



# Salmon, Steelhead, and the Drought

by Dick Laursen

Even the most casual observer realizes that salmon must have water to survive. What is not so well known is that the water must have certain qualities to support salmon. Water can be wet, potable, and wonderful for many activities, but without the certain other qualities necessary for salmon, it does not ensure salmon will survive.

What are some of these necessary qualities? Ichthyologists have studied this question for years and found the critical needs vary among different species of fish. The major needs for salmon and steelhead include cool water temperature of 60 degrees or less, dissolved oxygen content of at least five milligrams per liter (5 ppm) or more, sufficient water volume, clarity, food available for newborn salmon as they grow, and few enough predators to allow salmon to grow and escape to the sea.

The Lower American River is a 'managed' river and is controlled by the operation of the Folsom Dam complex. The water qualities necessary for salmon and steelhead are available, but water temperature has been borderline at times, and temperature has always been a major factor in salmon and steelhead survival. Salmon are in big trouble any time water temperatures rise to 60 degrees, and higher temperatures are lethal in most cases. Eggs are particularly susceptible and must have well-oxygenated cool water of less than 60 degrees, and preferably 50 to 55 degrees to survive the approximately 50-day incubation period.

In drought times, the snowpack is light and melts earlier. This results in a lower volume of water, and streams are quicker to warm up, especially in the hot, late summer. As the temperature warms up in the mountain streams, rivers and reservoirs also warm up, and salmon survival plummets. Gradual global warming also adds to stream warming.

The long-term future, 500 years and beyond, for wild salmon in California and the Northwest is not encouraging. Today's human population of 15 million people along the

coasts of California, Oregon, Washington, and inland Idaho is estimated to grow manyfold by year 2100. Any water left over after human needs are met may be too polluted and useless to salmon. History of salmon distribution since the California gold rush in 1849, only 167 years, shows that as humans moved in, salmon were pushed out. The Los Angeles

see [Salmon](#), page 3

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## December 3 Holiday Sale Offers Gifts for Nature Lovers

by Melanie DuBoce

The holiday season is approaching, and that means it's time for the Effie Yeaw Holiday Sale! The sale is Saturday, December 3, from 9am to 4pm. On this day, the Discovery Shop inventory triples with unique nature gifts, beautiful children's books, science activities for kids, and fun books for adults too! Local guest vendors from a variety of trades join us to help holiday shoppers find the perfect gift for the nature lovers in their life. Already confirmed vendors include painter René Reyes, photographer Thom Parrish, and ceramists Libby Harmor and Julie Clements! Not to mention, shoppers enjoy complimentary gift wrapping and refreshments.

The Holiday Sale is all about shopping local, supporting a good cause, and finding unique gifts for nature lovers! ARNHA members enjoy 20 percent off all Discovery Shop merchandise.

Melanie DuBoce, a naturalist at the Effie Yeaw Nature Center, also manages the Discovery Shop in the Center. She loves showcasing special inventory for nature lovers. ■

# President's Message

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## ARNHA

American River Natural History Association  
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Greetings to everyone. As the new president of ARNHA, I want to say how honored I am to have been elected as your new president. I have some very big shoes to fill. The presidents before me have done an awesome job of keeping ARNHA and the Effie Yeaw Nature Center an important resource for educating children and adults about the importance of nature and the importance of the American River Parkway in our lives. I hope that I can continue this tradition of leadership.

I first visited Effie Yeaw Nature Center one December many years ago when I saw the holiday sale advertised in the Audubon newsletter. I came to the sale and, while there, I took a walk down the main trail. I immediately realized what a special place this is. Coming to the holiday sale and taking a walk into the nature study area became one of my personal holiday traditions. When I retired from 34 years in Special Education, I debated whether to volunteer at Effie Yeaw or at a local state park. I decided on Effie Yeaw and have not looked back. I feel that every hour spent volunteering here is time spent making a difference.

Looking forward, I realize that I have a great deal to learn. Leading a nonprofit that supports a nature center is a whole new world to me, so please be patient. ARNHA and the Effie Yeaw Nature Center are at a turning point. After years of work to keep the center open as separated from Sacramento County administration, the organization is self-sustaining. We are now looking at where we go from here. Do we expand? Do we keep doing what we are currently do so well and not try to grow? How can we remain relevant to both educators and the community? It is my vision that the board and the staff will work closely together to continue to be one of the most important environmental education resources in the Sacramento Region.

