

Tahoe

UC DAVIS TAHOE ENVIRONMENTAL RESEARCH CENTER

SUMMER 2020

The Tahoe Environmental Research Center (TERC) is dedicated to interdisciplinary research and education to advance the knowledge of aquatic and terrestrial ecosystems and their interactions within natural and developed Earth systems, and to communicate science-informed solutions worldwide.

TERC educates the next generation of leaders and inspires environmental stewardship in thousands of students, community members, and visitors annually through its outreach centers.

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<http://tahoe.ucdavis.edu>



It is still unclear how COVID-19 will affect the long-term health and clarity of the lake, but TERC's researchers continue their essential monitoring work.

RESEARCH UPDATES

RESPONDING TO COVID-19

The TERC team modified many of their daily practices in response to the COVID-19 pandemic. TERC acted early in response to the outbreak, starting with the incredibly tough decision on March 7 to cancel the 15th annual Science Expo. Mandated social distancing began shortly thereafter, confirming that TERC had made the right call. Like the rest of the community, TERC staff has worked primarily from home since mid-March.

For the research team, this has meant balancing essential research projects with the need to maintain appropriate social distance, increased disinfection, and the use of proper personal protective equipment (PPE). This includes wearing an N-95 mask, goggles, and gloves to perform research. The essential field research and lab work has continued under these restrictive conditions, but with the knowledge that they keep us and the greater community safe.

Continued on Page 3

LETTER FROM THE DIRECTOR



Geoffrey Schladow Ph.D., Director, UC Davis Tahoe Environmental Research Center.

We have been living through a unique time. The issues at hand are monumental and life changing. None of us are exempt. In a normal year we would be busy preparing for summer with family and friends. At TERC we would be at the height of the summer research and groups of visitors would be moving through the Tahoe Science Center. Instead, the Science Center is empty, researchers have been limited to essential research only, and we spend much of our day shouting at computer screens, “I can’t hear you! You are on mute!”

Despite this the world does go on. Though it seems like the obstacles are insurmountable, we keep moving forward. There have been

many changes and adaptations at TERC.

I want to acknowledge the role that all of our staff, students and faculty played in implementing those changes to help safeguard themselves, their coworkers, and those we interact with. Their resilience and fortitude during very difficult times has been exemplary.

Beyond the work we do at Lake Tahoe, all TERC’s projects around the globe have been impacted.

In highly eutrophic Clear Lake, California, our intrepid graduate students have had to cool their heels when there was a complete ban on all boating. Once that was eased, working in face masks in 100 degree temperatures during the middle of a historic cyanobacteria bloom was a totally new experience.

Funding for both the planned Arctic and Antarctic science experiments is delayed for at least one year. The study of carbon dioxide bubble emissions from a lake in Spain is also postponed indefinitely, and we and our Spanish collaborators scramble to make new plans. The two students working on this are exploring new ways to get the data needed to complete their research.

My own experience of this period comes from four months spent in Chile, where “Quédate en casa,” or “Stay at home” was flashed across the bottom of TV screens, and greater Santiago was under mandatory lockdown for two months. Being in Patagonia, 800 miles south of Santiago, was far easier. While February allowed for progress in retrieving instruments and data from our study lakes, plans for instrumenting new lakes in Patagonia were delayed initially for a week, then a month, and finally to a future time when circumstances permit.

The most frequent question I have been asked in the last two months is, “What has been the impact of COVID-19 on Lake Tahoe?” That is a question we are working to answer. At the very least, with the skies largely free of plane contrails due to reduced air traffic, the lake is appearing bluer than ever.

So as you gaze at the bluer than usual lake this summer, hopefully while wearing a face mask and maintaining a safe distance from your loved ones, do so knowing that the work to understand Lake Tahoe continues.

Stay safe,

RESEARCH UPDATES *(Continued from Page 1)*

The team also assessed their PPE and donated 200 N-95 masks and 10 pairs of safety goggles to the Tahoe Forest Hospital to help with urgent COVID-19 needs (see below).

On March 10, TERC closed the science center to public tours and school field trips and postponed in-person education programming. The education team then commenced the massive task of converting their offerings to virtual platforms, including their Science-in-Place social media campaign. The team has filmed several educational activities (Page 6). The team is also developing virtual tours of the Tahoe Science Center this summer. These efforts help promote community engagement at Lake Tahoe.

