



TORREYANA

*A newsletter for
TORREY PINES
STATE NATURAL
RESERVE*

Volume 11, Issue 3

May 2010

Geology of Torrey Pines

by Richard Chance

Photo by Herb Knufken

The guest speaker for April was Lisa Tauxe, Professor of Geophysics at Scripps Institution of Oceanography. Her research interests are in the behavior of the earth's ancient geomagnetic field, and she teaches a variety of courses in geology.



Lisa began by defining Geology as the study of the Earth, the materials it is made of, its structures and the processes acting upon it. Geologists also study what Earth is like now and how it came to be, including organisms and how they change through time. Geologists make maps showing what rocks are in a particular place and why they are there.

Continents as we know them were forming late in the Cretaceous period,

around 70 million years ago, as tectonic plate movement took place. The beaches were created in the Eocene, about 50 million years ago. Some formations in Torrey Pines State Natural Reserve are from one to five million years old, while others date from about 200,000 years ago. It was only 20 million years ago that mammals similar to ones that exist today evolved. There were no humans as we know them until about 14,000 years ago.

The Eocene is a very interesting time for the development of the Torrey Pines area. The record of the Eocene in Torrey Pines is "submarine," where the subduction took place and where erosion was happening in the mountains. Deposits for the Eocene period are underneath the cliffs and in canyons and can be found in the sandstone. In Torrey Pines the subduction was still going on in the Eocene, but was much shallower, so active volcanism stopped in our area, but continued in what is now Arizona. As the volcanoes cooled they became known as batholiths, or deep rocks, and during the Eocene these were uplifted. The erosion and breakdown of these volcanic mountains produced the bulk of rocks we see in our area today.

The Eocene was the last time there was as much CO₂ in the atmosphere as we have today. There is active debate on why this was true, and some believe a comet may have hit

Next General Meeting

May 8, 2010 9 a.m.

St Peter's Episcopal Church
Rec Hall
334 14th St
Del Mar

Program: **Four short presentations,
one by each of the four 2010 TPDS
Science Fair winners**

our atmosphere. Others say that methane trapped in the earth was being released, but it is still a mystery. There were no ice caps, and trees were growing in the Antarctic. The earth was very hot, and there were mammals such as Lemurs living in the arctic. The sea levels were 80 meters higher than today.

After the Eocene, about one million years ago, the Linda Vista layer was formed on top of the sandstone formations. However, there was an entire period of time that is "missing" in the geological record. It was eroded away about 5 million years ago, so the Linda Vista is actually on top of a much older layer, the Torrey Sandstone. Linda Vista is the easily recognized red rock at the top of our cliffs where you also find the marble-sized concretions. Linda Vista deposits were left as the sea retreated, and make up the beach ridges at Torrey Pines as well as the

(Cont on page 3)

The Torrey Pines Docent Society publishes the *Torreyana* bi-monthly, edited by Bobbi Kueger. On alternate months, the Society publishes the *Torrey Pinecone*, edited by Lillian Lachicotte. Both publications include the monthly duty calendar, announcements and information concerning membership meetings. Submissions for either publication are due on or about the 20th day of the preceding month and may be submitted to Editors@torreypine.org.

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TPDS www.torreypinesreserve.org
or www.torreypine.org

TPA www.torreypines.org

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TPDS Board Members:

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Dirs. of Duty Coordination, Irene Larrimore & Barbara McCardle
Extra newsletters are available in the Docent Library.

TPSNR Staff:

Supervising Ranger: position open
Rangers: Kyle Knox, Mike Winterton
Sr. Park Aides: Larry Adelson, Jamie Burton, Diane Greening (Interpreter), Christy Hollingshead, Laura Lowenstein (Volunteer Coordinator), Louis Sands
Park Aides: Kyle Conner, Troy Garcia, Vanessa Rivera

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Many thanks to Guest Editor Richard Chance and the docents contributing to this newsletter and to Copy Editors Walt Desmond and Lillian Lachicotte. And thanks to Vernie McGowan for mailing and distribution.

