



# *Torreyana*

A quarterly newsletter for  
Torrey Pines State Reserve

Vol. 1, Issue No. 2

April 1999

## **NEXT DOCENT SOCIETY MEETING**

**April 17 at 9 A.M.**

The guest speaker will be Ken Hedges of the Museum of Man in Balboa Park, who will talk on ethnobotany of our area.

**Note:** Please car-pool from the South Beach parking lot to the Lodge so that visitors will have parking space in the Reserve.

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### **A Message from Docent Society President Ken Baer**

At last month's general meeting we had a discussion of duties which docents perform that qualify as "valid" in the eyes of the Department of Parks and Recreation. I want to continue that discussion here so that we can have ongoing dialogue among docents and ranger staff to formalize a list of tasks docents perform.

The role of a volunteer at Torrey Pines State Reserve is under the premise that we are unpaid employees of the State of California. Of course, we identify ourselves to the public as docents, and in no way, shape, or form imply that we are ranger staff. Historically, making the Lodge available to the public was the role of a docent at TPSR. Our numbers continue to increase, and we have had an impressive response to the training program this year. I encourage all trainees to stick with the program through official docent status.

The duty calendar for the Lodge is currently filled through the next three months (much to the delight of Elaine Sacks and Ann Campbell, I'm sure!). We have endorsed the idea of opening Lodge duty for the time slot of 4 P.M. to 6 P.M. In months when sunset happens near 8 P.M., the additional Lodge duty hours can probably expand from 4 P.M. to 7 P.M.

(Continued on page 3)



## Tidings from the TPA

Freda Reid and  
Diana Gordon

The TPA's annual general meeting took place on Sunday, February 7, at the Lodge. Two new Counselors were inducted: Diana Gordon, a docent at the Reserve, and Robert Linn, a resident in the Del Mar Heights area. There is now a good mix of people from various parts of the cities of San Diego and Del Mar. Two long-time Board members are now on a mandatory year's sabbatical; the resignation of Counselor Nancy Weare was accepted with regret. The guest speaker at the meeting was Manfred Knaak, a retired DPR ranger and author of *The Forgotten Artists: Indians of Anza Borrego and Their Rock Gardens*. The talk was very interesting and informative, having to do with petroglyphs and pictographs of the Native American tribes in the area.

The TPA has sent out its first newsletter to all TPA members. The newsletter is intended to supplement the quarterly *Torreyana* and to inform members of breaking news on the environmental front which may need immediate attention.

A part-time secretary, Crystal Allegria, has been hired to take care of the increase in membership business. One of the Counselors has volunteered to collect and sort the mail from the La Jolla Post Office. Once again we thank the Sheltons for doing all this work since the passing of Elizabeth Nicoloff. MaryAnne Shelton was given an orchid at the March bi-monthly meeting in appreciation of her assistance.

At the March meeting the following new officers were elected: president, Opal Trueblood; first vice president, Bob Warwick; second vice president, Jan McMillan; secretary, Bob Coats; and treasurer, David Goldberg.

Ken Baer, Docent Society president, updated the TPA on some of the projects being considered by the Society, including new signs for the south entrance, and the upcoming celebrations for the 100<sup>th</sup> anniversary of the Reserve as a park and the 40<sup>th</sup> anniversary as a unit in the state park system.

Issues discussed but not acted upon at the meeting were ongoing proposals to widen the high and low bridges from the Lagoon mouth northwards, the proposed Sorrento Pointe development, the controversial Sorrento Valley Rd. closure, and the noise created by the Marine Corps Air Station Miramar helicopters (due to be doublestacked over the Torrey Pines Golf Course in July). Ranger Wohl updated the Counselors on a proposal by the Torrey Pines Planning Group to create a causeway in place of the low bridge at the Lagoon mouth.

## TPA Environmental Issues A Review of 1998 and Outlook for 1999

**Wildlife Corridor Under I-5** - TPA members and Reserve staff made many trips to the underpass area to assess the status and usage of the main wildlife corridor left that links TPSR to the mesas and valleys to the east. Its full usefulness can only be retained if there is no fence blocking it, if Sorrento Valley Road remains closed, silt management occurs, and riprap is removed. The TPA formed a Corridors Subcommittee to focus on this issue.

