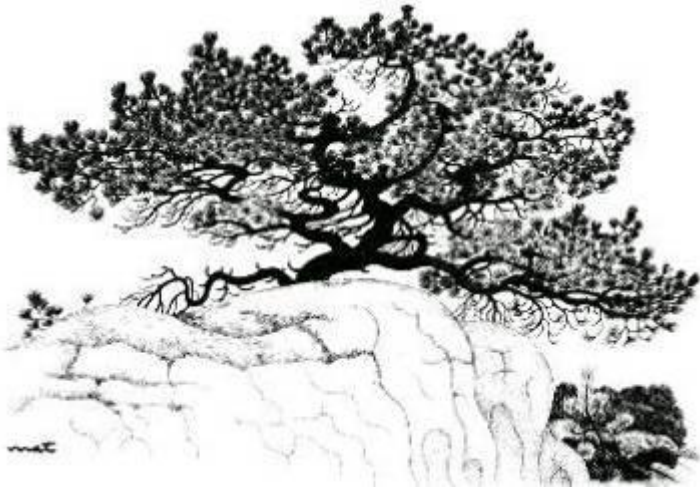




TORREYANA

THE DOCENT NEWSLETTER FOR
TORREY PINES
STATE NATURAL RESERVE

Issue 441

April 2022

Plan Bee

by Dan Hammer; photos by James Hung

At the March TPDS meeting on Zoom, University of Oklahoma assistant professor James Hung launched an exciting new endeavor: the Torrey Pines Bee Monitoring Project. Starting “right now,” docents and other community members can help scientists survey and protect our local bee population.

James, who earned his Ph.D. at UCSD, began with a brief overview of bees’ life cycles and behaviors. We know that bees and plants need each other to thrive: bees play a vital role in plant pollination, and plants’ nectar and pollen are essential to bees’ diet. But contrary to the popular image of a purely symbiotic relationship, bees and plants engage in what biologists call *mutual exploitation*: that is, bees (and other pollinators) want the most food they can get from each plant without doing much work, and plants want to be pollinated without giving up much nectar or pollen.

The world’s 20,000 bee species exhibit tremendous diversity. When most of us think of bees, we picture our most dominant species: the Western honeybee (*Apis mellifera*).

But this is not a typical species. In fact, about 96% of all bee species do *not* make honey, 90% are *not* social, and 13% do *not* live honest, hard-working lives building nests. Moreover, about half of all bees – the males – do *not* sting. The females’ stinger is a modifying egg-laying tube or *ovipositor*.

The majority of bee species are **pollen generalists**, feeding on and pollinating a variety of plant species. However, many species are **pollen specialists**, feeding on



Docent General Meeting

Date: Saturday, April 9, 9 am

Location: Online via Zoom (link to the meeting will be emailed to all docents)

Speaker: Prof. James Bartolome, UC Berkeley, Department of Environmental Science

Topic: Rangeland Ecology in Coastal California

Rangeland ecosystems form extensive wildland landscapes that are visually dominated by grassland, shrubland, and savanna vegetation. In his talk, Prof. Bartolome will use local examples to elucidate principles for managing coastal rangelands to achieve conservation goals. A case study in Northern California showed that livestock grazing and prescribed fire, when properly applied, can enhance native plant recovery and assist in modifying vegetation structure without degrading water quality. Currently these insights are being applied in an ongoing conservation grazing project at Rancho Jamul and Hollenbeck Canyon in San Diego County.

particular flowers. Their life cycle (especially their emergence from larvae) has to be in synch with the

blooming of that flower. Local examples include the Turret bee (*Diadasia* sp.) with cactus flowers and the Chaparral currant miner (*Andrena caliginosa*) with currant plants. Some specialists play a critical role in our diet, our agricultural economy, and even our culture: without the Hoary squash bee (*Peponapis pruinosa*), we’d have fewer pumpkins for Halloween or Thanksgiving.