TERC has taken the disruption from the norm as an opportunity to focus on essential projects and to reflect on the organization's mission. Although the platforms have changed, they continue the important work of studying Lake Tahoe and translating information to the public. 📺



Anne Liston dropped off N-95 masks to the local hospital.



ChLL director Fernando Coz working on the recent expedition at Lago Panguipulli.

GOING GOLD IN GREEN

UC Davis TERC won a Gold Green Laboratory certification through the UC Davis Green Workplace Pilot Program. The Gold ranking is the highest standard put forward, and TERC achieved 86% of the standards, putting them above the 80% minimum for Gold.

Anne Liston (left) was integral in preparing the TERC lab to be more resource and energy efficient, implementing better recycling practices, and assessing and minimizing redundancy and waste in the lab assessment at TERC. Her efforts won her a staff sustainability award, and she was recognized at UC Davis' second annual Sustainability Summit on May 29.

If you'd like to read more you can do so [here](#).

TERC IN PATAGONIA

TERC is a part of Fundación Chile Lagos Limpios (ChLL), a Chilean non-profit working to study the threatened lakes of Patagonia. In partnership with the UC Davis Chile Center, the group installed instruments in Lago Panguipulli and Lago Ranco. The next lake to be instrumented is Lago Llanquihue, a lake that is almost identical in volume to Lake Tahoe. It too has stunning blue water and three snow-capped volcanoes on its horizon.

Patagonian lakes are in the same position Lake Tahoe was in 50 years ago. Rapid urban development is starting, contamination is increasing, sewer overflows have resulted in beach closures, and climate change looms large. ChLL is working to bring a similar approach to Chilean lakes that have been successful at Tahoe.

RESEARCH UPDATES

TAHOE'S CLARITY

The clarity of Lake Tahoe has long been one of the most important indicators of the changing condition of this iconic water body. UC Davis has conducted continuous monitoring of Lake Tahoe since 1968, when a Secchi disc could still be seen a full 102 feet below the surface. In 2019, Lake Tahoe's clarity decreased nearly 8 feet from the previous year's dramatic 10-foot improvement. The average annual value in 2019 was 62.7 feet. The lowest value was

recorded in 2017 when clarity was 60 feet.

Such year-to-year and even day-to-day fluctuations are common. A truer picture of the clarity is often indicated by a five-year running mean, which shows a mean clarity of 67.3 feet.

A range of factors all exerted influences in determining clarity in 2019, including precipitation, lake mixing, sediment, algae, and climate warming.

In the past two decades, scientists have observed a divergence in winter and summer clarity (see graphs below, left). In the winter months, lake clarity tends to improve while in summer, clarity declines. A bi-state committee of scientists led by the Tahoe Science Advisory Council is studying why this occurs.

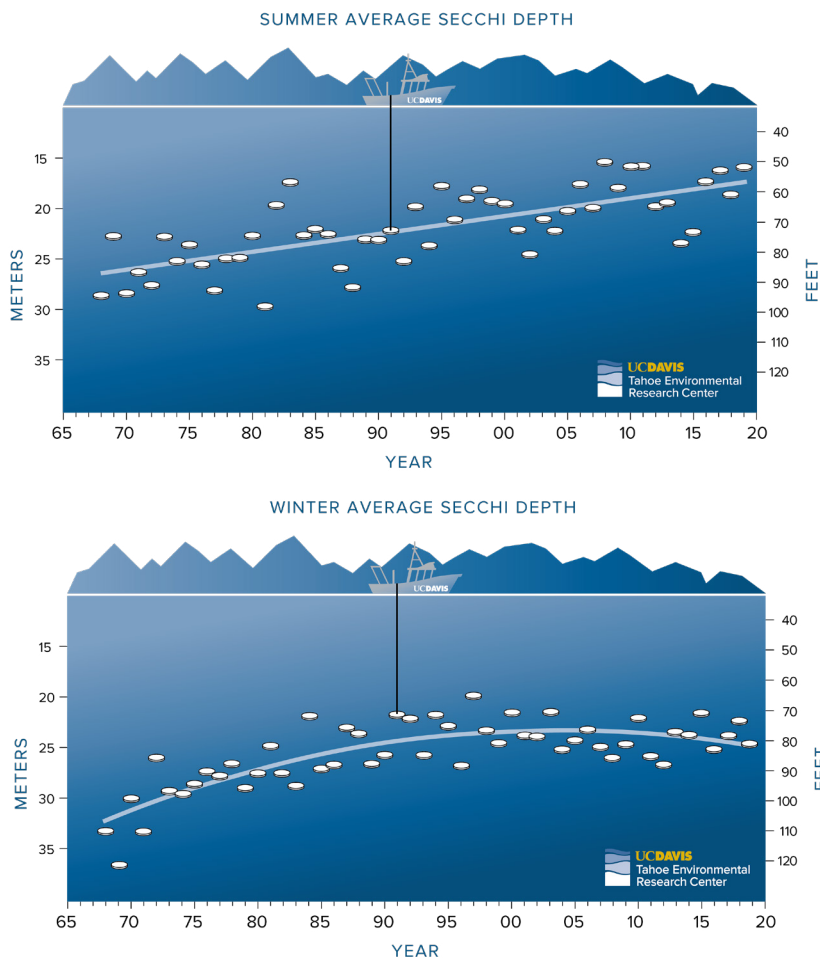
In 2019, the average summer Secchi depth was 53 feet. This is the fourth-lowest summer value, behind 2008, 2010, and 2011.

