

Teaching Assistant Hunter Bolt instructs students enrolled in an animal biology laboratory how to catch and release crayfish from Putah Creek. In this class students conduct field experiments and report on their findings.

Photo by: Karin Higgins

the review

UC DAVIS ARBORETUM AND PUBLIC GARDEN

Fall PLANT SALES

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

Saturday, October 7

9 - 11 AM
MEMBERS ONLY

11 AM - 1 PM
PUBLIC SALE

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

Saturday, October 21

9 AM - 1 PM
PUBLIC SALE

CLEARANCE SALE

Saturday, November 4

9 AM - 1 PM
PUBLIC SALE

UCDAVIS



ARBORETUM AND
PUBLIC GARDEN

A BRIEF HISTORY

UC DAVIS PUTAH CREEK RIPARIAN RESERVE

Katie Hetrick, Director of Marketing and Communications

Did you know that the UC Davis Arboretum and Public Garden also maintains and operates the Putah Creek Riparian Reserve (Reserve), several hundred acres along 5.5 miles of Putah Creek on the UC Davis campus? Our campus utilizes this riparian and grassland ecosystem for teaching and research purposes, wildlife and habitat protection, and community engagement. We are extremely fortunate to have the Reserve as a campus resource because, according to the State of California Wildlife Conservation Board, humans have removed, degraded, and disturbed 95% of California's streamside habitat since the Gold Rush.

The Reserve has a history of disturbance and alteration by humans, but we are making huge strides toward restoring this endangered environment. In fact, it is a model for riparian restoration and now serves as inspiration for our ongoing Arboretum Waterway Maintenance and Enhancement Project.

Although the Reserve's history is complicated, its path forward is clear. All the stakeholders for the area are working together, and the wildlife and native vegetation are beginning to flourish. But, that was not always the way...

In 1989, as the result of a 7-year drought, the UC Davis Putah Creek Riparian Reserve and other nearby riparian areas were suffering. Fish, trees and important plant habitats were dying; wildlife were abandoning the area and aquatic species perished in the mud. The issue was not only a lack of rainfall, but also confusion about

water rights and whether California law obligated Solano County Water Authority to release water from a nearby Putah Diversion Dam to feed lower Putah Creek.

In 1990, The Putah Creek Council, a non-profit group founded to protect Putah Creek's riparian habitat and water level, secured immediate, but temporary, relief for the creek in the form of greater water flows to the area. In 1991, they filed a formal lawsuit and in 1993, UC Davis and the City of Davis joined as additional plaintiffs. Flash forward about 7 years to the year 2000 when a judge found in favor of the plaintiffs and a subsequent settlement created an accord to establish permanent flows to the 23 miles of Putah Creek below the Putah Diversion Dam (including the Reserve). Great news, but now what?

"The university and its partners just invested in the long-term health of the environment here and its value as a teaching resource," says Andrew Fulks, an assistant director of the UC Davis Arboretum and Public Garden and director of the Putah Creek Riparian Reserve. "But it was no one department's responsibility to care for it."

So, in 2002 the university hired Fulks to manage the Putah Creek Riparian Reserve. He worked with the campus to establish a vision for the Reserve including creating a formalized network of trails, re-establishing native vegetation, removing invasive plants, restoring habitat, and more, but before he could tackle any of that, he first had to work on securing the area.

Continued next page.

PUTAH CREEK RIPARIAN RESERVE

Continued from page 1.

“Back then the Reserve was akin to the ‘Wild West,’” explains Fulks. “Because it wasn’t actively being managed, the Reserve had become a popular dump, illegal camping area, and destination for off-road recreational vehicles.”

