

NEWSLETTER



San Jose Flipper Dippers

SEPTEMBER 2018

GENERAL MEETINGS HELD
3RD WEDNESDAY
OF EACH MONTH
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**SEPTEMBER 19TH
GENERAL
MEETING
ENTERTAINMENT**

MBNS Presentation

At the September General Meeting, **Brian Nelson** will be presenting an informative program on the Monterey Bay National Marine Sanctuary (MBNMS), including what it is, how it's organized, how decisions get made, what projects they work on, and how divers and other groups provide input. Brian is the Diving Safety Officer at the Monterey Harbor-master's office, a US Coast Guard Licensed Mariner, and a Course Director with PADI. He spends a lot of time and energy serving on the MBNMS Advisory Council – a 20 member group representing those impacted by the sanctuary - and of which he is both the diving community representative as well as Chairman of the Council. He also chairs the Sanctuary Tourism and Recreation (STAR) Working Group, so Brian is well-qualified to represent us as divers and to speak about the Sanctuary. Brian's wife **Mary Jo Nelson** is the captain of the Beachhopper II dive boat, and she will also be attending the meeting. Club members can join Brian and Mary Jo for dinner at the Oriental Garden Restaurant 2895 S Bascom Ave, Campbell, CA ★

Microsoft's underwater data center has live fish cams

The company's new undersea data center off the coast of Scotland includes a couple of underwater cameras that give web viewers a glimpse of the subsurface environs.

"We installed two video cameras on the outside of the pressure vessel to observe environmental conditions near our datacenter," says Microsoft. You could use the feeds to marvel at



the engineering behind the data center or you could just enjoy the soothing view of silvery fish dancing through the water. And, gosh, there are a lot of fish down there.

The experimental data center is part of Project Natick, which is testing the feasibility of

subsea data centers powered by renewable energy. "The vision of operating containerized datacenters offshore near major population centers anticipates a highly interactive future requiring data resources located close to users," says Microsoft.

It's great to contemplate the implications of the technology, but it's also okay if you just want to kick back, mix yourself a Pina Colada and follow the fish as they explore Microsoft's creation.

<https://natick.research.microsoft.com/> ★

Refreshments Are Being Served



The following Dippers are asked to bring a tasty goodie to the next General Meeting: **Larry Ankuda, Mike Chalup, Barbara Davis, Greg Davis and John Schwartz.** Don't forget you will receive a FREE raffle ticket for your donation! ★

Killer whale carries her dead calf for 17 days

A grieving orca whale who carried the corpse of her dead calf for an unprecedented 17 days has finally let it go. The killer whale, known as J35 to scientists monitoring the population in the Pacific Northwest, was spotted swimming without the infant balanced on her head for the first time since July. "J35 frolicked past my window today with other J pod whales, and she

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PRESIDENT'S CORNER



Well September is already around the corner, which means summer is almost over. Hard for me to believe since I'm sitting in 100 degree weather in Scottsdale Az. The annual Albion trip is set to commence next weekend for Labor Day. No abalone again, but fishing, hiking, biking, and drinking and conversation around the campfire are still activities to enjoy. September also has the 3-day trip to the Channel Islands coming up.

The Club is going to need a new Raffle Chairperson starting in October as **Lance Williams** and his wife **Kathy** are leaving the bay area and moving to Oregon to retire. Congratulations to both of you! Here's your chance to get involved in one of the highlights of our General Meetings. Contact me for all the details, as I've had the job a couple of times in the past. It's fun, too!

We've had a couple of new faces at our meetings the last few months and hope to add more members in the coming months. Hopefully our guests will join us at the S3 dives and will desire to become members.

We're also looking for some members to lead some dives. Fall is approaching and some of the best diving conditions are yet to come. If you have a favorite spot - or a secret spot - contact our vice president, **Manual Mangrobang**, to get your dive on the calendar.

Have fun diving. - **Tom**

Diver's I.Q. Review Corner

This month we have One (1) Question and is worth a chance to win **TEN (10) raffle tickets for your correct answer!**

Question: Which of the following poisons might you get from cleaning coral from your saltwater aquarium?