**Carmel Mountain** - The passage of Proposition M in the last election transferred 150 acres on Carmel Mountain to the City of San Diego. TPA assisted in funding and producing a video on this area, reviewed and commented on environmental documents, and met with city councilmembers with the goal of maximizing conservation. It is hoped that the State of California will eventually acquire this valuable area and create another TPSR "Extension."

**Sorrento Valley Road** - The part of this road along the east edge of the Lagoon has been closed during construction of the I-5/Route 56 interchange. The Coastal Commission, the Torrey Pines Planning Group, and some environmentalists want to see this portion of the road remain closed, while commercial interests and some residents want it reopened. Councilmember Harry Mathis has proposed a compromise plan to straighten the road and open it only during business hours. The TPA will closely scrutinize the forthcoming environmental document and has already written letters, participated on a task force, and met with city representatives.

**Sorrento Pointe** - This proposed development just east of the pump station would consist of 120,000 square feet of office buildings, two multilevel parking garages, and surface parking, which TPA believes would produce unacceptable direct and indirect impacts on the Lagoon and the Reserve.

**Lagoon Bridge** - There are widely differing proposals for replacing or renovating the bridges at the mouth of the Lagoon. A new "low bridge" over the Lagoon has been designed to increase tidal flow and approved by San Diego. San Diego wants a larger northern bridge while Del Mar wants safety retrofitting of the present bridge.  
(Editor's Note: The above is a condensation of a recent report by Counselor Courtney Coyle.)

### Periodical Information

Publication Title: *Torreyana*  
Issue Date and Number: See front page  
Publication Schedule: Quarterly  
Organization: Torrey Pines Docent Society  
PO Box 2414, Del Mar, CA 92014

## President's Message (Continued from page 1)

What about weekday guided walks? If docents find they have time on their hands during the week, why not offer a guided walk to weekday visitors? What about offering guided walks through the Extension, or along Los Peñasquitos Lagoon? Our role as interpreters and educators can be further enhanced by assisting the rangers with the heavy traffic at the entrance on weekends. A docent can hand out park maps and answer questions from people in cars in line, and the ranger can handle entrance fees and enforcement issues.

More often than not, the park map bin at the trailhead to Broken Hills Trail is empty. Each day we have 100 or more visitors entering the Reserve from the "unofficial" south entrance. These daily visitors work in the surrounding business area or are guests at nearby hotels. We offer scant information for them, and as a result find our most frequent violations: people with dogs, mountain bikers, picnickers, and trailblazers. Docents can assist to keep the area pristine with our presence.

We need help with writing grant requests. Generating revenue is a component of a docent program. The healthy economy has produced a surging stock market, which in turn has filled the coffers of corporate trust accounts. These foundations are tasked to donate money to nonprofit organizations. A letter and completed application for funds will most likely result in a grant from these foundations.

Our publishing program makes available a world of opportunities. We can publish an annual newsletter for the public, complete with updated park map, detailed information

on each trail, the Extension and the Lagoon, the historical significance of the Lodge, the 100<sup>th</sup> anniversary of the Reserve, and information on becoming a docent. We can publish individual trail maps, indicating specific flora and fauna found on those trails and likely blooming periods, and we can indicate likely months to see whales and dolphins off the coast. We can produce palm-sized booklets for members on trail patrol to give the public, providing reasons for not feeding birds, carving names in cliffs, trailblazing, and picnicking.

We have visitor surveys and volunteer surveys which need to be reviewed and tallied. We have busy work that can be done, like sweeping the outside entrance to the Lodge, cleaning the docent library room, cleaning the wood floors, weeding the Whitaker Garden. Why not offer to be at Red Butte, the Extension, or the Lagoon, adorned with the docent ID-hat, shirt, and badge, and be available to answer questions and have maps available?

The annual tally of docent hours does not include hundreds of hours, possibly in the thousands, that go unreported. Docents do not always put down the true amount of hours because the feeling is "it doesn't seem believable." It's important that, although we are volunteers, we are unpaid state park employees. If it takes 4 hours or 20 hours to complete a task, whether we get paid or not, we should report the full amount.

I encourage all of us to maintain the normal tasks we do in Lodge duty, trail hikes, children's program, interpretive patrol, trail maintenance, the mentor program, and to help when available with those additional functions that are quite necessary in maintaining a complete docent program. I welcome your feedback.