While those issues still exist from time to time, they are less frequent thanks to the watchful eyes and creative problem-solving skills of the Reserve’s Manager Jean-Philippe Marié. Now that the water and trespassing issues are resolved, this small, but nimble team’s focus is on restoring the Reserve, improving the riparian ecosystem, and supporting the area as a resource for research and community engagement. This vision is well on its way thanks to collaboration from our partners including the Putah Creek Council, the Lower Putah Creek Coordinating Committee (a group of stakeholders from both Yolo and Solano County formed as a result of the lawsuit accord), the Arboretum and Public Garden’s Learning by Leading Restoration Ecology students, and the Solano County Water Agency.

“Yes, *that* Solano County Water Agency,” says Fulks. “The same agency we argued

against over water rights is now an essential partner!

“They have gone above and beyond and are fully engaged in improving the area’s ecosystem services. In fact, in 2009, they received an environmental award from the City of Davis.”

LEARN MORE ABOUT PUTAH CREEK

To learn more about Putah Creek, its history and management, please visit these websites:

UC Davis Putah Creek Riparian Reserve: putahcreek.ucdavis.edu

Putah Creek Council: putahcreekcouncil.org

Solano County Water Agency: www.scwa2.org



Professor Robert Kimsey from the UC Davis Department of Entomology instructs students about crayfish trapping and sampling at the Putah Creek Riparian Reserve. This area is utilized for multiple research and teaching uses as well as for community engagement and recreation.

The Solano County Water Agency has also recently agreed to fund the Arboretum and Public Garden’s Learning by Leading Restoration Ecology internship for at least the next year and envisions long-term support of this program in the future. We as an organization and community have so much to applaud them for, including their creation of multiple salmon spawning areas along the creek. The Solano County Water Agency estimates that this work led to 1500-1800 salmon coming up the creek last year – the highest ever recorded since the return of stream flows in 2000.

There are so many more stories to tell about the Reserve and its importance to the campus as a resource for research and student learning. Create your own story this summer! Exploring this area is equivalent to entering a time machine to understand what the Arboretum must have been like well before the university arrived. Start your walk from one of the Reserve’s trailheads (see inset for more details) and gain an appreciation of this endangered riparian habitat.



First time visitors to the Reserve should start at the Levee Road trailhead (see map left). From this location, visitors can get an overview of the Reserve and its variety of ecosystems.

Upon arriving, park in the gravel lot and walk upstream; if you are facing the creek from the parking lot, this means walking to your right. There are two trails in this direction, a lower and upper one. Take the lower trail along the creek then loop back around on the upper trail. You will arrive back to where you parked, but if you would like to keep going and explore another part of the Reserve, keep hiking downstream. In this direction, you will have views of restored native grasslands, prime habitat for hawks. You can hike all the way to Old Davis Road on this trail. Turn around and take the same trail back to your car, or you can walk the top of the levee.

Portable toilets are coming this summer, but just in case, go before you go! Please limit your adventures to the north side of the creek; this is university property. For more use rules, regulations and information [visit putahcreek.ucdavis.edu](http://visit.putahcreek.ucdavis.edu).



Our newly-planted Hummingbird GATEway Garden and pet-friendly demonstration gardens are right outside the recently-opened Veterinary Medicine Student Services and Administration Center and Scrubs Café just north of our Arboretum Teaching Nursery on Garrod Drive. (Café hours M-Th 7 am - 5 pm and Friday 7 am - 3 pm)

PET-FRIENDLY GARDENS

Emily Griswold, Director of GATEways Horticulture and Teaching Gardens

Katie Henrick

When I learned that the School of Veterinary Medicine would be constructing a new building just north of the Arboretum Teaching Nursery, I was excited at the prospect of collaborating with Vet Med faculty, staff, and students on gardens around the new building, as well as our visitors having access to the new Scrubs Café. In our first meetings, three major ideas came out of our conversations – supporting the school’s One Health Initiative, creating pet-friendly landscapes, and building a hummingbird research garden.

The One Health Initiative is based on the idea that animal, human, and environmental health are all connected. This idea serves as an overarching theme that is reflected in all of our new gardens here. In transitioning from the more natural environment of the Arboretum to the more urban environment of the Vet School, we chose to also transition from Arboretum gardens focusing on wildlife (native pollinators, hummingbirds, and other birds) to urban gardens adjacent to the buildings

focused on domesticated animals (cats and dogs).

