

ECO-LOGIC

Newsletter of the
Tri-City Ecology Center

February 2017

Volume 47 Number 2

California to Move Forward on Climate Change and We Won't Be Alone

By Senator Bob Wieckowski

Late last month, I participated on a panel discussion regarding climate change at VerdeXchange 2017, a gathering of state, local and federal policymakers, entrepreneurs, clean energy officials, academics and nonprofits working to expand a clean energy economy. The topic: "Is California Merely an Outlier on Climate Change?"

The inclusion on the panel of David Heurtel, the Quebec minister of sustainable development, environment, & the fight against climate change, answers that question. Quebec is linked with California's cap & trade system, and an additional 165 subnational governmental agencies, representing a billion people, have signed onto the Under Two M.O.U., championed by Governor Brown to control greenhouse gases. In December 2015, I was present as a representative of the California State Senate when 194 countries signed the United Nations climate change agreement in Paris.

California is clearly a global leader in fighting climate change and we are not alone. With or without federal assistance, we will continue our innovative policies to mitigate greenhouse gases and build resilience to climate change.

In an ideal world, we could depend on our federal government to exercise American leadership to fight climate change on a global scale. But we don't live in an ideal world. The current White House thinks if you delete climate change on a website the issue disappears. It wants to create an alternative world where facts and science take a backseat to covering up the facts and denying the science. We know the threat is real and the threat remains.

As chairman of the Senate Environmental Quality Committee, I will continue California's resolve to follow through on our climate goals. We will continue on offense to enforce our laws, and with our Congressional delegation, we will pursue our fair share of funding from Washington. On defense, we will protect California's environmental values with the help of our new Attorney General Xavier Becerra, and former federal Attorney General Eric Holder. Some changes take time, so whenever possible we will try to run out the clock on horrible policy ideas that might be coming our way.

California has shown that passing progressive policies to combat climate change has created a dynamic clean energy economy that is building jobs, improving our environment and better protecting the health of our residents. Those of us in government have a responsibility to build climate resiliency and mitigation in California. Fortunately, many other representatives around the world agree.

Senator Wieckowski represents the 10th District, which includes southern Alameda County and parts of Santa Clara County.

Good Going

City of Fremont Green Infrastructure Projects

By Rachel DiFranco, Fremont Sustainability Coordinator

Over the past year, the City of Fremont has busy approving and implementing climate action initiatives to reduce the City's carbon footprint, conserve valuable resources, and reduce operational costs. New and continuing sustainability projects include:

- The installation of over 15,000 LED streetlights and park lights, high-efficiency facility lighting and plumbing fixtures, weather-based irrigation controls for City parks, and energy conserving pumps at the Aqua Adventure Water Park. At project completion, the City will save 4.7 million kWh of electricity, 8.7 million gallons of water, and 12,000 therms of gas annually, and will reduce our greenhouse gas footprint by 976 tons of carbon.
- The installation of 8 dual-port, Level II electric vehicle charging stations at the City's Development Services Center, at the Central Park Boathouse, and along Capitol Avenue between State Street and Fremont Boulevard to encourage electric vehicle adoption. An additional 9 electric vehicle charging stations along Capitol Avenue between Paseo Padre and State Street will be added this spring.
- A 340 kW solar photovoltaic carport structure at the City's Maintenance Center this spring to offset the facility's entire electricity usage, reducing GHG emissions by over 100 tons of CO₂. The system will be pre-wired for future EV charging stations for City fleet vehicles. Together with the solar already installed at the Aqua Adventure Park (226 kW), Fremont Police Complex (872 kW), and Irvington Community Center (83 kW), this will amount to more than 1.5 megawatts of power, the equivalent of 422 Fremont homes' annual electricity use.
- Three solar photovoltaic systems totaling 117 kW, each paired with energy storage units, at Fremont Fire Stations No. 6, No. 7, and No. 11 this coming spring. These projects, part of a "microgrid" energy demonstration for the CA Energy Commission, will both reduce our greenhouse gas emissions by 35 tons of CO₂ as well as increase the resilience of those facilities by providing them with stored energy power in the event of a utility outage.
- The addition of buffered bike lanes along City arterials and pedestrian countdown signals at all intersections, as well as green-stripped bike lanes in the City Center and a protected bike lane along Grimmer Boulevard to create a bicycle and pedestrian friendly community, aligning with the City's Bicycle and Pedestrian Master Plan updates and the Vision Zero Action Plan.
- The rollout of a carshare pilot with Zipcar outside of the Fremont BART Station and the Centerville Train Depot, offering alternatives to individual automobile ownership and enhancing public transportation options.

To learn more, visit Fremont.gov/CityUpgrades and Fremont.gov/VisionZero2020.