Thank you to everyone who is a member. Your membership makes great things happen for children and the community and preserves a little bit of wildness in the midst of the city. Please continue this support and think about upgrading your level of support. Also, bring a friend into the nature center and into ARNHA. Spread the joy.

I look forward to seeing you on the trail or along the river. One of my favorite quotes comes from Henry David Thoreau. "In wildness is the preservation of the world."

Best regards,



Joey Johnson



Photo by Kathy Johnson

ARNHA President Joey Johnson

Your membership makes great things happen for children and the community and preserves a little bit of wildness in the midst of the city.

## Salmon, from page 1

River and other Southern California streams were abundant with salmon and steelhead until Europeans arrived in the 1700s. The last steelhead caught in the Los Angeles River was in 1948, and they are now considered extinct in that river.

For years, fishery biologists have seen this trend and now also see global climate becoming warmer. They unanimously agree there will be no significant recoveries in salmon and steelhead numbers and that they will gradually disappear from the lower 48 states. Dr. Robert Lackey, Professor of Fisheries at Oregon State University, states that as climate continues to warm, "...salmon at the southern edge of their range will be the first to go."

The long-term fate of the Lower American River salmon and steelhead will most likely follow this trend. However, the current runs of salmon and steelhead in the Lower American River could be sustained for many years into the future with the construction of a device to siphon cool water from the

bottom of Folsom Lake. This cool water could maintain the cooler water temperature salmon need. If that need can be met, salmon and steelhead will continue to thrill us with their presence. They will be with us until human needs for water leaves only a trickle for salmon and that trickle warms to a lethal temperature of 60 degrees F. or higher. This situation may be very far in our future, but it definitely is part of our future.

Today, the lower American River is prime spawning ground for salmon and steelhead. Cool water from the bottom of Lake Folsom would be a major accomplishment in maintaining the critical needs for salmon and steelhead for many, many years into the future.

*Dick Laursen, former California Fish and Wildlife and California Parks and Recreation employee, member of the North Coast Coastal Commission, and private businessman, is a member of the ARNHA Board and an avid birder with a life list of 3,089 species. ■*



Photo by James Scott

## Ask a Naturalist

**Q.** Are there always deer in the Nature Study Area (NSA)?

**A.** Naturalist Melanie DuBoce: "The NSA, the 100-acre preserve behind the Effie Yeaw Nature Center, is not fenced in, and all wildlife is free to come and go as it pleases.

"However, because the NSA provides a safe and plentiful habitat, many animals, including deer, choose to make it their home.

"Curious about how many deer inhabit the NSA, volunteers and college interns have been collecting data since 2012.

"Volunteer Smokey Murphy's data, collected from 2013 through Spring 2016, shows some population trends. We see the highest number of deer between October and March as the weather cools, the acorns drop, and the rains transform the NSA into a green haven.

"During this time, numbers average in the high 30s, but as many as 60 deer have been sighted in one morning!

"By following the NSA rules, you help reduce disturbances and maintain a great place to view deer and wildlife all year long." ■

# Parkway Passport to Nature

## Ruby Joins EYNC Family

by JoLynn Jarrett

Our Red-sided Garter Snake was recently a feature in our twitter poll for a naming contest. Votes determined that she would be named “Ruby” for her magnificent coloration. Ruby is mostly red and black with brilliant specks of blue.

Her scientific name is *Thamnophis sirtalis infernalis*, and her species is native to coastal areas. Ruby was found in Marin County where she had been picked up and injured by a Great Blue Heron. The heron dropped the Red-sided Garter Snake and took off, leaving the injured snake on the ground.



Photo by Kari Bauer

Fortunately, volunteer Jay Kumar of Effie Yeaw Nature Center’s animal care witnessed the act. He caught the injured snake and tried to rehabilitate her. However, she cannot survive on her own, so on April 29, 2016, he brought her to Effie Yeaw Nature Center for the educational program. She is now on display in the lobby.

