

NEWSLETTER



San Jose Flipper Dippers

SEPTEMBER 2019

GENERAL MEETINGS HELD
3RD WEDNESDAY
OF EACH MONTH
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First manned Titanic expedition in 14 years reveals 'shocking' deterioration

For the first time in 14 years, a manned dive has visited the RMS Titanic at the bottom of the North Atlantic Ocean. The world's most famous sunken ship rests 12,500 feet down on the icy seafloor, some 370 miles south of Newfoundland, Canada. This month, a deep-sea exploration team of experts and scientists completed five dives to the shipwreck over eight days, using a human-occupied submersible. They found the British passenger liner, the largest ship of its time, deteriorating rapidly.



The RMS Titanic wreck rests at the bottom of the North Atlantic Ocean, 370 miles south of Newfoundland, Canada, August 2019. (Atlantic Productions)

The Titanic, which was 882 feet long and weighed over 53,000 tons, sunk in 1912 after slamming into an iceberg during its maiden voyage from Southampton, England, to New York City. Of the 2,224 passengers and crew estimated to be on board at the time, more than

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Basking sharks filmed using underwater drones

Little is known about the world's second-largest fish

An autonomous "SharkCam" has been used in the UK for the first time as part of efforts to reveal the secret lives of basking sharks. Scientists from the University of Exeter have begun tagging the sharks so an autonomous underwater vehicle (AUV) can follow them below the surface of the water. Little is known about the world's second largest fish - despite being prevalent in the waters off the

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**SEPT 18TH
GENERAL
MEETING
ENTERTAINMENT**

Social Hour & Great Raffle!

At the August General Meeting we will be having a "Social Hour" to

give everyone the opportunity to share their stories of past dives and activities as well as discuss the many dives and events during the coming months.

You will also have time to purchase tickets to our monthly raffle for a chance to win some very interesting prizes! **The Door Prize is \$10!** Hope to see YOU there! ★

Refreshments Are Being Served

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

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PRESIDENT'S CORNER



As this newsletter was going to press there was a tragic fire onboard the dive boat Conception. The San Jose Flipper Dippers are saddened by this horrific news and like many in the dive community are heartbroken by this terrible loss. Due to this event, the Sept 8-10 3-day dive trip on the Vision has been canceled.



September is already here, which means summer is almost over, seems like it just arrived. That feeling is one of the main signs that you've gotten old. The annual Albion trip set for Labor Day was canceled and replaced with a camping trip to Big Sur. There was a dive at Monastery Beach, hiking, biking, wine drinking and conversations around the campfire are still activities which were enjoyed.

I missed all of last month because of a cruise to Alaskas' Inland Passage where the weather was in the 70s the entire time. Seems like Alaska is more like Monterey in the summer. The locals are concerned because the rivers are getting too warm for the salmon to spawn because they've had a drought for the last few years. Better get up there to catch fish before they are gone. Last month **Jim Rezowalli** lead a kayak trip at Elkhorn Slough, I didn't go but from the report I read it sounded like a real adventure!

Don't forget that October is when the Club dues are due and voluntary fees towards CenCal (Central California Council of Diving Clubs) and USofA (Underwater Society of America) to support their efforts on behalf of all divers in the areas of beach access along with conservation, and state and national legislation are also collected. These two organizations form an effective method for presenting the divers' interests state-wide and nationally.

Well hopefully the weather will hold to allow for some great diving.

– Your president **Tom**



San Jose Flipper Dippers

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o Position Open o

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CLUB COMMITTEES

Diver's I.Q. Review Corner

This month we have Two (2) Questions and each is worth a chance to win FIVE (5) raffle tickets for your correct answer!

Question No. 1: Which one thing causes more drownings in sport diving than anything else?

- A. Faulty equipment.
- B. Sharks.
- C. Poor diving conditions.
- D. Overestimating ability and exhaustion.

Question No. 2: What is the greatest hazard of nitrogen narcosis?

- A. It keeps the diver from caring about personal safety.
- B. It decreases the ability to work.
- C. It may cause changes in the mood of the diver.
- D. It slows down the diver's reflexes.



Send your answer by email to **Barbara Davis** at bjdscuba123@gmail.com. All attendees at the next general meeting with the correct answers will be included in a drawing for 5 free raffle tickets per question. Good Luck!