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Closer Look

By Donna Olsen

TCEC Makes Annual Donation to County Libraries



Over the past 45 years, the ecology center has donated approximately \$50,000 worth of books, videos and DVDs to the Fremont, Newark and Union City county libraries. This is our longest-running annual donation program. We hope to continue it for many more years. This year, there are 21 titles: 13 books in the children/juvenile category, 6 for adults and two DVDs ...for a total of 91 books/DVDs. If this donation seems a little larger than usual, it is. The ecology center had a good fundraising year in 2016!

This year's book donation for adults included three beautiful books from the Xerces Society. As you know, there is great concern about the future of bees and butterflies. For that reason, we chose as appropriate donations: *Attracting Native Pollinators*, *Gardening for Butterflies* and *100 Plants to Feed the Bees*. In addition, we included the recent publications *The Hour of Land* by best-selling author Terry Tempest Williams and *Bikenomics* by Elly Blue.

The DVD *Into the Gyre* deals with plastic and its impacts on the oceans worldwide. It's an eye-opener. The second DVD (one copy to Fremont Main) *Seed* is hot off the press. This beautifully done documentary discusses the worldwide disappearance of seed varieties and its implications.

This year's choices of children/juvenile books include books for the very young and teenagers alike. In 2016, the National Wildlife Federation, known for Ranger Rick Magazines, came out with its first books. We bought them all! The National Geographic also published two books last year, focusing on national parks. Additionally, we donated *The Camping Trip That Changed America* talks about John Muir and Theodore Roosevelt in Yosemite and *The Water Princess*, a poignant book about the scarcity of water in Africa.

TCEC Members...Do you have suggestions about other environmentally- related books that our group can donate to the libraries? We welcome your requests or suggestions. Go to tcecdonna@juno.com.

New Presidio Visitor Center Opens in Century-Old Guardhouse

On February 23, the doors to the William Penn Mott, Jr. Presidio Visitor Center will officially open to the public. The 4,000-square-foot facility at the north end of the Main Post will serve as a new welcoming and orientation gateway, where visitors are introduced to the vast natural, cultural, and historical resources of the Presidio—and plan their adventures across the park. The visitor center, located at 210 Lincoln Boulevard (cross-street Anza) will be open from 10 am to 5 pm, every day of the week.

Source: Golden Gate National Parks Conservancy



FIXIT CLINIC

We're holding a Fixit Clinic Saturday, April 1: Can you volunteer?

Calling all handywomen and handymen and handy kids, wannabe and junior handypersons, tinkerers and sewers! Help your neighbors troubleshoot and fix their broken stuff: volunteer to be a Fixit Coach at our April 1 Fixit Clinic at the Fremont Library. Contact Lori Marra at lmarra@fremont.gov.

What is Fixit Clinic? Fixit Clinic is all-ages do-it-together hands-on STEM-oriented fix-n-learn community-based discovery, disassembly, and repair; people bring their broken, non-functioning things -- electronics, appliances, computers, toys, bicycles, sewing machines, clothes, etc.-- for assessment, disassembly, and -- hopefully -- repair.

For more information go to www.fixitclinic.org.

Sponsored by STOPWASTE

Source: Ann Morrison

U.S. Wind Jobs Continue Booming...Top 100,000

The Department of Energy released a new report on January 19 highlighting the booming nature of renewable energy jobs—wind power positions now top 100,000. More Americans now work in wind than in nuclear, coal, natural gas or hydroelectric power plants. These jobs span all 50 states, and tens of thousands are at the more than 500 U.S. factories building wind turbines and parts for them. Importantly, America's veterans play a big role. They fill roles in the U.S. wind industry at a rate 50 percent higher than the national average.

Beyond manufacturing, the service and maintenance jobs the growing industry creates provide rural Americans with well-paying opportunities. Last year, the U.S. Bureau of Labor Statistics found wind turbine technician is the country's fastest growing job, expected to increase by 108 percent over the next decade.

Researchers predict strong job growth will continue in the years ahead. Wind remains on track to provide 20 percent of America's electricity by 2030. At that level, it could create 380,000 jobs. Source: American Wind Energy Assn.

An Historic Movement Is Growing

An historic movement is growing to confront Donald Trump's unprecedented attacks on people and the planet. The day after the inauguration, millions of people hit the streets in what has been called the largest mobilization in US history. So to continue to show determination, unity and discontent, PCM has planned the following actions.

On April 29th, the People's Climate Mobilization is our chance to rise up against every part of Trump's fossil fuel agenda and show the strength and determination of our opposition. The first 100 days are when Presidents have the most power and legitimacy to pursue their agendas. The People's Climate Mobilization will include rolling actions during those 100 days, leading to a major demonstration on April 29th in Washington DC and around the country.

