



Studying dolphins in noisy environments



A dolphin calf leaps in Fremantle's Inner Harbour

Dolphins are everyday visitors to the Fremantle Inner Harbour. They forage, rest, socialise, travel, herd fish and ride the bow waves of huge cruise ships like *Queen Mary 2*.

However, visibility in underwater environments can vary. As a result, dolphins use sound to communicate with each other, find food, avoid predators, and even have echolocation to sense objects underwater.

While the water has never been a quiet place, with wind, waves, currents and biological sounds (crustaceans, fish and marine mammals), it has been increasingly filled with people-related noise, such as boats, dredging, seismic surveys, pile-driving, jet skis and bridge noise.

For her PhD, Sarah Marley is studying dolphins living in noisy environments. A student at Curtin University's Centre for Marine Science and Technology (CMST), Sarah is using underwater acoustic loggers to investigate the acoustic environment of the Swan-Canning Riverpark. She is also undertaking visual monitoring at different land-based vantage points, such as Cantonment Hill, to coincide with acoustic recording sites.

Fremantle Ports has helped Sarah set up an acoustic recording site at its pilot boat jetty near the Fremantle rail bridge. Sarah is collecting visual and acoustic data to investigate any acoustic or physical changes in dolphin behaviour in areas of varying noise levels.

Using a theodolite, dolphin movements in the riverpark are being tracked, allowing changes in speed, travel direction, surfacing frequencies, and dive durations to be calculated. The predominant behavioural activities of observed dolphin pods are also being recorded.

Fremantle Ports has provided significant funding for the past four years for the Coastal and Estuarine Dolphin Project (CEDP), a collaborative project between Murdoch and Curtin universities that will help ensure the long-term conservation of bottlenose dolphins in Perth metropolitan waters.



Visual monitoring of dolphins in Fremantle Port takes place from Cantonment Hill. From left are volunteers Ana Costa (with theodolite) and Mariana Barbosa (on laptop), Sarah Marley and Fremantle Ports Environmental Advisor Rebecca James.



Installing the dolphin noise logger at the Small Craft Pens (pilot boat jetty) are Nick Riddoch (left), of Curtin University, and Jamie Strickland, Small Craft Team Leader, Fremantle Ports



Giant rats, seagulls and gnomes

Giant rats, seagulls and garden gnomes invaded Victoria Quay over the Easter weekend as the waterfront was one of pitches for the 2015 Fremantle Street Arts Festival. As well as the 'giants', Hula Queen Eloise Green and Japanese artist Senmaru (pictured) performed. The 2015 Fremantle Street Arts Festival was supported by Victoria Quay.

More parking at Victoria Quay

Fremantle Ports is building 83 new parking bays on previously vacant land north of the Fremantle train station. The bays will allow people to park for part of a day or all day from 1 July. Fremantle Ports bought the land from the Public Transport Authority. Its use for parking is envisaged as a short-term arrangement until the area is required as part of the proposed commercial precinct.

Works

Protection works on Fremantle traffic and rail bridges

Main Roads WA has started pier strengthening works at Fremantle's traffic and rail bridges. The traffic bridge works involve repairing 62 piles then reinforcing the existing timber fender system with new metal structures. At the rail bridge, concrete dolphins (bumpers) will be constructed in-river (downstream) to absorb significant force in the case of impact by a vessel. Existing navigational aids in the river channel will be enhanced to improve marine vessel flow and meet international standards. Fremantle Ports is implementing the ShoreTension Dynamic Mooring System to prevent vessel breakaways during severe weather.



A Berth reconstruction

Reconstruction works have started on a 50-metre section of A Berth near the Maritime Museum, on Victoria Quay. The works involve demolition and

reconstruction of the wharf deck and sub-structure and will not involve any pile driving.



A Berth

One-way trial for Birksgate Road

A six-month trial will make Birksgate Road, at Rous Head, one-way between Rous Head Road and Rudderham Drive. The trial is to address safety issues at the intersection of Rous Head Road and Birksgate Road when there is truck queuing in the area. If successful, the changes may become permanent.

Purple Haze Game record for Starlight



Fremantle Ports CEO Chris Leatt-Hayter (centre) and Fremantle Football Club CEO Steve Rosich (right) present Jack Cullity, of the Starlight Children's Foundation, with the Purple Haze Game cheque

A record amount of \$156,732.85 has been raised through the Fremantle Dockers Starlight Purple Haze Game, proudly supported by Fremantle Ports.

The game, held on 5 April at Domain Stadium, was the 13th Starlight Purple Haze Game and the 10th game supported by Fremantle Ports to raise

money for the Starlight Children's Foundation. Starlight provides support programs for seriously ill children. The funds raised can connect more than 4000 children to Starlight in-hospital programs.