RAFFLE NEWS

Leigh Hartley Tuttle

There must have been a lot of Dippers vacationing in August as the general meeting attendance was a bit light. Only five items on the raffle table. **Jim Rezowalli** brought a nice bottle of Chardonnay which **Carl Tuttle** snapped up. **Manuel Mangrobang** brought a sidekick which Jim took. **Howard Timoney** was the big winner of the night. He took home \$10.00 cash donated by **Hunter Reid** and some foggies donated by **Larry Ankuda**. Larry also donated a cork hot pad and I unfortunately didn't see who nailed that – or if Larry took it back home. See you at the September general meeting!

THE DOOR PRIZE: The door prize is now \$10 as **Leigh Tuttle** drew **Jim Rezowalli's** name from the door prize can and he was at the meeting so he collected the \$20 prize! Remember, YOU must be in attendance to be eligible to win.

THIS MONTH'S RAFFLE: We're on our rotation for donations and 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 are asked to bring a dive-related gift: **Michelle Schimberg, Scott Schimberg, Bill Shipman, John Snyder, Howard Timoney** and **Carl Tuttle**. If you live out of the area or can't attend the General Meeting, please contact, **Leigh Hartley Tuttle** (1-408-829-3660, tutcomms@ sbcglobal .net) to send in a check. She will pick up a great 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. Thanks! ★

Dive Rite Recalls Its Low-Pressure Regulator Hoses

Dive Rite was notified by our long-term vendor Danicorp, Inc. in July 2019 of a safety concern affecting Rubber Low-Pressure Regulator Hoses produced between February 2018 and September 2018. Below is the statement received by the hose manufacturer:

"This product is now suspected of not adhering to the ANSI Z86 7.1 standard. Hose material marked with the Julian date codes of: 0308, 0388, 0598, 0808, 1648, 1738, and 1998 are the only hoses in ques-



MEMBERSHIP

Teresa Hanson

There are some 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.

A FREE raffle ticket would be given to any of the Dippers who have a birthday this month. But, alas, there are no September Birthday Dippers!

And *we don't have these* Dippers' birthday months, so you're missing out on a FREE raffle ticket: **Grace Chi**, and **Giani Dhaval**. So let me know your birth month so you can get a free raffle ticket when your month comes up. ★

CLUB DUES DUE NEXT MONTH

It is October again and time to pay your **annual dues** at the General Meeting. Dues help cover a portion of the yearly room rental. Each member will also be asked to sign an "Assumption of Risk Agreement" when dues are paid. These forms will be available at the October General Meeting.

Club Dues \$50.00 per year and **\$10.00** per year to receive this Newsletter via the U.S. Postal Service. Or download it FREE each month off the Club's Website in full color. Charter and Lifetime Members will

tion. These hose assemblies will have Danicorp's date coding (on the ferrule), as early as, D0218 (February 2018) through D0918 (September 2018)."

Dive Rite hoses affected by this notice were sold between February 2018 and July 2019. Suspect Low-Pressure Regulator Hoses sold by Dive Rite include the following sizes only: 6", 11", 18", 22", 28", 36", 40", and 84". Hoses were sold individually and as part of regulator or CCR packages.

If you have an affected hose, please contact the Dive Rite dealer that you purchased the hose from for assistance. ★



continue to receive the Newsletter by U.S. mail for FREE

GenCal (Central California Council of Diving Clubs) dues are **\$15.00** and USofA (Underwater Society of America) dues are **\$20.00**. (Pay online at: www.cencal.org/). These optional dues support the many efforts of CenCal and USofA on behalf of all divers in the areas of beach access along with conservation, and state and national legislation. These two organizations form an effective method for presenting the divers' interests state-wide and nationally.

A summary of our annual dues is as follows:

CLUB	\$ 50.00
Newsletter (U.S. Mail)	10.00
CEN CAL	15.00
USA	<u>20.00</u>
Total	\$ 95.00

Remember, associate member (non-diving spouses of Dippers) dues are **\$5.00**. Associate members may attend Dipper functions at member prices, but have no voting privileges. Also, dues must be paid by November 30th or you will incur a late fee of \$5.00. SO DON'T DELAY! ★

2019 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, email: 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

□ OPEN CATEGORIES □

Cabazon, Lingcod, Halibut, Sheephead, Lobster

Good luck to all!