Sign up for the People's Climate Mobilization and you'll get regular announcements about things you can do as a part of this resistance. Go to 350.org Source: 350.org

February & March Activities at Sulphur Creek Nature Center

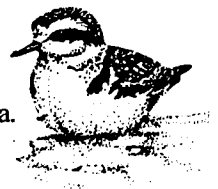
1801 "D" Street | Hayward | 94541

Adult Nature Programs

Join the naturalists at Sulphur Creek Nature Center in a series of programs to explore nature up close. Registration is required, as space is limited. Call 881-6700 for information to register. These programs are designed for adults only.

Bayland Birds... Sat Mar 11, 12:00pm-2:30pm

Discover the "Snowy Plovers" chosen nesting spot while Kites and Peregrine Falcons cruise the skies at The Eden Landing Reserve. We'll walk the newly open trail for views of migratory and year-round Bay birds. Meet our Shoreline and Sulphur Creek naturalists at the Eden Landing Ecological Reserve parking area. Wear walking shoes and bring binoculars for this 3 mile adult nature excursion. #40476 18 yr + \$18/person



Youth Nature Classes

Youth Nature Classes are designed for ages 3-10. Each class will focus on an animal adaptation that is used to help it survive. Students will meet live animals up close and complete a special project or craft based on the featured adaptation. Registration is required, as space is limited. Call (510) 881-6700 for information to register.

Floating Fun..... February 24 (3 to 5 years)

Come see how critters float as we visit the duck, pond turtle and frog. Experiment with us at the creek to find out what sinks and what floats. 40615 3-5 yr F 10:00am-11:30am Feb 24 \$10/child 40618 4-10 yr W 3:30pm-5:00pm Feb 1 \$10/child

Signs of Spring Friday, March 24, 10:00am-11:30am (3-5years) Wed. March 22, 3:30pm-5:00pm (4-10 years)

Come search with us for signs of spring. Visit the opossum, rabbit, and dove, and search for new life sprouting in the park.

#40616 3-5 yr:\$10/child.....#40619 4-10 yr \$10/child

There's News from the LEAF Front.

Teams are forming and ideas will soon become reality. A Workshop Team, headed by Iris Nicholson, has come up with a roster of **workshops** for 2017, pertinent to our Growing Green theme for the year. Iris is asking for help with contacting speakers and signing up attendees at the workshops.

LEAF will soon feature a blog on its website. matter). Glenda Chui is the Blog Editor and is seeking contributors. She is gathering ideas for interviewing people from our community, what to do in the garden and urban ag news. All she needs is a couple of paragraphs for each post. If you're interested in joining either of these teams, please email fremontLEAF@gmail.com.

A reminder to both long-time and new members to stop by first Saturdays, 11a.m. - noon, at the LEAF Center for our monthly **Meet-up**. New members can pick up their T-shirts and get acquainted. See you in the garden!

Source: Mia Mora www.fremontLEAF.org

Planters Available at LEAF Center

Fremont's only public community garden!



These state-of-the-art redwood planters have drip irrigation on timers. You can also consult with a Master Gardener or attend gardening workshops. Seedlings are for sale on site and composting is available. ADA-accessible planters available. Cost: \$218/year for a 4'x12" planter. Porta-Potty is available on site

California Nursery Historical Park, Niles Blvd at Nursery Ave

If interested, contact fremontLEAF@gmail.com

California Nursery Historic Park, 36501 Niles Blvd.

By Caroline Harris

This 22 acre park, belonging to the City of Fremont since the 1970s, is the heart of what was once the largest nursery on the West Coast of the Americas. It still has historic buildings, land mark, rare and notable trees plus a museum featuring the Roeding Collection. The city has been working with Math Science Nucleus, LEAF and Consultants on how the park should be transformed to better serve the needs of Fremont residents and visitors. Current buildings and structures include an Adobe built in 1830 by the Rancheros post Mission period of California's history, the Office and Presidents house both built in 1907 by Mr. Landers who was the financier behind the original Rock Nursery. A huge packing shed from the high days of the nursery still stands as testament the thousands of trees that packed and shipped annually all over the state and beyond.

The California Nursery Company was a leader in hybridizing palm trees to suit northern California's climate, soil and bugs and supplied the majority of decorative trees for the wealthy estates, city developments and exhibitions. The Roeding company purchased the 400 + acre nursery in 1917 expanding into fruit trees and ornamental plants These trees became the orchards that made this state famous for agriculture and food production. The company opened its Niles based headquarters to an enthusiastic public as a destination retail nursery with annual bulb show, tours and demonstration gardens.