Roger Isaacson
Publication Coordinator

From the President

Good news from Sacramento! The initiative campaign has collected well in excess of the 700,000 signatures the Committee believed would be necessary to qualify the initiative for the November ballot. Now the real work begins. Since we have reached our goal so early, the Parks Initiative should be one of the first propositions on what looks to be a crowded slate. The consultants to the Committee believe that being one of the first two or three measures could be good for our cause, since voters will see "Yes on Parks" before they begin suffering "Ballot Burnout" further down the list. We will be hearing more in the near future about what can be done to support the measure and get it passed. I will be approaching local organizations to speak before their groups on the initiative. We need to coordinate this effort with the Committee to ensure that supporters speak with one voice. The Committee will produce consistent talking points and may even be able to provide us with Powerpoint slides to accompany our presentations. Stay tuned.

There has been some confusion about the parking situation at the Reserve. As many senior docents know, docents used to sell State parking passes from the ranger "window" at the Visitor Center. The lodge duty docent would stamp and sell the day use pass and deposit the receipts in a cash drawer in the staff office. This procedure was discontinued about 5 or 6 years ago when Jody Kummer convinced DPR management to hire enough park aides to keep the kiosk open year round. With budget cuts the kiosk was not manned all of the time, and parking was free during times when the kiosk was closed. We were allowed to tell visitors that parking was free, but they could make a donation to our box at the front door. This practice continued even after the new pay station and iron ranger were installed about two years ago. Our donation practice should have ceased at that time. However, because we thought that there was no way for visitors to pay when the pay station was down (not knowing that the iron ranger was there), we allowed the practice to continue. It must stop. All visitors must be told that they should proceed back down the hill and pay at the iron ranger. The only exceptions are school groups, special walks and other groups that are approved in advance by the staff. This may create some consternation among our visitors, but it's the law. Any of you with questions, feel free to contact me directly and I'll try to explain further.

Save the Parks! Please!

Rick Vogel

President,
Torrey Pines Docent Society

(Cont from p. 1)

Clairemont and Kearny Mesa ridges.

The youngest deposit in the park is the Bay Point formation and is only about 200,000 years old. It is younger than the Linda Vista, even though the Linda Vista is higher above sea level due to uplift. The Bay Point formed when the sea level had dropped, and that accounts for it being lower than the Linda Vista. The Bay Point forms a "bathtub ring" all around the park about 100 feet above sea level. It is made of near-shore marine deposits where you often see fossils of oyster shells and other marine animals.

Torrey Pines State Natural Reserve is a fascinating study in geology and continues to be a focal point for research into the earth's geological history.

Docent Society General Meeting

April 10, 2010

by Secretary Bill Eckles; complete minutes in docent library.

Photo by Herb Knufken

Ken King, filling in for President Rick Vogel, called the business meeting to order at 10:35 a.m.



Margaret Pluth, Docent of the Month

The **Docent of the Month**, from the graduating class of 2009, was **Margaret Pluth** especially for her

work organizing refreshments for the training class. Thank you, Margaret!

Sharon Thompson and Ken King went to the taxidermist to pick up the repaired coyote and a Cassin's Kingbird. The taxidermist suggested using pelts rather than the stuffed animals for Lodge visitors to experience the fur textures... apparently our coyote was showing signs of wear beyond the torn ears. This is a good suggestion that the board will consider.

A "situation" concerning docents collecting money for parking passes from reserve visitors when the south kiosk is vacant has surfaced and had been discussed by the board of directors. For at least the time being, docents are mandated to direct visitors requesting parking passes to return to the "Iron Ranger" near the entry kiosk at the bottom of the hill. Likely, this situation will not change, but the board of directors will continue to seek less cumbersome solutions. Several suggestions were heard from the docent membership:

- Can docents deposit parking fees for the visitors using envelopes stocked in the Lodge?
- Can we have better signage at the kiosk relating to this situation (vacant kiosk)?
- Can docents take the money and account for it to the state?