Basking Sharks: continued from front page

west coast of Scotland.

Researchers hope the ground-breaking technology will uncover more about their underwater behavior, social interactions, group behavior and courtship of the species. Suzanne Henderson, marine policy officer at Scottish Natural Heritage (SNH), said: "These giant fish are spectacular and watching them feed gracefully at the sea surface is such a special and memorable experience. This year's collaboration has allowed us to use a combination of camera technologies and given us a glimpse of basking sharks' underwater behavior - a real first and very exciting. The footage has already made us reassess their behavior, with the sharks appearing to spend much more time swimming just above the seabed than we previously thought. It really brings home why it's so important that the species and its habitat are protected by designating the Sea of the Hebrides as a marine protected area (MPA)."

The REMUS SharkCam technology collects high-quality data and wide angle high-definition video of their behavior from a distance by following



the tagged fish. Initial footage from the AUV deployed off the coast of Coll and Tiree in July shows the sharks moving through the water column, potentially searching for food, feeding near the surface and swimming close to the seabed. Fieldwork took place in the proposed Sea of the Hebrides MPA - one of four possible protected areas currently under consultation by the Scottish Government.

MPAs are specially designated and

managed to protect marine ecosystems, habitats and species. It is suspected that basking sharks may even breed in Scotland - an event that has never before been captured on film. The Inner Hebridean area is one of only a few areas worldwide where large numbers of basking sharks are found feeding in the surface waters each year. Jenny Oates, of WWF, said: "Our seas and coasts are home to some incredible wildlife. "As our oceans come under increasing pressure, innovative technology like the REMUS SharkCam Robot

can reveal our underwater world like never before and help to show why it must be protected. It is essential that we safeguard our seas, not just to enable magnificent species like basking sharks to thrive, but because all life on earth depends on our oceans." The project has been carried out by a collaboration of bodies including SNH, WWF and the University of Exeter. 🌟

Titanic: continued from front page

1,500 died. The underwater wreckage was discovered 73 years later.

The last manned dive to the Titanic was in 2005, and this latest expedition was led by Victor Vescovo, an American private equity investor and retired naval officer who is the founder of exploration company Caladan Oceanic, Titanic historian Parks Stephenson, Rob McCallum, founder of specialist tour operator EYOS Expeditions, and a technical team from Triton Submarines. They surveyed the decades-old wreckage and used special cameras to capture it on 4k footage. The rusting hulk is crumbling from salt corrosion, metal-eating bacteria and deep ocean currents.

Stephenson said the "most shocking area of deterioration" was on the starboard side of the officers' quarters, where the captain had his rooms. There, he said, the hull has begun to collapse. The crow's nest, where a lookout once shouted an infamous warning — "Iceberg right ahead!" — has vanished. The forward mast has crumpled. The captain's cabin, where the British naval officer Edward John Smith was resting when his ship struck the iceberg, has collapsed, as has the poop deck where passengers gathered as the liner sank. "Captain's bath tub is a favorite image among the Titanic enthusiasts, and that's now gone," Stephenson said in a statement Wednesday. "That whole deck hole on that side is collapsing taking with it the staterooms, and the deterioration is going to continue advancing."

The team also performed photogrammetry passes on the Titanic's remains, which will allow them to produce photoreal 3D models of the vessel so they can assess the current condition and project its future. "The most fascinating aspect was seeing how the Titanic is being consumed by the ocean and returning to its elemental form while providing

refuge for a remarkably diverse number of animals," Patrick Lahey, president and co-founder of Triton Submarines, said in a statement Wednesday. Lori Johnson, one of the scientists of the expedition, said the rate of deterioration will speed up as natural types of bacteria work "symbiotically" to eat away the iron and sulphur. "The future of the wreck is going to continue to deteriorate over time," Johnson said in a statement Wednesday. "It's a natural process."