(Cont. on pg. 3)

The Torrey Pines Docent Society publishes the *Torreyana* monthly, edited by Joan Simon and Dan Hammer on alternate months, and is formatted and produced by Roger Isaacson. Submissions are due on or about the 20th day of the preceding month and may be emailed to

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**FLASH - Don't forget to donate
your ZooNooz magazines to the
Museum Shop.**

President's Message

On February 23, Supervising Ranger Dylan Hardenbrook sent out a request for help with removing the large amount of trash on our beach. The next day, docents showed up in twos and threes with buckets, gloves, and trash pickers for the cleanup effort. When Ranger Stephanie Adams said there were at least a dozen that she saw, maybe more who were on the beach, I was never as proud to be associated with the docents of TPDS who care enough to do this very unglamorous, unappreciated trash pickup job. My gratitude to the docents who regularly pick up trash along the lagoon, the road, the beach, and the trails. I thank you, and the public thanks you when they note how clean the Reserve is. (See photos on pg. 8.)

Our Earth Day celebration is a wonderful opportunity for docents to act as ambassadors for Torrey Pines. This is a unique time to share the joy and wonder of the natural world of Torrey Pines, to educate the public on the effects of climate change on our Reserve, and to encourage our fellow citizens to live with minimum impact on the environment. I encourage you to sign up to help make this Earth Day a special event for the community. For the past two years, public outreach was not possible. This year the rangers are organizing a public beach cleanup effort that can use some docents to help make it successful.

Lynne Truong

TPDS President



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April CEED Event: Watershed Adventures

When: Friday, April 22 at 8:30 am

Where: Meet at South Beach parking lot

Duration: 2 hours

Leader: Ingo Renner

Come learn about what is happening in Los Peñasquitos Lagoon this time of year. The tide will be low, allowing us to observe the plants and animals of one of the last remaining salt marshes in Southern California. If you are interested, please call or email Molly Allison and leave a brief message

(Cont. from pg. 1)



Turret bee with cactus flower

Because of its great diversity of plants and habitat, San Diego County is a bee “hot spot,” with about 700 species, more than most states and many countries. (Bee diversity is greater in the desert than along the coast.) However, like most parts of the world, San Diego is losing species – in our case, largely because so much prime bee habitat has been developed. “Whenever you shrink habitat,” James said, “you’ll lose species.”

Other big threats to bee populations include climate change and the increasing frequency and severity of drought. Bee communities do bounce back in the years following droughts, but bee species diversity appears to recover more slowly. Biologists are now studying how well various species recover, including recovery rates in large vs. segmented areas of open space and habitat. This research can help guide public policies that will better preserve and protect pollinators, which are so vital to our environment and economy.

Docents can contribute to this effort by volunteering with the **Torrey Pines Bee Inventory and Monitoring Project**. The project uses the iNaturalist platform, which allows anyone to take photos of bees and upload them along with information about where and when the photos were taken.

As James said, biologists can’t be everywhere at once. Community member can cover much more territory and fill in critical data gaps. Community members have already uploaded about 27 species onto the project site. Once the volunteer monitoring program is up and running, we can expect to have many more species.

You can help save the bees if you have as little as three hours to spare, two in the field and one at your computer. Your photos don’t have to be works of art to be useful – any photo can add valuable data points to this survey. So give it a try: Even if you do it just once, it will help.

Some of us might worry whether we can identify bees in the field. Is that a bee I see? or a wasp? or a striped fly? To get us started, James gave a crash course he called **Bee Recognition 101**. Bees are often fuzzy, with branching hairs on their bodies. Many have contrasting bands of color. Bees have flattened hind legs, often including a pollen brush. They have two pairs of wings, often overlapping. They have large but not “bugged-out” eyes. And unlike other members of the wasp family, they are vegetarian, so you’ll never see a bee hunting. If in doubt, don’t worry – just take a photo and upload the data; scientists working with the project can sort it out.

To learn more about the bee monitoring project, click [here](#). To see the full step-by-step protocol to join the project and start collecting data, click [here](#). To see James Hung’s lively, informative, and important presentation, [click here](#).



Volunteering links below:

Learn: torreypine.org/volunteering/bee-monitoring-project/

Sign up: torreypine.org/volunteering/bee-monitoring-project/step-by-step-protocol/

General Meeting Minutes:

March 12, 2022

The meeting was called to order by **President Lynne Truong** at 9:05 am, with 91 docents attending via Zoom.

