



TORREYANA

THE DOCENT NEWSLETTER FOR
TORREY PINES
STATE NATURAL RESERVE

Issue 434

September 2021

From Sea to Pharmacy

by Joan R. Simon

Dr. Paul Jensen, a professor in the Center of Marine Biotechnology and Biomedicine at the Scripps Institution of Oceanography, spoke to the Docent Society on August 14 about the remarkable journey marine creatures take from the ocean to the medicine cabinets in our homes and hospitals. He explained that the world's oceans are home to most of Earth's biodiversity and an invaluable resource for natural product drug discovery.

When we say natural products what we are talking about is 'nature's pharmacopeia,' Dr. Jensen explained. A majority of the medicines we have today are derived from or inspired by natural products - e.g., penicillin, which comes from a fungus, and many of our cancer-fighting agents. Dr. Jensen started out by explaining how "primary metabolism" involves compounds such as sugars, amino acids, and acetate that are used to generate energy. (A course in organic chemistry or biochemistry might be useful right about now to understand how this works.) Suffice to say, nature has figured out some very remarkable ways to take these simple molecules and make them into natural products that are enormously complex in their structure. They go through some "enzymatic machinery" that puts them together in truly remarkable ways that generate incredible structural diversity. It is this structural diversity – these molecules that we call "natural products" – that has been enormously important to us as a source of medicine. They are far more complex, Dr. Jensen clarified, than anything a scientist would be able to dream up in the lab.

Over millennia, nature has evolved these very complex molecules – not, of course, to provide humans with medicines but to help ocean organisms survive. Their ecological functions include: mate recognition (e.g., producing specific pheromones that can attract the opposite sex); nutrient acquisition (e.g., neurotoxins that paralyze prey); and communication. We know that whales and

Potluck Gathering (replaces General Meeting)

Date: Friday, September 10 **CANCELLED**

Time: 4:30 pm

Location: South Beach near the entry kiosk

Sorry, docents/staff only

More details will come when we are closer to the date, since there is a possibility that permission for this event will be canceled.

dolphins use sounds to communicate in the ocean, but the vast majority of sea organisms communicate via chemistry.

Defense is one of the most important functions of these molecules. The ocean is an "eat or be eaten world" where the survivors are those that have figured out how not to be eaten. How do organisms in the ocean avoid predation? There are structural defenses, such as spines; camouflage, which lets them blend into their surroundings; and behavioral responses (e.g., when fish swim in schools). But soft-body organisms, sitting out in the open, often brightly colored, with no visible defenses, are undoubtedly relying on chemical defense.



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

For example, if you collect a sponge from a reef, extract a natural product, put it into a food source and see how predators respond, it is often just one molecule among the many that will make the food taste bad to fish.

There are many invertebrate phyla that are found only in the ocean, such as sea cucumbers and sea stars. The natural products found in these organisms are totally different from those found on land. The field of ocean medicine started in the 1970s with the collection of soft-bodied organisms, and tens of thousands of new molecules were discovered. Anti-cancer agents have come from sea squirts and sponges; the cone snail produces a neurotoxin to paralyze its prey that is used for chronic pain relief; sea hares (*Dolabella auricularia*) (photo below) are the source of a treatment for Hodgkin's lymphoma.

There are obvious supply challenges with developing medicines from marine invertebrates. Because you cannot harvest these animals in sufficient numbers for

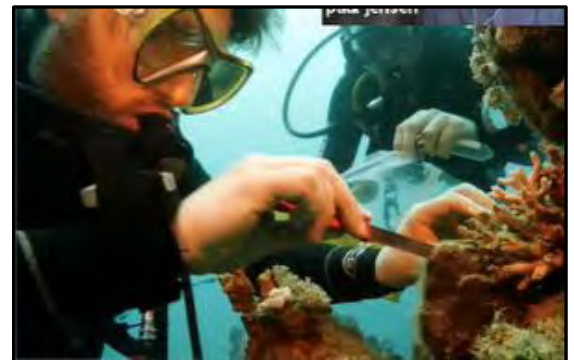
commercial use, the compounds need to be synthesized in the lab. But not all of them are economically viable going this route. An alternative source of marine natural products comes from cultured marine microbes, which when grown in the lab provide a renewable source.