- | | |
|---------------------------------|----------------|
| 1 Ciguatera | 4 Tetrodotoxin |
| 2 Paralytic Shellfish Poisoning | 5 Brevetoxin |
| 3 Palytoxin | |

Send your answer by e-mail to **Larry Ankuda** at lankuda@comcast.net. All attendees at the next general meeting with the correct answer will be included in a drawing for 10 free raffle tickets. Good Luck!



Cave Diving is All the Rage

Summer is usually the slowest season for scuba diving at the water-filled Bonne Terre Mine in Missouri, about an hour south of St. Louis. Not this year. The rescue of the soccer team from the Thailand cave last month has led to an upswing in demand for cave diving courses, says Douglas Goergens, owner of the mine and West End Diving. According to PADI, Cavern Diver certifications have increased 150 percent over this month last year. ★



San Jose Flipper Dippers

P.O. Box 7421, San Jose, CA 95150
www.SJFlipperDippers.com

CLUB OFFICERS

PRESIDENT

Tom Gardner 408-274-9447

VICE PRESIDENT

Manuel Mangrobang 408-813-5139

SECRETARY

Mike Chalup 408-744-1868

TREASURER

Scott Schimberg 510-682-7600

SERGEANT AT ARMS

Lance Williams 650-321-5255

CLUB COMMITTEES

AWARDS AND FINES

John Schwartz 408-985-7272

CLUB PROPERTY

Jerry Richards 408-267-7853

MEMBERSHIP

Teresa Hanson 408-966-6433

NEWSLETTER & WEBSITE

Carl Tuttle 408-829-3660
 e-mail tutcomms@sbcglobal.net

PHOTOGRAPHY

Mike Chalup 408-744-1868

RAFFLE

Lance Williams 650-321-5255

REFRESHMENTS

Steve Richards 408-267-7853

STAR ACHIEVEMENT

Scott Schimberg 510-682-7600
 Michelle Schimberg 510-517-0688

TROPHY COMPETITION

John Snyder 408-378-4963

RAFFLE NEWS

Lance Williams

The August Raffle was the hit of the evening after the dive vacation presentation by **Scott** and **Michell Schimberg**. This is not in the order of winnings, but there were a lot of prizes lucky Dippers got to pick from. **Manuel Mangrobang** donated "Octopus Balls" chosen by Mike Chalup. One of the two packs of "Fish Balls" were picked by our president, **Tom Gardner** and Club secretary **Mike Chalup** took the other pack. The package of "Shrimp Balls" are now in the possession of Tom and the last set of "Balls" (Cuttle Fish) going to the raffle chair, Lance. **Scott Schimberg** had a winning ticket and chose the XL dive shirt supplied by L.O.R.D. Lance. A nice bottle of Cabernet, provided by **Teresa Hanson** was grabbed by Tom. "Dilly, Dilly" diver-produced wine placed in the raffle mix by Mike was won by Pres. Tom. A couple of camp chairs with umbrellas given-up by Jackie and Tom were won by **Steve Richards** and L.O.R.D. Ship (**Bill Shipman**). **Donnavon Hill** provided a pair of 1.5 lb. ankle weights won by Scott. A nail gun was won by L.O.R.D. Ship and the ornament fish was removed from the raffle with a winning ticket by L.O.R.D. Lance. The final item, a wet-suit donated by **John Snyder**, was taken by Manuel.

THE DOOR PRIZE: The \$50 door prize went to **Carl Tuttle** who's name was drawn and was at the meeting! So this month the Door Prize goes back to \$10. Remember, YOU must be in attendance to be eligible to win.

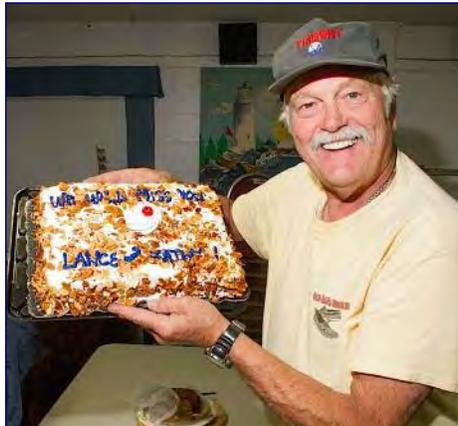
THIS MONTH'S RAFFLE: We're back to our monthly raffle donation program. Each month we pick names from the Club's Roster for members to bring a donation for the Raffle Table. So this month the following folks are asked to bring a dive-related gift: **Don Mercado, Patrick Murphy, Adam Nasont, Dennis Nasont, Hunter Reid** and **Jim Rezowalli**.