Invited Speaker

Pollination ecologist James Hung presented on bees titled “Keeping a pulse on our native bees: How you can help monitor our most important pollinators.” Dr. Hung introduced us to the fascinating lives of our beautiful native bees as well as discussing the challenges they face. He then shared an exciting community science survey program that docents can participate in, using photography to document and monitor native bee species that are found in the Reserve. Fundamentally, this will be the start of the citizen science project to count bees present in the Reserve. Docents can log hours spent on the project via their BI account. TPC members can also participate.

President's Report and Announcements

Docent of the Month: **Evelyn P. Vance** is the DOM for March. During the first 6 weeks of the new year, she has logged 80 hours at the TIK, the Lodge and public walks for total of 150 hours. Her enthusiasm and larger-than-life personality are a great asset to the Reserve.

CEED Event: The next event will be March 30th at Mission Trails Regional Park. **Myrna Trust** is working on other events such as a night walk for owls. **Ken King** will lead a tour through La Jolla to highlight Ellen Browning Scripps landmarks. A trip to Barona Cultural Center and Museum is also in the works.

La Jolla Half Marathon: **Anne Smith Mercandetti** is recruiting docents to monitor the run on April 16 (see pg. 6).

Earth Day: A short slideshow was shown. We need volunteers to help out for a variety of tasks. A link will be resent to docents eliciting signups.

Changes to the Board: **Cres Torres** resigned from the board. Roger Isaacson will be the Vice President. A search for a new at-large board member has begun.

1 Stephanie will need assistance to organize the public volunteers for beach clean-up on Earth Day.

Guided Walks: Lynne reported that a group was working on a new script to describe how climate change is impacting the Reserve.

Ranger's Report

The rangers requested a couple of hidden cameras to capture animals. Dylan wants to know about the bigger animals eating carcasses (road kill or beach kill such as sharks and sea lions). It is hoped that the smell of the carcasses will deter homeless people from taking up residence in the Reserve. Rangers can now purchase and install cameras as the board approved the expenditure.

There are good turnouts for our guided hikes. Stephanie suggested taking visitors on hikes on the north fork of Broken Hill Trail as it will help deter them taking their dogs out on it. A contractor will repave the parking area near Red Ridge, which provides access to the Margaret Fleming Trail. The dead tree on Torrey Pines Road was removed. **Zuzana Volny** has accepted the park aide position (see pg. 7). A docent asked whether can we get a QR code on a post at the South Fork trailhead. Stephanie will follow up. Another docent asked if we can get a water station at South Fork trailhead. Lynne will bring up the issue with TPC, which already has two more stations in the works. Stephanie stated that Dylan sent an email to docents to get feedback on taking the ropes down at the TIK and the plexiglass in the Lodge. There is no mandate from the state to keep the barriers up. She'll be waiting for an outcome after a Monday meeting. More information to follow.

Several docents commented that they would like to put up "no food" signs on benches and tables due to visitors

picnicking. Stephanie and Dylan think there are already too many signs in the Reserve. It was suggested that the large table at the pavilion may be removed rather than put up a no eating sign on it. A docent suggested that more trailhead markers at the Extension be installed as people are getting lost. It was also suggested that a Broken Hill junction trail marker be upgraded as people are not seeing it.

Meeting adjourned at 11:04 am.

Docent of the Month: Evelyn P. Vance

Photo by Herb Knufken

I'm proud to say my nickname is "Coach Vance." I earned it by teaching high school physical education, being an athletic director, and coaching every imaginable sport for 37 years.

I've got a tan all year round because I grew up in Southern California. I volunteered as a Girl



Scout leader where we hiked around Chantry Flats in the San Gabriel Mountains. Later I went to the Colorado Rockies for a Challenge Discovery Program, where I learned how serious mountain lovers do the outdoors. I spent a large amount of my time near or in the water: swimming, surfing, paddle-boarding, kayaking, and coaching. Now I live in Del Mar and enjoy walking to Torrey Pines Reserve to be a docent.

I came to love Torrey Pines after my parents bought their home in Del Mar in the 80s. By then I was a diehard triathlete. I ran and biked up the killer hills of Torrey Pines as a daily workout. My dad was a nature lover, bird lover, and conservationist. I think some of his endless "talks" rubbed off on me because I felt his presence as I learned about plants and animals in my docent training.