*Ken Baer*

## Docent Doings

**Awards** - At the March meeting President Ken Baer presented Honoree Awards to the following: Georgette Camporini for her years of representing TPDS in the County Docent League and CALPA, Kathy Estey for her work on the tee shirt project, and Margaret Fillius for her contributions in the children's program. Congratulations to these docents for this well deserved recognition.

**New Vice President** - Irv Hanson's resignation (for health reasons) as TPDS vice president necessitated finding a docent to serve in this position for the rest of the year. A nominating committee headed by Theo Tanalski was able to find an outstanding nominee, Walt Desmond, who was appointed by the Board (in accordance with TPDS bylaws) for the remainder of the 1999 term. Walt has been a docent for 11 years and served on the Board several years ago as Program and Activity Director, and he brings experience and commitment to this position.

**Welcome, Docent Trainees** - Twenty eight new docents are participating in the annual training now underway. Their occupations are quite varied, including educator, chemist, graphics designer, attorney, and cabinet maker. Three have docent experience with other organizations.

**Anniversary Celebration** - This year marks the centennial of TPSR as a park and also its 40<sup>th</sup> anniversary in the state park system. The actual date of the establishment of Torrey Pines Park was Aug. 10, 1899, but the celebration will be on Columbus Day weekend (date to be specified) this year to avoid a conflict with the large crowds of visitors during the summer. A docent committee is being formed to work with the Reserve staff to plan activities for the anniversaries.

**Children's Program** - At the March meeting, Barbara Wallach reported that 2,100 children have

already attended education programs at the Reserve this school year and that total attendance for the year is expected to exceed 3,000. Since its beginning about five years ago, this education project has grown beyond anyone's most optimistic expectations and is now possibly the most important volunteer program for the Reserve. Special thanks go to Barbara Wallach, Joan Nimick, and all the docents who participate in this work.

**Color Slides of Zimbabwe** - African animals, the scenic beauty of Zimbabwe's national parks, a helicopter view of Victoria Falls, and an international religious gathering at Harare are part of docent John Huber's slide presentation on Monday, April 19 (note new date) at 7:00 P.M. in the Lodge at TPSR. All docents and their friends are invited to this one-hour "Huberama" production.

In addition to his week-long African safari, John will show color slides of an Assembly of the World Council of Churches that brought 5,000 people together on the beautiful campus of the University of Zimbabwe last December. Many of the delegates were from third world countries, as their native costumes and ecclesiastical vestments indicate. A high point was an address by Nelson Mandela, the prisoner who became president of South Africa.

Thanks go to Ranger Greg Hackett, who will open and close the Lodge for this event.

**Bell Gardens Tour** - The County Docent-Volunteer Society has a reservation for a free guided tour of Bell Gardens on Monday, May 17, from 10 A.M. into the afternoon. This is the family farm of Glenn W. Bell, Jr. (founder of Taco Bell) and is an example of ecologically sensitive use of farmland in our county. It is located 45 miles north of San Diego and has a train, a hayride, crops for sale (organic, of course!), woody terrain, rocky creeks, and picnic tables to eat the brown bag lunch you bring. To spend a "day on the farm" with other county docents, please let Georgette Camporini know before May 7.

## Report from Ranger Bob

I remember a time, in the 70s in the winter, that I could sit in my office at the Lodge and listen to the quietness, as the rain fell gently on the roof and the trees.

Ah solitude! No staff to interrupt my reverie and chain of thoughts. No one to disrupt my writing of schedules and projects and reports. Scheduling in the slower season (there is no off season in S. Cal. coastal parks and definitely not at Torrey Pines) was a breeze! I had one maybe two rangers, besides me, and a lone park aide for everyone to delegate their workload onto, who came in to work only on the two weekend days and ran the kiosk. The downside was that invariably I was the only person in the office on sunny weekdays. It was a three-ring circus answering the phones, selling tickets, giving school programs, treating first aid patients, running out to handle emergencies and enforcement, and generally spinning around the Lodge and the museum helping the visitors, since the docent shift was only from 11 A.M. to 2 P.M. (Puff Puff).

