

The Traverse Board

Newsletter of the Friends Of The Paul McGuire Maritime Library Inc

March 2019

Proudly Supporting the Paul McGuire Collection of The State Library of South Australia.

News From The Friends

PRESIDENT'S REPORT March 2019

Greetings to you all, as we enter the season of Autumn, usually a very pleasant time of year, so enjoy it to the max!

This is a fairly short report, the main event having been our AGM in early February, attended by sixteen Friends.

The positions on the Committee remain the same, so thank you for your confidence in the office-bearers.

The best part of the evening was the address by Mark Sinclair, telling of his experiences in the Golden Globe Race; it really was interesting, and now all of those present know exactly how to find our way at sea with a sextant and Walker's log, Mark made it all sound so easy!

Down at Osborne, the third Air Warfare Destroyer is being completed, meanwhile a huge shed is under construction for the next phase of shipbuilding to be carried out there. I'm sure Mrs McGuire would applaud the thinking of our government, it's a shame there are not many Aussie ships and crews carrying our exports and imports.

The *One and All* is back from Hobart, all went well on that voyage, and so shortly young Joseph Hardy will join her for his belated journey aboard, financed by the Friends.

Our next meeting will take place at the Railway Hotel, on Tuesday, March 26th, when we will see a video of the Mystic Seaport Museum, in the USA. This should be excellent, and I hope to see lots of you there, for another delightful evening.

Time to close this, so all the best to you.

Regards, Julian.



Next Meeting

Tuesday 26th March 2019

Mystic Seaport Museum DVD

Railway Hotel Port Adelaide

Meeting 8:00pm

Join us before the meeting for dinner from 6:30pm

Please book dinner with Neil 0418 821 331 or Julian 0414 365 294

This month sees the discovery of Captain Matthew Flinders RN grave site under London's Euston Station as part of the works constructing HS2, the new high speed railway to the midlands, a meeting of submarines off Cockburn Sound, disputes near Gibraltar between the Spanish and UK authorities, an item on the RAN LADS flight mapping the sea floor off Macquarie Island, and finally a couple of articles on alternate fuels for maritime transport.

Flinders died far too young at 40 but in the short time allotted to him he played a very significant role in the exploration of Tasmania and the mainland of Australia.

His imprisonment for 6 ½ years on Mauritius at the hands of the French was in marked contrast to his cordial meeting with Nicholas Baudin in 1802.

Fortunately his *A Voyage to Terra Australis* was published before his death a day later.

A brief biography of Flinders can be found at <http://www.slsa.sa.gov.au/encounter/flinders/bio.htm>. The library also has the 3 volume work *A Voyage to Terra Australis*: ask at the counter.

I know Mark Sinclair knows all about LADS!

And will Britain's departure from the EU see an escalation of the disputes with Spain over Gibraltar?



The Traverse Board

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Remains of explorer Matthew Flinders found under London train station during HS2 dig, ending 200-year mystery

By Roscoe Whalan ABC News
Updated 25 Jan 2019, 4:36pm

The remains of explorer Matthew Flinders have been found at a burial site beneath Euston station in London, 216 years after he circumnavigated Australia.

His remains were identified by archaeologists working on the controversial HS2 high-speed rail project, thanks to a well-preserved lead breastplate.

"I was rather hoping that there would be a ship or an anchor — something that linked him to his nautical endeavours," Helen Wass, the project's heritage chief, said.

"But it's just so exciting to see that here and to know that this was his grave."

Flinders circumnavigated Australia between 1801 and 1803.

Among his crew on HMS Investigator was Indigenous sailor Bungaree, credited with being the first Australian to sail around the continent.

Flinders died at the age of 40, the day after the book detailing his journey, *A Voyage to Terra Australis*, was published.

He was interred in what was then St James's burial ground on July 23, 1814.

For years, experts thought the explorer was buried under what became platform 15 at Euston station. But while Flinders's remains were found at Euston, they were not under platform 15.



Photo: An archaeologist leans over Matthew Flinders's grave. (Supplied: HS2 Limited)

Many will never be identified, but the unearthing of the lead breastplate attached to Flinders's coffin confirmed the discovery of the British navigator.

"The archaeologists go through a very rigorous process, so once they identify a grave area you can tell by the different coloured soil," Ms Wass said.

"You get a grave-shaped patch of ground and then they carefully use their hands and their tools to scrape away the soil.

"Obviously as soon as you start to see any type of coffin plate you know that that might have biographical information about the person who's buried there.

"Of course, he's at the slightly more affluent end of the burial ground. "St James Chapel is just beyond his grave, and generally the richer you were ... the closer you were buried to church, to God".

The burial site includes the remains of other notable figures, including the founder of Christie's auction house and American boxer Bill Richmond, but Flinders is its most renowned resident.

