

SDF News Sheet – April 2018

Monthly newsletter of
Scuba Dive SA
(The SCUBA DIVERS FEDERATION of SA)

Contact us via:
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Major sponsor - Mile End Office Furniture
We also acknowledge the support of the Rob Roy Hotel,
Dell'Uva Wines Estate and Aussie Divers Phuket

Scuba Dive SA is the peak body in South Australia,
We represent all recreational divers in SA.
We have helped to protect the ocean environment.
We have been instrumental in preserving jetties, sharks, etc..
We need your support to continue to serve all divers.

This monthly electronic news sheet is provided as a service to our members. Our monthly newsletters (and any bulletins) can be downloaded from <http://www.sdfsfa.net/newsletters.htm>.

Daylight savings ended on 1st April, so the days are now much shorter. Hopefully everybody made the most of the Easter holiday. The public holiday for Anzac Day (25th April) falls on a Wednesday this year.

NEXT MEETING

The next meeting of Scuba Dive SA is being held in the Conference Room on level 2 in The Braggs building (see <https://www.adelaide.edu.au/ipas/images/the-braggs/map-the-braggs.png>) at the University of Adelaide at 7pm on Tuesday 24th April (night before Anzac Day). The address is Victoria Drive, Gate 8. Car parking is available on Victoria Drive. Walk in Gate 8 and through the big double doors in The Braggs building.

ScuBAR

Our next ScuBAR is being held at 6pm on Friday 13th April. Our speakers are Mark Tozer (Dive for Cancer), Carey Harmer and Anita Nedosyko (Marine Restoration Coordinator, Nature Conservancy). Visit <https://www.eventbrite.com/e/scuba-in-the-pub-tickets-44737415815> to book your free tickets to the event. Our ScuBARs are sponsored by the Rob Roy Hotel, Mile End Office Furniture and Dell'Uva Wines Estate. Dell'Uva Wines are at Freeling in the Barossa Valley where they have the largest range of imported Spanish, Italian, Portuguese & French alternate wine varieties. They have now got their cellar door open at Greenock. Our thanks go to the Rob Roy Hotel, Mark Tozer of Mile End Office Furniture, Darren Gaspari of Aussie Divers Phuket and Wayne Farquhar at Dell'Uva Wines for their generous support of our Federation.

GET WELL SOON PAUL

We wish Paul Macdonald from downunderpix a speedy recovery from his recent knee operation.

UNDERWATER EASTER EGG HUNT

Adelaide Scuba held an underwater Easter egg hunt at the Glenelg Blocks on Easter Sunday.

APRIL DIVE LOG PACKED WITH SA CONTENT

The April issue of Dive Log magazine is once again packed with SA content. The Mares winner for the month was Coraline Florequin from SA. There is a nudibranch found at Rapid Bay jetty on page 12. Other SA photos feature on pages 14 & 15. There is an advert for Whyalla on page 23. This is followed by a 2-page article by Jeff Bowey about Whyalla's cuttlefish. The article features photos by both Jeff and Chris Deane (plus another by PT Hirschfield). Heather Creech has started a new feature about citizen science to accompany her regular column. Jeff Bowey is the underwater photographer of the month put under the spotlight. Christopher Deane's SA Snippets column and our own Scuba Dive SA page complete a long list of SA content for the month.

DIVE-OZ CLOSED DOWN

Meanwhile, Dive-Oz closed down at the end of March after more than 19 years of being online. Dive-Oz was reputedly "Australia's Favourite & Oldest Scuba Diving Website".

CLUB NEWS

Marine Life Society meetings at Adelaide Scuba will now start at the earlier time of 6.30pm. Meetings are normally held on the 3rd Wednesday of each month (Feb to Nov). The April meeting, however, is being held on Friday 20th April (at 6.30pm).

DIVE FOR CANCER RESULT

This year's DFC raised \$29,388.86. That brings the total raised over five years to \$101,749.92 in SA. Well done to all concerned. Mark Tozer will present an update on DFC at our ScuBAR on Friday 13th April.

