

## Fall PLANT SALES

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

#### **PUBLIC SALES**

Saturday, Sept. 29 9–11 am members only 11 am–1 pm general public

Saturday, Oct. 13 Saturday, Nov. 3 (Clearance Sale)

Members always save 10% on every purchase!

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





ARBORETUM AND PUBLIC GARDEN

**CLIMATE TOMORROW** 

## THE UC DAVIS LIVING LANDSCAPE ADAPTATION PLAN

Mary Burke, Director of Conservation and Environmental Leadership

Climate change has been described as the biggest threat to our planet, and for public gardens and landscapes that include horticultural plants that may be growing far outside their native range, it is a special concern. In California, climatic changes are already underway. Extended periods of drought are alternating with intense and frequent storms; in natural systems, forest species are gradually moving to higher elevations, bloom times of flowering plants have shifted, and patterns of mammal migration have changed.

At the UC Davis Arboretum and Public Garden, we are committed to environmentally responsible landscape management. Our team is working closely with the campus planning leadership at UC Davis to develop a 70-year plan that will allow us to transition the landscapes of UC Davis to a climate-ready campus. This UC Davis Living Landscape Adaptation Plan (LLAP) will help our professional staff adapt the campus landscape to the likely impacts of climate change, dwindling water supplies, aging plant populations and plant health threats.

The development of the LLAP has been a campus-wide initiative, engaging students, faculty, and staff

In 2016, we launched a Climate Assessment Learning by Leading™ internship and began integrating students into the long-range planning for our campus. In addition, we have drawn on UC Davis faculty expertise and scholarship in climate modeling, plant science, water and soil systems, and the legendary environmental "know-how" at UC Davis in the development of the LLAP

What the future will look like at the local level has become easier to see, thanks to the webbased Climate Adaptation planning toolkits provided by State of California's scientific and research staff (Cal-Adapt.org), along with even more localized climate studies done by Jim Thorne at UC Davis. This research suggests that in 2100, the climate of UC Davis may most closely resemble the current climate of Barstow, California in the western Mohave Desert (Mc-Bride & Laćan, 2017).

Over the last year, our team has hosted thoughtful, wide-ranging conversations on four landscape types that cross all campus boundaries: Wildlands and Rural Landscapes, Ag & Research Fields and Roadsides, Learning Landscapes, and Central Core Landscapes (i.e. lawns and athletic fields). Each landscape type has unique challenges ahead as we learn to adjust to a warmer, drier climate.

We have drawn on our research and conversations to create a number of climate adaptation goals for the UC Davis campus. These include:

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Student interns in our Sustainable
Horticulture Learning by Leading<sup>TM</sup> program
transform high-water-use lawns and other
campus landscapes into gardens that are
low maintenance, low resource-consuming,
and add ecological value. This spring,
the students took on the largest projects in
the program's history, converting a barren
landscape east of the Southwest USA and
Mexican Collection into a drought-tolerant
agave garden and creating a pollinatorfriendly garden along La Rue Road (across
from Arboretum Headquarters). Landscape
conversions are an essential element of our
greater plan to address climate change.



## THE UC DAVIS LIVING LANDSCAPE ADAPTATION PLAN



Acorns collected in 2016.

From Page 1

## A TRANSFORMED CANOPY OF TREES

Building on research done here at UC Davis and beyond, this plan proposes replacing highly vulnerable species on campus with trees that are better adapted to future conditions and provide the most environmental, social, and economic value in the future. To meet this goal, we plan to conserve especially valuable trees on campus,

such as our redwoods and heritage oaks, change management practices to help all UC Davis trees bounce back from coming climate shocks, and implement slow system-level changes in the UC Davis tree canopy by planting trees that will suit the new climate.

#### A 'CRADLE TO ANCIENTS' PLAN FOR CAMPUS TREES

We realize that the benefits (i.e. shading and beauty) of a thriving campus-wide tree canopy depends on tree survival. The LLAP proposes an aggressive program that targets growing top-grade nursery trees, top-notch preparation of all planting sites, excellent water, monitoring for pests and weeds, new student teams pruning young trees into promising, strong specimens, and professional crews managing and caring for the large mature trees. Similar plans for other campus landscapes will provide rich and diverse habitats across UC Davis.