The trend in winter values slightly improved. The average winter Secchi depth was 81 feet. This is only slightly below the long-term mean of 84 feet. Scientists are evaluating the extent to which regulatory programs within the basin have contributed to improved winter clarity.

The highest clarity value of 112 feet was the result of the lake mixing to the bottom. When deep mixing occurs, it brings clear, deep water to the surface to immediately improve clarity, but the nutrients that are also moved can produce algal blooms later in the year.

More than 80 organizations, including government agencies and research institutions, are working in collaboration to address environmental impacts to Lake Tahoe's fragile ecosystem.

While the impacts of climate change and watershed contaminants have long been focal points of research, new research is exploring the impacts of the invasive *Mysis* shrimp on the native food web (page 5).



Note the trend line indicating a decline in summer clarity (top) compared to the improved clarity seen in winter trends (bottom).

RESEARCH UPDATES

MYSIS SHRIMP RESEARCH

For the last two years, TERC researchers and collaborators at the University of Nevada, Reno have explored the feasibility of deliberately removing the introduced *Mysis* shrimp from Lake Tahoe. With funding from the California Tahoe Conservancy and the Nevada Division of Environmental Protection, they used sonar to map the location of the migrating shrimp and experiment with a range of harvesting approaches, as well as studying the diet of *Mysis*.

The work was motivated by TERC's monitoring in Emerald Bay, which showed that when *Mysis* naturally disappeared in 2011, the native *Daphnia* returned and clarity improved 36 feet in two years. Clarity improved because *Daphnia* are capable of consuming fine sediments that wash in from the watershed and the tiny *Cyclotella* algae. Sediments and algae have both been implicated in Tahoe's loss of clarity. This could possibly be another tool to be used for restoring the lake's clarity.

TERC also commenced a partnership with a team of students at the UC Davis Graduate School of Management. Working together and with faculty from Animal Science at UC Davis, the team was able to conduct a feasibility study for the use of harvested *Mysis* to produce high-quality animal and human food supplements. Learn more about the study [here](#).

METAPHYTON

In recent summers drifting patches of green filamentous algae, called metaphyton, have been observed over the sandy bottom in near-shore waters along the southeast shore of Lake Tahoe. This algae, which is not attached to the bottom of the lake, is highly visible in the near-shore and occasionally washes onto the beaches where it decomposes and produces noxious odors.

Using a helicopter and a drone, as well as good old-fashioned sampling from the lake, TERC developed a rapid, accurate, and economical approach to monitor the near-shore. In a project funded by the Nevada Division of State Lands, the team developed a way to image the entire shoreline using a helicopter in less than 90 minutes and image specific bays in detail in only ten minutes.

The final product is a set of maps that give highly precise measurement of metaphyton that is calibrated with data taken at lake level. It is also now possible to use the same approach to quantify periphyton, the attached algae on rocks, and rooted plants, some of which are invasive.

Researchers are still trying to determine what has spurred the recent growth of metaphyton in certain areas of the lake. The evidence is pointing to the fact that growth is tied to nutrient inputs from the excretion produced by Asian clams. This excretion has over 100 times higher nutrient levels than the lake water and metaphyton are frequently found in the same areas.

