performance of *Twelfth Night*.
- 4A. Water-saving, temporary irrigation installations taking place throughout the Arboretum will help us improve overspray issues and allow us to water during recommended early morning hours. As funding allows, these systems will be replaced with permanent versions.
- 4B. Rick Bonin, Arboretum and Public Garden irrigation specialist, fine tunes a newly installed irrigation system in the Arboretum's North Coast Collection.



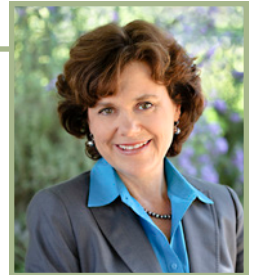
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Suzanne Ullensvang, Resource Development Manager
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Dear Friends,

I hope you'll join us in celebrating the 10-year anniversary of the Arboretum All-Stars Program at our upcoming fall plant sales. For a decade, these plants have been helping make it easier for people to choose low-water, low-maintenance plants in our region and across the state. All-Stars make it simple to have a beautiful, drought-tolerant garden that can also support native birds and insects with fewer problems with pests and diseases.

It's been interesting to look back and take note of the impact of this program and (pages 1 and 2). We want to thank all of the wonderful collaborators we've had in the All-Stars Program over the last ten years, including UC Davis researchers and staff, as well as industry partners, that have helped test and promote the plants across the state. I also want to thank all the funders and donors who have supported the All-Stars Program over the years.

Even among our All-Stars, certain plants stand out for performing the best in extremely low-water conditions (page 2). Some of our All-Stars are also being tried in non-traditional landscapes, such as a new green roof planting (page 4). And plants with All-Star qualities don't end there. Our talented nursery staff has selected ten more plants that deserve consideration for your garden. These "rising stars" (page 3) will also be available at our upcoming sales.

We hope you'll come to one or more of the plant sales where your purchases not only support the Friends of the UC Davis Arboretum and Public Garden, but also our Learning by Leading Program. Our Edible Landscape student interns will be offering a wide variety of cool-season edibles for purchase for your home gardens (page 7).

As the crisp fall air returns, and the colors turn from green to gold, I look forward to seeing you out in the gardens. Be sure to enjoy some of our wonderful free programs lined up for this season (page 5).

Kathleen