Most people know my superpower is making people laugh. I love being a docent because I get to use my superpower on the many visitors to Torrey Pines.

The best part is that at the end of the day I go home with the gift of knowing I added a little enjoyment to each guest's day.

As a longtime coach, TEAM is #1 to me. So I'm proud to be on the Torrey Pines Docent Team.

80+: A Conversation with Mayo Stiegler

Interviewed by Nancy Richardson

I had the opportunity to meet with longtime docent Mayo Stiegler: 94 years old and still as sharp as a tack. Although I had not met him before, my impression of him was of a thoughtful and considerate man despite his many accomplishments and his very accomplished family. Here is a synopsis of our discussion, but to get a more thorough reflection of Mayo, see the video [Click here](#).

When did you become a docent and what programs were you involved with?

I became a docent in 1991, a couple of years after I started with the Quail Botanical Gardens, now San Diego Botanic Garden after I retired. My work kept me indoors so I wanted to be outdoors. No more indoor activity for me! I was an active



docent for 22 years. I led public walks each week as well as doing Lodge hosting. I love to interact with people.

Why did you become a docent and how were you introduced to Torrey Pines Docent Society?

I hadn't been aware of Torrey Pines Reserve until I retired. One late fall day, my wife and I went for a hike in the Reserve. It was pretty dry compared to Quail Gardens, but we stopped and spoke to a ranger, who opened our eyes to the wonders of the place. On the spot, I applied to be a docent and never looked back.

What did you enjoy about being a docent?

I loved to be outdoors, but I enjoyed the interaction with people and to see the botanical changes through the seasons. Doing the public walks each week was also good exercise.

Are you a rare native of San Diego or like most of us, did you move here from somewhere else? Can you tell us a bit about your early years?

I grew up in Minneapolis and only moved here after retiring from my legal career in Evanston, Illinois. I was the youngest of three boys. My mother had three boys under five: quite a handful! I graduated from high school at the end of the Second World War in 1945 and served in the forces in Texas. I was then stationed for 15 months in Alaska as a Ground Approach Radar Operator, guiding aircraft down in bad weather, and there was bad weather there. As I had served in the military, I was granted one year of university credits when I studied at the University of Minnesota. I graduated in 1951 with a Law Degree and married my wife in 1953. We have two sons and now four grandchildren.

Can you tell me a bit about your career?

I worked for the Legal Aid Society. Over nine or ten years, I was able to help over three thousand clients: a very satisfying career helping others. I became the Director of the Member Services at the National Legal Aid and Defender Association. I was also involved in improving court systems by rectifying how judges were selected: from election to nomination.

Do you have any philosophies you would like to share with docents?

Keep it up! The Reserve is a great place with much to offer. You will gain friendships with interesting people, and the work you do is what keeps the Reserve so special.

Are there any changes at the Reserve you especially like or dislike?

Well, I haven't been there since 2013. I really like the beach. I thought the cupola at the beach parking lot was a wonderful addition.

Finally, are there any special memories of the Reserve that you would like to share?

Yes, actually there are two especially powerful memories I have. The first one was: while I was patrolling Broken Hill Trail, there was a sign warning of rattlesnakes. Lo and behold, curled up right below the sign was a rattlesnake: picture perfect!

The second one was truly touching. A woman had brought her special needs nephew to the Reserve. He was between five and eight years old and was terrified of going into the the Reserve pathways. Auntie resolutely encouraged her nephew to explore with me. He took my hand, and we went deep into this new world for him. The unwavering encouragement of the aunt and the bravery of the boy had left their mark on me.

To browse Mayo's and our previous twelve 80+ interviews [click here](#).

So Long, My Friends!

by Krista DeBusschere

Sunday, March 27, was my last day on the schedule as a park aide.

Back in 2017, when I accidentally dropped something in the Lodge office and climbed under the park aide desk to retrieve it, was a day I found a supreme inner happiness. On the sandy linoleum floor, I found treasures like animal teeth, a dried



seahorse, insect exoskeletons, fossilized shells, and a bird skull. All tiny objects once sitting desktop, now littering underneath. I was delighted, and I could not believe my lucky stars that I worked in a place such as this. What a cool office! A place I loved, working with people I admired and from whom I learned something daily, in a place where enthusiasm was contagious and the world of biology, ecology, geology, history, and interpretation all existed together with genuine people working hard to do what they love. I still feel so lucky! This very special place has provided a place of growth, opportunity, and healing.