*JoLynn Jarrett is the EYNC Animal Care Supervisor. She grew up on a ranch and has loved animals for as long as she can remember. ■*

This summer, the staff from the Effie Yeaw Nature Center partnered with Nature Connection Mentor Guy Galante to pilot a nature connection program called “Parkway Passport to Nature.”

The program led participants through three 3-hour programs designed for people of all ages and focused on nature games, wildlife tracking, and native plants of Bushy Lake. The final program brought participants to the Effie Yeaw Nature Center for a delicious brunch and a guided tour of the preserve to show them what is possible to create ‘in their own backyards’.

Those who participated in classes offered in the Cal Expo and Woodlake area and came to the brunch received a County Parks parking pass with the idea that they would carry their newfound knowledge into the Parkway in the months and years ahead. Participants received an actual passport that got stamped after each class.

At program’s end, one of the participants reported, “Guy Galante and the Effie Yeaw staff provided a wonderful outdoor experience for my son and me over the last couple months. This pilot program was a huge success; I didn’t know Woodlake area even existed prior

to this program! My 7-year-old son was so energized by this program; on each morning of the program, he was at my bedside reminding me we had to get ready for the nature walk. The County needs to invest more in these types of programs for the next generation of naturalists.”

In all, 18 families earned Parkway passes through the program, funded by Sacramento County Parks as a one-time opportunity. Both staff and participants said they hope the program is repeated next summer.

One participant wrote, “I took my 6-year-old daughter to two of the programs, and we really enjoyed them. We liked seeing Bushy Lake and the restoration that is going on there. The staff was wonderful and very knowledgeable. I think the program is great and that by continuing it year after year, more people will have knowledge of the area and possibly how they can help restore it. I would definitely participate in this program with my daughter next year!”

Stay tuned to [SacNatureCenter.org](http://SacNatureCenter.org) as the program gains traction in the next few months. When it does, be sure and sign up and take a trip with us. ■

## Geese at Sunrise, American River, Sacramento, CA

Shot information: 90mm, F14, 1/80s • Lewis Kemper

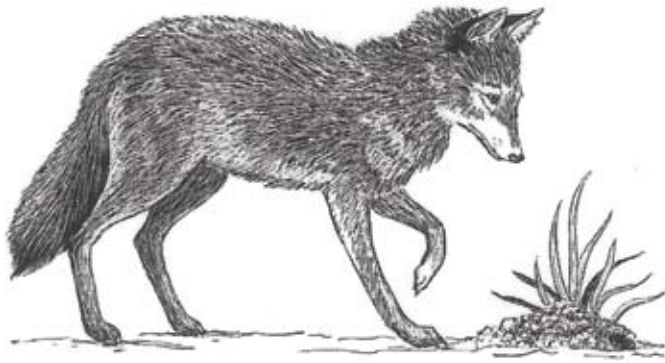


# Wily one

The following is an excerpt from "An American River Journal," published by ARNHA. It features illustrations by the late Jo Glasson Smith, ARNHA co-founder, and nature essays by Peter J. Hayes, retired newspaper editor and ARNHA associate board member. It is available for \$9.75 at the Effie Yeaw Nature Center's Discovery Shop, ARNHA.org, and selected stores.

A movement among nearby trees catches the eye, but it fades out of sight. Now it reappears, a good-sized dog, perhaps a small German shepherd, loping along on an early morning hunt on the American River Parkway for its breakfast.

But viewed through binoculars, it becomes obvious this is no dog, although a near relative. With its bushy tail, sharply-pointed features and shaggy coat, it can't be anything but a coyote, a California native that could use a p.r. person as much as anyone.



Bumper stickers that proclaim, "Eat lamb, 50,000 coyotes can't be wrong," remind us of sheepmen's bitter complaint that coyotes dispose of three percent of their annual lamb production.

Back in the late 19th century, the state of California offered a \$5 bounty on coyotes, but had to suspend it when over-enterprising trappers threatened to deplete the treasury.

Today sheepmen try to hold down the *Canis latrans* population through restricted use of poison. And licensed trappers find a ready market for the long-furred coyote coats that are used to make parkas.

But the coyote seems to survive, calling on its legendary wiliness to exist close to man, offering its mournful nightly serenade. The fact that it produces litters of up to 19 pups helps, too.