An important question is which microbes to look at. One example is a group of bacteria known as actinomycetes. These are common soil bacteria and the source of most antibiotics. Scientists wondered whether they also existed in the oceans and eventually found rich sources of them, some of which were totally new. They required

sea water for growth, so they were clearly adapted to a marine environment. Dr. Jensen's lab named nine different species and discovered that these new bacteria generated totally different molecules. One of these, salinosporamide A, is showing promise in clinical trials as a new cancer treatment. It is a potent proteasome inhibitor, with an unusual ring structure that had rarely been seen before in nature. Proteasomes make sure the right proteins are around at the right time in a cell and degrades them after they serve their useful purpose. Inhibiting proteasome function in cancer cells can kill those cells before they spread. Because salinisporamide A (which is being developed under the name *marizomib*) is able to cross the blood-brain barrier, it can be used to treat multiple myeloma and glioblastoma.

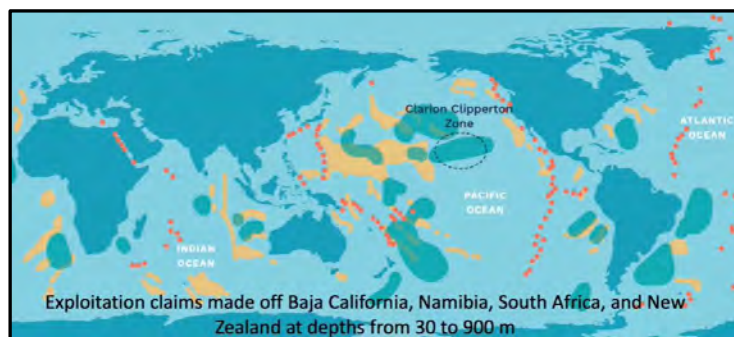
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In recent years, progress in DNA sequencing is enabling scientists to identify genes that are involved with making natural products. “From the DNA we can read the genes and predict where the potential useful molecules will be produced,” Dr. Jensen explained. As a result, DNA sequencing has transformed the field of microbial natural products. It is central to the work in Dr. Jensen’s lab and has reduced the need to study as many cultures. Sometimes the most useful genes are “silent,” ones that are not yet expressed. The introduction of DNA technology “takes a little bit of the luck out of the discovery process.”

Deep-Sea Mining



At the end of his talk, Dr. Jensen introduced a new topic that has become a growing concern: deep-sea mining of minerals. Exploitation claims have already been made off Baja California, Namibia, South Africa, and New Zealand at depths from 30 to 900 meters. The materials potentially being mined are minerals, such as phosphorites (used in fertilizers), and metals and rare earth elements in the iron-manganese crusts at the bottom of the ocean. These have industrial and high-tech uses, e.g., for batteries and voltaic cells, and can be extracted only by disrupting the bottom of the ocean. The environmental impact of such mining is likely to be catastrophic to the deep-sea ecosystems in these habitats.

Dr. Jensen’s group has been participating in a NOAA-sponsored program to study mineral-rich deep-sea regions that might be sites of future commercial mining activities. They are focusing on the biopharmaceutical potential of these areas. The geographic range of their study stretches from Palos Verdes Peninsula to San Diego and out from the coast for 250 miles.

As we learned from this talk, Dr. Jensen’s lab is pursuing several highly important projects, and we hope to have him back at a later time to update us on his research. [Click here for program Vimeo link.](#)

General Meeting Minutes, August 14

The General Meeting was called to order at 9:05 am by President **Lynne Truong**. Lynne welcomed Torrey Pines docents to the general meeting, conducted again via Zoom. The meeting was attended by 99 docents.