Primary investigator on this project, Scott Hackley wrote a report about this relatively new algae to Tahoe. The data provided in this report will help guide future mitigation.



Aerial images like this one help TERC researchers rapidly assess the amount of metaphyton along the shorelines.

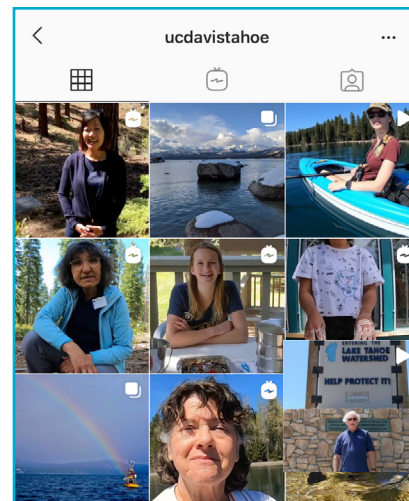
EDUCATION AND OUTREACH

EDUCATION GOES VIRTUAL

The TERC education team made the difficult decision to cancel the 2020 Science Expo for the first time in 15 years for nearly 2,000 third-through fifth-grade students from 16 elementary schools across four counties in the Tahoe basin in March due to concerns about community spread of COVID-19. TERC's education team made the best of this unfortunate situation by holding the event virtually. TERC's AmeriCorps members filmed some of their favorite "Earth and Space Science" themed activities and posted them online. You can view all of the Virtual Science Expo videos on the UC Davis [TERC YouTube channel](#). You can also follow along with the activities using the activity guides linked on the [TERC website](#).

As distance learning progressed through the end of the school year, TERC also created several videos to serve in the place of in-person field trips. AmeriCorps members Baylee Goodwin, Anne Graham, and Elise Matera filmed and edited videos covering topics from microplastics to tree health and ecology. These videos were sent to teachers to help them access high-quality science education and field trips even while their students were at home. TERC also partnered with several environmental education organizations in the Tahoe basin to provide alternative science programming to students.

It is challenging to replace the engaging, hands-on nature of a tour at the Tahoe Science Center, but the education team is working hard to create a virtual tour that will be even more expansive than what can be covered in person.



Virtual docents on Instagram make science-based education accessible for all!

Education has also continued through social media platforms. In April, UC Davis TERC began a social media campaign called Science-in-Place to promote environmental education from home. These posts include a variety of simple, at-home science activities, citizen science programs, and fun facts about Lake Tahoe. They also feature some of TERC's beloved docents, who continue to create video tours of some of the important aspects of the lake's science and health. Check out this campaign on UC Davis TERC Facebook, Instagram, and Twitter pages [@UCDavisTahoe](#).

The UC Davis TERC education team also curated a live, evolving Science-at-Home Resources page which includes free STEM (science, technology, engineering, and math) resources for parents, teachers, and students looking to broaden their STEM education.



AmeriCorps member Baylee Goodwin explains pressure systems that create weather as a part of the Virtual Science Expo, available on YouTube.

EDUCATION AND OUTREACH

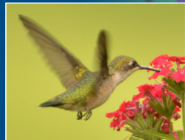
The Garden is Abuzz with Pollinators

The relationship between flowering plants and pollinators is mutually beneficial. The pollinator helps approximately 75% of the world's flowering plants produce fruits and seeds, while the plants provide food and shelter for the pollinators.

Unfortunately, human impacts such as habitat loss, fragmentation, pesticides, and climate change are leading to declines in pollinator populations.



Leafcutter Bee
Megachilidae sp.



Anna's Hummingbird
Calypte anna



Northern Checkerspot
Chlosyne palla

Plant the right plants!

Choose plants that have not been treated with pesticides or insecticides. Think beyond the summer growing season, pollinators need nectar starting in early spring and sometimes through fall.



The new signs at the demonstration garden will provide high-quality, science-based information and a professional, streamlined look.

GARDEN WORKSHOPS

On May 6, 2020, TERC hosted the first ever virtual garden workshop in Tahoe. The series of five virtual workshops covered tips and tricks to successfully grow potatoes, lettuce, kale, artichokes, and tomatoes at high elevation. The workshops garnered over 2,000 views total. These workshops introduced important environmental concepts and allowed Tahoe locals to take part in growing their own food.