If you live out of the area or can't attend the General Meeting, please contact **Lance Williams**, 1-650-321-5255, Willo1044 @yahoo.com, to send in a check. He will pick up a raffle donation in your name. The raffle has always been an important part of our General Meetings. Please do your part as a Club member and provide a raffle donation when your name comes up. Thank you! ★

MEMBERSHIP

Teresa Hanson

There are prospective members looking to dive and we look forward to diving with you! Prospectives must have a Club jacket either in possession or on order to be voted into the Club. See the Club's Website (Membership Requirements) for information and where to purchase. Contact Teresa for additional information on any and all Membership Requirements.



At the August general meeting, a special cake was made by **Jackie Gardner** to celebrate **Lance** and **Kathy Williams'** new chapter in their lives. Lance and Kathy are relocating to Idaho. The cake inscribed, "We Will Miss You Lance and Kathy" was enjoyed by everyone who was at the meeting. Lance (above) has been a Club member since 2004 and has held many positions in the Club including vice president, president, and most recently raffle chair. Congratulations!

A FREE raffle ticket will be given to the following Dippers who have a birthday this month: **Steven Wall**. Happy birthday!! ★

2018 TROPHY STANDINGS

Each month the person whose name appears in the newsletter will receive **3 FREE RAFFLE TICKETS** at the General Meeting — if in attendance. If you hold a trophy several months in succession, you will receive **3 FREE** tickets each month until someone beats your catch.

Contact **John Snyder** at +1-408-202-5196, e-mail: john.fishhunter@gmail.com, **WITHIN 1 WEEK** and give him all the proper info (include the name of one Club-member witness). ★

SKIN DIVING

❑ OPEN CATEGORIES ❑
Lingcod, Cabezon, Sheephead, Lobster, Halibut, White Sea Bass, Striped Bass

SCUBA

❑ Cabazon ❑

Steven Wall	4 Lbs
Moss Landing	07/13

❑ Lingcod ❑

Carl Tuttle	6.25 Lbs
Moss Landing	07/13

❑ Halibut ❑

Tom Gardner	32 Lbs
Moss Landing	07/13

❑ OPEN CATEGORIES ❑
Sheephead, Lobster

Good luck to all!



continue from front page

looks vigorous and healthy,” Ken Balcomb, of the Centre for Whale Research, told The Seattle Times. “The ordeal of her carrying a dead calf for at least 17 days and 1,000 miles is now over, thank goodness.”



The 20-year-old whale, also known as Tahlequah, is an important member of the critically endangered southern resident orca population. Her relative youth age means she could have years of reproductive ability ahead of her. But the death of her daughter triggered a grieving process that took longer than any other documented case among killer whales, with Tahlequah carrying her infant night and day, and diving deep underwater to bring the body back to the surface when it slipped off her head.

“She is alive and well and at least over that part of her grief,” Mr Balcomb added. “Today was the first day that I for sure saw her. It is no longer there.” It is not known if Tahlequah finally let the corpse go, or if the body simply began to fall apart – it was beginning to decompose when spotted earlier this week.

The mother’s grief has captured the attention of the world and helped to illustrate the existential threat facing Tahlequah’s pod. The calf was the first in three years to be born into the dwindling population of southern resident killer whales, which number just 75. Animal rescue teams have launched an unprecedented attempt to save another orca in the pod, called J50, who is dangerously thin due to a

lack of the whales’ most common food source — Chinook salmon.

Wildlife biologists loaded up two boats with live salmon and rushed to waters off Washington state’s San Juan Island, preparing if needed to test-feed the four-year-old whale. The whales continue to face a number of threats to their existence, including lack of prey and noise from boats interrupting their foraging behaviour. ♣