Invited Speaker

In a presentation titled “From Sea to Pharmacy,” Professor Paul Jensen, Scripps Institution of Oceanography, talked about the long journey of marine natural-product drug discovery and why it is important to understand and preserve biological resources. His presentation highlighted the potential of the world’s oceans to yield new medicines. (See article on pp. 1-3.)

TPDS Business

- **Update from Ranger Stephanie Adams**

Vaccination Status

Per State of California HR, all State Park staff and volunteers must report their vaccination status, choosing among the following responses in completing a brief survey:

- (1) fully vaccinated
- (2) not fully vaccinated
- (3) decline to state

Those who declare fully vaccinated status must submit proof of vaccination to either **Louis Sands** or Stephanie Adams. Docents who selected statement (2) or (3) and who wish to come to the Reserve for volunteer duties must submit a COVID-19 test result every week. Details will be sent out to all docents via the TPDS volunteer mailing list. Docents need to complete the survey before engaging in volunteer duties.

Stephanie had no updates regarding mask policies. She assured docents that any new information about COVID-related policies will be shared as soon as Supervising Ranger Dylan Hardenbrook receives them.

- **Volunteer of the Month**

Andy Rathbone is Volunteer of the Month. Andy is an avid birder who distinguished himself as one of the most devoted contributors to the monthly bird counts in both the Reserve, including the Extension, and the Scripps Coastal Reserve. Andy’s expertise in spotting and identifying birds has been essential to the work of the bird counting group. In addition, his beautiful photos of birds in the Reserve have added great value to the group’s work.

- **Bee Monitoring Project**

Prof. James Hung (University of Oklahoma), a native bee expert and former UCSD graduate student, gave a 30 min. presentation (Click [here for Vimeo link.](#)) about the Bee Monitoring Project, a citizen-science pollinator survey program. He reminded the docents that native bees are among the most important pollinators in the world. They are especially important here in San Diego, where many of the foundational native plant species are insect-pollinated. There is an urgent need to properly monitor and protect our native bees.

Dr. Hung, in collaboration with other researchers at UC San Diego, developed a protocol for monitoring the local bee population by making extensive use of both cell phone photography and [iNaturalist](#). Members of the team conducted a successful proof-of-concept of the protocol at Cabrillo National Monument. Dr. Hung is inviting TPDS docents to become involved in this project, either by taking part in the surveys or by identifying the plants being visited by the bees.

With expert support by docents **Zuzana Volny** and **Roger Isaacson**, Dr. Hung created the [Bee Monitoring Project](#) website.

Details about this project will be distributed to all docents via the usual communication routes. Docents **Cres Torres** and **Gabriele Wienhausen** will support Dr. Hung's work as TPDS's coordinators for the project. Docents can contact either one of them with questions.

- **TIK Update**

The new osprey skull arrived. **Janice Barnard**, TIK coordinator, reminded all docents that the skulls are fragile and expensive. Handling them with great care is essential. Janice reported that going paperless and making trail maps available via QR codes seems to have been received favorably by visitors. Janice invited all docents to share ideas for TIK upgrades with her.

- **Map Board Update**

The board approved funds for the purchase of new Plexiglas covers for the map board sign. Lynne shared that the installation has been delayed because a bird selected the board map for building a nest. However, the fledglings now appear to have left the nest. The new covers will be installed during the week of August 16. The refurbishing of the Map Board will also include a newly painted map with updated photos. Park aides will work on updating the content of the map board.

- **CARE Team Update**

Annette Ring and **Sally Whitlock** are stepping down as leaders of the CARE Team. **Kristine Schindler** and **Nancy Richardson** agreed to take on the leadership roles. Lynne thanked Annette and Sally for starting the program and for their inspiring service. She reminded the docents that in addition to providing a support system to TPDS members, the CARE Team also took on the 80+ interview project (see article on pg. 7).

- **Docent Training 2021 Update**

The new Docent Training Program will resume on September 25. Lynne shared that eleven docent trainees have signed up. The overall number of participants will be capped at fifteen. All trainees are required to show proof of vaccination. The Bear-in-Mind training will be part of the docent training.