I feel so grateful to have worked with you, dear docents. The State of California is so fortunate to have your passion, expertise, and love. Your valuable work is in the public good, and each of you should feel proud. For me, doing interpretation, speaking with hundreds of people a day, has been both exhausting and exhilarating. I have loved being a park aide. I say farewell but not goodbye. I will see you in the Reserve. So long, my Friends!

La Jolla Half Marathon – April 16

The La Jolla Half Marathon runners will be coming through Torrey Pines State Natural Reserve on the morning of Saturday, April 16. While detailed information is yet to be received, ten Torrey Pines docents have already signed up to be at the Reserve bright and early to welcome and encourage the runners. It is expected that docents will be able to leave the Reserve by 11:00 am. Docents will get to hold one of Herb's beautiful TPSNR photos as the runners race past. Please contact **Ann Smith Mercandetti** if you would like to join us on April 16. Thank you!

Nature Discovery Series: Gray Whales

by Matt Xavier

The March 5 NDS event was led by Jane Barger, who delivered a wonderful lecture with interesting exhibits on gray whales to an audience of 50 participants at the Pavilion. Currently, there are two populations of gray whales on Earth. The Eastern Pacific group, which had been hunted down to an estimated 5,000 individuals, has bounced back to nearly 27,000 after legal protections were enacted. The Western Pacific population is nearing extinction, with approximately 200 whales left.



These creatures grow as long as 46 feet and can weigh up to 40 tons. They live as long as 70 years, and during that lifetime swim about 600,000 miles, about the distance of a round trip to the moon.

Gray whales (*Eschrichtius robustus*) are classified as baleen whales. As they feed primarily at the bottom of the sea, they disrupt the sediments and then scoop them in their mouths. They use their baleen, a feeding filter composed of keratin, to filter out water while trapping benthic crustaceans such as krill. Gray whales also may feed at the surface of the ocean for plankton.

These whales have the second-longest migration path of any animal on the planet. It takes about two and a half months for them to travel between 10 and 12 thousand miles from Alaska to the lagoons of Baja California. The whales lose up to 16% of their body weight as they generally do not eat during their journey. Pregnant females will give birth in the warm, calm lagoons. Newborn whales are about 14 to 16 feet long and weigh about two thousand pounds. They will nurse on their mother's milk (which is about 50% fat) for approximately nine months and gain 60 to 70 pounds a day.

Nature Discovery Series: April 23 – EARTH DAY

Displays of all things nature related, Kumeyaay cultural sharing, live animals, activities for kids, and much more.

9 am to 2 pm

May 21 – All About Eggs by Barbara Wallach and Kathy Dickey. Birds do it, bees do it, even lizards and snakes do it! Come see all the variations of eggs in our natural world. Suitable for families with children.

3 pm

New Park Aide: Zuzana Volny

by Joan R. Simon

As of March 22, **Zuzana Volny** is our newest park aide. Like many before her, she came through docent training (in 2018) and is interested in sharing her knowledge with the wider public. Zuzana is from San Francisco and moved to San Diego with her husband in 2018. She describes herself as a “serial career hopper,” moving from film work (she has a college degree in film), to project managing, to software engineering. Covid interrupted her last pursuit, and Zuzana realized that what she liked best was being out in nature. She brings to the job both a technical and creative background. As a docent, she helped overhaul the website and digitized and catalogued photos from the docent archives. In January 2022, she was named docent of the month (link: [Feb. 2022 Torreyana](#)). As a park aide, Zuzana hopes to restart the Jr. Ranger program (another casualty of Covid). When asking for advice from a former park aide, she was told: “Listen to the docents” (we’ll all like that!). Zuzana will be working eight-hour shifts on Sundays and Mondays. We look forward to seeing her around the Lodge and out on the trails.



Torrey Pines Book Club

We will continue to meet via Zoom at our regularly scheduled time. Please notify **Ken King** if you plan to participate and if you need any extra help getting connected.