The team will release the full results from the expedition alongside a documentary being made by Atlantic Productions, a London-based company that filmed the dives. "It was extraordinary to see it all," Vescovo said in a statement Wednesday. "The most amazing moment came when I was going along the side of the Titanic and the bright lights of the submersible reflected off a portal and came right back, it was like the ship was winking at me." 🌟

NOMINATIONS FOR 2020 CLUB OFFICERS



At the November General Meeting we will be nominating Club members for the following offices: **President, Vice President, Secretary, Treasurer and Sergeant at Arms.** To be eligible to hold an office, one must be a current member in good standing. Presidential nominees must have been a club member for at least two years. Holding an office is a rewarding experience as well as being of benefit to the club. This is your chance to *get involved* and voice your ideas as to the future of the San Jose Flipper Dippers. The election of our officers will take place at the December General Meeting. 🌟

'Magnetic' Liquid Removes Harmful Microplastics from Water

An 18-year-old has found a way to use 'magnetic liquid' invented by NASA to remove harmful microplastics from water. Microplastics, or tiny bits of plastic less than 5 millimeters long, accumulate in wastewater before filtering into larger bodies of water like rivers and oceans. At age 18, Fionn Ferreira developed a method for removing these harmful plastic particles using a liquid invented by NASA. Ferreira introduced his concept at this year's Google Science Fair. He won the competition and its \$50,000 prize.

Fionn Ferreira lives on a remote island in West Cork, a seaside region in southern Ireland. One day while kayaking, he spotted a rock on the shore that was coated in oil from a recent spill. Attached to the rock were tiny bits of plastic less than 5 millimeters long — what scientists call "microplastics." Because microplastics are so small — about the size of a sesame seed — scientists have struggled to find ways to remove them from the environment. But Ferreira discovered something when he saw the oil-coated rock on the shore.

"It got me thinking," Ferreira said. "In chemistry, like attracts like." Plastic and oil are nonpolar, meaning they're likely to stick to one another in nature. As a budding scientist, Ferreira had a hunch that the same effect could be created using a magnetic liquid found in speakers and electronic devices.

Ferreira won the Google Science Fair's \$50,000 grand prize for his experiment, which showed that the liquid could extract microplastics from water. Microplastic fragments come from a variety of sources, including beauty products, toothpaste, and microfiber towels, as well as larger pieces of plastic that have broken down over time. As a result, microplastics often accumulate in bodies of water like the ocean near Ferreira's home, posing a danger to marine life.

They can also end up in our food and water. Scientists have estimated that Americans consume up to 52,000 microplastic particles each year, but the consequences for human health are still unknown. One of the main concerns is that microplastics could carry toxic chemicals like phthalates and bisphenol A (BPA) into our bodies. These chemicals have been linked to cancer and reproductive issues.

In 1963, the NASA engineer Steve Papell came up with a way to make rocket fuel magnetic so that it could move around in zero gravity during the Apollo missions. In the process, he wound up creating the first ferrofluid, essentially

a magnetic liquid. Today, the substance helps control vibrations in speakers and seal off electronics so they don't become clogged with debris. It's also a key part of Ferreira's plan to remove microplastics from water.



"I absolutely love ferrofluid," said Ferreira, who makes his own version of the liquid by suspending magnetite powder — a mineral found naturally on Earth's surface — in vegetable oil. (The leftover oil from fast-food chains like McDonald's works well, he said.) Unlike rocket fuel, Ferreira's mixture isn't harmful to the environment, but it does attract plastic from all types of water, including rivers and oceans. Ferreira said the most

unique part of his mixture is that it can be used to remove plastic from wastewater — water discarded from homes, businesses, and industrial plants, for example. Studies have found that the world's wastewater treatment plants aren't equipped to filter out microplastics, even though they're major contributors to microplastic pollution.

For his experiment, Ferreira injected ferrofluid into small glasses of water contaminated with microplastics. At first, the water turned black because of the magnetite, but when Ferreira placed a magnet inside the glass, it started to soak up all the fluid. Eventually, the water inside the glass was clear and mostly free of plastic.

Before embarking on his experiment, Ferreira wagered that his magnetic liquid could remove at least 85% of microplastics from his water samples. He wound up removing around 88%. Of the 10 microplastics he tested, the most difficult fibers to remove came from polypropylene, a type of plastic used in product packaging, Ferreira said. But even then, Ferreira removed about 80% of polypropylene plastics, on average.

The easiest fibers to remove, he said, were those released by washing-machine filters. Ferreira said that's an important finding because washing machines are a common source of microplastic pollution. After traveling to Mountain View, California, for the science fair, Ferreira is now back in Ireland, recovering from jet lag.