UNDERWATER MAZE THAT HOLDS LIFE THAT SURVIVES ON METHANE

Video footage of a cryptic underwater maze that holds life that survives on methane can be viewed at <https://www.msn.com/en-au/video/watch/this-cryptic-underwater-maze-holds-life-that-survives-on-methane/vi-BBKxxOU?ocid=spartanntp> .

OCEAN FILM FESTIVAL

Many groups and shops enjoyed the recent Ocean Film Festival at the Capri Theatre. The films were said to be inspirational. The International Ocean Film Tour (Vol. 5) is screening at the Adelaide OpenAir Cinema at Brian Nadilo Reserve, Glenelg at sunset on Tuesday 3rd April. The film tour is a celebration of our love of the ocean. The night involves a series of short films. The films feature the best ocean adventures and environmental documentaries,

including sailing, surfing, diving, kiteboarding, ocean photography and conservation. There will also be a prize giveaway on the night. Check out more at www.oceanfilmtour.com/au. You can watch the trailer at <https://www.facebook.com/oceanfilmtour/videos/1311135772319976/>. Details about the event and ticket sales can be found at <https://www.facebook.com/events/144790482882340/>. Tickets can be purchased via https://www.oceanfilmtour.com/au/tickets/details/event-international-ocean-film-tour-2018-american-express-open-air-cinema-perth-2018-04-03_19-00/.

UNDERWATER IMAGE ENHANCEMENT PAPER

A paper titled “Evaluation of Underwater Image Enhancement Algorithms under Different Environmental Conditions” can be found online at <http://www.mdpi.com/2077-1312/6/1/10/pdf> (other Related Articles can be found on the page). The abstract for the paper can be viewed at <http://www.mdpi.com/2077-1312/6/1/10>.

ROBOTIC FISH CHECKS OUT THE SECRETS OF THE OCEAN

According to the web page found at <https://www.axios.com/newsletters/axios-science-3778d5f6-519a-4447-a20f-6f0c847c17c7.html>, “Robert Katzschmann sees a future filled with swarming robotic fish that can "find out the secrets of the ocean."”

He and his colleagues have built a soft robotic fish that can swim at depths of up to 60 feet alongside divers who occasionally ping it directions to dive or speed up. Further details are included in the April issue of our SDFSA Bulletin (retitled “Scuba Dive SA Bulletin”).

HISTORIC ANCHOR DISCOVERY AT EDITHBURGH

When “Scuba Steve” Simmons and Steve ‘Robbo’ Robinson both went for a scooter dive from Edithburgh jetty, on 5th of February, they fell over a large anchor that they hadn’t seen or heard of before. According to Scuba Steve, “The anchor is massive and has only one fluke. I believe it was made like this as it is a mooring anchor. It would weigh at least 2 ton and (it is) approximately 3m x 2m. SS went on to say, “I think there is potential to promote this as another dive for divers to visit this anchor as an alternative or second dive after diving the jetty. The anchor is situated only a couple of hundred metres out from the swimming pool! You can read it all about it at <https://wp.me/p4BvtZ-Kp>. Get down to Edithburgh and check out this latest discovery soon.

MORE ON ANCHORS

“Star of Greece” author, Paul Simpson says that the large anchor at Semaphore jetty is the Swing Anchor from *Star of Greece*. “It’s a Trotman’s anchor,” he says, “she carried two (Trotman’s anchors) and two admiralty patents (anchors).” Paul also says that the Trotman’s anchor down at the Patawalonga at Glenelg is an old mooring anchor, adding, “there are still several down there out past the outer end of the old L-shaped pier.” When asked about the newly discovered anchor at Edithburgh, Paul Simpson says that it “could be a mooring hook or a slipped cable in a bad blow, depends, though she's well set so could have been a mooring.” “Some Anchor Stories” can be found at <http://mlssa.org.au/2018/03/31/some-anchor-stories/>.

NEW SENIOR MARITIME HERITAGE OFFICER

Welcome to Rick Bullers, who replaced Amer Khan as the Senior Maritime Heritage Officer for Heritage South Australia | Economic and Sustainable Development in the Department of Environment, Water and Natural Resources.