Should we produce a video demonstrating the inconvenience of returning to the reserve entrance on a high traffic day? Perhaps the administration does not understand the difficulty.

- A new supervising ranger may be hired soon which would help alleviate this situation.
- Can we suggest the visitors pay on the way out without risking getting a parking ticket from the ranger staff?

Laura Lowenstein suggested that she could take the money for parking when she is around the Lodge.

This is a trying issue that needs an improved solution.

Sally Whitlock reported that the Science Fair was well attended and well evaluated. It will provide presentations from four awardees at next month's meeting. Judges included **Lou and Joan Adamo, Frank Burham, Walt Desmond, Wes Farmer, Bill Key, Sheldon and, Lillian Lachicotte, Paula Shaw, Rick Vogel and Sally Whitlock**.

The Treasurer's report from Ken again reflected good Museum Shop sales which produced a positive cash flow in spite of relatively high expenditures. Donations continue above previous levels, no doubt reflecting the increased unattended situation at the entry kiosk referred to earlier.

Children's Program: (Tony Summers) The April 2nd training program was good using the YMCA group.

Lodge Duty: (Barbara McCardle) Thank you to those who have found substitutes on their own and another thank you to those willing to fill in on short notice. Some concern was expressed about losing duty volunteers because of apprehension with the Point of Sale system. This was found to not be a big issue and several docents volunteered to assist in training those who were apprehensive.

Ken interjected that the San Diego Women's Foundation would announce those who made the "next cut" in consideration for a grant, this in mid-April.

Communications: (Lou Adamo) Last month Lou asked for volunteers to write newsletter articles on various TPSNR subjects. He has already heard from a couple docents and expects good participation in the future. Special thanks go to **Roger Isaacs** for work on the computer system hardware, especially for installing a new laser printer.

Museum Shop: (Nancy Woodworth) Nancy commented on the high sales at the Lodge and thanked the docents for their support and assistance. Timing is good to sell flower brochures and the variety of books we have on wild flowers.

Recycle: (Frank Burham) *One Earth* is now open only on Friday, Saturday and Sunday.

The BioBlitz will occur during the 24 hour period from 3:00 p.m. May 21 until 3:00 p.m. May 22. Docent volunteers are needed for this activity, but scientists recruited by the San Diego Natural History Museum will do the species counts.

Membership: (Ken King for Walt Desmond) **Carol Smith** will help with the membership activities with the objective of taking over for him at a future date.

Special Walks: (Margaret Fillius) The season has been relatively slow this year. Special thanks were received from what used to be *Elderhostel* but is now *Exploritas*, consisting of rave reviews and thank you's for participating docents when they were here.

Ken adjourned the meeting at 11:20 a.m.

Tip of the month for Lodge Duty Docents

by Ken King

One of the ways you can help keep our sales records straight and maintain a healthy supply of coins and bills in the POS cash register drawer is to follow these easy rules:

1. At the end of the day, remove only \$20s (and larger bills), checks, and credit card receipts.
2. Put them in one of the envelopes that are in the locked desk drawer. It's ok to leave them in that drawer if no one's around to unlock the "safe room" next to the rangers' office.
3. The remainder of the cash gets clipped with the big binder clip and placed in the locked desk drawer. The morning docent will put those bills back in the POS drawer.
4. You will find rolls of coins (usually!) in the locked desk drawer. "Buy" those rolls by taking cash from the POS cash register drawer and adding the coins to the POS drawer.

5. If you have too many of any type of coin feel free to roll them (sleeves are in the desk) and "sell" them to the locked desk drawer, taking cash from there in return.

I come in once a week to balance out the cash and coins, but on busy days you may still run short of change. Feel free to call me and I'll drop by with money!

Children's Program Update

by Tony Summers, Children's Program Director

The children's program operates from late September to the end of May, so the end is near -- at least for this year.

Like everyone who visits the reserve, the children have been enjoying the wonderful display of spring blooms and the lush foliage, and the docents have been enjoying the delightful thank you letters from kids.