Many current residents may remember the Naka nursery that used the site from the 1970s until a few years ago. That lease has not been renewed allowing the City to develop the park for recreational purposes. The park is open during daylight hours for anyone to admire the rose garden, the box tree forest, experimental orchard and nearly 1000 trees. On Sunday afternoons 1-4 pm, the Office building is open for docent lead tours of Roeding collection of original 1884 stock certificates, plant catalogues, agricultural equipment, office and personal memorabilia. Additionally there is an outside tour at 2:00pm every Sunday to view the historical trees and buildings on the site. Take a few hours to admire this jewel of a city park before the next page of history is turned.

Currently, the City of Fremont is asking for comments on a master plan for this important site.

Up Your Creek!

Newsletter of the Alameda Creek Alliance

High Flow in Alameda Creek – Watch for Fish

Stream flow in lower Alameda Creek in the flood control channel has been consistently about 2,000 cubic feet per second for the last couple weeks. Water is being bypassed at the Calaveras Dam construction site and flows are also being released from Del Valle Reservoir. The flow releases are likely to continue for another couple weeks. Mid- to late-February when the flows start to come down may be the best time to locate steelhead trout in the lower creek at the BART weir. You can monitor the stream flow of Alameda Creek in lower Niles Canyon.

Two Important Fish Passage Projects Completed Along Stonybrook Creek

The Stonybrook Creek Crossings and Fish Passage Improvement Project is completed! The project was led by The Alameda County Resource Conservation District, in partnership with the Alameda County Public Works Agency, Natural Resources Conservation Service, Zone 7 Water Agency and the EPA. The project removed and modified two known fish migration barriers in Stonybrook Creek, which runs alongside Palomares Road, and opened up quality trout spawning and rearing habitat in Stonybrook Canyon to migrating fish.

The project addressed the aging masonry culvert at MP 8.60 along Palomares Road in Alameda County and improved fish passage conditions within Stonybrook Creek. The project included the retrofit of an existing County-owned culvert (at milepost 8.75) and a full bridge replacement (at milepost 8.60) to address public safety and improve access for native fish, including landlocked rainbow trout and anadromous steelhead. At MP 8.75 the stream was re-graded to remove a boulder back up at the inlet of the culvert and installing 22 concrete baffles to make fish passage possible through the culvert. At MP 8.60 the project included a full replacement of the bridge, removal of the grouted masonry channel to restore the creek bed to a natural channel bottom. At both locations the stream was re-graded to restore the natural channel grade and morphology by reshaping the channel bed to form boulder step pool and cascade features. END

Two Pesticides Threaten 97 Percent of Endangered Species



A new report from the EPA says *97 percent* of the 1,800 species that are protected under the Endangered Species Act --- from bears to birds to frogs --- are likely to be harmed by two of the Most common pesticides, malathion and chlorpyrifos. The pesticide diazinon is likely to hurt another 78 percent.

We're now getting a far better picture of the risks pesticides pose to endangered wildlife," said Center scientist Nathan Donley. "The next step should be protecting them -- *and* public health." Source: The Guardian/CBD

EBRPD...More than Just a Pretty Place



Announcing an

Economic Forum on the Impact of the East Bay Regional Park District of the Regional Economy

The event will be Wednesday, March 15, 2017, 10:00am - 1:30pm...Lunch will be served.

Where: Newly reopened BridgeYard Building, Oakland at the base of the eastern span of the Bay Bridge.

An analysis by independent economists revealed that the EBRPD provides a 400% return on investment for the residents of Alameda and Contra Costa counties. Join us for the release of the *Quantifying the Quality of Life* report and discuss its findings with an expert panel of business leaders and elected officials.

The event is hosted by the East Bay Regional Park District

Please RSVP at ahaynes@ebparks.org

Winter 2017 Tri-City Ecology Center Biocompostable Product Price List

7" plate	\$3.11	10" plate	\$6.14	11.5oz bowl	\$2.69
10oz cold cup	\$4.85	8oz hot cup (no sleeve needed)	\$5.75	6oz cold cup	\$2.75
Teaspoon, fork or knife	\$1.90	3 gal kitchen scrap bag (Biobags)	\$5.07	13 gal tall kitchen bag	\$4.52

All products are 50 count except **tall** kitchen bag (20 per roll)...All prices reflect our non-profit discount and tax.