GIRT SCIENTIFIC DIVERS

Rick Bullers, Senior Maritime Heritage Officer for Heritage South Australia | Economic and Sustainable Development in the Department of Environment, Water and Natural Resources is behind Australia's newest citizen science project, GIRT Scientific Divers. GIRT Scientific Divers is a call to South Australian divers (+18) who love diving shipwrecks or other underwater cultural heritage sites. The project, supported by the South Australian Maritime Museum and Heritage South Australia, is part of a PhD research project that aims to better the condition of ship wrecks around Australia and New Zealand and the factors driving shipwreck site preservation or deterioration. GIRT Scientific Divers will be conducting a pilot project between July and December 2018. Interested individuals should email girtscientificdiver@gmail.com . Training will be conducted in South Australia from 23 July to 3 August 2018.

FROM RAPID BAY TO NO WHERE ELSE

Driving down Main South Rd to dive at Rapid Bay jetties, the turn-off to Rapid Bay is appropriately Rapid Bay Rd. At the Rapid Bay township, the road becomes Finniss Drive (not to be confused with Finniss Vale Drive at Second Valley). The road off to the right towards the jetties and camping ground is called Colonel Light Drive (after Col. William Light who landed there on 8th September 1836. Rapid Bay is named after Light's ship, HMS *Rapid*.) The road across the creek towards the camping ground and toilets is called Essington Lewis Drive (after the former Managing director of BHP who built the town and jetty in the 1930s & 40s – see below). Essington Lewis Drive goes up the hill behind the toilets, and around the oval before heading back to Rapid Bay Rd. That side road at the top of Rapid Bay Drive that goes down towards Delamere is called Lord Rd. A road running off Lord Rd is called No Where Else Rd. That road crosses over No Where Else Creek.

ANNIVERSARIES

16 YEARS AGO, the 32m-long MV *Seawolf* was scuttled by the Seawolves Dive Club on 23rd March 2002 at the Port Noarlunga Tyre Reef.

9 YEARS AGO, a new \$3.9m, 240m-long, steel and concrete jetty was opened by Patrick Conlon, Infrastructure Minister, on 11th March 2009*. The new jetty had a purpose-built divers platform providing easy access to the water.

* (67 years after the first jetty was completed – see below.)

76 YEARS AGO, construction of the first Rapid Bay jetty (which started in September 1940) was finished in March 1942. (According to the web page found at <http://www.rapidbayjetty.org/history.htm> , “The jetty was constructed as part of the works undertaken to establish the mine during the period 1938 to 1942. The works also included the small town located immediately above what is now the camping ground for accommodation of the construction personnel and the future mine's workforce as well as a high voltage power line from Willunga to Rapid Bay. Construction of the jetty started in September 1940 and was finished in March 1942. Work was carried out around the clock due to the availability of electricity to supply floodlighting. The presence of bedrock close to the surface of the seabed

slowed progress for the first 183 m as drilling and blasting was required before timber piles could be driven into the seabed. The jetty was first used on 5 September 1942 when 5,286 tons (5382 tonnes) of limestone loaded onto the SS *Iron Knob* for transport to Whyalla.” 9 YEARS AGO, construction began on the Port Stanvac Desalination Plant in March 2009. The plant’s official opening was 5 years ago on 26th March 2013.

JETTY NEWS

It was recently reported to us that scuba divers had been unable to (or had difficulty with) exiting the water at the new steps on the Port Hughes jetty at low tide. It was suggested that divers of below average height find it difficult to exit at low tide. We contacted the Copper Coast Council, advising them that there used to be a vertical ladder attached to the steps which enabled divers to exit at any time of day. We asked Council if it is possible for another ladder to be installed at the steps. Council informed us that it has now had discussions with the Wallaroo & District Dive Club who will assist with the installation of steps. Our thanks go to both the Council & the Dive Club for their efforts.

Meanwhile, the Wallaroo and District Diving Club have relocated the memorial for Paul Gianoni. It is not by the steps anymore. Please feel free to take a dive to see the memorial in its new location under the jetty.