Bracelets Fund Ocean Cleanup, 1 Million Pounds And Counting



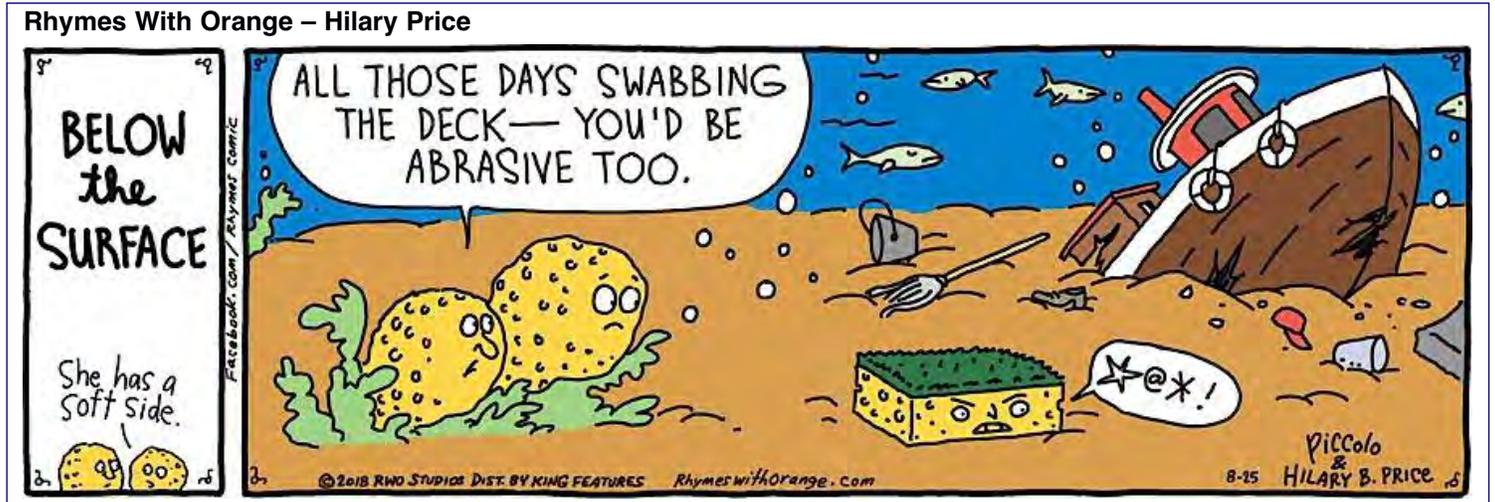
These bracelets are something to brag about. They’re sold by 4Ocean, a Boca Raton, Florida, company that uses money from sales of its products to remove trash from the ocean. The company recently passed the 1-million-pound mark -- in less than two years since its founding in January 2017. The pitch goes like this:

Buy a bracelet made from recycled materials. For each bracelet sold, 4Ocean will remove 1 pound of trash from the ocean and coastlines.

4Ocean reached the 1 million mark earlier this month. As a next step, they added water bottles to an online store. And for the love of sharks (and Shark Week), they’ve partnered in July to support conservation efforts by Project AWARE.

There have been cleanups in 27 countries so far by 4Ocean. The count is at 1,113,228 pounds of trash removed as of this writing. 4Oceans is operating out of multiple countries and employs more than 150 people around the globe.

4Ocean is a global movement actively removing trash from the ocean and coastlines while inspiring individuals to work together for cleaner oceans, one pound at a time. We’re creating the first economy for ocean plastic by hiring full-time captains and crews to clean the oceans and coastlines from Florida to Bali 7 days a week. We also utilize the latest tech and host cleanups around the world to raise awareness. By purchasing a 4Ocean product, you remove one pound of trash from the ocean and coastlines. You also help raise awareness of the 4Ocean movement and support our effort to become the largest cleanup company in history. Visit the Website at: <https://4ocean.com/collections/all-products> ♣



The Sculpture Coralarium: The world's first semi-submerged tidal art gallery

Artist and environmental sculptor Jason deCaires Taylor has just completed his most remarkable work to date, a semi-submerged tidal gallery exhibiting a number of artworks designed to evolve over time as they are colonized by algae and weathered by the environment.

The installation is situated in a large coral lagoon on the island resort of Fairmont Sirru Fen Fushi, in the Maldives. To reach this extraordinary structure, visitors must snorkel or swim around 500 ft (150 m) following an underwater coral pavement that is sea-scaped with planted corals.

The structure itself is a 20-ft-tall (6 m) stainless steel cube weighing about 200 tons, with the median tide sitting around 10 ft (3 m) up the facade. The building is accessed via a submerged staircase that arises above the water line to a dry elevated viewing platform.