## STUDENTS AND COMMUNITY TEAMS INTEGRATED INTO THE SYSTEM

The LLAP builds students and learning into the system from the start. As we enter a new time of uncertainty and change, our staff and student teams will work together to launch pilot projects, rapidly adapt and learn, and then share what they learn. We, in turn, will share what we learn here at UC Davis with a "network of networks," via both national campus planning professional organizations and the larger international network of botanical gardens.

We look forward to sharing more information about the plan as the work continues.













## SPRING: GATEWAYS EVENTS AND MORE

- Learning by Leading™ students and staff helped organize a field trip for dozens of students from Edward Kemble Elementary School in Sacramento. Rachel Davis (right) teaches students about the importance of pollinators, native plants and how to plant them.
- 2. At our recent Donor Appreciation Party, we conducted an official ribbon-cutting ceremony to commemorate completion of Phase 1 of the Waterway Maintenance and Enhancement Project. Phase 2 of the project is planned to begin during summer of 2019 or 2020.
- 3. As part of the City of Davis' Second Friday ArtAbout, students from Professor Robin Hill's advanced sculpture class temporarily installed their work throughout the Arboretum GATEway Garden. This piece, part of a series of sculptures by Brandon Magee, is entitled "Future Concretions."
- 4. Learning by Leading™ Museum Education students launched a tree tag program on campus, as well as in the City of Davis, to educate our community about the importance of trees. The tags featured trees' environmental values, tree facts and tree care tips.
- 5. Learning by Leading™ students designed and built a float to highlight this year's Picnic Day theme, "Where the Sun Shines."
- 6. Andrea Grant and Daisy Valdez, Learning by Leading™ Edible Landscaping interns, spruce up the Salad Bowl Garden outside the Plant and Environmental Sciences building. Surplus produce from this garden is donated to The Pantry a student-run service that offers basic necessities and nutritious food options.

### AMBASSADORS GO GOLD

The Arboretum Ambassadors have won their fifth consecutive gold level Community Service Award from the UC Davis Community Service Resource Center for their transformative work in environmental education.

The Arboretum Ambassadors, a Learning by Leading™ team focusing on environmental leadership, design participatory learning experiences that engage the broader community with the Arboretum and connect our visitors with both nature and culture. They invite families and learners of all ages to campus and provide high-quality education events that improve environmental awareness and ecological literacy.

Arboretum Ambassadors student Co-Coordinators Vanessa Martinez (center) and Vivian Sieu (second from left) accepted the award at the ceremony in May. Staff from left are Elaine Fingerett, Kathleen Socolofsky and Carmia Feldman.





## NEXT STEPS FOR THE ARBORETUM WATERWAY

We are pleased to say that Phase 1 of the Arboretum Waterway Maintenance and Enhancement Project is complete! We made a number of improvements to the East End of the Waterway over the past year, including a system of pumps and weirs to prevent surface algae build up, slopes along the banks that will be vegetated with California native plants, and a universally accessible walking path. Preparation for these improvements involved removing the failing rock gabions along the Waterway bank and more than 3,000 cubic yards of accumulated sediment.

Learning by Leading™ Waterway Stewardship interns and community volunteers have been hard at work planting the banks of the Waterway with California native plants that will hold the soil together, filter water, and provide wildlife habitat and beauty.

We are currently looking ahead to Phases 2, 3 and 4. The construction timeline for Phase 2, which includes Spafford Lake, is tentatively scheduled for summer of 2019 or 2020.

In the meantime, visit our new floating island of wetland plants near Putah Creek Lodge. This innovative project was spearheaded by Waterway Stewardship interns and supported by a grant from The Green Initiative Fund at UC Davis. The floating island improves the water quality, wildlife habitat, and aesthetics of this portion of the Waterway.

### FRIENDS BOARD NEWS

The Friends of the UC Davis Arboretum and Public Garden, our community support group, has been a tremendous partner in fostering the excellence of our gardens and programs for over 45 years. Our large base of loyal Friends members and the steady leadership of the Friends Board have been two reasons the Friends group has been so successful in providing critical financial and volunteer support.