Money was raised through tin rattling at the game and associated pre-game activities. The Dowson



Marjan Emami and Starlight volunteer Harry, with Preetham and Padma Thiruvadi. Padma and Marjan work for Fremantle Ports.



Fremantle Ports' Collins Vuchocho with his nephews Nkosi (left) and Royal, who have made a family tradition by tin-rattling each year

family of Kalgoorlie and the Goldfields community raised a mighty \$60,000. With this year's record effort, the Purple Haze Game has now raised a grand total of \$775,000 in its association with Fremantle Ports over the decade.

This year, 38 Fremantle Ports staff and their families rattled tins before the game.

100 years on, Fremantle Ports remembers



Fremantle Ports provided free flags to spectators at the Fremantle Anzac Day parade

Volunteers from Fremantle Ports made their contribution on Anzac Day, laying wreaths at Fremantle, North Fremantle and Rockingham, and providing flags to spectators at the Fremantle march.

Albany was the point of departure for Gallipoli

for New Zealand and Australian troops from other States and Territories but most of the Western Australian troops in that first embarkation and a contingent of South Australian troops departed from Fremantle Port on 31 October 1914 on the ships *Medic* and *Ascanius*.

Jay and Angus meet their heroes

Fremantle Ports sponsored 40 children to attend a footy skills clinic with Fremantle Dockers players on 14 April at Fremantle Oval. Fremantle City Dockers players Angus Horton (left) and Jay Elliott-Tideman (both 8) enjoyed the clinic, especially the tug of war with Chris Mayne. Jay, who hopes to grow as tall as Aaron Sandilands, asked his father Matt what Sandilands ate. "Vegetables," Matt said.



Community support

Fremantle Ports proudly supported the 2015 Fremantle Heritage Festival, the Coogee Jetty to Jetty Swim and these following events recently:

Music to Open Your Mind



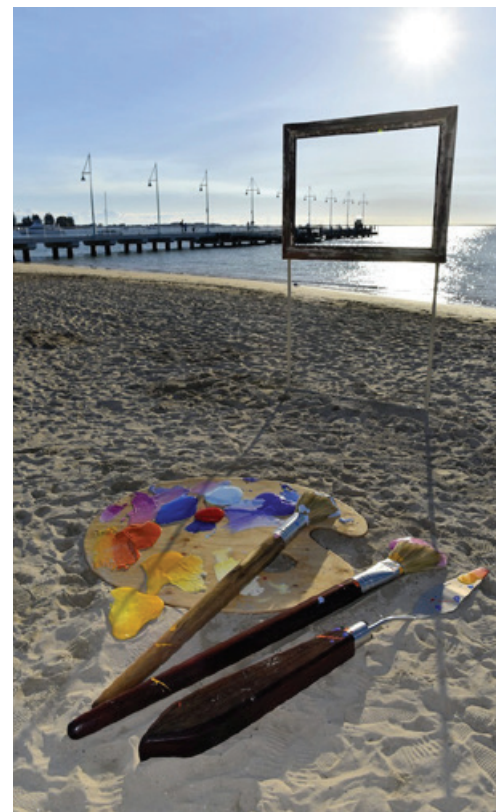
Fremantle Ports sponsored the Arty Brellas children's activity

A mental health awareness day held in Fremantle in March attracted 3000 people. Music to Open Your Mind 2015 at King's Square had five bands, children's activities and a market atmosphere. Dr Elizabeth Moore, of the South Metropolitan

Health Service, said that music proved again to be a universal medium for communication and celebration. She said the event 'reaches out to the community to raise mental health awareness and reduce stigma'.

Castaways Sculpture Awards

This City of Rockingham foreshore event, with its creative re-use of materials, continues to grow in stature each year. As well as showcasing the talents of established and emerging artists, it offers a truly engaging means of promoting the importance of environmental sustainability. Fremantle Ports sponsored the second prize, which went to Daniel Iley for his recycled sculpture *The Painted Sky*.



Recycled sculpture *The Painted Sky* by Daniel Iley

Fremantle Chamber Orchestra proms

Rainy weather on 11 April did not dampen the spirits of the hundreds of people who turned up to Notre Dame University's Drill Hall to listen to the Fremantle Chamber Orchestra. The free proms concert, sponsored by Fremantle Ports, was originally scheduled for Fremantle Arts Centre's lovely grounds. It featured conductor Christopher van Tuinen, sopranos Penny Shaw and Fiona Cooper-Smyth from Divalicious, and pianist Mark Coughlan. Music spanned opera, world music and classical favourites.