TERC teamed up with several local organizations to offer these workshops, and the response was overwhelming. Registration had to close early due to numbers that surpassed the allowable number of participants in a live Zoom conference.

TERC is dedicated to interdisciplinary education to advance knowledge not only of the lake itself, but also the many interdependent forces

that impact its watershed. For eight years, these garden workshops have introduced the public to TERC's role in the local community, inspired people to garden with native plants, manage their landscapes with lake-friendly practices, understand the resources that go into growing food, and most importantly, to think critically about all these actions and their impacts on the Lake Tahoe basin.

In a follow-up survey, one participant said, "It is commendable that you were ready to put this series online quickly, as it is needed so much right now. Producing food ourselves is empowering, and we all need to keep learning ways we can individually produce more [food] at home and through consortiums such as this in our home communities."

For more information about these garden workshops or to see the recorded presentations please visit the [TERC website](#).

NEW GARDEN SIGNS

The importance of native plants, the essential role that pollinators play in the environment, the benefits of gardening—these are just some of the topics covered by the nine new interpretive signs coming soon to the North Tahoe Demonstration Garden adjacent to the Tahoe Science Center in Incline Village. The image to the left is one of the signs that will be displayed in the garden.

Over 20 cracked and faded signs currently line the garden path.

The nine new interpretive signs are designed to stimulate visitors' interest. They were completed through a partnership between UC Davis TERC and Tourism Cares, a non-profit organization whose mission is to advance the travel industry's positive social and environmental impacts.

Tourism Cares donated nearly \$7,000 to pay for the development and printing of these signs. TERC plans to install the signs this summer. The TERC team is excited to invite visitors to discover these new interpretive signs and explore the North Tahoe Demonstration Garden when the science center reopens.

Garden manager, Alison Toy, describes these new signs as "an extension of the Tahoe Science Center that will provide visitors with an outdoor learning experience that will compliment what they learn inside. Visitors will leave with an undeniable sense of place and hopefully a bit more knowledge than they had before."

EDUCATION AND OUTREACH

MICROPLASTICS OUTREACH

The TERC education team continues work on the campaign to reduce reliance on single-use plastics in the Tahoe basin. This multifaceted project is funded by Nevada Division of Environmental Protection and includes an exhibit explaining the science of microplastics, direct classroom programming, development of an outreach campaign as part of Take Care Tahoe, and a partnership to sell reusable water bottles at the local Raley's grocery store.

Exhibit

In order to communicate TERC's important microplastics research to the public, the education team is hard at work creating an exhibit to be displayed at the rescheduled Earth

Day celebration and "Below the Blue: Lake Tahoe's Litter Crisis" Art Exhibit at the Boatworks Mall and ultimately at the Tahoe Science Center. The exhibit features a large five-panel wall display and three tables of hands-on activities aimed to engage visitors in both the science of plastics as well as the solutions to the current global plastic crisis.

The panels across the wall tells the story of "A Day at the Beach," with a large photo of a Lake Tahoe scene laden with everyday, single-use plastics: water bottles and straws, zip-top plastic bags, a Styrofoam cooler, plastic utensils, and more. The exhibit then follows those plastics as they break apart into tiny pieces and shows how they impact the food web and the ecosystem. The activity tables allow visitors to test their knowledge of the plastic types #1-#7 and learn that the chasing arrow symbol does not necessarily

mean that a plastic is recyclable. There is also an activity which gives guests the opportunity to practice some of the same methods used by scientists studying microplastics. The exhibit wraps up with a call to action: it is not enough to change our habits of buying and disposing of single-use plastics, we must also stop the production of the non-essential, single-use plastics.



Incline High School AP Environmental Science students sort through mesoplastics they sorted as a part of TERC's in-class laboratory session.

School Programs

Together with the Tahoe Water Suppliers Association and Sierra Watershed Education Partnership (SWEPE), the UC Davis TERC education team developed curricula to teach students about the plastic problem facing Lake Tahoe. Early in the year, TERC began meeting with Incline High School's Roots and Shoots club and Advanced Placement Environmental Science class to implement programs that reduce usage of single-use plastic. The education team developed a series of informative and hands-on classroom activities to get the high school students engaged in the local environmental problem of plastic pollution.

