



# Canyon News

Black Mountain Park • Del Mar Mesa Preserve  
Peñasquitos Canyon Preserve  
Friends of Los Peñasquitos Canyon Preserve, Inc.

Jan., Feb., Mar., 2013  
Volume 27 No. 1

## Volunteers Welcome

### Black Mtn. Arsenic Mine Committee Forming

Mike Kelly, conservation chair

Did you know we have an old Arsenic/Gold mine in Black Mountain Open Space Park? It's closed now, but much remains of the mine. The Friends are forming a committee to organize the cleanup of the mine, develop interpretive exhibits, and make it safe to bring the public in on guided tours. Please join us in this exciting endeavor. It will be interesting and fun. Contact me at [mkelly1@san.rr.com](mailto:mkelly1@san.rr.com) or call me at 858-342-8856 to volunteer.

It was formally called the Black Mountain Arsenic Mine Company. It operated from 1923 to 1927, using state-of-the-art mills, drills, a narrow-gauge railroad (a short one!), a furnace, and several shafts. The owners and operators of the mine had deep ties to Hollywood, Cecil B. DeMille, local ranchers and cowboys. And one of the miners was the dad of one of City Parks earliest open space Rangers.

We'll detail more of the history of the mine in future issues, based on extensive archaeological and historical investigations that were done on the mine.

Frankly, we didn't expect to move this early on cleaning up the old mine site, but recently it has received publicity in the blogosphere, including a site dedicated to exploring forgotten sites. This means increasing numbers of people will be finding their way to the mine and parts of it aren't safe. We'll concentrate on first making it safe, then on the interpretive program.

## Highlights Inside

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## Our Scorpions

Mike Kelly, conservation chair

Yes, we do have Scorpions in Peñasquitos Canyon. The picture accompanying this article was taken at one of the Friends' work parties at the waterfall. I've also seen them elsewhere in the Preserve. If you turn over enough rocks, you too can visit with one of our little scorpions.

Our scorpions are much smaller than the ones featured in Hollywood movies! This one was a little over an inch in length. The bulbous feature at the end of the tail is the stinger. The sting of our local species is relatively mild, lasting from a few hours to several days, but doing no permanent harm. It's similar to a bee sting, with initial pain, a burning sensation, and swelling that lasts from a few minutes to several hours, occasionally with some discomfort lasting more than a day. First aid usually consists of applying an ice pack to the affected area.

There is a non-native species from Arizona that has popped up in Orange County. This species, *Centruroides exilicauda*, can be lethal. In Arizona it's responsible for more deaths than rattlesnakes and other venomous species combined.

Scorpions are usually nocturnal when they hunt soft-bodied insects for food, including beetles, centipedes, spiders, cockroaches, and other species.

Did you know Scorpions dance? At least at mating time they do! A male scorpion conducts an exotic dance with a female while grasping her claws with his claws. After a lengthy courtship (hours?) copulation takes place. Fertilized eggs develop within the female, who gives birth to live young. She carries them around on her back until their first molt. During this time they feed upon the embryonic yolk.

The best reference for insects is the wonderfully illustrated *Insects of the Los Angeles Basin* by Charles L. Hogue.



Scorpion photographed at the waterfall in Peñasquitos Canyon Preserve. Probably a species in the genus *Vejovis*

Photo by Janet Nel-

## Upcoming Hikes and Volunteer Opportunities

All of our hikes are free. There is a fee for the Tracking survey classes. See below for details.

Wear good trail sneakers or boots and sun protection (hat, sunscreen or both), and bring plenty of water. Call 858-484-3219 for more information.

### Repeating Events

#### Every Saturday and Sunday:

##### **Historic Adobe Ranch Tour**

San Diego County Park docents lead a free guided tour of San Diego's second oldest standing residence, Rancho Santa María de los Peñasquitos, at 11 a.m. on Saturdays and 1 p.m. on Sundays, lasting 45 minutes. See an historic Mexican era rancho with three foot thick adobe walls, settler and Indian artifacts and tour the grounds. The Ranch House is located on Canyonside Park Driveway off Black Mountain Road between Mira Mesa and Rancho Peñasquitos.