On Friday, June 4 we will have a potluck wrap-up session to discuss what went well this year, what problems came up, and what we can do better in the next school year. We will also plan a couple of training sessions or workshops over the summer. All Children's Program participants are encouraged to attend the wrap-up. Other docents and trainees are also invited. Please let **Laura Lowenstein** know if you will be there.

Library Note

Docent-in-training, **Linda Zlotnik**, recently volunteered to join the library committee. In addition to the voluminous docent training materials she has to master, Linda is also learning all the operational activities of the TPDS library. These include preparing books and DVD's for inclusion in the library collections, updating the book and DVD/CD catalogs, proper reshelfing of returned items, printing jacket covers for DVDs, and, (beware all late returners) how to track down and retrieve overdue items. Welcome Linda!

Mike Yang, TPDS Library

Shirts and Badges

The Training Team will soon be ordering badges and shirts for the trainees. If any docent wants to order an extra badge or a docent shirt, please contact **Sherry Doolittle** (sherry@doolittles.net) or **Jeannie Smith** (HeyJeannie@sbcglobal.net) for details.

EARTH DAY EFFORTS

by Steve Tarkington

What a difference many hands make in any endeavor. Earth Day started with signing in and getting our assignments.



We were greeted by our organizing park aides, **Laura Lowenstein** and **Diane Greening**. Their boss and North Sector Superintendent for all of our local State Parks, Brian Ketterer was on hand to welcome and encourage all Earth Day volunteers. One of our youngest volunteers was Everett Head, age 5 years.

The Whacky Weeders were to begin planting a cleared area. As the photos show, there was a lot more weeding and clearing than we expected.



At our location at the north end of the Extension we had docents **Cecily Goode** and her husband John, **Carolyn Butterfield**, **Darlene Farnes**, **Roger Isaacson**, **Sharon Clay Rose** and State Senator Christine Kehoe stopped to help out. Our work was directed by

Darren Smith, the State district botanist. (below, front)



The rest of our crew included Darren's sister Chelsea, parents and children from the school district along with the Del Mar School District's Director of Facilities and Maintenance, Randy Wheaton, and a hard-working group from a local Carmel Valley Rd. business called Mindful Mentoring that tutors students. They plan on helping regularly on Carmel Valley Rd.

All in all, a lot gets accomplished with many hands.

Torrey Pines Historical Files: The Struggle, or the story of the Guy Fleming house, 1975 to 1981, from the Torrey Pines Historical Files-

Part 1 of 3

by Maryruth Cox

If you climb up to High Point and look north, you can see the Guy Fleming house, a modest two story structure tucked into the hillside, looking for all the world like a chunk of Torrey sandstone with windows. Guy Fleming and his father built the house in 1927. It was paid for by Ellen Browning Scripps, who believed strongly that the park needed a live-in caretaker and that he should be Guy Fleming.

The Fleming family lived there for 31 years until Guy retired. After that a succession of park employees lived in the little house, but by 1975 its hazardous wiring, dubious plumbing and peeling paint made life there difficult. The state park was strapped for funds and there was talk of tearing down the house and garage to save on

maintenance costs. Jack Welch, DPR manager, asked the park staff to "defer all painting and repair to the residence until our new supervisor comes on board."

Alarmed by this threat to the historic building, Tom Whitaker, president of the T.P.A.(Torrey Pines Association), asked "how much would the needed repairs cost?" Godwin, the new supervisor, looked over the building

and estimated it would take \$30,000 to put it back in shape.

That was a lot of money! Jessie La Grange, Bob Wilson, and John Fleming (son of Guy), members of the T.P.A., formed a committee to discuss the problem. They were especially concerned that the residence be kept livable to provide housing for a park employee, who could be round the clock security for Torrey Pines. They suggested removing the garage and keeping the second floor of the house reserved for storage to cut the cost of repairs.

The state was unconvinced: "Rangers are not going to work round-the-clock." "Maybe the ranger will have a car" (and need a garage). "About the security issue, the house doesn't do it. Night patrol is a more valid solution."