Bio-Compostable Ordering Guidelines

1. The Biocompostable Program is **for members only**....a benefit of being a TCEC member.
2. Orders must be picked up at the office, 3375 Country Dr., Fremont on Thursdays from 11am to 2 pm or by special arrangement.
3. You must fill out the order form. This is necessary for inventory purposes. **Please pay with a check or cash.** Sorry, we do not make change. Please place the money in the manila envelope in the white binder on the desk.
4. The order forms are in the back of the white binder. Please include your name, address, phone #, date and quantities of items and dollar amount.
5. **If a member wants to pre-order large quantities of items, contact Adrienne at 651-8672 or ecoaes@comcast.net. Call a week or more ahead of time**

Republic Services' Annual Compost Giveaway Events

Republic Services will once again be holding compost giveaway events for residents of Fremont, Newark and Union City. Each event is open to residential customers of each city, respectively. Limit 2 bags per address.

Compost is the end-product of grass, branches, leaves, food scraps and other organic material. When this mixture of material biodegrades, it becomes a useful soil conditioner and fertilizer that holds moisture, conserves water and nourished plants. Compost is meant to be a soil amendment – think of it as a vitamin boost for plants and trees!

When and Where:

Union City Compost Giveaway and E-waste Collection

Date: Saturday, March 25 Time: 9 a.m. – 3 p.m. (while supplies last)

Location: Tri-CED Community Recycling, 33377 Western Ave., Union City

Be sure to bring the coupon on the address panel of your most recent Republic Services/Tri-CED newsletter. This is your ticket to two free bags of compost.



Newark Compost Giveaway

Dates: Monday, March 27 – Friday, March 31...Time: 9 a.m. – 4 p.m. daily, Mon. – Fri. only (while supplies last)

Location: Republic Services of Alameda County, 42600 Boyce Rd., Fremont

Recent Newark residential collection bill required, with matching identification to that address

Fremont's 22nd Annual Compost Giveaway

Date: Sunday, April 2 Time: 8 a.m. – noon (while supplies last)

Location: Fremont Recycling and Transfer Station, 41149 Boyce Rd., Fremont

To participate in the Annual Compost Giveaway, you must be a Fremont resident participating in the green waste program and bring your most recent Republic Services invoice as proof of eligibility.

****Avoid the line! For shorter wait times, arrive at the Compost Giveaway after 9:30am****

More information available at www.RepublicServicesAC.com. Source: Jennifer Maken, RSAC

Help SFBBO Protect the Western Snowy Plover

Article by Kristin Butler, SFBBO

For the past 13 years, the San Francisco Bay Bird Observatory (SFBBO) has studied and conserved the Bay Area's struggling Western Snowy Plover population. We are the local experts on this threatened species, and our research is used by regional conservation resource managers like the South Bay Salt Pond Restoration Project, presented at national conferences like the Western Field Ornithologists Annual Conference, and shared with the public by our new Plover Docent Team.

Because of the especially competitive state of scientific grant funding last year, *we did not receive the grant funding we'd hoped for* to continue our work at the plover's most important East Bay site, where 72% of Bay Area plovers breed every year.

So in December, we launched a crowdfunding campaign to raise \$25,000 by March 31st to support our plover work. We are hopeful that individuals can help us raise the money we need to protect these vulnerable birds. To donate to this cause, or help us spread the word, please visit our crowdfunding site at <https://www.generosity.com/animal-pet-fundraising/protect-our-plovers/x/15538996>

In addition, you can help plovers by participating in (and spreading the word about) the following SFBBO plover events:

Sunday, Feb. 12: Plover Cider Event, 1:00 p.m. closing, Redwood Coast Cider, 821 Cherry Lane, San Carlos, CA, kids welcome, near San Carlos Caltrain Station. Join us for a day of delicious cider and beer, a silent auction, raffle prizes and games. \$1.00 of each pint and all bar tending tips will go to support SFBBO's Plover Program. Redwood Coast Cider specializes in old world style, American-made hand crafted hard cider, made on site. Passionate about supporting meaningful causes in their community, they've hosted fundraisers for shelter animals and Pints for Pits.

Thursday, March 2: Plover Science Talk, 8:00-9:00 p.m., Mt. Diablo Audubon Society.

Thursday, June 8: Plover Science Talk. 7:00-8:00 p.m., for the Sequoia Audubon Society.

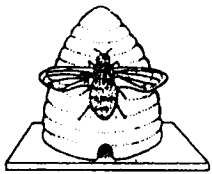


In addition, you can Adopt-a-Plover for a loved one this Valentine's Day, make a donation to SFBBO to receive our plover t-shirt, or purchase a plover bracelet or wildlife calendar (50%-100% of the proceeds will go to SFBBO).

For more information about supporting our Plover Program, please visit our SFBBO Facebook page, check out #SFBBO and @SFBBO on Twitter and Instagram, or contact Plover Program Director Karine Tokatlian at ktokatlian@sfbbo.org.

Good News Department

Progress for Bees!