#### Every month:

##### **Wildlife Tracking Walk**

**Sat. 8 a.m. - 10 a.m. Jan. 12, Feb. 9, Mar. 9, Apr. 13, May 11, June 8, July 13, Aug. 10, Sept. 14 Oct. 12, Nov. 9, Dec. 14**

Everyone is invited to join a knowledgeable San Diego Tracking Team instructor for a free, easy introductory tracking walk to learn about the art of tracking and the Los Peñasquitos Canyon Preserve. Look for tracks and scat of coyotes, bobcats, raccoon, deer and other wildlife in the area! Information at [www.sdttd.org](http://www.sdttd.org). Rain cancels. Meet at the Historic Adobe Ranch House on Canyonside Park Drive and Black Mountain Road, Rancho Peñasquitos.

#### Every two months:

##### **Black Mountain Open Space Park Citizens Advisory Committee**

**Thurs., 6:30 p.m. Jan 10, Mar 14, May 9, July 11, Sept. 12, Nov 14**

Public is welcome to attend this meeting to plan park activities. Meet in the Canyonside Recreation Center at Black Mountain Road and Canyonside Park Driveway, Rancho Peñasquitos.

##### **Peñasquitos Canyon Citizens Advisory Committee**

**Thurs. 6:30 p.m. Jan. 17, Mar. 21, May 16, July 18, Sept. 19, Nov. 28**

Public is welcome to attend this meeting to plan park activities. Meeting is at the Historic Adobe Ranch House on Canyonside Park Driveway and Black Mountain Road, Rancho Peñasquitos.

##### **Friends of Peñasquitos Canyon**

###### **Board of Directors**

**Tues., 7 p.m. Jan. 8, Mar 5, May 7, July 2, Sept. 3, Nov. 5**

Members are welcome to attend this business meeting to plan Friends' activities. Meeting is at the historic Adobe Ranch House at Black Mountain Road and Canyonside Park Driveway, Rancho Peñasquitos.

#### Quarterly:

##### **Beginning Tracking Wildlife Surveys**

**Sat. 8 a.m. - 4 p.m. Jan. 19, Apr. 20, July 20, Oct. 19**

This class prepares you to participate in surveys that monitor the wildlife in major open space preserves and other critical areas. Topics include basic recognition and identification of animal tracks and other signs, introduction to track patterns and gaits, wildlife journaling, an overview of the survey protocol, and more! Classroom time is supplemented with plenty of time in the field ("dirt time"). This training is required for survey volunteers and also serves as a prerequisite for the Intermediate Tracker/Naturalist class. After this training, students are expected to participate in at least one SDTT wildlife survey. Preregistration is requested to reserve your spot. The \$25 fee includes a number of valuable reference materials. Dress prepared to spend time outdoors and bring a sack lunch and water. More information at [www.sdttd.org](http://www.sdttd.org). Email [info@sdttd.org](mailto:info@sdttd.org) or call 760.715.4102 to register. Meet at the Historic Adobe Ranch House on Canyonside Park Driveway and Black Mountain Road, Rancho Peñasquitos.

##### **Intermediate Tracking for Wildlife Surveys**

**Class: Wed. 7- 9 p.m. Mar. 13, Sept. 18**

**Field: Sat. 8 a.m.-4 p.m. Mar. 16, Sept. 21**

This class expands on the beginning training and includes recognition and interpretation of tracks and sign on a variety of surfaces. There are exercises in speculative tracking, aging, soil dynamics, debris interaction, trailing, mammal skull and dental identification, and tracking on various substrates. Additional gait interpretation is covered. Cost: \$50 (\$10 discount for SDTT or Friends members). Pre-registration required. More information at [www.sdttd.org](http://www.sdttd.org). email [info@sdttd.org](mailto:info@sdttd.org) or call 760-715-4102 to register. Meet at the Historic Adobe Ranch House on Canyonside Park Driveway and Black Mountain Road, Rancho Peñasquitos.