But the committee found that a night patrol would cost \$32,000 a year, whereas the cost of the house repairs, \$30,000, could be spread over ten years at least. They wrote to the park officials: "The main issue has not been acknowledged by the State, that is, 24 hour security protection for Torrey Pines."

Jim Whitehead, DPR superintendent, replied right away: "I recognize the sentimental value of the residence. I do not believe it is the most effective way to protect the Reserve." (The public restrooms had recently been vandalized at night despite the presence of a ranger in the residence.)

The committee, undeterred, snapped back: "Pt. Lobos, similar in acreage to Torrey Pines, has seven ranger residences. Torrey Pines needs a resident ranger *and* a night watchman."

The controversy was unresolved. In the fall of 1976, Herbert Rhodes, director of the States Parks, wrote a placating letter: "We all agree Torrey Pines needs protection. We're doing our best, but resources are limited." (Part 2 next month)

HisTorrey: A thru Z; The letter M (Music in the Pines)

by Judy Schulman

When we think about the music of Torrey Pines, what comes to mind? The rustle of the wind blowing through the trees? The twittering of songbirds? The roar of the waves crashing on the beach? How about a lament about the loss of love?

In 1941, Alex Johnson, the last known proprietor of the lodge restaurant, copyrighted a song *Memories of Torrey Pines*. The lyrics may have described his feelings when his wife left him. Quin Harris arranged the music.

You were dressed in turquoise blue the last time that I saw you

High among the cliffs at Torrey Pines

Tho you didn't say you were leaving, I had a feeling you were for somebody new

But there'll maybe come a time

You'll wish to be among the pines

And I'll be waiting there sweetheart for you

Oh when we strolled along the lane

Will it ever be the same

Just to be among the wild flowers all in bloom

So please bring her back to me, the little girl that used to be

High among the cliffs at Torrey Pines

For more information about Alex Johnson, please refer to John Carson's article "The Restaurant Owners of the

Torrey Pines Lodge," in the March 1998 *Torreyana*. I have been able to find two other pieces of music written about Torrey Pines. In *La Jolla Suite*, pianist/composer Edward Weiss wrote a solo piano work called *Torrey Pines*. Produced in 2000 by Quiescence Music, the CD liner states that *La Jolla Suite* combines the beauty of nature with 12 original piano compositions. *All in a Garden Green* (Willowwood Music, 2008) features Celtic harpist Sheila Jaffe and flutist Kathy Link. Their CD features instrumental arrangements of Renaissance, Celtic, classical, traditional and original songs. They have one piece called *Torrey Pines*.

Idexx QuantiTray method was used to determine the approximate level of contamination from coliform and *E. coli*. The results of the tests were calculated using the Most Probable Number (MPN) index for comparison.

This study showed that there is a stable presence of *E. coli* and coliform in the San Diego River. The *E. coli* results showed evidence of a correlation between the location (rural vs. urban) and the bacterial count. Rain also impacted the *E. coli* bacterial levels. There was no apparent association between the water or air temperatures and the bacterial counts. Coliform results did not show any association overall with any of the hypothesized factors.

The *E. coli* data supported the hypothesis that the bacterial count would be different based on geographic location and precipitation. However, the data did not support the hypothesis that the bacterial count would fluctuate with

the air or water temperatures. Coliform did not appear to be affected by any of the hypothesized factors. The most rural location reported the lowest bacteria levels overall of the four sites.

A special thanks to the Imperial County Public Health Lab

Director Holly Maag and to my mother who provided transportation to sampling sites and lab.

TPDS awarded Kylie Tumulak, an 8th grader at Pershing Middle School, for her project entitled "Ocean Waves--Size Them Up, Do They Change Sand Buildup?"



Kylie Tumulak Photo by Bill Key

Below is a report based on Kylie's abstract for the fair, and follow up discussions and interviews by judges Walt Desmond and Lou Adamo.