The entire installation is designed to operate across three tiers, with some sculptures sitting on top of the cube, and others sitting well below the water line.

"It exists in three different elements," says Taylor, explaining the work's multi-faceted approach. "A set of sculptures that interact with the sky and the atmosphere. There's a set of works that are in the tidal area. They live both above the water and below the water. And then there a set of submerged works. The idea is that it's about taking all the elements of our planet and showing that everything is connected."

The sculptural works displayed within the Coralarium are all mostly constructed from life casts of real people,

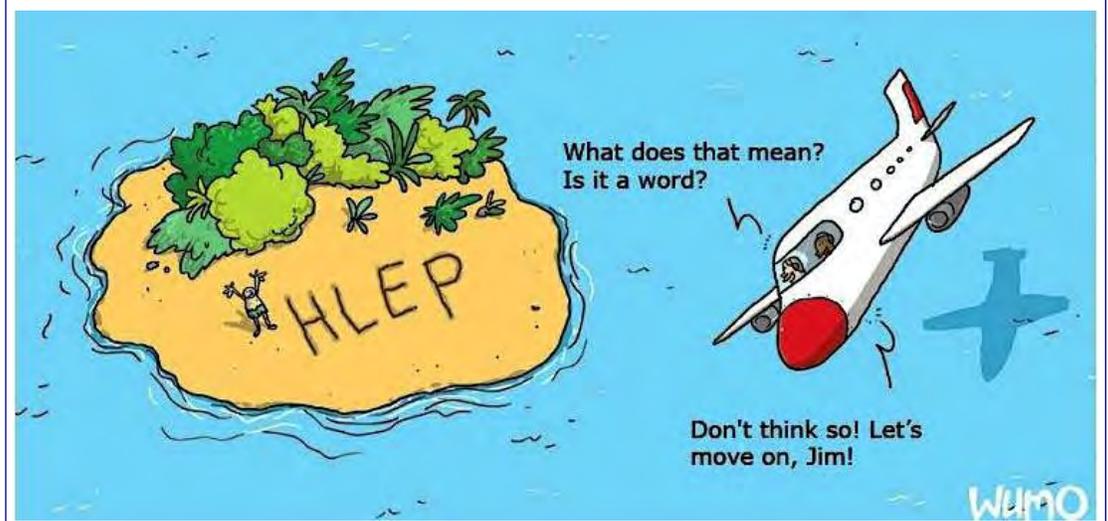
but the final results have been hybridized, incorporating an assortment of organic structures to symbolize the connection humans have with the natural environment.

This unique and ambitious project took around nine months to develop and the complex structural formation utilized high-grade marine stainless steel and pH-neutral cement. The cube's walls reference coral patterns while also being engineered to allow currents and marine life to pass through it.

If you can afford the trip to this luxury resort in the Maldives the Sculpture Coralarium is open now to visitors through tours led by marine biologists at the Fairmont Maldives Sirru Fen Fushi.. 



WUMO – Wulff & Morgenthaler



Study: Seaweed in Cow Feed Reduces Methane Emissions Almost Entirely

Eat your veggies!

A recent study by researchers at James Cook University in Queensland, Australia, has found a certain type of Australian red algae can significantly inhibit methane emissions from cows. Led by Professor of Aquaculture Rocky De Nys, researchers found an addition of less than 2 percent dried seaweed to a cow's diet can reduce methane emissions by 99 percent. The study was conducted in collaboration with the Commonwealth Scientific and Industrial Research Organization (CSIRO), an Australian federal research agency.

Methane is about 25-times more potent than carbon dioxide in a 100-year time span, and a single cow releases between 70 and 120 kilograms of methane per year. Burps from cows account for 26 percent of the United States' total methane emissions, and the U.S. is only the world's fourth-largest producer of cattle, behind China, Brazil, and India. There are currently approximately 1.3 to 1.5 billion cows roaming the planet.

Researchers started investigating the potential effect of seaweed on cows in 2005, when a dairy farmer named Joe Dorgan inadvertently conducted an experiment on his herd in Prince Edward Island, Canada. Dorgan noticed cows that grazed on washed-up seaweed in paddocks along the shore were healthier and more productive than those that stayed in the field. He began feeding his cows a mixture of local storm-tossed seaweed and found the new diet saved him money and induced "rip-roaring heats," or longer cycles of reproductive activity.