The proposed new diver steps at Port Noarlunga are going to be built during the winter season this year and will be ready for the start of the next ‘diving season’ in October.

The Henley Beach jetty will be closed for repairs, including stairs, from 3rd April until mid-August.

A new \$3.4m, 145m-long jetty, with a 145m circular boardwalk, is to be built at Whyalla this year.

ALUMINIUM CYLINDERS WITH A HYDRO TEST DATE BEFORE 1996 MAY BE CONDEMNED

Following last month’s report regarding the recent ‘failure’ of an aluminium dive cylinder hydrostatic test based on age alone, our Federation investigated the incident. The 1989 ally in question had been tested several times in the past 5 years but it had now been condemned based on the year of manufacture. It was unclear at the time as to what had changed to cause the test station to suddenly reject a tank for testing. We visited the station to enquire about their procedures. We also searched online for any relevant details concerning the hydrostatic testing of old aluminium dive cylinders. It seems that a few cylinders have failed tests recently due to age alone. Everyone should now be prepared for having their old cylinders condemned on age alone. Everyone’s safety is paramount. Certainly, do not fill cylinders that are not in test. A full report on this matter can be found in the April issue of our bulletin (now titled “Scuba Dive SA Bulletin”).

ANNUAL CUTTLEFISH AGGREGATION AT POINT LOWLY

Giant Australian cuttlefish will be aggregating at Point Lowly from late May into June and July. An article by Jeff Bowey about the aggregation features in the April issue of Dive Log.

NEW GOVERNMENT'S POSITION ON MARINE PARKS

A Liberal State Government was elected in SA in March. There are now some concerns about the new government's position on Marine Parks & other issues that may impact on the marine environment. The new Environment (and Water) Minister is David Speirs.

New Premier, Steven Marshall quickly terminated Sandy Pitcher's contract as the Chief Executive of DEWNR (Environment Department). Liberal party policies during the recent election campaign include:

- Review of marine park sanctuary zones
- Reform of commercial fishing industry
- Modernising aquaculture legislation
- Measures to protect Adelaide's coastline
- Replacement of NRM Act with new Landscapes SA Act.
- Adelaide Mt Lofty NRM Board to be abolished. Creation of 2 new Boards and also Green Adelaide to focus on ecology of metro Adelaide
- NRM levies to be capped and must be spent within region paid
- New national park in southern suburbs
- Increase to park ranger numbers

Meanwhile, the Federal Government recently announced its intention to cut protections in Australia's marine national parks.

SUBMISSION ON THE PROPOSED DREDGING AT OUTER HARBOR

The Friends of Gulf St Vincent recently asked Dr Scoresby Shepherd, Honorary Research Fellow at SARDI Aquatic Sciences, PIRSA to make a submission to the Government Committee advising the Minister on the dredging and dumping of sand, etc.. after the proposed dredging at Outer Harbor. The proposal is to deepen Outer Harbor and an area in the Port River by 4–5m to accommodate much larger container ships loading/unloading at the Port. The proposed dumping site for the dredged silt is ~30 km offshore (due west of Outer Harbor) at a depth of 20–25 m. This is far beyond the deeper depth limit of seagrasses which is 10–15 m deep. Alternatively, the dredge material could be dumped inshore or piped onto low-lying salt-fields no longer used. The advice received was that pumping dredge material on land was far costlier than the offshore option. Dr Shepherd consulted researchers at SARDI who have examined the offshore site. This site is now a completely barren desert as it is the site where dredged sand had been dumped in 2004 after previous dredging. Dr Shepherd had done his own surveys in the 1960s and he found that these deep waters contained a largely molluscan fauna (razor shells + ascidian epifauna, and native oysters, etc..). Many years of prawn harvesting had ensured that very little fauna was left, and the 2004 dumping had completed the desert. Dr Shepherd presented this evidence to the committee and recommended that, if the best option of pumping the material on land was ruled out because of cost, then the next best option was to dump it all at the same deep offshore site. This view was also in accord with the advice of the EPA.