In the first session, students sorted their own school cafeteria's recycling and discovered that only a small percentage of what was deposited



AmeriCorps member Anne Graham builds part of the microplastics exhibit to be installed at the Tahoe Science Center.

Continued on Page 9

EDUCATION AND OUTREACH *(Continued from Page 8)*

could actually be recycled. Students then participated in a discussion about what this problem looks like from a local to global scale and potential solutions that could be implemented as individuals and as a community.

In the second session, students were provided with a 1-meter quadrant of beach sand collected from Hidden Beach in Incline Village. Students then practiced the lab methodology used by TERC and other scientists to analyze the sand for microplastics. Students learned how plastics break apart into smaller and smaller pieces, but never decompose or biodegrade fully.

Reusable Water Bottles

The Raley's grocery store in Incline Village is partnering on this project and to sell newly designed reusable metal water bottles that feature "Drink Tahoe Tap®" and plastic-free messaging. Raley's has also placed



Reusable Take Care Tahoe water bottles are now available at the Raley's in Incline Village, NV.

signs that encourage customers to make the more sustainable choice of going reusable in the single-use plastic aisle.

The marketing campaign builds on the highly visible and effective Take Care Tahoe campaign. By using eye-catching bright colors and witty phrases, the water bottles will not only serve as a sustainable way to fill up on water, but will also encourage others to rethink their plastic use.

In conjunction with the sale of reusable water bottles, TERC also conducted a survey on single-use water bottle usage in the Tahoe area by residents and visitors.

The sale of these reusable water bottles will be coupled with a push to increase accessibility to drinking water filling stations around the basin. In partnership with SWEP and Incline High School, TERC plans to double the number of refill stations on the mobile "Tap App," which points folks toward locations where they can refill their water bottles.

Working with the Take Care Tahoe team, TERC also intends to roll out a badge system which businesses can use to display their commitment to sustainability and to attract more customers. ■



Back in January, guests enjoyed drinks garnished with local Tahoe botanicals.

2020 SCIENCE OF COCKTAILS

This year's sold-out Science of Cocktails held on January 31, 2020, was the most successful yet! Each year, the TERC team tries to out-do the delectable drinks and spectacular activities from the previous year. This year was no exception, with over 30 stations ranging from soda with locally foraged garnishes to a glow-in-the-dark Gin and Tonic to the Physics of Beer Pong.

Over 70 volunteers stepped up to lead stations, pour drinks, and help with set-up and breakdown. Volunteers and staff ensured that more than 200 guests were treated to a lively evening of fun and leaving with some newly acquired knowledge and an increased passion for protecting Tahoe's environment.

TERC TEAM UPDATES

GOOD LUCK SCOTT HACKLEY!

There is a mysterious, bipedal animal that creeps along Tahoe stream banks under the cover of darkness. The first glimpse of it was recorded nearly 40 years ago during a heavy rain on snow event. Those who have encountered this unique creature have attested it appears fearless in the face of all streams and clearly cares about Tahoe and its tributaries. Old-timers mention seeing it enter the swollen streams, chest deep without faltering. All indications are that he likes to be left alone to go about his bizarre nightly ritual. If you happen to be driving along the west shore of Lake Tahoe on a rainy night, keep an eye out, for you may spot the rare species who has been classified as a UC Davis TERC Stream Hydrologist Scott Hackley.

This is how one TERC member described Scott in honor of his retirement after his 38 years of service. The stories, accolades, stats, and smiles were flowing like the streams he monitored when staff members were asked to describe Scott. Scott led TERC's hydrology, nearshore algae and atmospheric deposition work for the past nearly four decades writing annual technical reports. Calm, caring, kind, humble, patient, genuine, dedicated and always willing to lend a hand were just some of the descriptive words that TERC staff used when talking about Scott. The consensus is that Scott is a wealth of knowledge with decades of limnology information and experience under his belt, and there's absolutely no replacing him. Everyone who had the opportunity to work with him feels beyond fortunate,



Scott Hackley in his natural habitat, waist deep in a stream.

and we will all miss him so much around the office. The friendships Scott has built with his coworkers will last outside of his time at the office, and we hope to catch a glimpse of him wading mysteriously into Tahoe waters soon. Thank you for your tireless service to UC Davis TERC and the entire Tahoe Basin.



Anne Graham in the Tahoe winter snow.