Maps of Peñasquitos Canyon Preserve and Black Mountain Open Space Parks are available at [www.Peñasquitos.org](http://www.Peñasquitos.org)

##### **Advanced Tracking Wildlife Surveys Class: Wed. 7- 9 p.m. May 15, Nov. 13**

**Field Sat. 8 a.m. - 4 p.m. May 19, Nov. 16**

The Advanced Class continues to develop your proficiency as a tracker. Subtle details of track identification are presented. Techniques and exercises for trailing animals through various surfaces will enable you to stay on the right track. Drills and exercises will help expand your knowledge base, point out areas to work on, and give you a preview of the tracker evaluation process. Cost: \$50 (\$10 discount for SDTT members). Pre-registration required. More information at [www.sdttd.org](http://www.sdttd.org). E-mail [info@sdttd.org](mailto:info@sdttd.org) or call 760-715-4102 to register. Meet at the Historic Adobe Ranch House on Canyonside Park Driveway and Black Mountain Road, Rancho Peñasquitos.

### Hikes & Volunteer Opportunities

#### January

##### **Vernal Pool Walk**

**Sat., Jan. 5, 9 a.m.**

Join naturalist Mike Kelly for an easy walk and learn about vernal pools, perhaps San Diego's rarest ecosystem. Meet the rare and endangered plants and animals, some extremophiles, that live in and near them. Meet at Lopez Ridge Park in Mira Mesa, at 7245 Calle Cristobal.

##### **Volunteer Waterfall Restoration Planting**

**Sat., Jan. 12, 9 a.m. - 12:00 p.m.**

Join the Friends in planting more natives at the waterfall. Bring water, sun protection, and gloves if you have them. Meet at the kiosk across from 7107 Park Village Road, Rancho Peñasquitos.

##### **Black Mountain Mine Cleanup**

**Sat., Jan. 26, 9 a.m. - 1 p.m.**

Join the Friends in exploring and cleaning up the old Black Mountain Mine for future public viewing. Involves moving rock and wood debris. Bring water, gloves, and flashlight. Meet at Black Mtn. Open Space Park, Miner's Loop Parking, 14850 Carmel Valley Road, Rancho Peñasquitos.

##### **Lopez Homestead History Hike**

**Sun. Jan. 27, 3 - 5:00 p.m.**

Hike into Lopez Canyon with Will Bowen, PhD, to learn about the Old Lopez Homestead - a small turn-of-the century dairy farm. Visit the orchard, the Old Road, and see the remains of the barn, house, and milking station. Discover the importance of the Lopez Family in early San Diego history. Meet at the West End Parking Staging area.

## February

### **Vernal Pool Walk**

**Sat., Feb. 9, 9 a.m.**

Join naturalist Mike Kelly for an easy walk and learn about vernal pools, perhaps San Diego's rarest ecosystem. Meet the rare and endangered plants and animals, some extremophiles, that live in and near them. Meet at Lopez Ridge Park in Mira Mesa, at 7245 Calle Cristobal.

### **Miner's Loop Trail Walk, Black Mountain Open Space Park**

**Sat., Feb 16, 9 - 11 a.m.**

Join hike leader Arne Johanson to hike the Miner's Loop trail on the north face of Black Mountain Park. Meet at the parking staging area at 14850 Carmel Valley Road, about 1/4 mile east of the intersection with Black Mountain Road in Rancho Peñasquitos.