PORT RIVER EAST STORMWATER MANAGEMENT PLAN

Important information re plans to clean up the Port River and coast can be found in the "Port River East Stormwater Management Plan". See the web page at

<https://www.portenf.sa.gov.au/webdata/resources/project/PRE%20Environment.pdf> .

IMPROVED ROCK LOBSTER FISHERY CATCH

The Southern Zone Rock Lobster Fishery catch had improved by 73% by the end of January, just 4 months into the season (1/10-30/5). The fishery had caught 90% of its total allowable catch (1245.7 tonnes) by the end of January. There was also an increase in the number of undersize lobsters caught and released. Meanwhile, the SA Northern Zone Rock Lobster Fishermen's Association is considering claiming compensation against the State Government following the ban on fishing in 6% of its fishing zone which was classified as a sanctuary zone. Indications are that the marine park system is working well and there are sufficient stocks of rock lobster to go around.

VALE ROD HARTLEY

Our condolences go to the family and friends of Rod Hartley who died during February following many years of dementia. Rod had previously been involved in Shark Shield and the wreck of the *Pilar* (the Spanish galleon *Nuestra Senora del Pilar de Saragoza y Santiago* off Guam). The *Pilar* was sailing on the return leg of its maiden voyage from Acapulco, Mexico to Manila in the Philippines in 1690. On 2nd June, she was running parallel to the Cocos Islands off the southern tip of Guam, heading for the protected waters of Umatec Bay. She attempted to clear a reef with the aid of a strong wind which suddenly died. The ship was caught in strong currents around the reef. She smashed into the reef, fractured her hull and sank. The wreck site was discovered in 1985 and local diving identities John Bent & Paul Lunn, along with Rod Hartley, became involved in searching for a huge treasure onboard the wrecked ship.

ANOTHER GREAT LAKES WRECK DISCOVERED

Speaking of shipwrecks, the wreck of the steam barge *Margaret Olwill* has been found off the Ohio shore in Lake Erie by Rob Ruetschle. Rob started searching for the wreck nearly 30 years ago. He found the 1899 wreck last year. The identity of the wreck has only been confirmed recently. Eight people died when the vessel went down during a storm whilst she was bound for Cleveland.

SA SCUBA WEEK

We are introducing an SA Scuba Week from 22nd-28th November. We hope to make it an annual event. 2018 is the 50th anniversary of scuba diver representation in SA, some 10 years before the SDF was formally incorporated. We will hold our Scuba in the Pub at the Rob Roy Hotel on Friday 23rd November and we will have equipment & vintage dive gear on display. We invite all SA dive shops to participate in our SA Scuba Week.

DAVID ATTENBOROUGH'S MOST FAVOURITES

According to the web page found at <https://www.sbs.com.au/news/sir-david-attenborough-honoured-for-work-highlighting-australia>, Sir David Attenborough stated that his most favourite place in the world is North Queensland and the Great Barrier Reef. He also stated that the leafy seadragon is his most favourite animal on the planet.

RUBBISH DUMPED AT SEA

According to episode 4 of David Attenborough's Blue Planet II, (<https://www.9now.com.au/blue-planet-ii/2018/episode-4>), 130m containers are transported via sea each year. An average of four containers a day are lost in the sea. 8m tonnes of plastic are also dumped in to the sea each year. Visit <https://www.telegraph.co.uk/news/2017/10/26/shocking-photo-shows-caribbean-sea-choked-death-human-waste/> to view some shocking rubbish in the Caribbean Sea.

CONGRATULATIONS

Congratulations to Wet Sounds Adelaide on being awarded the Bank SA Best Film, Digital or Interactive award at this year's Adelaide Fringe Festival.

Congratulations go to Underwater Sports Diving Centre which is now an official PADI 5 Star IDC Centre and they are looking forward to running a part-time IDC.