One of Torrey Pines' wonders is the seasonal beach. We know that sand on our beaches doesn't just sit there, but moves under the complex influence of many factors, baring and burying an enormous bed of cobbles in going from the winter beach to the summer beach. Unknown to Kylie, this beach has been the site of a continuing research study of wave-driven sand transport for several years. Kylie's project studied one aspect of this complex system, the relationship of sand buildup and wave height. Kylie determined from background reading that wave action on the beach is a combination of forward movement, swash, and backward movement, backwash. With swash greater than backwash, constructive action occurs. If the backwash is greater, destructive action results in loss of beach sand. Kylie decided to isolate one factor, wave height, and studied its influence on sand deposition. She hypothesized that the more energetic, higher waves would be able to carry more sand, and thus build up higher deposits. Reviewers were impressed with the test system she designed, a rocker box that could reproducibly generate waves of selected heights.

Science Fair Project Awards

San Diego River and Factors Affecting Its Water Quality

by Maia Moran, Marshall Middle School, grade 8.

The objective of this project was to determine the presence of *Escherichia coli* and coliform in the San Diego River. The factors studied include water temperature, air temperature, precipitation, and rural versus urban settings.



Maia Moran Photo by Bill Key

Four sites along the San Diego River were selected for water sampling. Samples were collected at each site on 15 different days between August 2009 and April 2010. Air and water temperatures were measured, and precipitation within the past 48 hours and wind conditions were noted. The

During the design phase several problems were encountered and solved by redesign of the apparatus and the sand type used.

Looking only at sand deposits beneath the water surface, the effects of wave height alone could be isolated. With the final test system, Kylie was able to do large numbers of trials at each of three wave heights. These resulted in tightly clustered measurements of sand heights at each wave height and highly significant differences among the sand deposited by each group. The data clearly supported the hypothesis that the amount of sand buildup is a direct function of the wave height. Kylie will discuss ideas for further investigation into wave action factors.



Our Endangered Snowy Plover by Jack Friery

The Western Snowy Plover is a threatened small shorebird often found on Torrey Pines beach north of the lagoon mouth. Snowy Plovers nest directly on the beach. Plover nests usually contain three

tiny eggs, which are camouflaged to look like sand and barely visible to even the most well-trained eye. Plovers will use almost anything they can find on the beach to make their nests, including kelp, driftwood, shells, rocks, and even human footprints. Snowy Plover chicks leave their nest within three hours of hatching. They flatten themselves on the ground when a parent signals the approach of people or potential predators.

Ed note- To learn more, there is a website: westernsnowyplover.org



Snowy Plover at Torrey Pines April 3, 2010

Photo © Herb Knufken
Please contact the photographer before using an image for any reason:
herb1rm@hotmail.com

Herb's amazing photo site is
www.pbase.com/herb1rm

Torrey Pines Docent Society Bird Survey: April 3, 2010

Number of species: 84

Gadwall 11	Black-crowned Night-Heron 5
American Wigeon 4	White-faced Ibis 50
Mallard 16	Osprey 1
Blue-winged Teal 2	Red-tailed Hawk 2
Cinnamon Teal 2	American Kestrel 1
Green-winged Teal 8	Common Moorhen 1
Lesser Scaup 13	American Coot 27
Surf Scoter 1	Snowy Plover 10
Bufflehead 14	Semipalmated Plover 24
Red-breasted Merganser 2	Killdeer 2
California Quail 17	American Avocet 1
Pacific Loon 2	Willet 11
Pied-billed Grebe 2	Whimbrel 4
Western Grebe 68	Marbled Godwit 6
Clark's Grebe 3	Sanderling 8
Brown Pelican 8	Least Sandpiper 7
Brandt's Cormorant 4	Bonaparte's Gull 6
Double-crested Cormorant 9	Heermann's Gull 2
Great Blue Heron 1	Ring-billed Gull 3
Great Egret 6	Western Gull 6
Snowy Egret 12	Royal Tern 4
Green Heron 1	Mourning Dove 6