When: Tuesday, April 12, 1:00 pm

What: *West with Giraffes: A Novel* by Lynda Rutledge
Amazon says:

Woodrow Wilson Nickel, age 105, feels his life ebbing away. But when he learns giraffes are going extinct, he finds himself recalling the unforgettable experience he cannot take to his grave. It’s 1938. The Great Depression lingers. Hitler is threatening Europe, and world-weary Americans long for wonder. They find it in two giraffes who miraculously survive a hurricane while crossing the Atlantic. What follows is a twelve-day road trip in a custom truck to deliver Southern California’s first giraffes to the San Diego Zoo. Behind the wheel is the young Dust Bowl rowdy Woodrow. Inspired by true events, the tale weaves real-life figures with fictional ones, including the world’s first female zoo director, a crusty old man with a past, a young female photographer with a secret, and assorted reprobates as spotty as the giraffes.

Part adventure, part historical saga, and part coming-of-age love story, *West with Giraffes* explores what it means to be changed by the grace of animals, the kindness of strangers, the passing of time, and a story told before it’s too late.

May 10: *The Book of Eels: Our Enduring Fascination with the Most Mysterious Creature in the Natural World* by Patrik Svensson

Shop Spotlight

by Nancy Walters

You may have noticed that the Lodge shop has an added small table in the center where we highlight seasonal or special event items. We placed holiday ornaments there in December with a small tree. We also had all items related to whales for Jane’s whale talk, and items focusing on plants and pollinators for Margaret’s talk (photo below). Now for April we will be highlighting items made with recycled materials and other items of interest for our Earth Day celebration. Come and check it out, and if you are Lodge hosting, please talk to visitors about Earth Day!



Bee Books in the Docent Library

by Ron Kuczenski

For those docents participating in the Bee Project, as well as anyone else interested in these pollinators, here is a brief list of some of the books about bees that are currently available for borrowing from our Docent Library.

Honeybee Democracy by Thomas D. Seeley, 2010.

Following the Wild Bees: The Craft and Science of Bee Hunting by Thomas D. Seeley, 2016.

The Lives of Bees: The Untold Story of the Honey Bee in the Wild by Thomas D. Seeley, 2019.

Our Native Bees: North America’s Endangered Pollinators and the Fight to Save Them by Paige Embry, 2018.

And of potential historical interest: *Bees: Shown to the Children*, by Ellison Hawkes, 1912.

March Madness on Mar Scenic

by Lynne Small

On March 13, 2022, a group of 33 from Solana Beach Presbyterian Church volunteered at TPSNR as part of the church's annual Community Serve Day. We've been one of the fortunate beneficiaries of this SBPC volunteer event for over a dozen years.



Photo by Nathan Murphy

Hosted by Whacky Weeders **Joe Meyer**, **Lynne Small**, and **Pao Chau**, in one morning this energetic group tore out a huge amount of dead ice plant from a location just off the top of the Mar Scenic Trail in the Extension. They bagged the ice plant and carried it to the edge of the road, resulting in a formidable stack of 165 bags.



Photo by Lynne Small

That was the big part, but, of course, the story doesn't completely end there. The following morning two young people from the State Parks District Office, with two trucks and many trips, took all the bags down to the greenery dumpster in the North Beach Lot and emptied them. Finally, those bags add up to a lot of plastic, so the bags were shaken out, folded and stacked for reuse on some future project.

Meanwhile, back at the Reserve, the cleared area can now return to a native habitat.

Photo News: Beach Clean-up

As Lynne Truong noted in her President's Message (see pg. 2), docents recently answered our Supervising Ranger's call to help clean up the beach.



Bruce and Patty Montgomery (they also presented the mammals NDS series on February 19)



More docents helping clean the beach

Bird of the Month: Wood Duck

by Jack Friery; photo by Herb Knufken

Our spotlighted bird this month is the **Wood Duck**, *Aix sponsa*. The Wood Duck drake is extravagantly colored, with dramatic white streaks separating patches of cinnamon and green and blue feathers, led by a red eye and a multicolored bill. (The female is much more subdued but still elegant, with a prominent set of white “spectacles” decorating her face.) Fittingly, the bird’s species name – *sponsa* – comes from the Latin word for “betrothed,” since the bird looks like it is going to a wedding.