- **Children's Program Update**

The Children's Program is officially cancelled for 2021. If the CA Park System and the school districts in the San Diego area again approve field trips in Spring 2022, the Children's Program will resume its work (see article on pg. 5).

- **Public Walks Programs Update**

The *General Public Walks Program* is now offered on Friday (as well as Saturday, Sunday and holidays). Walks are conducted only at 10 am. The 2 pm time slot has been cancelled. Lynne urged docents to sign up for a shift.

Interest in the *Special Walks Program* (**Stu Rosenwasser**, Coordinator) is increasing. Five Special Walks have been scheduled for September.

Mindful Walks at Torrey Pines, replacing the Mindfulness in Nature Program, will start on September 5, the first Sunday of the month. From then on, it will be offered twice per month, on the first and third Sundays. The walks will start at 8 am at the Lodge and will end around 10 am. Currently, the program committee includes **Sandi Levin**, **Stu Rosenwasser**, **Cres Torres**, **Lynne Truong** and **Gabriele Wienhausen**. The group will develop a training manual and procedures so that more docents can learn how to become walk leaders.

- **CEED Program Update**

Cres Torres reported that 35 docents have signed up so far for the August 17 hike in Gonzales Canyon. Ingo Renner and Mark Embree will lead the walk (see article on pg. 9).

- **Uptick of Transients in the Reserve**

Lynne shared that rangers have reported an increase in transient encounters in the Reserve, including the State Beach, Extension, and Guy Fleming House. It appears that many of the transients suffer from mental health issues. Lynne reminded docents not to approach the transients but rather to inform the rangers of any encounters and sightings.

- **Nominating Committee**

Ken King, representing the Nominating Committee (**Ken King**, **Janice Barnard**, **Frank Burham**, **Medi Denker**, **Steve Neal**), invited docents interested in serving as members of the Board to contact him. See page 5 for application information. An email, detailing application requirements, will be sent as well.

- **Roving Interpreter Training**

Lynne asked docents to let her know if a refresher Roving Interpreter Training should be scheduled.

- **Upcoming Social Events**

Potluck September 10

The potluck on Friday, September 10, 4:30 pm has been tentatively approved. **Because the COVID situation is evolving, stricter public policy measures might be implemented, which could mean the approval of the gathering will be withdrawn.**

Full Moon Hike, October 20

The full moon hike on October 20 has been approved, provided that COVID-related public health policies continue to allow organized outdoor gatherings.

The General Meeting ended at 11:11 am.

Children's Program

by Louis Sands, Children's Program Coordinator

Hello, most-appreciated Children's Program docents! At the August 11 docent board meeting, the directors decided to postpone the resumption of the Children's Program until Spring, 2022. Since we will not receive elementary school groups this fall, the September 16 kick-off meeting has also been postponed until further notice.

Hopefully, this fall will bring vaccination options for younger kids! Keep the faith, dear friends. We will post a date later this fall when teachers can submit reservation requests for spring field trips. Stay tuned ...

Nominating Committee is Seeking Board Applicants

by Ken King

Docent Society board members are the elected leadership of our society. They oversee our activities, create and approve new activities, take care of our finances and reporting, communicate board decisions to TPDS membership, and work with rangers and park aides. Members of the board are expected to attend the majority of the monthly board meetings and actively participate in discussions and decision-making.

The board consists of four officers and five at-large members. The officers are the president, vice president, secretary, and treasurer. Each of the five at-large members serves as liaison to specific docent activities such as the Children's Program, Lodge hosting, weeding, etc. Those assignments are selected at the first board meeting of the year in January.