We are especially grateful for the leadership of Martha Rehrman, who has served on the Board since 2011 and as President of the Friends since 2014. Martha has helped elevate the work of the Friends and excelled in bringing her own special flair to many Arboretum events celebrating volunteers, donors and other supporters. In addition to being Immediate Past President, Martha has agreed to step into the role of Secretary and plans to continue to work as an enthusiastic advocate for volunteers and members and share her unique talents as event planner extraordinaire.

Ann Trump Daniel, an active Arboretum volunteer since 2013 and member of the Friends Board since 2016, will assume the role of Friends President. Thank you to Martha, Ann, and all the members of the Friends Board for their dedication and leadership.



We are also pleased to welcome one new member to the Friends Board, Griselda Castro. Griselda was elected in June and brings extensive experience in student affairs, advocacy for underrepresented students, and community outreach to the Board.

Would you or someone you know be interested in doing more for the Friends? The Friends of the UC Davis Arboretum and Public Garden Board is currently accepting nominations for members-at-large for the 18-19 Board year. Consider offering your talents to support this amazing organization! The Board leads work groups that support the Arboretum through fundraising and involvement in strategic initiatives. Any member of the Friends is eligible for nomination. Please submit nominations to Suzanne Ullensvang at sullensvang@ucdavis.edu by August 15, 2018.

## THE INTERNATIONAL OAK SOCIETY IS COMING TO DAVIS!



Oak experts and enthusiasts from around the world will convene in Davis this fall for the 9th International Oak Society Conference

from October 22 to 24. The conference is only held once every three years, and the Arboretum and Public Garden is honored to be the first to ever host the event in Northern California. Focused on the theme of "Adapting to Climate Change – Oak Landscapes of the

Future," the conference will include three packed days of oral presentations, lightning talks, posters, workshops, local tours, a gala dinner, and a massive seed exchange. For more information or to register visit *arboretum.ucdavis.edu*.

The world-renown collection in Shields Oak Grove will be the featured attraction of Oak Discovery Day on October 21. This free pre-conference event will be open to the public and will include Native Californian acorn grinding and food preparation demonstrations, self-guided tours, and a variety of oak activities for visitors of all ages.

# UCDAVIS

ARBORETUM AND PUBLIC GARDEN

# SUMMER 2018 GATEWAYS EVENTS

## plant sales

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## guided tours

## WEDNESDAY WALK WITH WARREN

**September 12**, noon Meet at the Arboretum Gazebo

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

## all-ages programs

#### INSECT TALK AND TOUR Saturday, September 22, 10 am

Arboretum Gazebo

Learn about the insects in your own backyard! Join local entomologists on a dynamic and interactive tour of the west end of the Arboretum.

#### SUMMER SEASON CELEBRATION

**Sunday, July 15**, 2–4 pm Manetti Shrem Museum

The UC Davis Manetti Shrem Museum invites you to check out two new exhibits, meet the artists, enjoy live music, make cyanotype prints, then cool off with free ice cream!

### classes

#### **LEARN AND SHOP**

**Tuesday, September 18**, 10am-noon Arboretum Teaching Nursery

Our popular series of classes with Nursery Manager Taylor Lewis continues! This class includes a 75-minute plant workshop, followed by private shopping time in the Nursery. Class size is limited and pre-registration is required. For details, visit arboretum.ucdavis.edu, email arboretum@ucdavis.edu or call 530-752-4880.

## music & wellness

## FOLK MUSIC JAM SESSIONS Fridays, July 13 & 27; August 10 & 24; September 7 & 21, noon-1 pm Wyatt Deck

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

## camp shakespeare signups

#### **ROYALS AND RIVALS!** Ages 8-12

**Session 1 July 9–20,** Monday–Friday, 9 am–3 pm

Session 2 July 23-August 3, Monday-Friday, 9 am-3 pm

Arboretum Gazebo

Looking for an adventure this summer? Campers explore classic showdowns from two productions of the Davis Shakespeare Ensemble's 2018 season: *Mary Stuart* and *As You Like It.* Through theatre games, acting workshops, and a culminating performance, campers will discover the thrill of this year's stories.