Actually, not everybody regards the coyote as a mangy so-and-so. Some farmers and ranchers say it does good work by dieting on rabbits, ground squirrels and other grass-eating creatures. Thus does the predator-prey relationship help maintain the balance of nature.

# The Turn of a River Rock

by James L. Cooper

A ribbon of rippled silk runs the river's length where water touches shore. Hypnotic wavelets caress your willing feet like heartbeats. You don't think to leave until deeper water calls.

You've heard of large rocks imprisoned in clay, so you dive and turn a rock, unprepared for life that's there, or the certainty of death. Tiny snails hold fast the underside; some

are crushed by the turning. Crawdads scurry, unless an otter visited first; then a hundred parts of death scatter in a silent cloud. The startle makes you cling to the rock.

You can't return it now. The crater begins to fill with silt. The current is relentless. How did you think it otherwise? Release, and you'll drift over roots brought down

in storms, over undulating grass, and clay banks too slippery to stand. Mud is deeper around the bend. Come November, come weary salmon. All of this was here before places had names. Whatever you've come to fear, it did not stop your birth. Turn, in a second fetal roll for shore. Cormorants, black and urgent, fly low upstream at dusk.

A turtle slides off a log. Ducks settle in reeds. The quickening heart is yours. Geese, by hundreds, migrate in the night. A cottonwood leans over the river.

*"The Turn of a River Rock" was first published in the journal Leveler. James Cooper, a Carmichael psychologist and author, based the work on over thirty years of swimming in the American River, finding new wonders every time.*



Photo by James Scott

# An Upbeat 40th Anniversary

by Peter J. Hayes  
photos by Kari Bauer

The critical importance of teamwork and the spirit of legendary environmental steward Effie Yeaw, were themes of the annual meeting of the American River Natural History Association (ARNHA) on September 14. The meeting celebrated the 40th Anniversary of the founding of the Effie Yeaw Nature Center, site of the meeting.

As a flock of wild turkeys foraged nearby, ARNHA President Liz Williamson welcomed members and friends. Citing the extraordinary collaboration of staff, members, volunteers, donors, and a supportive community, Liz reported that more than 20,000 children and adults took part in formal programs at Effie Yeaw Nature Center in 2015-16.

“And we welcomed more than 40,000 visitors to the nature center, the largest number since ARNHA took over operation and funding of the center from the county in July, 2010,” she said.

Several migratory Sandhill Cranes, their long legs trailing behind, performed a fly-by over the meeting in the EYNC nature study area as Liz thanked Sacramento Audubon Society guides for the Bird and Breakfast fundraiser and a monthly family bird walk; Carmichael Rotary, which installed new directional signs in the nature study area; Carmichael Kiwanis, for providing a pancake breakfast for the Bird and Breakfast weekend; the Sacramento Conservation Corps for battling invasive weeds and fire fuel; and Sacramento County Parks for replacing damaged interpretive signs in the parkway.

“Thanks to an extremely generous donation in 2014,” Liz said, “we began 2015-16 with substantial operating reserves that gave us a very sound financial basis for the year and allows us to expand our educational operations and consider some physical improvements to the center.”

Next, Liz introduced Nancy Oprsal, retired school teacher and longtime EYNC docent who was present at the dedication ceremony for the Effie Yeaw Nature Center in 1976, six years after the beloved Yeaw died.

Nancy recalled how when Effie Yeaw climbed into a car full of people, “the whole car radiated with her bright, warm glow.”

“She was rather quiet, but firm about her ideas to improve our community and the world,” Nancy said. “She got all of us to plant Valley Oak acorns and write environmental letters to our government representatives.”

And she noticed that land along the American River was being developed in a way that was preventing the public from reaching and enjoying the river. As a founder of the key Save the American River Association, she and others asked County Supervisors to set aside public land, and the American River Parkway was created in 1962. She also helped survey the area where the Effie Yeaw Nature Center was established and thrives today, Nancy said.

Liz introduced Sacramento County Supervisor Susan Peters, who brought two resolutions from the Board of Supervisors. One thanked ARNHA, all sponsors, volunteers, and patrons of the Effie Yeaw Nature Center and joined with them in celebrating the 40th anniversary of the center.