### **Black Mountain Mine Cleanup**

**Sat., Feb. 23, 9 a.m. - 1 p.m.**

Join the Friends in exploring and cleaning up the old Black Mountain Mine for future public viewing. Involves moving rock and wood debris. Bring water, gloves, and flashlight if you have them. Meet at Black Mtn. Open Space Park, Miner's Loop Parking, 14850 Carmel Valley Road, Rancho Peñasquitos.

### **Pierre Bovet Adobe History Hike**

**Sun., Feb. 24, 3 - 5:00 p.m.**

Hike into Carroll Canyon to visit the ruins of the Pierre Bovet Adobe. Learn about Pierre Bovet and his family and their place in San Diego history. Meet at the corner of Youngstown Way and Carroll Canyon Road.

## March

### **Miner's Loop Trail Walk, Black Mountain Open Space Park**

**Sat., Mar 2, 9 - 11 a.m.**

Join hike leader Arne Johanson to hike the Miner's Loop trail on the north face of Black Mountain Park. Meet at the parking staging area at 14850 Carmel Valley Road, about 1/4 mile east of the intersection with Black Mountain Road in Rancho Peñasquitos.

### **Tadpole and Fairy Shrimp Hike**

**Sun. Mar. 17, 4 - 6:00 p.m.**

A hike to look for and learn about fairy shrimp and frog and toad tadpoles - the short term inhabitants of the ephemeral rain pools and puddles of early spring on the Carmel Mountain mesa top. Learn about their life cycles and behaviors. Meet at the Carmel Mountain Trailhead, 4730 Fairport Way at Shorepoint Way.

### **Vernal Pool Walk**

**Sat., Mar. 16, 9 a.m.**

Join naturalist Mike Kelly for an easy walk and learn about vernal pools, perhaps San Diego's rarest ecosystem. Meet the rare and endangered plants and animals, some extremophiles, that live in and near them. Meet at Lopez Ridge Park in Mira Mesa, at 7245 Calle Cristobal.

### **Birding with all Your Senses**

**Sat., Mar. 23, 8:15 a.m.**

Join Field Ornithologist Jeanie Anderson on a path in the canyon with many birds both visible and calling. Bring sturdy shoes and binoculars and cover-ups. Handouts and checklists will be provided. Meet at the west end of Canyonside Park Driveway, 1 block west of Black Mtn. Rd. at the Preserve sign at the beginning of the white ranch house fence. 12350 Black Mtn. Rd. Rancho Penasquitos

### **Black Mountain Mine Cleanup**

**Sat., Mar. 23, 9 a.m. - 1 p.m.**

Join the Friends in exploring and cleaning up the old Black Mountain Mine for future public viewing. Involves moving rock and wood debris. Bring water, gloves, and flashlight if you have them. Meet at Black Mtn. Open Space Park, Miner's Loop Parking, 14850 Carmel Valley Road, Rancho Peñasquitos.

### **El Cuervo Adobe History Hike**

**Sun., Mar. 24, 4 - 6:00 p.m.**

Hike with Will Bowen, PhD, into the west end of Peñasquitos Canyon for an intimate look at the ruins of the "El Cuervo" Adobe. Learn about Francisco and son, Diego Alvarado - the probable builder. Includes a short side hike to examine Norwood Brown's old roundup corral and to discuss the impact of cattle grazing in the Preserve. Meet at the parking lot at 4206 Sorrento Valley Blvd.

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## **'Tis The Rainy Season**

Park Ranger Lisa Wilson

I love the rain. I especially love it when it rains in the middle of the night. When I'm home where it's warm and dry. I love hearing it hit down on the roof and drip on the patio. It's a very soothing and satisfying sound because I know that the plants and life that it sustains are happy and being rejuvenated as I listen to it fall. We have it great in San Diego because it's sunny so much of the year. We get spoiled with how nice the weather can be. I was born and raised in San Diego but I have lived in other parts of California and have experienced changing weather from season to season. So when we finally experience a different cycle of weather here, it's exhilarating to be in.