Now I have a different dilemma! I can't walk through the Lodge and museum without banging into rangers, park aides, ESIs (that's shorthand for Mike Wells's burgeoning menagerie of Environmental Service Interns), college student interns (I added four this semester), curatorial interns (those were the three uniformed people crowded into the docent room for three months, combing through photos and artifacts and animals), research scientists, trail maintenance park aides, and over 100 docent volunteers!

And they are all wonderful people! And being their supervisor adds a little spice to my normal perambulation to the other side of the building. I can shoot the breeze every three feet with Chris or Greg, Jane and Bob, Jim Cassell (he's always there), or discuss creative projects and ideas with half a dozen people — and here comes Barbara Wallach. "Have you reviewed that packet of children's pamphlets that I left for you?" I'm now standing in Mike's office. Mike looks up calmly from some scientific paper he's perusing. "So Bob, what is it you came in to discuss?" I answer, "I haven't a clue!" He smiles beatifically.

Actually I'm not complaining. My days at Torrey Pines are rich and full, with many of my dreams and desires for the park and the staff coming to fruition,

with a continuous resurgence of new people, with new ideas, and good feelings. So looking backwards to the "good old days" only gives me a stiff neck and sore back. Today and tomorrow — those are the good old days.

For those of you who are not familiar with the cast of uniformed characters that have been roaming around the Lodge these past few months in the SLOW season:

State Park Rangers: Greg Hackett, Chris Platis, and Allyn Kaye

Associate Resource Ecologist: Mike Wells

Senior Park Aides: Stacey DeJane, Rick Thompson

Park Aides (Operations): Holly O'Meara, Denise Borg

Park Aides (Trails): Jody Hochstein, Nicki Tader, Todd Pryor

ESI: Charlie Kerns, Jamie King, Pamela Higgins

College Interns: Jeff Anderson, Kathy O'Malley, Adam Dietz, Christine Prowd

Park Aides (Curatorial): Dan Sack, Greg Olsen, Mayela Cervantes

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### A Letter to the *Torreyana* from Hank Nicol (former naturalist at TPSR)

The story on paleobotany (*Torreyana*, Jan. 1999) says, "There are more [Torrey pines] now than 2,000 years ago." If you look at Guy Fleming's map, you will see that there are many more Torrey pines now than in 1920. Guy Fleming, and a lot of other people including myself, planted Torrey pines. Big mistake!

The reason is obvious. Torrey pine roots spread a hundred or more feet from the tree. When we plant the trees 20, 40, or even 80 feet apart, they compete for scarce water and nutrients. Not only do they starve, they disobey the quarantine laws. Pests and diseases find an easy hop from tree to tree. I submit the worst thing we can do to perpetuate Torrey pines is to plant more of them. The more we interfere, the more we *must* interfere. The Golden Rule of ecology is "LEAVE IT THE HELL ALONE!"

Sincerely

*Hank Nicol*

## Notes from the Archives: The D.A.R. Trail

Maryruth Cox

The D.A.R. (Daughters of the American Revolution) Trail is one of four principal paths through the Torrey Pines Extension. To find it, we enter the north part of the Extension from Mar Scenic Drive, walk down the old pipeline road (Mar Scenic Trail) and take the first right.

One morning not long ago I walked on its sandy track, over the Eocene sands, through the pungent sage and dusky-green pines. Yellow-rumped warblers clicked in the brush, bees hummed in puffball blooms of ceanothus, and a Calif. towhee hopped ahead on the path oblivious to me. On my right jutted a red-brown sandstone bluff above the chamise and yucca; it is a remnant of the Linda Vista formation that was laid down as beach deposits a million years ago in early Pleistocene times when the glaciers of the Ice Age were beginning to lock up the waters of the sea. The trail climbed up to the top of the western ridge of the Extension, and I saw the sea dancing in the west (on a clear "after-the-rain" day, San Clemente Island is visible 60 miles offshore).

At the south end of the ridge there is a lookout point with remarkable views. To the west is the ocean, to the south the broad flats of Los Peñasquitos Lagoon below, and the hump of Torrey Pines hill across the valley. To the east is the long flat gap-toothed ridge of the eastern edge of the Extension where the rusty-brown Linda Vista Formation caps the creamy bluffs of Torrey Sandstone, which are "well-exposed in castellated erosional remnants" (Hertlein and Grant, 1944, p.41). Below the lookout point are the monuments of man: homes clustered along the north edge of the Lagoon, the railroad and highway that crisscross the marsh, the towers of the Golden Triangle that loom on the southeast mesa, and I-5 that roars with incessant traffic along the eastern border of the Lagoon.