The second resolution saluted Liz Williamson on her two years as ARNHA president. Under her leadership, the number of nature education programs increased by 10 percent, it said, adding that ARNHA and the Effie Yeaw Nature Center have become even more secure.

“Liz Williamson, especially with a raptor on her arm, serves as an ambassador to the community, bringing the message of the

Support Nature Programs at EYNC -- Join ARNHA at [arnha.org](http://arnha.org).



beauty, strength, and joy of nature,” the resolution said.

Paul Tebbel, ARNHA and EYNC Executive Director, reflected the upbeat theme of the meeting when he declared that ARNHA now has the financial stability to evaluate its programs more closely and to modify the design of the main Nature Center Building to better serve EYNC programs.

He heaped praise on his EYNC staff, saying he has visited many nature centers, often as a consultant, and concluded that EYNC works as well or better than most.

He observed that “the right people sure come along at the right time,” and, asked later who he was referring to, said he meant ARNHA Presidents David Wade, Diana Parker, Liz Williamson, “and now the newly-elected successor to Liz, Joey Johnson. Each one has moved us forward via their strengths and experience,” he said.

The Nominating Committee offered the following for two-year terms on the ARNHA Board of Directors: Jackie DeLu, Sandie Dunn, Joey Johnson, Michael Kwong, Hunter Merritt, Don Mongeau, Bill Spaller, Larry Washington, and Kate Williams. The slate was approved unanimously.

The following officers were elected: Joey Johnson, President; Jackie DeLu, 1st Vice President; Peggy Kennedy, 2nd Vice President; Don Mongeau, 3rd Vice President; Sandie Dunn, 4th Vice President; Claudia Hulbe, Secretary; Bill Spaller, Treasurer, and Liz Williamson, Immediate Past President.

Questions from the audience brought comments from Assemblyman Ken Cooley, D-Rancho Cordova, on the impulse of environmental stewardship. He said the same impulse that led to Californians and Congress and President Lincoln to establish Yosemite National Park led to Effie Yeaw and Sacramentans to establish the Parkway and the Effie Yeaw Nature Center.

Former EYNC director Marilee Flannery asked if the replica Nisenan Maidu Village in the nature study area would be changed. Paul Tebbel responded that the village would remain, although the entrance to EYNC may be modified.

As the meeting closed, a family of coyotes began to sing as the waxing moon appeared on the horizon, a suitable ending for a gathering of nature lovers. ■

## Annual Wildlife Count Along the Lower American River Parkway

by *Rachael Cowan*

After the annual fall influx of migrant birds pass through our area, it is the time for our winter birds to shine. The House Wrens, Golden-crowned and White-crowned Sparrows are already singing the songs of winter, which means that the time for the Annual Wildlife Count, aka “Critter Count,” is almost upon us.

2016 marks the 32nd year of this coordinated event, which covers the Lower American River from Sailor Bar to Discovery Park. Along this stretch, 10 or more teams of volunteers set out to count every observation of each species of bird, mammal, and reptile. The information collected through this effort helps us track the emergence or the loss of a species plus it provides critical information about population changes, like the drop in Yellow-billed Magpie numbers due to West Nile Virus.

Jack Hiehle started and organized the Wildlife Count for over 20 years. In addition, he led tours, habitat maintenance, and tree planting and caging. Most recently, Dr. William Avery, Professor of Ornithology at California State University, Sacramento, has been the Count organizer and has updated the data collection strategy to make the data useful for wildlife biologists worldwide.

This year the Annual Wildlife count is again being organized by ARNHA, and we are excited to engage over 60 volunteers in this endeavor to support citizen science on Saturday, December 3.

*Rachael Cowan is an Associate Naturalist at Effie Yeaw Nature Center and a certified UC Naturalist. From Grass Valley, she has a lifelong passion for the natural world and science education. ■*

## Meet Joey Johnson, New ARNHA President

With an extensive background in management in the field of education, along with leadership experience in another nonprofit, Joey Johnson was elected president of ARNHA at its annual meeting September 14, succeeding Liz Williamson.

Joey holds a BA in Psychology from UCLA, a Master's in Special Education at Cal State University in Los Angeles, and a Master's in School Management and Administration from Pepperdine University.

Asked to describe her objectives as ARNHA president, she said they include “the planning and decision-making around improving the 40-year-old facilities of the Effie Yeaw Nature Center, and improving the experience of our visitors by modifying the grounds around the nature center.”