"I still really can't believe it," he said of the competition. "There are lots of different emotions in my head at the moment." Later this year, Ferreira will begin studying at the University of Groningen in the Netherlands, a research institution below sea level. ("What's cooler than being at a university that's 6 meters under the surface of the sea?" he said.) Meanwhile, he'll try to deploy his concept for treating wastewater. "I'm not saying that my project is the solution," he said. "The solution is that we stop using plastic altogether." 🌟



WuMo by Wulff & Morgenthaler



Mystery submarine spotted in Monterey Bay

There was an unusual sighting in Monterey Bay over a July weekend: a submarine docked at Fisherman's Wharf and in the bay.

"We are out here every day so any interesting boats around, we definitely notice them," said Andrew Kim, who saw the submarine. Kim works at Monterey Fish Co. on Wharf 2. Rumors followed of what the submarine is doing in Monterey Bay.

"There were some people talking about might've been a drug smuggling boat," Kim said. Action News 8 found the owner of the submarine, Taran Smith, who happened to play the youngest son, Mark Taylor, on the TV show Home Improvement. He explained that the sub

wasn't being used for anything nefarious. "No, we are not smuggling drugs, we are not attacking the U.S., we are just all Californians having a good time," Taran Smith said.

Smith says it's not only about having a good time, but

teaching people how to pilot the submarine. The sub was originally made for the Swedish navy and was purchased in Florida.

Community Submersibles, a Berkeley California-based company, uses the sub for their piloting program. Smith teaches people how to dive the Shamu-themed submarine down its allowed 600 feet. "I'm interested in seeing stuff," said Matthew Storch, pilot trainee. Storch said he has been on a submarine before but has never piloted one and that's one of his aspirations for the program. Storch added that, "I've had a

fascination of nautical things since I was a child." Smith said he was born and raised on a boat, and learning to work a submarine was a natural outcome for him. "We want to be able to help people with the true beauty and wonder that is under the ocean at all

times," Smith said. If you're interested in learning how to pilot a submarine, click here: www.communitysubmersiblesproject.com/.



★ NOCTILUCA ★

Noctiluca is a 2-person diesel-electric sub, with diesel power on the surface and a range of about 500 miles, and electric underwater. She has enough life support (oxygen and CO2 scrubbing capability) to stay underwater for 72 hours, and can dive for up to 24 hours under one battery charge. She has a 'crush depth' of 1250' and is technically rated to dive 300', but by today's safety factor she would be rated to much deeper based on her engineering specs. We plan to do extensive upgrades and materials testing to get her diving as deep as she can safely go!

Noctiluca is an incredibly unique submersible-submarine hybrid because of her diesel motor. The diesel gives her an enormous surface range, as well as the ability to charge the onboard batteries and fill the air tanks without a mothership. That makes her capable of remote expeditions and vastly less expensive to operate than comparable subs! ★

Underwater Sound System

Scientists have installed an underwater sound system they hope will reduce collisions between whales and ships in the Santa Barbara Channel off Southern California. A listening station on the channel floor is able to capture whale calls as far away as 30 miles (48 kilometers), the Los Angeles Times reported Friday. That device is connected by cable to a buoy floating above that transmits data by satellite to scientists on shore.

From there, captains can be alerted to slow their ships down or reroute. It's the latest attempt to prevent ships from running into whales in the channel, where cargo vessels in and out of the ports of Los Angeles and Long Beach cross feeding grounds of endangered blue, fin and humpback whales. "The Santa Barbara Channel is like a buffet for a lot of whales," said Douglas McCauley, director of the Benioff Ocean Initiative at University of California, Santa Barbara, which is sponsoring the \$1.5 million project. That hotspot

happens to be right on the marine highway, kind of like the offshore version of the 101 (freeway) that connects Santa Barbara to the ports of LA/Long Beach."

In 2007, five blue whales were found dead in the channel. Efforts to reduce deaths have included shifting the ship traffic lanes and offering financial incentives to companies that follow the National Oceanic and Atmospheric Administration's request that ships slow down during whale season. It hasn't been enough. In 2018, 11 whales in California died in ship collisions, the highest number NOAA's National Marine Fisheries Service has on record and a surge from the average 3.8 annual deaths over the previous five years. This year, at least 11 whales are known to have died, according to the Times. Deaths often go unreported because



whales typically sink when they die and are hit in remote areas. A 2017 study found that ship strikes kill more than 80 whales off the West Coast annually.