WELCOME, ANNE! EDUCATION PROGRAM ASSOCIATE

Welcome to TERC's new AmeriCorps member Anne Graham! Anne's first day of work was January 31 at the

Science of Cocktails event, where she stepped up to the plate and integrated herself seamlessly into the education team! She had only about a month of office time before being quarantined at home, but continues to contribute to the team through her work on the microplastics project and leading the High Elevation Garden Workshops.

Anne was born and raised in the Raleigh-Durham area of North Carolina, falling in love with the outdoors while backpacking in the Blue Ridge Mountains. Growing up she always thought she was interested in studying medicine, but

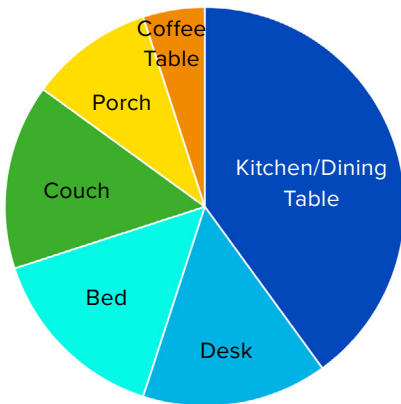
in college quickly found herself more drawn to her ecology classes. While pursuing her degree in Environmental Science from Santa Clara University in the Bay Area, Anne was highly involved in her university's outdoor adventure program, spending a great amount of time exploring the Sierra Nevada. From her past year experience as a research assistant, Anne has an interest in environmental justice issues, hydrology, and drought management practices, and published two academic papers on related research projects. Anne also enjoys kayaking, trail running, doing crossword puzzles, and adding to her funky sock collection.

TERC TEAM UPDATES

TERC FROM HOME

March and April saw TERC’s staff working from their homes across California, Nevada, and even as far as Chile! We’ve all had to adapt how we get things done, and here we’re showcasing how we don’t just work from home—we TERC from home!

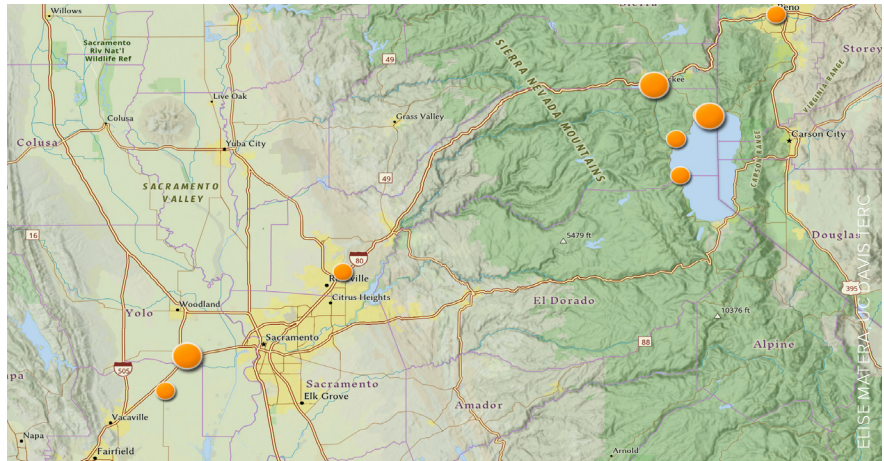
Where To Find Us



We’ve found new workplace habitats, some easier on the back than others.

We’re Excited For

- Analyzing water quality samples
- Installing the microplastics exhibit
- Anything that gets me in the water!
- Garden education programs
- Connecting with my co-workers and local community
- Leading field trips
- Getting on the boat and diving!
- Anything that isn’t homeschooling
- Continuing sediment core extractions for Clear Lake
- Periphyton studies
- Putting on events for the public



From Dixon, CA to Lake Tahoe to Reno, NV to Valdivia, Chile, TERC’s commitment to the environmental knows no bounds!

How We Stay Sane

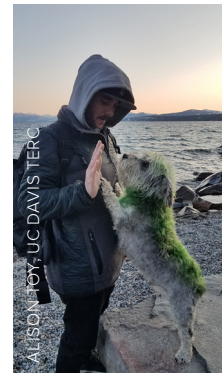
- Getting groceries for neighbors
- Staying in touch with family
- Cooking and gardening
- Disc golf and LEGOs
- Going fishing and hiking in remote areas to social distance
- Seeing the sun
- All of the reading time!
- Making pizza with my daughter
- Caring for baby number two!
- Garage clean out and home projects
- Walking the dog
- Going for trail runs!
- My daughter is painting designs on old pairs of jeans



Researcher Brandon Berry created this underwater Lego scene when he couldn’t get out on the lake.