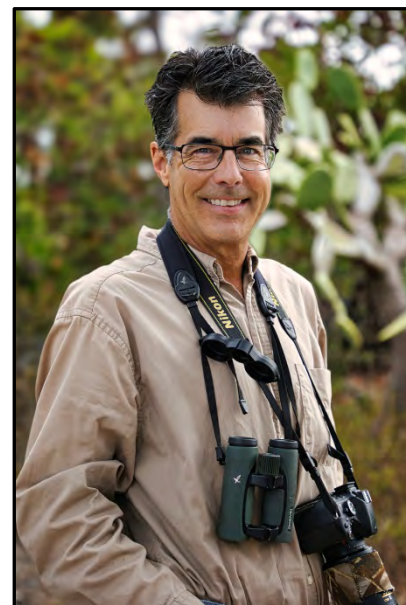
The Nominating Committee, appointed by the board, asks the general membership to consider serving, accepts applications, and chooses the nominees who comprise the proposed slate for the coming year. The slate is presented to the general membership in October and the members vote in November. [Click here for Docent Login and application form.](#)

Volunteer of the Month:

Andy Rathbone

Photo by Herb Knüfken

Being born and raised in San Diego, I'd known about Torrey Pines for years. When I was a child, my mom would take my sister and me to the old Fat Man's Misery trail, where we'd spend happy afternoons squeezing ourselves between the sandstone walls. We'd also explore the beach and main trails; there was so much to see, hear and smell!



As an adult, I made a living writing about technology, which was quite a sedentary position. So, about ten years ago, I began birdwatching after becoming fascinated with a Black Oystercatcher in Big Sur. I've never enjoyed running or jogging, so birdwatching - taking a few steps and then stopping to immerse myself in the surroundings - seemed like nirvana. But other than my childhood years, I never spent much time at Torrey Pines.

That changed when my wife, **Tina Rathbone**, became a docent back in 2014. After dropping her off at docent training, I'd spend a few leisurely hours photographing the birds around the Lodge and trails. It was then that I became entranced with the birds frequenting the Torrey Pines' coastal scrub, especially those hardy birds that have eked out a successful niche in such challenging conditions.

I began tagging along on the Torrey Pines bird counts with **Marty Hales**; she recommended that I try birding in the Extension. **Kathy Dickey** had been counting the birds in the entire Extension by herself each month, so I was happy to help out by taking over the east side. Both Marty and Kathy taught me a lot about birds and their calls, and I still learn something new from them every month.

My interests in technology and birding converged with the advent of eBird, a worldwide bird-counting program

run by Cornell Labs, as well as the plethora of new birding apps for smart phones.

Today, I can visit nearly any place in the world, call up an app on my smartphone, and see the birds others have counted and submitted for that particular location. It's really helpful to see not only which birds are in and out of season, but which ones are going unnoticed right in front of me. Or right above me! My pack of guidebooks pretty much stays in the car these days.

I still participate in the monthly bird counts at both the Extension and Torrey Pines main trails. Armed with my smartphone apps, my camera, and a dedicated group of friendly docents, I find myself looking forward to the beginning of the month more and more.

80+: A Conversation with Bill Eckles

Interviewed by Medi Denker

Bill Eckles and his wife Flo have been docents since 2007, with Bill serving as the TPDS president in 2013 – 2014 and before that as Secretary for four years.

How did you become a docent?

I was living in Del Mar and had worked earlier in my career for Chicken of the Sea Tuna Co. in Sorrento Valley, so I was familiar with the area, but had never been to the Reserve. One day I saw the "Docents Wanted" sign. My wife Flo and I were interested and joined the Class of 2007.



As a docent what accomplishments are you most proud of?

I have spent a good deal of time Lodge hosting, and I have absolutely loved the people I've met. To balance that out, I also worked with the Seabees. We took on a big project, the job of making cable and eye-rod fencing, and that took a lot of time and a whole lot of people. It took us 2-3 years to complete the trail cables.

Can you tell us something about your childhood?