Companion animals have a constant presence at the Vet School. Thousands of cats and dogs every year are treated at the Small Animal Clinic. Teaching colony and blood donor dogs that live on site are treated to regular walks in the Arboretum as part of their exercise regime. Vet students can even bring their pets to school! It’s no wonder that there was a lot of enthusiasm for incorporating pet-friendly features into the new gardens.

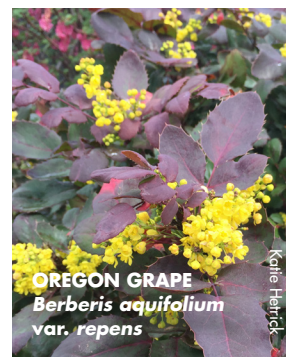
When you visit, look for the outdoor drinking fountain designed for use by people and pets, doggy waste bag dispensers located near garbage cans, and the café’s outdoor walk-up window for dog-friendly ordering. Garden plantings have also been carefully selected with pets in mind. Here are some ideas to consider trying in your garden at home that will bring pleasure to you, Fluffy, and Fido. As always, please keep your pets on a leash when visiting.

SENSORY ENRICHMENT



Both cats and dogs enjoy strong smells and fragrant plants. Consider incorporating herbs such as rosemary (*Rosmarinus officinalis*) or lavender (*Lavandula* spp.) in your garden for their aromas. Cats go wild for catmint (*Nepeta x faassenii*) and catnip. Dogs also enjoy tasty fruits and vegetables, and would appreciate a patch of wild strawberries (*Fragaria vesca*) all their own.

NON-TOXIC AND DURABLE



Choosing non-toxic plants can help ensure that pets aren’t accidentally poisoned in the garden. Dogs in particular can be rough on plants, so durable choices that can withstand some trampling or bedding down are helpful. Dwarf bottlebrush (*Callistemon viminalis* ‘Little John’) and creeping Oregon grape (*Berberis aquifolium* var. *repens*) are two choices that are non-toxic and tolerant of some wear and tear once they’re established.

GRASSES



Dogs and cats both eat and enjoy grasses. Vomiting following grass ingestion is normal and natural. Cats enjoy hiding in tall grasses, and dogs have been known to choose a big bunchgrass as a favorite place to sleep and lounge. Eyelash grass (*Bouteloua gracilis*) and pine muhly (*Muhlenbergia dubia*) are my two favorite pet-friendly Arboretum All-Star grasses.

PETS AND WILDLIFE



Cats in particular are skilled predators and adept at killing birds and small mammals. Keep this in mind if you include bird feeders or bird-attracting plants in your garden. Bird advocates encourage cat owners to keep their pet(s) indoors. Outdoor cats can be outfitted with colorful fabric collars (like a scrunchie) to make them more visible to birds.

HIGHLIGHTS FROM SPRING

1. Since the Arboretum Waterway Maintenance and Enhancement Project began late last winter, contractors have installed a dam to drain the construction area, excavated over 20 years of sediment build up (see photo below), and removed the rock gabions that once secured its edges. Now, they are installing a pump and underground pipes to create water flow in this area and reshaping the banks with truckloads of new soil. The new banks will be revegetated this fall thanks to our Waterway WOW! campaign donors.

2. The Arboretum Ambassadors, our environmental leadership interns, received the UC Davis Gold-level Community Service Award and the President's Volunteer Service Award, for the 4th consecutive year, for their outstanding service to campus and the community. (Pictured: Vivian Le and Lauren Bradt (center), Elaine Fingerett (left) and Carmia Feldman (right))

3. Faculty and staff from the UC Davis Vet Med Teaching Hospital help plant pet-friendly and hummingbird gardens outside the new Scrubs Café and Vet Med Student Services and Administration Center located north of the Arboretum Teaching Nursery.