MARINE MOSAIC TRAIL AT TUMBY BAY

Eric Kotz thinks that divers visiting the area around Tumby Bay jetty may enjoy a nice walk from the jetty up to the caravan park after a dive. There are about a dozen mosaics, with one about every 100 metres or so. The mosaics are about a metre in diameter, brilliant in detail for mosaics. They reflect what S.A. coastal waters have to offer. The mosaics appear at random intervals, cast into Tumby Bay's new cycling/walking trail along the foreshore. Eric says that they are sensational. "Adults and kids alike will absolutely love them. Everything featured can be seen from, under, or around, or near the town jetty and the foreshore, including the birds and even the sleepy lizard!"

HARDHAT SOLD FOR \$1600

Not quite scuba diving, but someone recently paid \$1600 at Scammells Auction House for a WWII Japanese Yokahama Sensuigu diver's hardhat helmet that has been converted in to a light fitting last month.

QUEENSLAND'S NEW CODE OF PRACTICE FOR DIVING AND SNORKELLING

The Queensland Minister for Education approved "Recreational Diving, Recreational Technical Diving and Snorkelling Code of Practice 2018" in February. It is available at https://www.worksafe.qld.gov.au/_data/assets/pdf_file/0004/152329/rec-diving-rec-tech-diving-snorkelling-COP-2018.pdf

AUSSIE DIVERS PHUKET OFFER TO OUR FACEBOOK GROUP MEMBERS

Darren Gaspari at Aussie Divers Phuket is offering our Facebook group members discounts for diving in Phuket. He is offering 10% discount on all PADI Courses, 15% off liveboards and scuba diving day trips and 20% discount on our luxury day trip speedboat. "We love to see some of the group over here. Happy to take good care of them when they are here," he says. To take advantage of this generous offer, email info@aussiediversphuket.com and tell them that you heard about special discounts being offered to Scuba Dive SA Facebook group members. Visit either <https://www.aussiediversphuket.com/> or <https://www.facebook.com/AussieDiversPhuket/> for more details.

SHARK SHIELD BECOMES OCEAN GUARDIAN NOW

Shark Shield has changed its name to Ocean Guardian. The shark deterrent manufacturer is also preparing to list on the Australian Securities Exchange. The new branding of the company and its products is designed to make it more enticing to divers and surfers (& less enticing to sharks).

SCUBA DIVE SA BULLETIN

Attached along with this SDF News Sheet is a copy of the latest issue of our bulletin. We have now retitled it the “Scuba Dive SA Bulletin”. It is an electronic bulletin separate to our normal monthly SDF News Sheet. This issue includes the following items: -

Robotic Fish Checks Out the Secrets of the Ocean

Aluminium Cylinders with a Hydro Test Date Before 1996 May Be Condemned

Future issues of our “Scuba Dive SA Bulletin” will include lengthy articles about matters of interest to recreational divers. We welcome contributions from our readers.

FORTHCOMING EVENTS:

ADEX 2018

ADEX is being held in Singapore 6-8th April. Visit www.adex.asia or see page 77 of the April issue of Dive Log for more details.

NUDIBRANCH PHOTOGRAPHIC EXHIBITION

Marine photography by participants in the 2018 Neville Coleman Memorial Nudibranch Dive Event is being exhibited at Kuoni Creative at 212 Main Rd, Blackwood from 3rd to 24th April, 10am-5pm, Tues to Sat. Visit www.kuonicreative.com.au for more details.

PARKS & LEISURE AUSTRALIA + RECREATION SA CONFERENCE

The 2018 Parks & Leisure Australia + Recreation SA Conference is being held on Thursday 7th June 2018. The venue is yet to be announced.

5TH INTERNATIONAL MARINE CONSERVATION CONGRESS

The 5th International Marine Conservation Congress is being held in Kuching, Sarawak, Malaysia from 24-29th June.

MARINE MAMMAL SYMPOSIUM IN ADELAIDE

The Marine Mammal Symposium is being held in Adelaide in July this year, in conjunction with the AMSA 2018 conference. It is being held from 1st-5th July 2018 at the Adelaide Convention Centre. The Symposium theme is "From Sea to Coast - Marine Mammals in a Connected World". It “recognises that marine mammals are covering large areas of the marine environment and connect various habitats throughout their lives. Their migratory behaviour often poses great challenges to study these animals and albeit their often-iconic character, knowledge about their whereabouts is still limited. They are exposed to a range of challenges including impacts from anthropogenic activities such as shipping, fishing, exploration,

pollution and climate change but have also found ways of adapting to impacts. New techniques are being used to shed light on the migration, adaptation and behaviour of marine mammals such as seals, sea lions, orcas, southern right and humpback whales in Australian waters setting worldwide standards. Visit www.amsa18.amsa.asn.au/ for more details.