The plants and animals in Los Peñasquitos Canyon Preserve, as well as in all of our open space preserves seem to come alive with the rains and we are grateful when that happens. Because of the gift of rain, we also need to give our open space preserves time to be nourished by it and also to recover and dry out again. We love our open space areas. We love to walk, run, bike and ride horses in them. But it's important that we don't love them to death. After a significant rain event, it is important to respect these areas and stay out of them for at least a couple of days following the rain, to allow them to dry out. This is because we want all of our visitors to be safe (that dirt gets slippery when it's wet) and we want to preserve the trails so that when we return to them, they are in good usable condition for all visitors to enjoy.

Thank you for being good stewards of our open space lands. Taking care of these areas helps to ensure that they remain, and flourish for many years to come.

If you would like to receive an email update following rain events to let you know if Los Peñasquitos Canyon Preserve is open for use, please send an email to Gina Washington, our Senior Ranger at [GWashington@sanidiego.gov](mailto:GWashington@sanidiego.gov).

## Dedication Success: Over 10 Square Miles Dedicated for Park & Open Space

Last January we wrote about the process of getting open space lands in San Diego dedicated as permanent open-space. We asked that you help support San Diego Canyonlands Coalition and write to Mayor Sanders and the San Diego City Council requesting a yes vote on the dedication.

San Diego Canyonlands now reports that on November 27, 2012, as a last

vote of the 68th San Diego City Council, nearly 6,600 acres of City-owned canyons and open space were dedicated for permanent protection. (See chart below for details.) Now a two-thirds vote of San Diego's voters is required to ever use the land for non-park or non-open-space purposes. The total dedicated land is over ten square miles, eight times the size of Balboa Park.

San Diegans love their canyons and open spaces. Dedication completes decades of purposeful planning by many groups. In 2007, Mayor Sanders and state Senator Kehoe provided the process for this conservation action to happen. Nearly 13,200 acres of open space were dedicated during their respective terms in office.

<b>Community Planning Area</b>	<b>Acres Dedicated (approx)</b>	<b>Examples of Major Features Dedicated</b>
Black Mountain Ranch	1258	La Zanja Canyon, Black Mountain
Carmel Mountain Ranch	97	Carmel Mountain Ranch Open Space
Carmel Valley	740	Carmel Mountain, Sorrento Hills and Shaw Valley Open Space
City Heights (Mid-City)	30	Swan Canyon, Chollas Creek Areas
Clairemont Mesa	19	Tecolote Canyon areas
Del Mar Mesa	354	Shaw Valley, Del Mar Mesa Open Space, vernal pools
East Elliott	708	Mission Trails (north, northeast)
Eastern Areas	4	Portion of Chollas Creek
Encanto Neighborhoods	9	Chollas-Radio Canyon
Kensington-Talmadge	8	Norfolk Canyon
Linda Vista	61	Tecolote Canyon areas
Mira Mesa	182	Flanders Canyon, Canyon Hills Park, vernal pool areas
Miramar Ranch North	306	Canyon View Park, Scripps Miramar Open Space
Mission Valley	2	Mission Valley hillsides (Ellis Canyon)
Navajo	3.5	Mission Trails, portion of San Diego River
Normal Heights	18	Eugene Canyon, Ellis Canyon
North Park	2.8	East Switzer Canyon
Otay Mesa	357	Otay Mesa Open Space
Pacific Highlands Ranch	14	Fairbanks Ranch Open Space
Rancho Bernardo	69	Battle Mountain
Rancho Encantada	248	Sycamore Canyon
Rancho Peñasquitos	172	Darkhorse Canyon (north), Black Mountain, Sun Ridge Vista Park
Sabre Springs	370	Sabre Springs Open Space
San Pasqual Valley	389	San Pasqual Trails
Scripps Miramar Ranch	109	Scripps Miramar Open Space
Skyline-Paradise Hills	6	Marie Widman Memorial Park (Encanto Park)
Southeastern San Diego	8	Chollas-Radio Canyon
Tierrasanta	777	Shepherd Canyon north Rueda Canyon, Mission Trails
Torrey Highlands	160	La Zanja Canyon, south McGonigle Canyon, Vernal Pools, Hampe Hills
University City	84	North side Rose Canyon and San Clemente Canyon, Campus Point
Uptown	13	East Marston (Cypress) Canyon, Buchanon Canyon