And as always, she said, there is the objective of raising funds to “continue providing high quality programs and experiences for the people of the Sacramento area.



## Fall & Winter Nature Camps

It's time to sign up for Effie Yeaw Nature Center's popular Fall and Winter Nature Camps! This year camps will be held Thanksgiving week, Monday November 21, and Tuesday, November 22, and over the winter holidays, Tuesday, Wednesday, and Thursday, December 27-29 and January 3-5.

The camps will cover topics such as Predators in the Preserve, Happy Hikers, Chinook Shenanigans, and Early Birds - a chance to get out early and learn to identify the birds in the preserve.

Camps are designed for ages 6 to 11, grouped by age, with special "Camp 5" sessions for 5-year-olds. New this year is Nature's Notebook for ages 12-15, offering older nature enthusiasts the opportunity go beyond the basics and develop a deeper connection with nature.

All camps will be held from 10 a.m. to 1 p.m., with the exception of the Early Bird camp, which will be from 9 a.m. to 12 noon. Check out the camps and register online at [SacNatureCenter.net](http://SacNatureCenter.net), or stop by EYNC to pick up a brochure. Register soon - camps fill quickly! ■



Photos by Kari Bauer

**Easy to Give.** Our local grocery store chain, Raley's, has a "give back" program. Raley's will donate a portion of a customer's purchases to the charity or non-profit of his or her choice.

If you would like to support ARNHA and the Effie Yeaw Nature Center through Raley's, enroll in their Extra Credit program. The steps are below:

1. Visit [www.raleys.com/extracredit](http://www.raleys.com/extracredit)
2. Click on the green "Start Here" button
3. Search for American River Natural History Association by zip code - 95609
4. Click ARNHA's name, then choose what percentage of each donation you wish us to receive (must total 100%)
5. Then click Save

Thank you for your support and generosity! ■





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- Serena Yee

**Thank  
you!**

# NatureFest 2016 Brings Nature & Community Together

*story and photos by Kari Bauer*

There were “Ooh’s” as the colorful Serval, an African wild cat, leaped high in the air chasing feathers, “Aaw’s” when the adorable Fennec Fox, another African wild animal, came onto the Main Stage, and “Wow’s!” as the six-foot American Alligator (“My favorite crocodilian,” exclaimed Santiago Vargas) showed his teeth on the main stage. In addition to the exotic animals, local Nature Center ambassadors Echo, the Great Horned Owl; Rocky, the American Kestrel; and Sophia, the Saw-Whet Owl were all out to greet the public.

So it was at the NatureFest, an annual event, held October 9 this year, that brings people to nature and nature to people.

Live animal shows, exhibits, kids’ activities, nature hikes and more were featured.

The Burnett Family was one of many enjoying themselves. “We love the Nature Center and come here frequently. Aleesi (age three) really loves nature, and we want to nourish that,” says Rachel Burnett. “I love the alligator,” interjects Aleesi enthusiastically. John Burnett adds, “I like these events because it gives people a chance to learn about things they enjoy.”

First-time visitor Leslie Harbaugh said, “I like walking down to the river.” Daughter Stella, age five, adds, “I enjoyed the hike and seeing the birds up close.”

Timmy Yoseph, a youthful Sierra Club participant, said, “I love seeing the inside of how nature really is. Especially for teenagers - we don’t usually see nature.”

And see nature they did! In addition to viewing live animals, there were opportunities to feel pelts and bones; view tiny creatures under a microscope; watch a bat being fed; tie flies for fishing and even touch a live rattlesnake.

**The American River Natural History Association wishes to thank our sponsors:**

## **Title**

Fred and Betsy Weiland

## **Platinum**

California American Water  
Inside Publications

## **Gold**

Bank of Sacramento  
Sacramento County Regional Parks  
SMUD  
TV Log  
Valley Community Newspapers

## **Silver**

California Native Plant Society  
Carmichael Recreation and Park District  
Carmichael Water District  
Sacramento Audubon Society  
Sacramento Area Creeks Council  
Sierra Health Foundation



Our Native American Community was represented with Karuk Tribe and Maidu Tribe Cultural Demonstrations. Raymond Rankin, age 10, helped his Aunt Diane at the Maidu table. “My favorite part is the (tule decoy) ducks.” he exclaims. “When they dry out, they can flow; and they just float away.” Watching Diane Almendarez with the tules, Peter Vigil, age 13, mentioned he liked that “She’s making something from her tribe.” You can learn more about Maidu culture at the “Bountiful harvest” exhibit inside the Effie Yeaw Nature Center.