Dorgan is not the first farmer to discover the beneficial properties of seaweed in farm animals. The practice was used by Ancient Greeks in 100 B.C, according to the U.N. Food and Agriculture Organization. There are also records of Icelandic farmers using kelp and algae to keep livestock healthy and produce larger milk yields.

A 2014 study by Canadian researchers Rob Kinley and Alan Fredeen confirmed the results of Dorgan's experiment and found, in addition, that "feeding seaweeds and macroalgal products has been shown to reduce enteric methane emission from rumen fermentation." In short, seaweed can reduce the amount of methane cows emit into the atmosphere with their gas. Kinley joined De Nys in Australia two years later to conduct further in vitro tests.

Kinley and De Nys tested 20 different species of seaweed on bacteria found in the stomachs of cows. They discovered seaweed reduced methane production by up to 50 percent, depending on the amount administered. But methane reduction at notable levels required high doses of seaweed, almost 20 percent by weight of the sample. This large percentage of seaweed would be difficult to implement outside of the lab and would likely have a negative effect on cow's digestion.

When the researchers tested a species of red algae called *Asparagopsis taxiformis* that grows off the coast of Queensland, Australia, they found it reduced methane production by more than 99 percent in the lab. In addition, it only required a dose of less than 2 percent to work effectively. Upon digestion, *Asparagopsis* produces a compound called Bromoform (CHBR3), which interacts with enzymes in ruminant stomachs and halts the cycle of methane production before the gas is released into the atmosphere.

In 2011, Dorgan sold his dairy farm in order to start selling seaweed-infused cow feed full-time. The company he part-owns, North Atlantic Organics, uses traditional methods of seaweed production like hand-raking and solar drying to reduce its carbon footprint and ensure the final product is free of additives.

However, researchers and farmers will have to overcome considerable roadblocks before the technique can be implemented on an industrial scale. Most dairy and cattle operations are located inland, far from the sea and its supply of seaweed. More importantly, producing enough *Asparagopsis* to feed even 10 percent of Australia's feedlot and dairy cattle would require upwards of 15,000 acres of commercial seaweed farms. Wild harvesting could work on a farm-by-farm basis, but the practice becomes unfeasible on a large scale.

"That is the number one barrier—getting enough seaweed to feed to millions of cows," Kinley said in an interview with Australia's ABC news. ★



DIVE & ACTIVITY CALENDAR

MANUEL MANGROBANG

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SEPTEMBER 2018

FRI. AUG 31 – MON. SEPT. 3 LABOR DAY WEEKEND AT ALBION

Coordinator: **Debby Alarcon**, (510) 471-0901. tandddivers@sbc-global.net. Come join Fellow Dippers for one of our biggest and best North Coast gatherings of the year. The Club has reserved camping sites for Friday through Sunday nights.

WEDNESDAY, SEPTEMBER 5 BUSINESS MEETING

Meeting will be held via email as Teresa is in Florida diving. Send any information on upcoming activities of interest or any other items to consider to Club President **Tom Gardner**: tomandjackieus@yahoo.com

SATURDAY, SEPTEMBER 8 SECOND SATURDAY SCUBA (S3) BREAKWATER

Coordinator: **Manuel Mangrobang**, 408-813-5139. manuel.a.mangrobang.iv@gmail.com. Manuel is planning a dive. Meet in the BREAKWATER Upper Parking Lot at 8:00 am and we'll decide where to dive based on

conditions and sign-ups. Bring 2 tanks and plan on making 2 dives. Please RSVP in case the dive gets cancelled or moved due to weather or surf conditions.

SUNDAY, SEPTEMBER 9 PANTHER BEACH CLEAN UP

Coordinator: **Hunter Reid**, (408) 871-8836. Meet at 9:00 A.M. Parking on the left just past mile

marker 26.4 on Hwy 1 north of Santa Cruz, just before the town of Davenport. The Club will buy lunch at the Whale City Bakery Bar & Grill in Davenport, for all who attend. YUMMY!