Costco announced that it will take steps to address bee-killing pesticides in its supply chain. The company is moving toward reducing neonicotinoid pesticides on its garden plants and expanding its supply of organic products. This is a step toward catching up with Home Depot, Lowe's, and other leading garden retailers who are getting these plants and products off their shelves.

But there are still two large garden retailers holding out – Ace Hardware and True Value. It's time for them to join their competitors and help save bees! **Tell Ace and True Value: Stop selling bee-killing pesticides.**

Costco's commitment could make a big difference in the fight to save bees. Already, 74 percent of growers who supply large garden retailers with nursery plants have said they would not use neonics this year. That means together, we've already transformed nearly three-quarters of the garden industry – and Costco gets us one step closer to 100%!

Now, we need Ace and True Value to step up. These companies don't need to use neonics anymore – they could easily stock their stores with neonic-free plants. Their refusal to say NO to neonics isn't just hurting bees – it's risking their businesses, too. A new poll found 66% of Americans prefer Lowe's and Home Depot because they've committed to stop selling bee-killing pesticides.

Source: Friends of the Earth

East Bay Regional Park District
Coyote Hills Regional Park
Naturalist Programs -Feb/March 2017

VISITOR CENTER & STORE HOURS

The Coyote Hills Visitor Center is open Tues-Sun, 9:30 am-5pm. The Nectar Garden is open Wednesday through Sunday, 10 am to 4 pm. Parking fees may be charged. Most activities meet at the Coyote Hills Visitor Center. For more, please call (510) 795-9385 or e-mail us at chvisit@ebparks.org.

Please note: Occasionally programs change or are cancelled. Please check the website: EBPARKS.ORG, OR Call the Park to verify program information.

DISCOVERY DAYS ☉

Interpretive Staff

10:30 AM TO 3:30PM Every Saturday and Sunday

Enhance your park adventure with hands on exploration or crafts the whole family will enjoy. Come at 10:30am for a presentation introducing the topic of the week or participate at your own pace. Parent participation required.

NATIVE CALIFORNIA PLANT USES

10-11:30am Sunday, February 19

Francis Mendoza, Naturalist

Go on a short walk to learn how Native Californians use plants for food, medicine, shelter and tools. We'll visit the native plant garden and walk out to the freshwater marsh.

OHLONE PEOPLE & CULTURE ☉

Francis Mendoza, Naturalist

10am-noon, Sunday, February 19

Learn about the different roles that men and women traditionally had within the village. We'll play some kid's games and discuss the importance of elders in Ohlone society. 8+yrs

OHLONE VILLAGE SITE TOUR ☉ ☽

Kristina Parkison and Francis Mendoza, Naturalists

10am-noon, 1-3pm Sunday, Feb. 26

Walk one-half mile through vibrant marsh habitat to a more than 2,000 year-old Ohlone village site. Learn about Ohlone cultures, past to present.

Tour a reconstructed shade structure, pit house and sweat house. Meet at the Village Site. Info: (510) 544-3220



CANINE CAPERS - DOG WALK ☉

Garin Regional Park, Red Barn Visitor Center
Interpretive Staff

9-11am, Saturday, February 18, Course #15359

Make new friends, enjoy a nature walk and explore some of the finest open space with your best four-legged friend along! Homemade snacks provided for good (and spirited) dogs! 8+yrs Reg. Required: 1-877-327-2757

NEWTS DO IT TOO

10-11:30am Sunday, February 19

Garin Regional Park, Red Barn Visitor Center
Interpretive Staff

Get caught up in love bug going on this short 1.5 mile hike to see newts mating in their natural habitat. Heavy rain cancels 12+ year For information: 544-3220

MARSH MEANDER

10-11:30am Saturday, February 25

Kristina Parkison, Naturalist

Bursting with life and activity, the marsh is a place to look for nests, listen for bird calls, and hear stories about unique animals who live there! 5+ years Parent participation required.

NIFTY NEWTS

1:30 - 3pm Saturday, February 25

Garin Regional Park, Red Barn Visitor Center

What's poisonous, slimy, but cute as can be? It's the California newt, headed toward a pond near you. Join us for chance to find this animal jewel. 5+ years. Registration required 1-888-327-2757

COYOTE CUBS ☉ ☽

Francis Mendoza, Naturalist

10:30-11:30am, Monday, February 27

Get your preschooler out and into nature! We'll play games, explore the park, and do a craft related to the theme of the day. Parent/Caregiver participation required. 3-5 years old

WEEKDAY BIRD WALK ☽

Kristina Parkison & Francis Mendoza

7:30-9:30am, Tuesday, February 28

Share your enthusiasm for bird life on a tranquil walk. All levels of birding experience welcome. Bring water, sunscreen, and binoculars or scopes. 12+yrs For information: (510) 544-3220