Cruise passenger numbers soaring

Cruise passenger numbers through Fremantle Port have passed the 100,000 figure for the first time in 42 years, with more still to come.

Trade Development Manager Thor Elliott said 117,565 passengers had passed through Fremantle Port from 43 ship visits during the 2014-15 season.

"The last time the Port of Fremantle passed the 100,000-passenger mark was in 1972-73, when 118,172 passengers came through the port from 135 ships," Thor said. "With 56 ship visits scheduled for next financial year, the passenger figures will rise again."

Many of the passengers were from WA. Out of the 43 ship visits, 34 were 'turnaround' visits, meaning that all or most of the passengers disembarked at Fremantle with a new group of passengers embarking. There were 102,723 'turnaround' passengers with 14,842 passengers transiting through the port. Although a number of people fly interstate to join a cruise, many of the 'turnaround' passengers are locals.

According to Cruise Lines International Association, more than one million Australians took a cruise holiday in 2014, with the number surging more than 20 per cent in a year.

US Navy visit



USS Bunker Hill at Victoria Quay with cruise ship Dawn Princess behind

United States Navy aircraft carrier USS Carl Vinson with guided missile cruiser USS Bunker Hill and guided missile destroyer USS Gridley visited Fremantle Port in late April.

The ships, carrying more than 5000 sailors, had recently completed operations in the US 5th Fleet area of operations, which includes the Gulf, Gulf of Aden, Gulf of Oman and Red Sea.

In addition to rest and relaxation, crew members volunteered for community relations activities, such as visiting sick children, doing maintenance work at a children's home and the Perth Zoo, and helping at various animal refuges.



Pacific Jewel in Fremantle on 25 April



USS Carl Vinson, carrying 90 aircraft, anchored in Gage Roads

View from a crane

When container stevedore DP World launched its latest post-panamax crane in April, guests were provided with an exciting opportunity - the chance to see the fantastic view from above.

DP World Australia Managing Director and CEO Paul Scurrah and DP World Fremantle General Manager John Ward cut a white ribbon* on the crane. They then invited guests to ascend in the crane's lift, walk the boom and sit in the crane driver's box with its glass floor.

The crane, which has 38 metres of lift above the wharf with an outreach of 50 metres, is the second post-panamax crane for DP World in Fremantle and the fifth in the Fremantle Inner Harbour.

*DP World supports the White Ribbon campaign to stop violence against women.



Reaching out: the boom looks as though it stretches all the way across to cruise liner Dawn Princess

Education report

Clontarf Carnarvon students visit



With John Malaga (left), of Fremantle Ports, are Clontarf Carnarvon student Brayden Dowker (centre) and Clontarf Football Operations staff member Robert Merritt

Clontarf Carnarvon Academy students in Perth for a camp being hosted by Clontarf Gilmore Academy visited Fremantle Ports in May. The 12 students met a number of staff members and gave a presentation on a typical day at the academy. They also enjoyed a visit to the administration

building's observation deck and a tour of port facilities with John Malaga. The Clontarf Foundation exists to improve the education, discipline, life skills, self-esteem and employment opportunities of young Aboriginal men.

Nature play donation



Fremantle Ports donated and delivered two large logs to Richmond Primary School recently for the school's first step towards a nature playground. The logs are not from port structures but Fremantle Ports had the timber tested for health risks from any past treatment. The school administration and parents are keen to establish creative play spaces that connect students with natural elements. Students Will and Andy (front) certainly found them fun.

Students shine at art awards

Fremantle Ports was a major sponsor of the Kwinana Industries Youth Art Awards, which featured 90 artworks from nine secondary schools. Materials, Design and Technology category winner Shaylee Jarmyn, of Seton Catholic College, is pictured with Fremantle Ports Chair Dr Jim Limerick (left) and Cockburn Mayor Logan Howlett.



Year 10 students visit for career advice

Year 10 students from a range of schools throughout the Rockingham and Kwinana areas have visited Fremantle Ports recently to learn about careers and the port. Kwinana Industries Council's iWomen and iMen groups each spent a day meeting employees, engaging in career workshops and touring the port.



iWomen students (from 2nd left) Emma Knowing (Peter Carnley Anglican Community School), Kim Unuwai (South Coast Baptist College) and Katey O'Rourke (Rockingham Senior High School) with Fremantle Ports employees Tanvi Haria, Nikki Banez and Lisa Cortez



iMen students (from left front) Declan Kennedy (Tranby College), Max Riseley (Peter Carnley Anglican Community School), Bailey Ballard (Gilmore College) and Connor Hutchinson (Peter Carnley) with (from left back) Sean Craig, Franco Andreone and Jay Illingworth, all of Fremantle Ports