I was born in Kirkwood, Missouri, a suburb of St. Louis, where we lived for five years. My dad worked for a dairy company. Those were the days when Midwest friendships were formed quickly and lasted long. We moved to Cleveland, OH when I started kindergarten. Later, we moved to Kansas City, KS, a wonderful place where I had wonderful teachers. I felt very influenced by those teachers. It made a whole lot of difference to me wanting to be a

good person. Next was Fond du Lac, Wisconsin, when I was a ninth grader. Same nice people but a much colder climate. I went to the University of Wisconsin where I first majored in engineering, then psychology, and finally I found my real interest in philosophy.

What did you do after college?

After college, I started working for Chicken of the Sea in marketing research. Throughout the years I changed jobs and also worked in the automobile industry for Nissan and Kia. I moved around to many cities, including Miami, Chicago, Los Angeles and St. Louis. I retired at 65 and moved into our old house, which we had rented out in Del Mar right across the street from Crest Canyon. Flo and I both like camping. We just like being outdoors.

Is there some advice you'd like to share?

I recommend working in the Lodge. It's a fantastic opportunity to meet people.

What makes you particularly happy these days?

I like being here, I love the scenery, I love the ocean. I feel very lucky to be living in this wonderful place close to the ocean. It's nice to meet the people who come here, and it's nice to meet the people who are here. Our group of docents are bright -- they're very special. There are nothing but good people here. This place is unique. You don't find beauty like this everywhere.

[Click here to see Bill's interview on Vimeo.](#)

News from the Museum Shop

by Nancy Walters

In case you haven't been in the museum shop at the Lodge recently, we have added a large number of wood items from Turn Around Vets, who make wonderful products using our Torrey pine fallen trees. We have bowls and small carved trees in abundance, so keep them in mind when you're looking for that unique gift representing the Reserve.



We are also adding a new influx of ceramics from **Connie Beardsley**, so come on in and check us out soon!

Special 80+ Project: It Takes a Village!

by Kristine Schindler

As you all know by now, we have a very special project that is unfolding among our Torrey Pines Docent Society group. It is a project to honor our 80-year-old-plus docents and capture their stories or at least a bit of their story. Memories from their childhood, their early adult life, education, family, best achievements, path to becoming a docent, how they have served over the years, and more. Whatever they want to share. **Roger Isaacson** and **Louis Sands** have been helping with the technical aspects of the project, and we so appreciate them both.



To date, the CARE Team has interviewed nine docents, with many more to come. The first three docents interviewed were via Zoom early this year with the interviewer being **Janet Ugalde**. Thank you Janet for starting us off strong and to the many CARE Team members that have engaged in this project since early summer. And a very special thank you to our interviewees: **Ken King, Frank Burham, Wes Farmer, Barbara Wallach, Bill Eckles, Lillian Lachicotte, Arline Paa, Tony Summers, and Roger Isaacson**. Oops, I just “outed” you all.): [Click here to see interviews on Vimeo.](#)

If you are 80+ and would like to be interviewed, could you please contact me (check Member List). I would love to add your name to our list. We can do your interview either over Zoom or meet at the Reserve to have a F2F (face-to-face) interview the “old fashioned way,” which is preferred. Your choice.

Torrey Pines Book Club

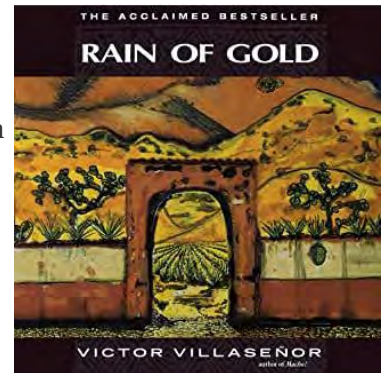
We will continue to meet via Zoom at our regularly scheduled time. Please notify Ken King if you plan to participate and if you need any extra help getting connected.

When: Tuesday, September 14, 1:00 pm

What: *Rain of Gold* by Victor Villaseñor

Amazon says:

Rain of Gold is a true-life saga of love, family and destiny that pulses with bold vitality, sweeping from the war-ravaged Mexican mountains of Pancho Villa's revolution to the days of Prohibition in California.