## Lynx Spider Mom Rocks!

Mike Kelly, conservation chair

In my backyard that borders the Preserve (and also found in the Preserve itself) I have a very interesting species of spider, the Green Lynx Spider (*Peucetia viridans*). I have a female of the species. Are they in your backyard? They're small, often only  $\frac{3}{4}$  in. long.

In the photo accompanying this article she appears more yellow than green, with her beige egg sack next to her. A sack can be up to  $\frac{3}{4}$  in in size. Can you see her legs? Her appearance is very cryptic against the background of the dried seeds. The plant she is on is a Coastal Goldenbush (*Isocoma menziesii*).

Lynx spiders are ambush predators, not using webs to entrap their prey. They eat a wide variety of other insects, often moths, but including the honey bees that were attracted to the yellow blooms of my Goldenbush these past months. She's been hanging out in the same spot, moving to ambush her food, then returning to her egg sack. Her food has

pretty much been coming to her, unaware of the cryptically colored predator laying in wait to pounce.

The egg sack pictured is the second egg sack we've seen her tend in just 3-4 months. A sac can have anywhere from 25 to 600 bright orange eggs. When they emerge from the sac they are also colored orange. The female is a caring mother, first guarding the egg sac, then helping the spiderlings emerge and enter the world.

Mating season for Lynx spiders runs from May through July when the males roam about searching for available females.

The best reference for insects is the wonderfully illustrated *Insects of the Los Angeles Basin* by Charles L. Hogue.



Mother Green Lynx Spider tending an egg sac. Photo by Phil Rouillard.

# Charlotte and the Orb Weaver

Millie Basden

(Editors note: This article first appeared in the Nov, 2012 issue of MTRP Trail Talk.)

Charlotte turned 60 on October 15<sup>th</sup> this year. The heroine of E.B. White's classic children's book, *Charlotte's Web*, saved the life of the loveable pig, Wilbur, through her writings on her web. Charlotte was an orb weaver spider, also known as a barn spider (*Araneus cavaticus*). White revealed her identity in her full name: Charlotte A. Cavatica. *A. cavaticus* and other members of the Araneidae family are also called writing spiders because of the zigzag "scribble" of silk often seen near the center of their large webs.

Barn spiders like Charlotte are common in the northeastern part of the United States. In San Diego, we have different orb weavers. One is known variously as a garden spider, a writing spider, or simply an argiope, after its genus name. The brightly marked yellow and black abdomen of *Argiope aurantia* may be what catches your eye, but look closely at the shiny white cephalothorax. Argiope is from the Greek for silver face. *Argiope aurantia* may not be the heroine of any children's books (at least not yet), but its

life history makes for some interesting reading.

The saga of a male spider being killed and eaten by the female after mating is a familiar story. Our argiope however is known as the only spider programmed to die during copulation. The female does not contribute to the death. As soon as the male inserts his second palp into the female, he succumbs. The female cannot remove his body for what must seem an interminable 15 minutes. This "total body plug" probably ensures that the dead male's sperm will reach and fertilize the eggs. Once the dead male is dislodged, the female will eat him—gaining nutrients for her now fertilized eggs. You can read more about the unique life cycle of a male *Argiope aurantia* in the *Proceedings of the Royal Society B* found online at <http://goo.gl/rhd52>.