The sound system is being tested and will fully launch in early 2020. (Los Angeles Times) ★

DIVE & ACTIVITY CALENDAR

MANUEL MANGROBANG

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SEPTEMBER 2019

WEDNESDAY, SEPTEMBER 4 BUSINESS MEETING 7:30 PM

Meeting will be held at **Teresa Hanson's** home (408-966-6433, teresa33b@gmail.com). All members are invited to attend. This is a good time to share your new ideas for dives and entertainment. Refreshments to share are welcome. This could be the last BBQ of the season, so be here by 6:30 with your food if you wish to BBQ.

SATURDAY, SEPTEMBER 7 NO SCHEDULED DIVE

SATURDAY, SEPTEMBER 14 SECOND SATURDAY SCUBA (S3): NONE SCHEDULED

Coordinator: **Manuel Mangrobang**, 408-813-5139, manuel.a.mangrobang.iv@gmail.com. If you want to go diving anyway, let Manuel know and he can set one up for you.

SATURDAY, SEPTEMBER 21 INTERNATIONAL COASTAL CLEANUP DAY

See article below for local cleanup options.

GENERAL MEETING WEDNESDAY, September 18th

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

Celebrate 55 Years of the San Jose Flipper Dippers at our General Meeting.

Entertainment:

- ★ Social Hour
- ★ Great Raffle

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

SATURDAY, SEPTEMBER 27-29 REEF Marine ID Program

Join REEF in Monterey for 3 days of diving, ID classes and fun! On the schedule is diving at Point Lobos, fish and invertebrate ID classes in San Jose, and more diving at the Breakwater. Full details and to sign up visit: www.reef.org/monterey2019

SATURDAY, SEPTEMBER 28 LOBSTER SEASON OPENS



UPCOMING IN OCTOBER

02 Business Meeting
12 Second Saturday SCUBA
16 General Meeting



International Cleanup Day

September 21st is International Coastal Cleanup Day, and not just beaches. I'll spearhead a nearby clean-up, and the CA Coastal Commission lists areas right here in San Jose that want volunteers. They have contacts listed and they provide gloves and pick-up sticks; just bring water and sunscreen. Nearby choices include:

- Coyote Creek
- Coyote Reservoir
- Uvas Reservoir County Park
- Los Gatos Creek County Park
- Guadalupe Reservoir County Park
- Anderson Lake County Park
- Stevens Creek Reservoir

For more information and to sign-up contact **Larry Ankuda** via email: lankuda@comcast.net. ★



California marine life ID classes and fun!

If anyone is interested in learning California fish and invertebrates, there's a great FREE opportunity Sept 27-29 with REEF: Reef Environmental Education Foundation. Join REEF in Monterey for 3 days of diving, ID classes and fun! Learn or get reacquainted with the REEF Volunteer Fish Survey Project and how you can participate. On the schedule is diving at Point Lobos, fish and invertebrate ID classes in San Jose, and more diving at the Breakwater. It's all FREE (except for Pt Lobos registration/entrance fees.) Full details and to sign up visit: www.reef.org/monterey2019 ★

iPhone to Work Underwater?

Apple has applied for patents that will automatically adjust an iPhone for taking pictures underwater. An assortment of sensors will determine the murkiness of the water, how much light is absorbed by the water, and the color adjustment necessary to account for the selective absorption of the light. The latest iPhone is due to be announced in September, so let's see if there is something special for underwater photographers. ★



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 1108 Sunset Landing
Rio Vista, CA 94571-5148



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FIRST CLASS MAIL

2019 COMING EVENTS

Sept 4	Business Meeting
Sept 14	Second Saturday SCUBA
Sept 18	👉 General Meeting
Sept 21	International Coastal Cleanup Day
Sept 28	Lobster Season Opens
Oct 2	Business Meeting
Oct 12	Second Saturday SCUBA
Oct 16	👉 General Meeting
Oct 19	Wine Tasting & Picnic
Nov 6	Business Meeting
Nov 9	Second Saturday SCUBA
Nov 20	👉 General Meeting - Nominations for Office
Nov 21	Reservations Memorial Day Weekend (May 21, 2020)
Dec 4	Business Meeting
Dec 14	Second Saturday SCUBA
Dec 18	👉 General Meeting Election of Officers & Christmas Raffle



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



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