It all began when

Villaseñor's maternal grandmother sat him down in their little home in the barrio of Carlsbad, California, gave him sweet bread and told him the story of their past. Of his mother Lupe, the most beautiful girl in the whole village who was only a child when Villa's men came shooting into their canyon. And of his father Juan and his family, reduced to rags and starvation as they sought refuge across the border, where they believed that endless opportunity awaited. Lupe and Juan met and fell in love in California, but they found that the doors to the Promised Land were often closed to those from south of the border. His father was forced to take the law into his own hands, in spite of his wife's objections. With love and humor, Villaseñor shares this passionate love story that celebrates the triumph of the human spirit.

An all-American story of struggle and success, *Rain of Gold* focuses on three generations of Villaseñor's kin, their spiritual and cultural roots back in Mexico, their immigration to California and overcoming poverty, prejudice and economic exploitation. It is the warm-hearted and spirited account of the wily, wary and persevering forebears of Victor Villaseñor.

All TPDS docents are welcome. Meetings usually last a couple of hours.

October 12: *Wild Rituals: 10 Lessons Animals Can Teach Us About Connection, Community, and Ourselves* by Caitlin O'Connell

July CEED: (Botanic Garden)

by Cresencio Torres

The third CEED event of the year was a visit to the San Diego Botanic Garden on July 22. A small group of twelve docents attended it. Our guide, Jeff Clingan, provided much information about the Botanic Garden, which included rare bamboo groves, desert gardens, tropical rainforests, California native plants, Mediterranean climate landscapes, and a subtropical fruit garden. A special thank you to Caren Clayton, Volunteer Coordinator, and Jeff Clingan, SD Botanic Garden docent guide *extraordinaire*, and **Kristine Schindler** for introductions.



August CEED: (Gonzales Canyon)

by Cresencio Torres

The fourth CEED event of the year was a visit to Gonzales Canyon on August 17. It was attended by a combination of 25 docents and family members. Our guides, **Ingo Renner** and **Susan Elliott**, provided a plethora of information about Gonzales Canyon's flora and greenery. The guided walk focused on identifying native riparian, chaparral, and coastal sage scrub plants while revealing some interesting facts about them. It was a perfect morning for a docent get-together and a wonderful learning experience. A special thank you to all who participated in the Gonzales Canyon event.



The Old Is New Again

by Dylan Hardenbrook, Supervising Ranger

Remember when two Torrey pine trees fell down in February 2019 and somehow managed to avoid squashing the Lodge?

Remember in March 2019, when the CCC workers took time off from their Broken Hill renovation to cut the trunks in half for us?

Remember how the trunks sat drying for 2 ½ years while we walked around them?

Well, our maintenance staff used them to recreate the historic benches last month! Come to the Lodge and sit awhile!

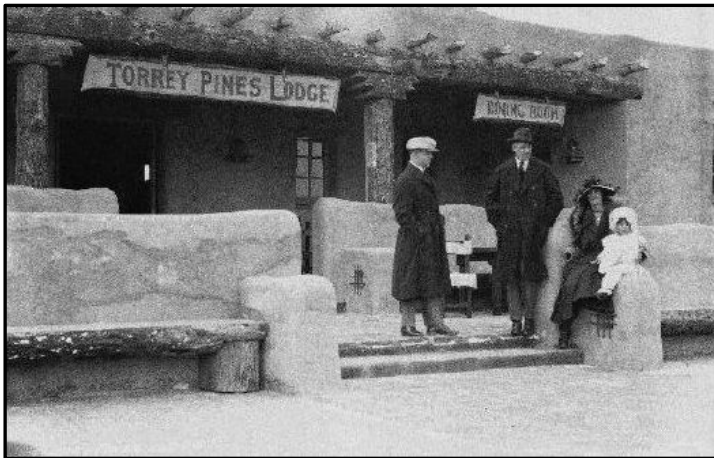


Photo taken 1923, right after the Lodge was built. Image Source: San Diego History Center