As always, generous volunteers, coordinated by Jamie Washington, gave time for days ahead of and on the day of NatureFest to help make the effort a success.

*Kari’s volunteer efforts at the Effie Yeaw Nature Center help to nourish her deep connection to the natural world. ■*



Photos by Kari Bauer



## NatureFest Exhibitors and Activities:

- EYNC Maidu Cultural Items
- Beaks & Jaws Biofacts
- California Native Plant Society & SARA
- Rattlesnakes!
- Friends of the Stone Lakes NWR
- California Watchable Wildlife
- Karuk Tribe Cultural Demonstrations
- Maidu Tribe Cultural Demonstrations
- Sacramento Area Creeks Council
- Mira Loma High School
- Arcade Creek Project
- Sacramento Splash
- SMUD
- Save the Frogs
- Sacramento Audubon Society
- Cosumnes River Preserve
- Carmichael Water District
- Mad Science
- Effie Yeaw Snack Shack
- Carmichael Rotary Food Booth
- California Fly Fishers Unlimited
- Sac-Sierra Trout Unlimited
- Sacramento Valley Conservancy
- NorCal Bats
- California Dept. of Fish & Wildlife
- Sacramento River Parkway Coalition
- Folsom Zoo
- Golden Valley Charter School
- EYNC Logo Contest & Wildlife masks
- Guided trail walks and self-guiding maps
- Lyon Ranch— Exotic Animals
- Bracelet making activity





## ARNHA Calendar of Events

- **Kids Christmas Bird Count**  
Register now at [SacNatureCenter.org](http://SacNatureCenter.org)  
**Saturday, January 7, 9 a.m. to 12:30 p.m.**  
Effie Yeaw Nature Center  
For children ages 6 to 10 with accompanying adults  
**Sunday, January 8, from 9 a.m. to 12:30 p.m.**  
Cosumnes River Preserve  
For children ages 10 to 16 with accompanying adults
- **Fall & Winter Nature Camps**  
Effie Yeaw Nature Center (see page 8)
- **Holiday Sale at Discovery Shop**  
Saturday, December 3, 9 am to 4 pm  
Effie Yeaw Nature Center (see insert)
- **ARNHA Wildlife Count**  
Saturday, December 3, 7 a.m. to 3 p.m.  
Effie Yeaw Nature Center (see story page 7)

See [SacNatureCenter.net](http://SacNatureCenter.net) for more information.

## New Members July-September 2016

- |                                |                           |                      |
|--------------------------------|---------------------------|----------------------|
| • Marian Ashe                  | • Liz Grewal              | • Tayler Marco       |
| • Mark Barman                  | • John Griffith           | • Tim & Janie McGinn |
| • Emily Berente                | • Ron Guisti              | • Colette Michaelson |
| • Bob & Sandi Billings         | • Lisa Guzman             | • Janet Mortensen    |
| • Bronda Bombola-McCarter      | • Jean Hellmuth           | • Gina Murphey       |
| • Augusta Brothers             | • Bruno Hildebrandt       | • Karen Owen         |
| • Rose Burgis                  | • Sybil & Fredi Jakob     | • Serena Raines      |
| • Johnnie Carlson              | • Alice Jobe              | • Gabrielle Rasi     |
| • Li-Hon Chang                 | • Christina Kautz         | • Kathy Schrupf      |
| • Vanessa Cleveland            | • Matthew Kelley          | • Jill Short         |
| • Shelia Compton               | • Jennifer & Kris Kelley  | • Carol Silvernale   |
| • Jim & Loretta Connor         | • Kristina Khokhobashuili | • Debra Steiner      |
| • Carol Davydova               | • S. Kim                  | • Rick Sterner       |
| • Cecilia Delury & Vera Jacobs | • Jacqueline Krall        | • Rosemary Tanfani   |
| • Jose Esparza                 | • Bethany Leach           | • Parmys Weinberg    |
| • Robin Fender                 | • Lorraine Lennon         | • Jane Wheaton       |
| • Steve Fiegel                 | • Michael & Delores Lewis | • Dawn Winters       |
| • Kathleen Frankel             | • David Lintz             | • Steve Wright       |
| • Marc Fugler                  | • Jill Lute-Faust         |                      |

## Volunteers honored at the annual meeting of the American River Natural History Association on September 14

Sacramento Audubon Society, represented by **Maureen Geiger** and **Cathie LaZier**.