Meet our New “Coworkers”

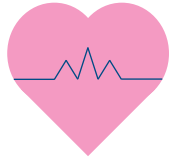
- My dog who sleeps in my office
- Traded out the goldfish at the hatchery for a clownfish at home
- My fiancé, although he’s not a coworker more like an interrupter
- One who sleeps on a job and barks at delivery trucks (dog), one who snacks non-stop (daughter), and one who leaves dirty dishes in the sink (partner)
- My carved wooden meerkat “Meery” is essential to my work function
- My husband, two-year-old daughter, and a brand new baby!



Nick and Pepper, professional interrupters.

UC DAVIS TERC BY THE NUMBERS

6 DECADES OF MONITORING LAKE HEALTH



OVER ONE-HUNDRED FIFTY



GRADUATE STUDENTS

OVER

600

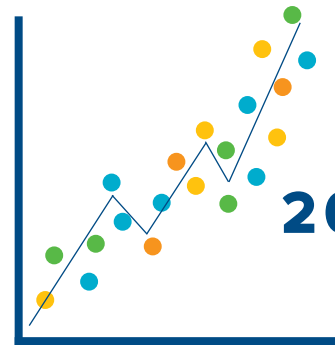


SCIENTIFIC PUBLICATIONS

84



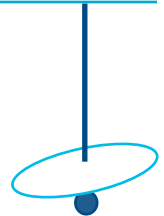
MONITORED FOREST PLOTS ARE HELPING US UNDERSTAND FOREST RESILIENCE



ADVANCED TECHNOLOGIES COLLECTING **20 MILLION** DATA POINTS ANNUALLY

THOUSANDS

OF CLARITY AND WATER QUALITY SAMPLES MEASURED

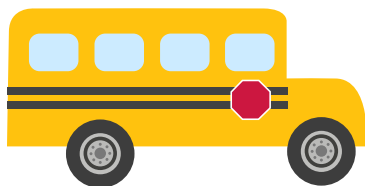


EIGHTY

SCHOOL FIELD TRIPS AND OVER

FIVE THOUSAND

STUDENTS REACHED ANNUALLY



158,000



PEOPLE REACHED BY EDUCATIONAL PROGRAMS

2 SCIENCE CENTERS AROUND



Tahoe City, CA



Incline Village, NV

LAKE TAHOE

GIVING TO THE TAHOE ENVIRONMENTAL RESEARCH CENTER

Private Support is critical to continuing the Tahoe Environmental Research Center's legacy of groundbreaking work in restoring and sustaining Lake Tahoe. Gifts at every level support research, education and outreach, and give the flexibility to address emerging needs and opportunities. Every gift makes a difference and there are many ways to give. Thank you!

- o **YES**, I wish to support the Tahoe Environmental Research Center with the gift amount shown below.
- o Please contact me about how I can make a deferred or estate gift to UC Davis.
- o I wish this gift to remain anonymous.

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Science Sustainer

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- 2) Fill out the information below and mail with a check payable to UC Regents

Enclosed is my tax-deductible contribution.

Please make checks payable to UC Regents.

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Spouse/Partner: _____

Address: _____

City, State, Zip: _____

Phone: _____

Gift Amount: _____

MAKE A GIFT TAX-FREE WITH AN IRA

- Do you want to support TERC's Science at Lake Tahoe?
- Are you over 70 ½?
- Do you need all of your required minimum distribution from retirement assets?

» **Consider a gift via an IRA.** Visit <http://plannedgiving.ucdavis.edu/ira-charitable-rollover> for more details.

UPCOMING EVENTS

July 13–August 5: Picture-Perfect Science as part of the Tahoe Truckee Summer Reading Program

July 20–23, 27–30: IVGID Summer Camps

July 23: "A Business Solution to the Tahoe Mysis Problem" Virtual Lecture with Geoff Schladow, Harold Schmitz, and Yuan Cheng

July 30: "2020 State of the Lake" Virtual Lecture featuring Geoff Schladow

For more information visit: <https://tahoe.ucdavis.edu/events/>