What, I wondered, was it like 100 years ago? In 1889 the Coast and Geodetic Survey published a map of the Pacific Coast from San Dieguito Valley south to the border. On it we can see that the Extension lands have changed little in a century. But the railroad ran along the base of the hill across Del Mar Terrace and the upper end of the slough in those days. In fact, there was a branch line called the "Beach Shingle Railroad" that ran out to the beach from near the intersection of Portofino and Carmel Valley Road. Perhaps it hauled cobbles from the beach or an occasional tourist.

There were few roads a hundred years ago: the stage road (El Camino Real) ran near where the freeway does now; a faint track went into Del Mar along the north edge of the Lagoon (Carmel Valley Road); and a track came down a ridge east of the Lodge to the marsh and across the slough to emerge near Via Grimaldi (presumably used only by horses and men, not wagons). There was no coast highway, no bridges, and no rail tracks the length of the Lagoon. The configuration of the Lagoon entrance was quite different with no man-made obstructions. The waters emptied into the sea at the northwestern corner of Soledad Valley where the highway bridge over the tracks stands today. The rest of the beach was a long sand and cobbles bar.

Today Torrey Pines Extension is an oasis in a bustling metropolitan area. How lucky we are that it has been preserved!

Thirty years ago many concerned friends of Torrey Pines worked hard to raise money to buy the Extension land for the park. The DeAnza Chapter (North County) of the D.A.R. made conservation of the Torrey pine its bicentennial project. By September 1969 members had given \$300 to save three Torrey pines (at \$100 each; \$5 saved a monkey flower). The campaign didn't stop there. On April 4, 1970, at the present site of the D.A.R. Trail, 22 trees were tagged with their donors' names, and a trail was sponsored at \$10 a foot. The DeAnza Chapter continued to raise money and by 1971 had \$5,000 for its project. On Nov. 16, 1971, the D.A.R. Trail and grove were officially dedicated. A memorial plaque was installed on the western ridge, where it can be seen today. Mrs. F.J. Ford, state chairperson of the "Save the Torrey Pines" committee, spoke of the intent of the D.A.R. to continue raising funds to maintain the Trail and grove.

Today when I walk the D.A.R. Trail, I am reminded of the Navajo chant: "In beauty I walk - With beauty before me I walk - With beauty behind me I walk - With beauty above me I walk - With beauty around me I walk."

## A Few Nature Notes

### What Is a "Normal" Torrey Pine?

Vernie McGowan

As a follow-up to the article in the Jan. 99 *Torreyana* concerning needles per bundle in witches' brooms and normal Torrey pines, John Carson and I sampled three small to medium size pines in the area of the two parking lots near the Lodge on March 5, 1999.

After choosing trees at random (but not those sampled by John) with branches low enough to reach, we selected several branches and tallied needle bundles growing on sub-branches at several locations from the trunk to the tips. While the number of trees sampled is still too small to draw any general conclusions, it is obvious that there is a greater variation in needles per bundle than we had expected to occur. Unusual (at least to us) variations in needles also were observed. Tree #2 had needles somewhat longer than those on nearby trees, and the needles were thicker and stiffer than others we've seen.

A total of 636 needle bundles were counted in the three trees sampled. The results are summarized below (N/B denotes needles per bundle):

	<u>3N/B</u>	<u>4N/B</u>	<u>5N/B</u>
Tree #1 (15-18 ft. high)	7%	21%	72%
Tree #2 (30-35 ft. high)	30%	44%	26%
Tree #3 (30-35 ft. high)	4%	24%	71% (see note below)

Note: The total for tree #3 does not add to 100% because of rounding off.

We would like to sample more trees, especially from different areas in the Reserve and possibly some of the island Torrey pines at the nearby cancer institute on North Torrey Pines Road.

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### Fog Drip in the Redwoods

John Carson

The Jan. 99 *Torreyana* had a note about research on the role of fog in the redwoods. The journal article on this work is now available [1], and the results are summarized here because of their possible relevance to fog and the Torrey pine.