4. Kaitlin McGee from the Learning by Leading Program shows two attendees at the *What's the Buzz and Hum in the Arboretum* event how to press flowers.

5 Jessica Galvan, gardening and docent volunteer, together with her fiancé Dan Colvin, take home plant "thank you" gifts from this year's Volunteer Appreciation Party.



Recently we asked volunteers and supporters Jay and Terry Davison to share their thoughts about why they have planned a gift to the Arboretum and Public Garden in their estate. Jay wrote:

"Terry and I are both UC Davis graduates and therefore have a long history of appreciating and enjoying the UCD Arboretum. We started attending the Arboretum plant sales together regularly in the early 1980s. We were getting interested in this new idea of native California drought-tolerant plantings and the Arboretum was already at the forefront of the movement. We continued to attend the plant sales often over the years, and more recently to work as volunteers at them.

A dozen years ago, when our grandchildren were still very young, we brought them to the Arboretum to explore and to climb the wonderful old trees. This is a tradition that continues to this day (minus the tree climbing) even though they are now teenagers.

When Terry retired from the University in 2006 and began looking for volunteer opportunities, one of the first she chose was the Arboretum. We had been members of the Friends for many years, and this seemed like another way to serve. I joined her after retiring in 2011.

Including the Arboretum in our estate planning just seemed like the natural thing to do as we started looking around for organizations that had made a difference in our lives. When we created our family trust the Arboretum was one of the chosen recipients.

Our hope is that our gifts will be used for some of the projects that are part of the exciting future the Arboretum has envisioned with its master planning efforts. We know that many of these projects are only possible with contributions from fans like us. We expect that people will be enjoying the Arboretum as we have for many years to come and we are pleased to be able to help make their experience a happy and rewarding one."



SAVE THE DATE: Estate Planning Breakfast

Thursday, Sept. 14
9-10:30 am

Learn how you can invest in the Arboretum's future through a gift from your estate. Contact Suzanne Ullensvang at sullensvang@ucdavis.edu or 530-752-8324 for more information and watch for details in the Leaflet later this summer.

UC DAVIS



ARBORETUM AND PUBLIC GARDEN

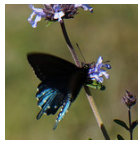
SUMMER 2017 GATEWAYS EVENTS

all-ages program

EXPLORING THE WONDERS OF INSECTS: TALK & TOUR

Sunday, September 10, 11 am-1 pm
Arboretum Gazebo

Bring your insect collecting nets and join entomologists Melissa Cruz and Joel Hernandez to explore the amazing diversity of insects from California, southern Arizona and much more. All ages are welcome.



guided tours

SENSATIONAL SUCCULENTS

Saturday, August 5, 10 am
Ruth Risdon Storer Garden

Succulents look stunning in a low-water garden. They're surprisingly easy to care for and come in all shapes and sizes. See examples in our Ruth Risdon Storer Garden and learn how to grow them.



WALK WITH WARREN

Wednesday, September 13, 12 pm
Arboretum Gazebo

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



music & wellness

FOLK MUSIC JAM SESSIONS

Fridays, July 14 & 28; August 11 & 25; September 8 & 22, 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.

camp shakespeare sign ups

SUMMER OF ADVENTURE Ages 8-12

Session 1 July 10-21,
Monday-Friday, 9 am-3 pm

Session 2 July 24-August 4,
Monday-Friday, 9 am-3 pm
Arboretum Gazebo

Looking for an adventure this summer? Sign up for Davis Shakespeare Ensemble's Camp Shakespeare and explore the exciting worlds of *The Three Musketeers* and *A Midsummer Night's Dream* through acting, improv, stage combat, costume design, dance, music and more! Linked closely with the Davis Shakespeare Festival, campers will be guided by professional artists from the DSE team and will experience nearly all aspects of the theatrical craft.