An unusual characteristic of the Wood Duck is that it has claws on its feet – a clue that, unlike most ducks, it nests in trees, and that the claws provide purchase for climbing. The bird nests in tree holes, and the chicks will dive from the nest holes to the ground when they are ready to join the world.

It has to be mentioned that the Wood Duck will seldom be seen at Torrey Pines State Natural Reserve, since it lives on inland freshwater lakes (although Herb’s photo accompanying this piece was taken at nearby San Elijo Lagoon). However, I myself have seen a Wood Duck at Torrey Pines. Early one morning, while walking along the beach towards Flat Rock, I came upon a pile of bloody feathers and the head of a Wood Duck. One of our Peregrine Falcons had apparently flown inland, captured a Wood Duck, and had brunch on our beach.

Sources: Choate, *The Dictionary of American Bird Names*; Unitt, *San Diego County Bird Atlas*;

allaboutbirds.org/guide/Wood_Duck/id; audubon.org/field-guide/bird/wood-duck.



Torrey Pines Docent Society Bird Survey: March 5, 2022

Number of species: 90
(+2 other taxa)

Cinnamon Teal 5
Northern Shoveler 15
Gadwall 17
American Wigeon 30
Mallard 9
Northern Pintail 4
Green-winged Teal 1
Canvasback 4
Lesser Scaup 36
Bufflehead 20
Red-breasted Merganser 1
Ruddy Duck 23
California Quail 4
Pied-billed Grebe 1
Western Grebe 87
Mourning Dove 19
Anna's Hummingbird 70
Allen's Hummingbird 2
Rufous/Allen's Hummingbird 10
Virginia Rail 1
American Coot 13
Semipalmated Plover 12
Killdeer 3

Long-billed Curlew 8
Least Sandpiper 18
Willet 25
Heermann's Gull 2
Ring-billed Gull 28
Western Gull 49
California Gull 8
Royal Tern 2
Common Loon 6
Black-vented Shearwater 14
Brandt's Cormorant 94
Double-crested Cormorant 20
Brown Pelican 14
Great Blue Heron 4
Great Egret 7
Snowy Egret 11
Black-crowned Night-Heron 1
Osprey 2
White-tailed Kite 2
Sharp-shinned Hawk 1
Cooper's Hawk 2
Red-shouldered Hawk 2
Red-tailed Hawk 12
Belted Kingfisher 1
Downy Woodpecker 3
Nuttall's Woodpecker 8
Northern Flicker 4
American Kestrel 3

Peregrine Falcon 3
Pacific-slope Flycatcher 1
Black Phoebe 9
Say's Phoebe 7
Cassin's Kingbird 8
Hutton's Vireo 3
Loggerhead Shrike 1
California Scrub-Jay 26
American Crow 30
Common Raven 30
Northern Rough-winged Swallow 61
Violet-green Swallow 2
Bushtit 82
Wrentit 97
Ruby-crowned Kinglet 2
Blue-gray Gnatcatcher 1
California Gnatcatcher 7
House Wren 17
Bewick's Wren 22
California Thrasher 11
Northern Mockingbird 14
Western Bluebird 5
Hermit Thrush 8
House Sparrow 2
House Finch 76
Lesser Goldfinch 24
Dark-eyed Junco 5

White-crowned Sparrow 60
Golden-crowned Sparrow 5
Savannah Sparrow 4
Song Sparrow 46
Lincoln's Sparrow 1
California Towhee 63
Rufous-crowned Sparrow 1
Spotted Towhee 17
sparrow sp. 1
Red-winged Blackbird 14
Orange-crowned Warbler 35
Common Yellowthroat 20
Yellow-rumped Warbler 56
Townsend's Warbler 1

Observers: David Walker, Marty Hales, Andy Rathbone, Tsaiwei Olee, Steve Neal, Nancy Richardson, Gabriele Wienhausen, Phyllis Kuznier, Donna Mancuso, Anonymous, Robert Turner, Gary Grantham, Kathy Dickey

View this checklist online at ebird.org/checklist/S104939122



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