**Max McGregor**, Animal Care

**Denise Garland**, Receptionist, Weekend naturalist, Animal Care, Special Events.

**Mike Cardwell**, Rattlesnake Scientist, Special Events

**Beverly Lewis**, Receptionist, Special Events

**Sue Davis**, Docent, Nature Education

**Molly Keller**, ARNHA Outreach, Artist

**Liz Williamson**, ARNHA President, Animal Care Lead, Special Events Committee, Web Master.

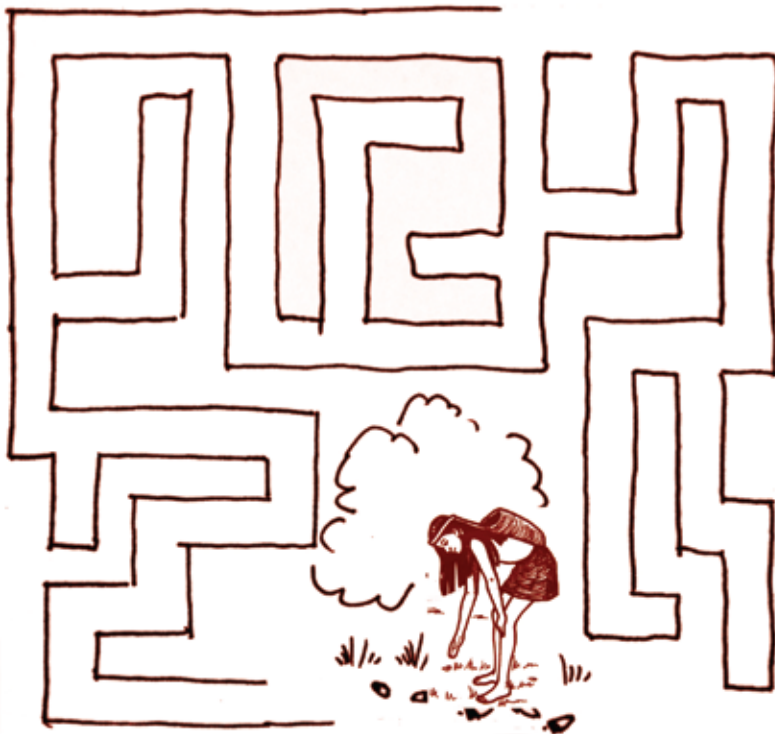
## JUST FOR FUN



My name is Ooti. I have lived nine summers. My people are the Nisenan, who live along the Notoman or East Water [now known as the American River]. Now that it is fall, the acorns are ready to harvest from the oak trees near our village. Acorns are our most important food, so everyone in the village is helping to gather them.\*



Help me find the Oak Tree



### Make an Acorn Top:

- Remove cap from acorn
  - Insert push pin into the top (non-pointy end)
  - or have an adult drill a hole in the top with a 1/8" bit. Break a toothpick in half and glue it in the hole.
- Color toothpick with markers.  
Spin the acorn!

\*Text and graphics based on the book *Ooti, A Child of the Nisenan*, published by The American River Natural History Association, and available for purchase in the EYNC Discovery Shop.



# HOLIDAY Sale

come in for HOT Cider and HOT deals!



Handmade goods by local artisans and expanded merchandise selection in Discovery Shop!

Art • Pottery • Toys • Garden Décor  
Explorer Kits • Books • Jewelry

**SATURDAY, DEC. 3 9:00-4:00**

**EFFIE YEAW NATURE CENTER**

2850 San Lorenzo Way, Carmichael, CA  
SacNatureCenter.net 916-489-4918



Members save  
**20%**  
in the  
Discovery Shop!