TEEN CAMP Ages 13-18

July 24-August 4,
Monday-Friday, 9 am-3 pm
Location TBA

This camp is designed for teenagers wanting to sharpen their acting skills. Campers will also explore heroism with the awesome characters listed above. Camp content will include 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.shakespeareatucdavis.com or call 530-802-CAMP.

STAFF NEWS NINA SUZUKI

The Arboretum Waterway is not only the centerpiece of the Arboretum; it is an essential piece of our campus's water infrastructure. Despite its high-profile importance, we have never had a staff member actively managing it, until now! We are thrilled to announce that Nina Suzuki has joined our team as Waterway Steward.

Nina comes to us from the Center for Land-based Learning where she was director of the SLEWS program (Student and Landowner Education and Watershed Stewardship). There she introduced high school students to the vital role of habitat restoration. Together they worked with a variety of different organizations to implement restoration projects on farms and ranches, giving these students the opportunity to see first-hand how the ecology concepts they learned in the classroom translated to repairing eco-systems in the real world – perfect experi-

ence for some of what Nina will be doing here.

Nina started her new position in April and jumped right in working with the contractor on the Arboretum Waterway Maintenance and Enhancement Project, keeping an eye on the wildlife in the phase-one construction area, figuring out ways to keep the Waterway algae and duckweed under control now that it is getting warmer, and launching her new Learning by Leading Waterway Stewardship program which will start this summer thanks to our Waterway WOW! campaign donors (see page 7).

She is looking forward to meeting more of our community this fall when we begin to revegetate the banks of the Waterway in the phase-one construction area and helping visitors connect with the environment in an easy, fun and educational way.