Maintenance Staff, L-R: Alex Bok, Danny Olivan, Victoria Austin, Tony Ligeralde. Not shown: Joaquin Altamirano, Matt Orner, Demmuel Eslava



Photo by Herb Knüfken



First of two Torrey pines that fell in February 2019

Bird of the Month: Ridgway's Rail

by Jack Friery; photo courtesy of Herb Knüfken

Our star bird this month is the Ridgway's Rail, *Rallus obsoletus*. This denizen of marshes and water's edge is 12 to 16 inches long and weighs approximately a pound. The Ridgway's Rail is most often found in coastal saltmarshes and actually has special salt glands that enable it to drink seawater. (Footnote: Saying the bird "is found" in marshy areas is a bit of an overstatement, since it's particularly stealthy. Its call is often heard more often than the bird is seen.)

The rail is omnivorous, eating crustaceans, fish, vegetation, and seeds. They rarely fly. Instead, they normally walk in an irregular path with neck outstretched, seeking food. Birds may run in response to a threat, and, perhaps surprisingly, they are good swimmers.

The Ridgway's Rail was, in one sense, invented in 2014. In that year, the California subspecies of the Clapper Rail was given its own full species status and named the Ridgway's Rail. The bird was named after a famous nineteenth century birder and Smithsonian Institution official Robert Ridgway.

Sadly, this unique and wonderful bird is listed as endangered – at risk of extinction – under the federal Endangered Species Act. The cause? Loss of coastal marsh habitat as a result of development and degradation.

Sources: allaboutbirds.org/guide/Ridgways_Rail/overview
fws.gov/sacramento/es_species/Accounts/Birds/ridgway_rail
en.wikipedia.org/wiki/Robert_Ridgway



Torrey Pines Docent Society Bird Survey: August 2021

Number of species: 61
(+3 other taxa)

Mallard 23	Caspian Tern 6	American Crow 14	California Towhee 69
Surf Scoter 24	Royal Tern 80	Common Raven 39	Spotted Towhee 17
Eurasian Collared-Dove 1	Elegant Tern 40	Northern Rough-winged Swallow 6	Yellow-breasted Chat 1
Mourning Dove 29	Pelagic Cormorant 1	Bushtit 68	Western Meadowlark 2
White-throated Swift 5	Double-crested Cormorant 6	Wren 62	Hooded Oriole 5
Anna's Hummingbird 30	Brown Pelican 33	Blue-gray Gnatcatcher 4	Red-winged Blackbird 5
Allen's Hummingbird 18	Great Blue Heron 5	California Gnatcatcher 9	Orange-crowned Warbler 10
hummingbird sp. 3	Great Egret 8	House Wren 2	Common Yellowthroat 11
Semipalmated Plover 4	Snowy Egret 15	Bewick's Wren 14	Black-headed Grosbeak 2
Whimbrel 6	Osprey 2	wren sp. 1	
Long-billed Curlew 2	Downy Woodpecker 4	California Thrasher 23	Observers: Anonymous,
Red-necked Phalarope 1	Nuttall's Woodpecker 12	Northern Mockingbird 4	Kathy Dickey, David Walker,
Willet 2	Northern Flicker 1	Western Bluebird 12	Nancy Richardson, Gabriele
Heermann's Gull 23	American Kestrel 8	Scaly-breasted Munia 3	Wienhausen, Robert Turner,
Western Gull 46	Peregrine Falcon 4	House Sparrow 1	Marty Hales, Andy Rathbone,
gull sp. 2	Pacific-slope Flycatcher 2	House Finch 151	Tsaiwei Olee, Steve Neal
	Black Phoebe 10	Lesser Goldfinch 51	
	Cassin's Kingbird 5	Savannah Sparrow 2	
	Hutton's Vireo 4	Song Sparrow 30	
	California Scrub-Jay 16		

View this checklist online at ebird.org/checklist/S93381796

Herb Knüfken's amazing photo gallery, including many birds, may be found here: pbase.com/herb1rm



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