SSNAKES, SSTORIES AND SSPIRALS

10am to Noon and 1:30 to 3:30pm, Sun., March 3

Dino Labiste, Naturalist

Drop in anytime to meet the snakes that make Coyote Hills their home. Learn about their unique adaptations and how these slithering reptiles have become part of our folklore. Create a snake spiral craft to take home. 5+yrs For info: 510-544-3220



OHLONE VILLAGE SITE TOUR ☉ ☽

Kristina Parkison and Francis Mendoza, Naturalists

10am-noon, 1-3pm Saturday, March 11

Walk one-half mile through vibrant marsh habitat to a more than 2,000 year-old Ohlone village site. Learn about Ohlone cultures, past to present. Tour a reconstructed shade structure, pit house and sweat house. Meet at the Village Site. For info: (510) 544-3220

Eco-potpourri.....

Please join us at our annual

Yosemite Spring Gathering,



March 24-26, 2017

Bring the entire family for an exciting time exploring the park. Yosemite Conservancy programs and activities will give you an insider's view of Yosemite National Park and all it has to offer. Spring Gathering festivities in Yosemite Valley begin with a welcome reception on Friday evening and continue through-out the day on Saturday with guided walks by Yosemite experts, project tours, lunch and a special reception. Program fees apply.

To register or find out more information, including itinerary details, accommodation options and programs offered, please visit:

www.yosemiteconservancy.org/SpringGathering.

Check out the exciting new activities for 2017, exclusively for Yosemite Conservancy donors!

The Great Backyard Bird Count Save the dates!

Greetings from the Great Backyard Bird Count Team at Audubon, the Cornell Lab of Ornithology and Bird Studies Canada. We want to remind you to mark your calendars for the 20th GBBC.

February 17 through 20, 2017

Details: www.BirdCount.org
(includes summary of 2016)

**Why BIRDING is better
than American politics:**



**on a bird,
the right wing and left wing
work together
to lift up the center**

- Kenn Kaufman

2017 Wallace Stegner Lectures

Drawing Inspiration from Nature

- Gary Snyder (Feb. 21)
Beat Generation Poet, Environmental Activist
- Mark Bitman (March 21)
Journalist, Author, Former NY Times Columnist

Tickets: Call 650-903-6000 (Wed.-Sat., 12pm to 6pm)
Or visit mvcpa.com

Sponsored by Peninsula Open Space Trust

Fremont Friends of the Library

SPRING BOOK SALE

Members Only Preview

Friday, March 3, 7 pm to 9 pm
Advanced preview for members only.
Memberships (\$10) available for purchase at the door.



Everyone Welcome!

Saturday, March 4, 10 am to 3 pm
Sunday, March 5, Noon to 3 pm Clearance; \$5 per large grocery bag (bring your bags). No Boxes!

30,000 used books! \$1.00 an inch, stacked.
Novels ...biographies...Science & Art
Humor...Children's...Westerns
Romance...Science fiction
Math...Computers.
Records, Tapes, DVDs, Videos, Travel Guides, Puzzles
Location: PPP & Sailway Dr., Central Park, Fremont

SF Bay National Wildlife Refuge

Twilight Marsh Walk

Saturday, February 18, 4:30pm to 6:15pm
Cap off the day by experiencing the salt marsh at twilight on an easy stroll along Tideline Trail (1.3 miles). At the setting of the sun, we will observe the beginning of nature's night shift. Come and discover the sights, sounds and smells of the refuge as night descends. Call 792-0222, ext.363 or go to <https://donedwardstwilight.eventbrite.com>.

The walk is led by Mary and Gene Bobik

Tri-City Ecology Center Board Meeting Minutes, January 5, 2017

PRESENT: Gus Morrison, Donna Olsen, Daniel O'Donnell, Ann Morrison, Gail Blalock, Caroline Harris, and Janis Stob.
Minutes. Minutes of December 1st, 2016 approved. Noted that an extra \$50 was donated to Audubon Canyon Ranch Society.

Correspondence. Thank yous from Population Connection and Greenpeace.

Publicity. Dan to take publicity chair. Ideas: an annual meeting with other likeminded organizations, articles about the ecograts we've given and the finished projects and possibly tours of these? Gail to see when large display case in library will be available. Welcome.

Publications. In process. Idea to mention TCEC group outing to events such as 'Joseph...' at Ohlone College.

Treasurer Report. \$9476.00. \$10 fee for depositing an outsize check!

Fundraising. Ann to check with Chipotle about possible fundraiser. Is Jean available to handle Ducks for Bucks?

Local History Garden Museum. 01/14/2017.

Wetlands and Creeks etc.: Mention of Cullinan Ranch Tidal Marsh Restoration Project in the San Pablo Bay National Wildlife Refuge. Article from Jeff Miller on Livermore aquifer. Gus to respond.