Katie Henck

Katie Henck

DONATIONS February - April 2017

We extend our sincere gratitude to these donors

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

ENDOWMENT GIFTS

Dick and Trish Bruga Teaching Nursery Endowment*

Dick & Trish Bruga

Arboretum

Enhancement Fund

Renuka Srinivasan

Mary Ann & Ernest Lewis Arboretum Endowment

Ernie & Mary Ann Lewis

FOUNDATION GIFTS

For Learning by Leading Program

Excelerate Foundation
Stuart Foundation

For Arboretum

Teaching Nursery
Stuart Foundation

GARDEN BENCH DEDICATION

In memory of Allio & Doris Bagatti
Lyle Bagatti

TRIBUTE GIFTS

In honor of Warren Roberts

Mike Smith & Cate McGuire

In honor of Kathleen Socolofsky

Pam Gibbs

In honor of Diane Ullman

John Browning & Elizabeth Siegel

In memory of Phil & Ann Aines

Roger & Amy Aines

In memory of Deborah Pinkerton

Kay Beeley

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Armstrong

June Bauman

Ann Denvir

Joel & Linda Dobris

Margaret Eldred

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Robert Gregoire

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Grivetti

Linda Hartsough

Tom and Faye

Hendricks

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Melanie Loo

Doug Rathgeb and Jean

Lucas

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Denise Odenwalder

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Jose Estrada and

Gretchen Smurr

Allan Thode

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Patricia Winton

UNRESTRICTED GIFTS

Chris Baumann

John Roncoroni &

Sharon Lynch

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IN KIND GIFTS

Lyle Bagatti

*new endowment

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Hess

Rodney B. Higgins

James Quinn and

Florence Hoffman

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Horton

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Jensen

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Jerry & Dee Johnson

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Janine Kasper

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Kennedy

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Kitlas

Raleigh & Nan Klein

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Stuart Lauters

Sherwin, Eileen &

Kevin Lee

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LeFlore

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Pam Lein

Pat Lennie

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Bramberg

Ira Bray

Dave Brent

Wendy Bright

Nanci Bristowe

Don Brooks

Tracey Brooks

Jamie Buffington

Teresa Bunn

Frances Burke

Alicia Burnett

Ann Burris

Ximena Bustamante

K M Butler

Joan Cadden

Tina Cahill

Maya Caldwell

David Carlomagno

Patricia Carpenter

Jan Carpenter

Crystal Carter

Joel Centman

Brandon Chee

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Johanna Chew

Rie Christiansen

Maggie Christman

Patricia Chuda

Renee Clark

Tom Clark

Juliann Clarke

Sally Cleveland

Petey Connolly

Dennis Corcoran

Ana Lucia Cordova-

Kreylos

Chris Craig-Veit

Danielle Creedon

Susan Crocker

Candace Cross-Drew

Yolanda Cuesta

Brian Davis

Carolyn De Buse

Cheryl Demharter

Kathryn Devon

Sabine Dickerson

Barbara Donnelly

Michael Doughton

Derek Downey

Susan Draa

Merrily DuPree

Patricia Echevarria

Ann Edmondson

Laura Eisen

Carla Elliott

Pat Elms

Sandy Enders

Jeanne Enos

Holly Enriquez

Dominic & Sandi Erba

Wendy Ernst

Ramon Espinosa

Lavada Esters

Terri Esther

Chris Evans

Carol Evans

Sharon Everett

Anna Liisa Fabritius

David Fahy

Evelyn Fallon

Lisa Farquhar

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 Emily Blair
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 Sonja Dieterich
 Alex Ferguson
 Lily Florin
 Amy Gillingwater
 Samantha Hartanto
 Lauren Jabusch
 David Jaffe
 Diane Javier
 Haoyang Liu
 Wendy Maihack
 Averil Mortimer
 Penny Mullerleile
 Nathaniel Oldwin
 Curtis Pufford
 Zack Steel
 Lucy Stover
 Rose Swift
 Erica Verde
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 Bryan Welly
 Joseph Wetherbee
 Cole Williams
 Daniel Winkler
 Nicole Yalung
 Zoe Yang

Thank you to all our donors! We exceeded our goal and raised over \$68,000 to vegetate newly created banks along the Waterway and help launch a team of Learning by Leading students to care for this vital ecosystem!



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FROM THE DIRECTOR



Dear Friends,

In this issue, we focus on water. Of course, you know the Arboretum and Public Garden helps people save water through drought-tolerant plants and landscapes. However, we also manage a lot of waterfront property, both in the Arboretum proper, but also in the UC Davis Putah Creek Riparian Reserve. Learn about the history of the Reserve, as well as its future with community partnerships and student leadership on page 1.

And in more water news, we are thrilled to announce the addition of the Arboretum and Public Garden's first staff person charged with maintaining the Arboretum Waterway, Nina Suzuki (see page 5). Nina will be starting a new Learning by Leading team of students focused on waterway management thanks to all our donors to this spring's Waterway WOW! campaign (see page 7).

The Waterway WOW! campaign was incredibly successful, starting with the first UC Davis Give Day on April 21 and ending with the region's Big Day of Giving on May 4. We appreciate how many people share our goal of improving the Arboretum Waterway (see project progress on page 4 in the photo collage) and building student leadership skills. Thank you for supporting us in this effort!

We also want to thank all our donors who have supported us over the years. In this issue we highlight Jay and Terry Davison who have chosen to support the Arboretum and Public Garden through their estate plan (see page 4). We invite you to learn more about estate planning at our workshop on September 14.

We are also excited about further development of landscapes related to our GATEways partnership with the School of Veterinary Medicine on the west end of the Arboretum. We are helping to showcase the campus's participation in the One Health Initiative through wildlife habitat gardens (for hummingbirds and other pollinators) and now a garden that caters to our furry family members, dogs and cats (see page 3).

We hope you get a chance to visit the new west-end gardens and the Putah Creek Riparian Reserve this summer, as well as watch the transformation of the east end of the Arboretum Waterway. As always, be sure to join us for a GATEways program (see page 5) or sign your children up for another wonderful summer of Camp Shakespeare.

Best wishes,

Kathleen