Greater Roadrunner 1

Anna's Hummingbird 30
Rufous/Allen's Hummingbird 11
Downy Woodpecker 1
Northern Flicker 2
Black Phoebe 14
Ash-throated Flycatcher 1
Cassin's Kingbird 1
Western Scrub-Jay 3
American Crow 6
Common Raven 15
Northern Rough-winged Swallow 71
Bushtit 23
Bewick's Wren 15
Marsh Wren 5
Ruby-crowned Kinglet 2
California Gnatcatcher 2
Hermit Thrush 1
Wrentit 27
Northern Mockingbird 2
California Thrasher 6
Phainopepla 1
Orange-crowned Warbler 12

Yellow-rumped Warbler 8
Common Yellowthroat 20
Spotted Towhee 8
California Towhee 21
Savannah Sparrow (Belding's) 13
Song Sparrow 17
White-crowned Sparrow 21
Golden-crowned Sparrow 3
Black-headed Grosbeak 1
Red-winged Blackbird 20
Brewer's Blackbird 2
Brown-headed Cowbird 1
Hooded Oriole 4
House Finch 38
Lesser Goldfinch 8
American Goldfinch 1
House Sparrow 4

Observers: Will Cox, Gary Grantham, Don Grine, Herb Knufken, Jack Friery, Blair Francis, and Anonymous

Previous Bird Surveys may be found at torreypine.org/activities/bird-sightings.html



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May 2010 TPDS Visitor Center Duty Calendar- Updated 4/28/10						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Lodge Duty Hours L- 9-12 L- 12-3 L- 3-6	Walks W Sat/Sun/Hol 9:30 (Start 10:00) W Sat/Sun/Hol 1:30 (Start 2:00)					1 L- McGee W- Sanseverino L- W- Farness L-
2 L- Chance/Anderson W- Killermann L- McCadle W- Kamen L- Heinemann	3 L- L- Dewhurst L- L- L- Heinemann	4 L- Marshall L- M Lewis L- Lombardi/Lay	5 L-C&B Hornbeck L- Fiorentino L- Heinemann	6 L- Tarkington L- Usher L- B&F Eckles	7 L- Alper L- L- L- L-	8 2x hrs Meeting L- W- L- Benton W- L-
9 L- Rowbottom W- L- W- Geist L- L- L- Heinemann	10 L- L- Phillips L- L- Heinemann	11 L- L- Usher L- Lombardi	12 L- Sogo L- Fiorentino L- Heinemann	13 L- Bogan L- M Lewis L- L- Martineau	14 L- Bogan L- L- L- Martineau	15 L- W- Sanseverino L- Hartung W- Geist L- Hartung
16 L- Schulman W- L- Schulman W- Brav L- L- L- Heinemann	17 L- L- F Doolittle L- L- Heinemann	18 L- Marshall L- Ivany L- Lombardi/Lay	19 L- Tarkington L- Fiorentino L- Heinemann	20 L- Bogan L- M Lewis L- B&F Eckles	21 L- Burke L- L- L-	22 L- McGee W- L- W- Stiegler L-
23 L- W- Rowbottom L- Phillips W- L- Hartung	24 L-F Doolittle L- L- L- L- Tozer	25 L- L- Ivany L- L- L- Farness W- Killermann L- W- L- Tozer	26 L- L- L- L- L- Farness W- Killermann L- W- L- Tozer	27 L- Alper L- Usher L- L- L- Farness W- Killermann L- W- L- Tozer	28 L-Burke L- Martineau L- L- L- Farness W- Killermann L- W- L- Tozer	29 L- W- L- W- L-
30 L- W- L- W- L-	31 2x hrs MemDay L- L- L- L- L- Farness W- Killermann L- W- L- Tozer	To sign up for an opening, call docent on duty (858 755-8219) to confirm the time & write your name in the Logbook. If you cannot do your duty, please try to find your own substitute by switching with another docent or using the short-notice list. Then call the docent on duty to make the change in the Logbook. Coordinators: Irene Larrimore & Barbara McCadle				