AMSA 2018 CONFERENCE

AMSA 2018 will bring together practitioners involved in marine science ranging from marine biology, conservation to geology and management of marine environments. It is being held from 1st-5th July 2018 at the Adelaide Convention Centre. The conference is relevant to government and non-government scientists, policy makers, environmental scientists, environmental consultants, marine scientists, and students and technicians with an interest in marine science, marine conservation and management. Visit www.amsa18.amsa.asn.au/ for more details.

AIDE 2018

The Australia International Dive Expo is being held at the International Convention Centre in Sydney 2nd to 6th August 2018 (in collaboration with the Sydney International Boat Show). Details can be found on pages 43 & 65 of the April issue of Dive Log. Visit www.australiadiveexpo.com for more details.

NATIONAL SCIENCE WEEK 2018

This year's National Science Week is being held from 11 – 19th August 2018. Visit www.scienceweek.net.au for more details.

4TH INTERNATIONAL SYMPOSIUM ON ANCHIALINE ECOSYSTEMS

The 4th International Symposium on Anchialine Ecosystems is being held Lanzarote, 1st to 7th October 2018. (An anchialine pool is an enclosed water body or pond with an underground connection to the ocean. Lanzarote is a Spanish island in the Canary Islands.) According to the web page found at <https://oceanservice.noaa.gov/facts/anchialine.html> , “Anchialine pools form some of the longest submerged caves structures on Earth. These typically small pools, which form in limestone or volcanic rock, are located throughout the world but are most common in the Hawaiian Islands and on Mexico's Yucatán Peninsula. Anchialine pools have their own unique ecosystems populated by tiny and often rare species of crustaceans, fish, and eels.” The Symposium “aims at gathering researchers from throughout the world who dedicate their research on all aspects “anchialine”. The sessions of the symposiums cover various fields of Biology, Systematics and Evolution, Biogeography, Geomicrobiology, Ecology, Geology, Hydrology, Paleontology, and Archeology.” Visit <http://www.4isae.es/> for more information. WoRCS (@CaveSpecies), the World Register of marine Cave Species aims to create a comprehensive taxonomic and ecological database of species from marine caves and anchialine systems. Visit <https://t.co/7WO9l8DmZx> for more details.

PORT ADELAIDE WOODEN AND HERITAGE BOAT FESTIVAL

The inaugural Port Adelaide Wooden and Heritage Boat Festival will be held in Port Adelaide from 13-4th October 2018.

OZTek2019

OZTek2019 will be held at the International Convention Centre Sydney, Darling Harbour on March 16/17, 2019. Visit www.oztek.com.au for more details. Some details can be found on pages 59 of the April issue of Dive Log.

Details for many forthcoming events can be found at <http://www.diveblog.net.au/news-events/>. Visit the web page found at <http://www.tourism.sa.com/events/event-news-edition-two.aspx> to see the latest from Events South Australia.

Scuba Dive SA www.sdfsa.net (The Scuba Divers Federation of SA) is a member of the following: -

RecFishSA (SA Recreational Fishing Advisory Council) <https://recfishsa.org.au/>

SA Trails Coordinating Committee* <http://www.southaustraliantrails.com/>

* (Office of Recreation & Sport) <http://www.ors.sa.gov.au/>

Recreation SA <http://recreationsa.org/>

If you wish to be included on the mailing list for this electronic news sheet, contact Steve Reynolds, the Federation's Secretary, on info@sdfsa.net for more details.

The SDF supports both Reef Watch & DragonSearch

http://www.conservation.sa.gov.au/reef_watch

Disclaimer – The opinions expressed by authors of material in this news sheet are not necessarily those of the Federation.