Fall is the time of year when argiope are most visible. The female is the big mama spider seen hanging out in the center of the large web. The males are 1/3 the size of the females and build a smaller

web usually nearby or even on the periphery of a female's web. After the female lays her eggs in late fall, she also dies. The babies hatch, but remain in the egg sac over the winter. They emerge in spring and spend the summer months growing up until time for building those highly visible webs in the fall.

The zigzag "scribble" of silk is called a stabilimentum. As the name suggests, some believe the zigzag strengthens the structure of the web. Others say it attracts insects because it reflects UV light, just like a flower petal. But others argue that the structure is defensive and prevents birds from flying through the web. Whatever the function of the stabilimentum, the most fascinating aspect to me is that E.B. White may have been inspired after observing this structure to write his story about Charlotte writing "some pig" and "radiant" in her web to save Wilbur from the butcher block.





# Trail for All People Update

Jas Arnold

Significant progress has been made on this very important project. The Trail for All People (T4AP) is now on the city of San Diego capital improvement project (CIP) list as project S13001.

The T4AP would not have made it this far without the seed money provided by the Friends and other donors. Grants were also provided by the Rancho Penasquitos Town Council and Intuit. (I can hear it now, "the Intuit Trail for All People".) The Rancho Penasquitos Planning Board committed \$50,000 in developer fees (the Park Village Funds) to cover the associated costs of this design phase.

Laura Ball, a biologist with the city of San Diego, is the project manager. The first phase will be to complete the design and create a set of construction documents. Freely offer your design thoughts regarding overlooks, plant signage, relaxation benches and the view/shade pavilion by emailing at ziphel@san.rr.com. Actual construction is scheduled for next fiscal year (FY14). We are getting close!



## Membership Application

Membership category: (circle 1 below)

Senior (62) or Student \$10	Individual \$15
Family \$20	Sponsor \$30
Corporate \$250	Patron \$100
Life \$1000	
Contribution \$ _____	

I/We are interested in the following:

- Volunteer to help a committee (call to discuss)
- Hikes
- Indian Culture
- Educational Workshops
- School, Family, Youth Programs
- Environment (Plants, birds, mammals, geology)

Other: \_\_\_\_\_

Name(s) \_\_\_\_\_

Address \_\_\_\_\_

City State Zip \_\_\_\_\_

Home Phone \_\_\_\_\_

Email \_\_\_\_\_

Please make checks payable to:

Friends of Los Peñasquitos Canyon Preserve, Inc.  
P.O. Box 26523, San Diego, CA 92196

Thank you for your support! Your donation is tax deductible.  
Call **858.484.3219** or **858.342.8856** for more information.

### Don't be left out!

- Want to keep up with all the events sponsored by the Friends of Peñasquitos? Get all the latest information and details by giving us your email address. Email your contact information to Mike Kelly at [mkelly1@san.rr.com](mailto:mkelly1@san.rr.com) or to Pat Watkins at [pwatkins2008@gmail.com](mailto:pwatkins2008@gmail.com).

## Friends' Directory

### Officers

President: Les Braund	858-566-3958
Vice-President: Don Albright	619.443.5937
Treasurer: Pat Watkins	858.538.2527
Secretary: Edward DiBella	619.563.0717

### Other Members of the Board of Directors

Jeanie Anderson, Anne Harvey, Mike Kelly, Mary Lueking, Janet Nelson, Brian Swanson

### Walk Leaders

Don Albright, Will Bowen, Diana Gordon, Arne Johansen, Mike Kelly, Linda King, Mary Lueking, David Robertson, Brian Swanson, Pat Watkins

### Committees

Conservation Chair: Mike Kelly, 858.342.8856  
 Newsletter: Janet Nelson, 619.519.3150  
[nelson.janet1@gmail.com](mailto:nelson.janet1@gmail.com)  
 Tracking Team Coordinator: Rick Botta,  
 858.672.0584  
 Webmaster: Beth Williams



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## Black Mountain Arsenic Mine

Volunteer clean-up information inside

Photos by Janet Nelson