Green Task Force / Niles Nursery / LEAF. Caroline to ask Ingrid Rademacher about LEAF and the new California Nursery Historical Park Master Plan. Public review ends 02/10.

ESC. Meeting delayed until 01/26. Donna asked Rachel to look into removing diesel vehicles from City Fleet. Gus to see if it's an issue in California.

Transportation. Talk of congestion at Mission and Warm Springs.

Water conservation. Lots of rain!

Website update. Definitely going to attend to updating the host to Godaddy soon...Gus to call Lisa Stanbaugh.

Respectfully submitted, *Ann Morrison*



Tri-City Ecology Center Board

Chair	Gus Morrison	790-1685
Vice-Chair	Janis Stob	299-4358
Secretary	Ann Morrison	650-714-0910
Treasurer	John Landers	656-8877
Publicity	Dan O'Donnell	650-714-0910
Membership	Gail Blalock	490-7565
Editor	Donna Olsen	797-2755
Volunteer Coordinator	Caroline Harris	440-0109
Media	Rich Godfrey	918-2312
At-Large	Tom Browne	792-7937
At-Large	OPEN	
At-Large	Patricia Schaffarczyk	656-0248
Tri-City Ecology Center.		793-6222
TCEC Web Site	www.tricityecology.org	

TCEC meets on the first Thursday of each month at the Fremont Community Activities Center, 3375 Country Drive, Main Meeting Room. Meetings start at 7:45 pm. Please call to verify. Members welcome.

Articles appearing in the Eco-Logic are identified by author or group, and are reproduced for the general knowledge of our readers. Editor TCEC Office Hours: Every Thursday, 11 am-2 pm or by appointment.

Printed by Copy Perfect, 4089 Mowry Ave., Fremont 94538

Treasurer's Report

January 2017

Total Income	\$ 417.00
Total Expenses	\$ 696.00
Checking	\$ 9198.00
Total Cash Balance	\$ 9198.00

John Landers, Treasurer

Did You Know...?

The greenhouse gas effects of growing, transporting, cooling, cooking and allowing good food to go the landfill and rot is equivalent to...



39 million cars' worth annually

Fight Food Waste!

Tri-City Ecology Center Membership Form

I would like to join the **Tri-City Ecology Center (TCEC)** and receive 10 issues of the newsletter, *Eco-Logic*. As a member, I will also receive compostables, T-shirts and tote bags at a discount price. Enclosed is my membership fee. Please check one of the following categories and mail this form to TCEC, P.O. Box 674 Fremont, CA 94537:

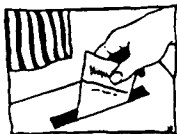
	Contribution	Membership Category	Gift
<input type="checkbox"/>	\$100	Bald Eagle	Benefactor ⇨ T-Shirt S__ M__ L__ XL__
<input type="checkbox"/>	\$50-\$99	Peregrine Falcon	Patron ⇨ 3 Tote Bags Yes__ No__
<input type="checkbox"/>	\$25-\$49	Salt Marsh Harvest Mouse Sponsor	
<input type="checkbox"/>	\$15-\$24	Burrowing Owl	Member

Name _____
 Address _____
 City _____ State _____ Zip _____
 Phone _____ E-Mail _____ Date _____

I would like to volunteer for the environment. Please call us at 793-6222.

The Tri-City Ecology Center is a 501 (c) (3) non-profit organization. All contributions are tax deductible.

It's Time to VOTE!



In a day or two, you will receive your Election of Officers for 2017-2018 ballot. Please fill it out and return it as soon as possible. It is already stamped. Let your TCEC officers know how much you appreciate them and acknowledge their hard work.

Send Us Your Volunteer Card

Another important step you can take is to fill out your Volunteer Card. Pick out something you would like to do. Last year, we had a little trouble filling all the shifts for the Lemonade Booth, our biggest fundraiser. It's fun... jump right in! Other options are gardening at the Museum of Local History, Earth Day, writing an article for newsletter and much, much more. Volunteers are what the ecology center successful.

Duck 4 Bucks Coming Next Month

Yes, it's right around the corner. In April, along with your newsletter, you will receive a bright yellow sheet of paper containing a list of prizes, the D4B form and a return envelope. This fundraiser generally earns enough money to purchase our annual book/DVD donation to the public libraries of the Tri-City area or three Youth Eco-Grants.



Looking Ahead to Earth Day

Earth Day, this year, *must* be a major recommitment to the earth. The event will actually occur on April 22 ..the anniversary of Earth Day 1970. The celebration will be held at Washington Hospital, Conrad Anderson Auditorium.