Dr. Todd Dawson (Cornell U.) conducted the research during 1992-94 at redwood sites between Arcata and Crescent City in northern Calif. A key factor in the project is the isotopic composition of water sources: fog has a greater concentration of the heavier isotopes  $^2\text{H}$  and  $^{18}\text{O}$  relative to rain in the same region, which makes possible the evaluation of the roles of rain and fog for plants. Many measurements were made of water at 0.2 and 1.5 m below the soil surface, the xylem water in the main plant species, fog drip, and rainfall.

The main conclusions are: a) during the three-year project, one third of the annual water input to the plants was from fog drip off the redwoods; b) in areas with no redwoods, only one sixth of the water was fog drip, showing the importance of the redwoods as fog collectors; and c) for the redwoods, most of the fog-derived water was from the root system and not through foliage absorption.

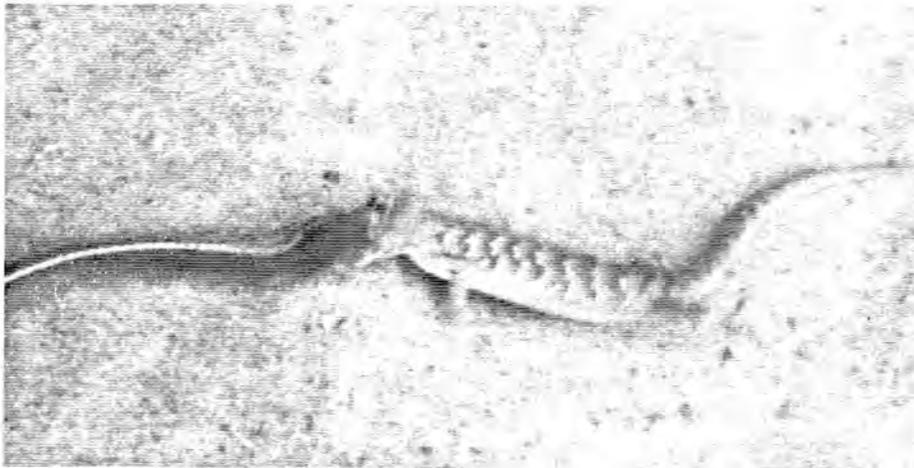
This work provides quantitative support for the long held view that fog drip can be an important source of water for plants, including trees. But can these results be extended to the Torrey pines in the Reserve? My own opinion — and it's just that — is, probably not. The Torrey pines simply don't have sufficiently large surface areas for appreciable fog collection, and the fog here doesn't appear to be as dense or occur during as many months as in northern Calif. As Hank Nicol pointed out in a letter to the *Torreyana* a few years ago, fog drip from the pines never penetrates through the surface layer of needles and duff on the ground. Absorption of fog moisture through the needles is still a possibility that ought to be investigated.

1. Dawson, T.E., Fog in the Calif. redwood forest: ecosystem inputs and use by plants, *Oecologia*, vol. 117, #4 (1998).

Note: My thanks to Maryruth Cox's husband, Charles, for obtaining a copy of this article for me.



Ranger Bob with a skull, bones, and baleen from two gray whales that washed ashore at TP State Beach a few months ago. The display (but not always with a ranger) is by the overlook east of Torrey Circle.



A striped racer and an alligator lizard lock jaws.  
Witnessed by docent Margaret Fillius and ESI Jamie King on the southern loop of the Guy Fleming Trail last fall. The confrontation ended in a draw, with both retreating.  
(Insufficient lighting made for poor contrast in the print)

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**Insect Alert** - While the arrival of the Africanized bees in San Diego did not occur several years ago as originally expected, they are now here. They have been found in Fallbrook and the Tierrasanta community in San Diego. Also, in recent months fire ants have been found in numerous locations in Orange County, and now they have been found in San Marcos. So expect to see these pesky insects in your area soon, including TPSR.

**Torrey Pines Docent Society Board**  
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Rangers ..... Greg Hackett  
Allyn Kaye  
Chris Platis  
Resource Ecologist ..... Mike Wells  
ESI ..... Charlie Kerns  
Jamie King, Pamela Higgins  
Senior Park Aides .. Rick Thompson  
Stacey DeJane  
Park Aides ..... Denise Borg  
Jody Hochstein, Holly O'Meara  
Todd Pryor, Nicki Tader

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**Address Changes Go To:**  
Torrey Pines Docent Society  
Shirley Musser, Membership Chair  
PO Box 2414  
Del Mar, CA 92014  
TPSR Lodge Phone: (619) 755-2063

**Torrey Pines Association**  
PO Box 345  
La Jolla, CA 92038

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The *Torreyana* is issued by the Torrey Pines Docent Society, which gratefully acknowledges the assistance of the TPA in its production.