SUN, SEPT 9 – TUES, SEPT 11 CHANNEL ISLANDS TRIP WITH VAQUEROS DEL MAR

SATURDAY, SEPTEMBER 15 NO SCHEDULED DIVE

SATURDAY, SEPTEMBER 22 NO SCHEDULED DIVE

SATURDAY, SEPTEMBER 29 LOBSTER SEASON OPENS



UPCOMING IN OCTOBER

- 03 Business Meeting
- 13 Second Saturday SCUBA (S3)
- 17 General Meeting



GENERAL MEETING WEDNESDAY, September 19th

7:30 PM at the Knights of Columbus Santa Maria Hall 2211 Shamrock Dr., Campbell.

Celebrate 54 Years of the San Jose Flipper Dippers at our General Meeting.

Entertainment:

- ★ Presentation by Brian Nelson on MBNS.
- ★ Great Raffle Prizes

THE DOOR PRIZE IS \$10!
YOU must be present to win!

Great white shark makes U-turn off Carolinas coast

A great white shark was traveling north, hugging the coast of the Carolinas, when she suddenly veered off into deeper waters and took a sharp U-turn. Researchers have seen other female great whites travel in a similar pattern, and they think they might know why. "It's a move we've tracked other mature females make," said OCEARCH, a research organization that tracks sharks. "We suspect it means they are gestating."

So does this mean Miss Costa, a 12-foot-5-inch great white weighing in at 1,668 pounds, is pregnant? Only time will tell, OCEARCH said, and the organization plans to continue to track Miss Costa's progress. Little is known about great white shark mating and reproduction, and a birth has



never been observed in the wild. White shark embryos develop inside eggs in a "brood chamber" within their mothers. Shark pups hatch from the egg inside their mother's uterus and are born soon after. Whites reproduce once every two to three years and produce between two and 10 pups per litter.

Miss Costa has spent much of the summer in the warm waters off the coast of Florida, Georgia, South Carolina and North Carolina, according to OCEARCH.

Miss Costa was named for OCEARCH partner, Costa Sunglasses. She was tagged in 2016 in Nantucket, Massachusetts. In those two years, she's been tracked traveling more than 8,000 miles. ★

NOTE: All certified divers are encouraged to attend San Jose Flipper Dippers' dives.

Non-Club members will be required to show proof of certification to the dive coordinator prior to entering the water with our group. Please sign up for dives at the General Meeting or call the coordinator. This is needed in case of cancellation or changes.



San Jose Flipper Dippers

c/o 1350 Magnolia Avenue
San Jose, CA 95126-2106



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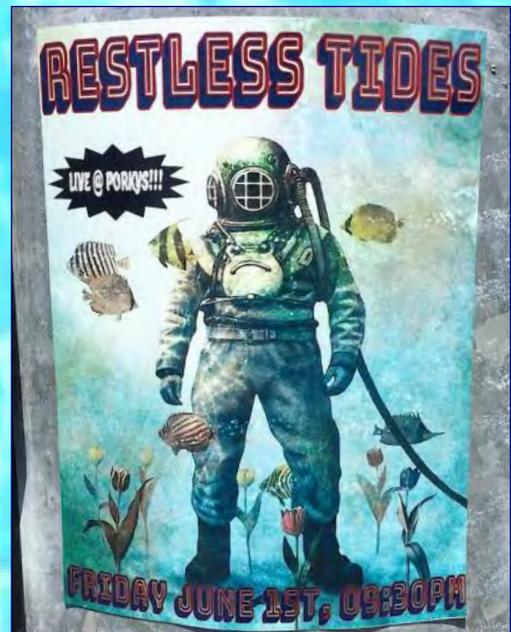


FIRST CLASS MAIL

2018 COMING EVENTS

Aug 31-Sept 3	Labor Day Weekend at Albion
Sept 1	No License Fishing Day
Sept 5	Business Meeting
Sept 8	Second Saturday SCUBA
Sept 9-11	Channel Islands - Vaqueros Del Mar
Sept 19	☛ General Meeting
Sept 29	Lobster Season Opens
Oct 3	Business Meeting
Oct 13	Second Saturday SCUBA
Oct 17	☛ General Meeting
Nov 1	Van Damme Reservations for May 2019
Nov 3	Business Meeting
Nov 13	Second Saturday SCUBA
Nov 17	☛ General Meeting

Watch This Space - Much More To Come!
See the Club's Website for the full Calendar



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