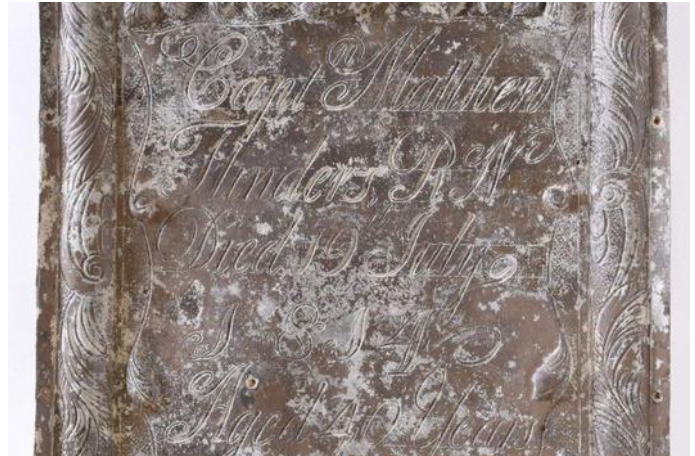


Photo: The unearthing of Flinders's lead breastplate helped confirm the discovery. (Supplied: HS2 Limited)

"The records show that he was buried here. He died in a house not very far away from this site," Ms Wass said.

"An urban myth was that he was buried under platform 15 of the modern Euston station — we now know that is not true."

The cemetery at St James soon became overcrowded. Originally designed for 16,000 bodies, it quickly expanded to about 60,000.

Euston station expanded into the burial ground in the 1840s. Flinders's headstone was removed, and it was feared his remains had been lost forever.

Now, it's the site of one of the largest infrastructure projects in British history — the \$101 billion HS2 rail link between London and Birmingham.

As part of the painstaking project, a team of archaeologists and specialists are exhuming about 40,000 graves.



Photo: Archaeologists hope to find a name plate on Captain Flinders's coffin. (Supplied: MOLA Headland Infrastructure)

Remains of explorer Matthew Flinders found under London train station during HS2 dig, ending 200-year mystery

"This is a very exciting moment for Australia," Australian High Commissioner to the UK George Brandis said outside the station, standing beside a statue of Captain Flinders.

"It is serendipitous the discovery of the remains of Matthew Flinders, one of the great early explorers, should come in the week of Australia Day".



Photo: Archaeologists and specialists are exhuming about 40,000 graves. (ABC News: Tim Stevens)

Flinders's remains will undergo testing for more clues about his extraordinary life before he is interred with the other bodies at an undecided site.

Archaeologists frequently discover remains underneath London during digging works for rail links.

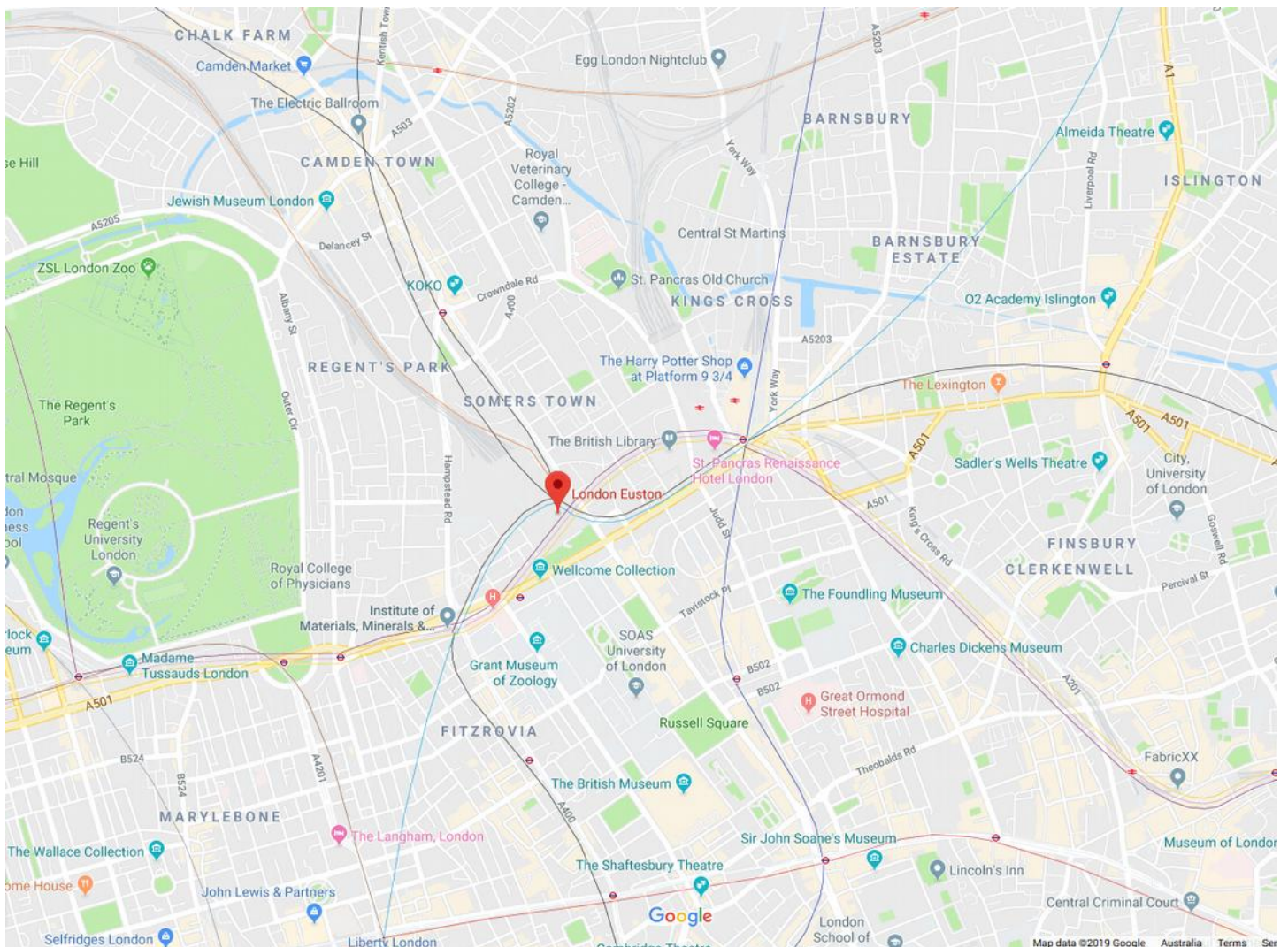
Flinders University honorary senior researcher Gillian Dooley, said Flinders — the university's namesake — could now "be treated with the respect he deserves".