**Addendum - Notes from the Archives in the  
Nov. 98 *Torreyana*  
Maryruth Cox**

In this article I asked: "What if we had 40" of rain in one month, as happened in 1916?" I apologize for not making this question more clear. I meant "as happened in 1916 in San Diego County." In January of 1916 there were unusually heavy rains in San Diego County. According to *Climatological Data*, published monthly by the Weather Bureau of the U.S. Department of Agriculture, in January of 1916 there were three severe storms plus intermittent rain. Nine weather stations throughout the county recorded the downpours. The totals for the month ranged from 7.56" in downtown San Diego to 44.41" at Nellie. Unfortunately the La Jolla station, the closest to Torrey Pines, had no rainfall records for that month.

Now where is, or was, Nellie? Intrigued, I asked the map librarian at SIO, who spent a good deal of time tracking "Nellie" down. He found an old U.S.G.S. map (1933). We knew from the climatological data that Nellie was at an elevation of 5350 feet, so we looked along the 5000 ft. contours. Finally we spotted it on the Palomar Mountain block, near Birch Hill. Alas, the name "Nellie" is no longer used.

In 1885 heavy rains in north San Diego County washed out the newly laid tracks of the California Southern Railway. Reputedly more than 40" fell in one month, but the climatological data only go back to 1897. We will have to find other evidence to document this story. Also, if anyone has rainfall records from the Torrey Pines area, please let me know.

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**Editor's Note:**

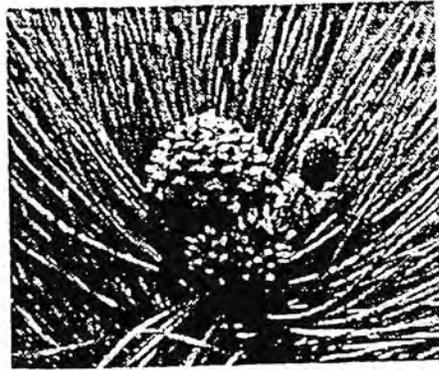
My thanks to the contributors to this issue and to those dependable docents who provide vital services connected with the production of the newsletter: Jack and Joann Cannon, Marion Dixon, Twinx Hauer, and Jeannie Smith.

*John Carson*

Guest Editor for the April 99 Issue

Torrey Pines Docent Society  
P. O. Box 2414  
Del Mar, CA 92014

**TORREY PINES**



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SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
				1 L STEIN L	2 L WATSON L SHAW	3 L CAMPBELL W FERGUSON L SMITH W HULL
4 L SCHULMAN W CASSELL L SCHULMAN W STIEGLER	5 L RUDOLPH L HUBER	6 L DIXON L DE WITT	7 L GAARDER L AMANNS	8 L FERGUSON L SHAW	9 L BEYER L GITTELSON	10 L WEIR W D E MILLER L HAUER W PAXTON
11 L GRAIN W ROBERTS L CAMPBELL W KAMEN	12 L GRANTHAM L R MILLER	13 L TALBERTS L DE WITT	14 L MARGULIES L COOPER	15 L KATZ L PFLEEGER	16 L GRANTHAM L PFLEEGER	17 MEETING L PARNELL W BRAV L PARNELLWATSON W BRAV
18 L PHILLIPS W CASSELL L SMITH W SIEGLER	19 L STIELS L R MILLER	20 L MARGULIES L WEIR FREDERICKS	21 L D E MILLER L FREDERICKS	22 L RUDOLPH L HANSEN	23 L GAARDER L GITTELSON	24 L GRAIN W PAXTON L DIXON W PAXTON
25 L PHILLIPS W D E MILLER L BRICKELMAIER W KAMEN	26 L STIELS L HUBER	27 L TALBERTS L HANSEN	28 L BURNS L COOPER	29 L FERGUSON L KATZ	30 L BURNS L RANDOLPH	

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