## TEEN CAMP Ages 13-18 July 23-August 3

Monday-Friday, 9 am-3 pm Arboretum & Veterans' Memorial Theater

This camp is designed for teenagers wanting to sharpen their acting skills. Campers will also explore heroism, partake in stage combat, acting workshops, movement techniques, improvisation training, and more. Teens won't want to miss this opportunity to take their love of theater to the next level!

#### More Information

For more details and online enrollment, visit www.shakespearedavis.com, email davis. shakespeare@gmail.com or call 530-802-0998.

#### POLLINATOR GARDENING GRADUATES COLLABORATE WITH STUDENT LEADERS

This past March, the Arboretum and Public Garden sponsored its second Pollinator Gardening Training of Yolo County UC ANR Master Gardeners and Arboretum volunteers. Sixteen new trainees completed the course taught by a core team of Yolo County Master Gardeners: Ann Daniel, Judy Heckomovich, Christine Joshel, Donna Moyer, and Barbara Ohlendorf, who completed a similar training in 2017.

Topics covered in the 10-week class included an in-depth look at individual pollinator groups like bees, butterflies, and hummingbirds, as well an overview of how to choose plants for a home garden that attract pollinators.

This year, the team collaborated with Learning by Leading™ students to host Pollinator Discovery Day in May, a multigenerational educational event in the Environmental GATEway. The event featured interactive investigation stations where families could "ask an expert" about the benefits of pollinator gardening and engaging, question-based tours of the new gardens that were co-led by Pollinator Gardening Training graduates, both UC ANR Master Gardeners and Arboretum volunteers, and Learning by Leading™ students.

Next year, our calendar of events will include a number of tour dates when visitors can explore a new or unfamiliar garden in the Arboretum with a graduate of this Pollinator Gardening class and a Learning by Leading  $^{\text{TM}}$  student.

## DONATIONS February - April 2018

We extend our sincere gratitude to these donors

We strive to acknowledge your gifts accurately. Please notify us of any corrections.

Dave Brent Margo Brewer Janet Brewster

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Thank you to everyone who gave to our **GATEway to Edible Campus campaign** this spring! Generous donors, members, volunteers, and alumni made gifts totaling over \$72,000, exceeding our goal for the campaign. Together, your donations will fund plants, interpretive signage, intergenerational events, and a mobile education cart that will help us expand our outreach efforts. Thank you for being a part of the transformation of the Good Life Garden this year.

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## FROM THE DIRECTOR



Dear Friends,

Summer is here once again, and we are reminded of the famed dry heat that we experience in much of California. Although we had a relatively wet winter this year, we know the climate is changing and will bring more extended periods of drought and bigger storms. We at the Arboretum and Public Garden are working closely with our campus partners to plan ahead for the climate of the future to make sure our landscapes will be able to survive and flourish. Read the cover story to find out about our work on the Living Landscape Adaptation Plan.

Our Learning by Leading™ students continue to partner with us as we make important changes to our campus landscapes. Our Sustainable Horticulture students are converting high-input landscapes, such as lawns and barren landscapes into drought-tolerant, climate-adapted gardens (see page 2). Our Waterway Stewardship students are planting native waterway plants on the banks of the Arboretum Waterway to battle erosion and create habitat for wildlife (see page 4). In addition, they designed and built a floating island to improve water quality in the Waterway. Our Arboretum Ambassadors students were honored, once again, for their work offering educational programs to enhance the public's awareness of environmental issues (see page 3).

Our volunteers and partners are also joining us in this work. A new team of Master Gardeners and Arboretum and Public Garden volunteers completed a rigorous training on pollinator gardening this winter (see page 5). They have been tabling at our plant sales and joined our Learning by Leading<sup>TM</sup> students to teach the public at our Pollinator Discovery Day in May.

We want to thank all our members and donors (see pages 6-7), with a special thank you to everyone who supported our GATEway to the Edible Campus campaign (see page 7). We also want to thank Martha Rehrman, outgoing president of the Friends of the UC Davis Arboretum and Public Garden, for her excellent leadership and contributions over the past four years (see page 4). We are thrilled that Martha will continue to serve on the Board as we welcome new President, Ann Trump Daniel, and new Member at Large, Griselda Castro.

Be sure to join us for events this summer (see page 5), and stay cool as you enjoy our gardens and collections.

Kathleen