"Even in death, after his short and unsettled life, he hasn't been allowed to rest in peace in the English countryside, which is what he wished for. Let's hope this can now be achieved," Dr Dooley said.

In 2013, 20 Roman skulls were uncovered in a dig for the city's Crossrail project.

Archaeologists said it was possible the remains, found along the River Thames, dated back to a rebellion by the British queen Boudicca.

In 2015, experts uncovered a mass grave of thousands of plague victims underneath Liverpool Street station.



Spanish Navy Orders Merchant Ships to Leave Gibraltar Anchorage

By MarEx 2019-02-18 17:52:42



The Tornado (P-44) off Gibraltar on Saturday (Gibraltar)

The government of Gibraltar issued a strong protest on Sunday after a Spanish naval vessel entered the bounds of Gibraltar's maritime claims and ordered several merchant vessels to leave "Spanish" waters. The dispute adds to a long history of tensions with Madrid over the validity of the Rock's maritime boundaries.

In an audio recording of the radio exchange, the Spanish vessel identified itself as the patrol boat Tornado (P-44) and instructed a "drifting" merchant vessel to depart Spain's territorial waters. The merchant vessel can be heard responding that it is at anchor at the Gibraltar anchorage, not adrift.

Gibraltar's VTS issued a countervailing order asking the vessels to stay in place. The UK Royal Navy deployed a launch and a rigid-hulled inflatable boat to respond to the scene, and after being challenged, the Spanish warship sailed away along the Gibraltar coast with its weapons uncovered and manned.

"The reality is that the merchant vessels were in [Gibraltar's waters] when they were instructed to move. In other words, the Spanish vessel sought to exert jurisdiction and control in an area of water where they are not legally entitled to exert such control," Gibraltar's government said in a statement.

For its part, Spain maintains that the vessels were within Spanish waters, in accordance with its maritime claims. "The Tornado called three commercial ships that were breaking maritime security law in Spanish territorial waters by standing still," Spanish Foreign Minister Josep Borrell told media on Monday. "Those ships responded to the requests of the Tornado and abandoned the area."

According to Gibraltar, the Tornado entered the area and ordered the merchant ships to move in order to further Spanish sovereignty claims - an act that is potentially inconsistent with the innocent passage rules of UNCLOS. Gibraltar also warned that the act was potentially hazardous to shipping, and said that it took attention away from more pressing security concerns.

"It is nonsensical that Spain should deploy one of its warships to play war games in British waters at a time when there are serious threats in this area which are well known. The Spanish actions serve as a dangerous distraction to wider military and security interests in the region," Gibraltar said.

"[The Spanish vessel's] actions outside our waters, when she sought to direct shipping outside her jurisdiction, and when she sailed through our waters with her weapons naked, was an amateurish attempt at bravado. It achieved nothing more than to provoke - whilst it was properly ignored by the masters of the vessels at anchor," said Gibraltar's Chief Minister, Fabian Picardo. "Incidents like this, however, are a useful reminder of why we will never agree to be Spanish."

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Rare sight as five submarines exercise in WA waters

Royal Australian Navy, Published on 02 March 2019

LEUT Sarah West (author), Mr Andrew Bujdegan (author), LSIS Richard Cordell (photographer)



United States Navy Submarine, USS Santa Fe, joins Collins Class Submarines, HMA Ships Collins, Farncomb, Dechaineux and Sheean in formation while transiting through Cockburn Sound, Western Australia.

Merchant mariners transiting in proximity to Western Australia's coastline last week were treated to the rare sight of five submarines underway in formation on the surface of the Indian Ocean.

Four Royal Australian Navy Collins class submarines, HMA Ships Dechaineux, Sheean, Collins and Farncomb, were joined in the West Australian Exercise Area by a United States Navy Los Angeles class fast attack submarine, the USS Santa Fe.

The five submarines were in the area to participate in a range of combined military activities, including exercises OCEAN EXPLORER and LUNGFISH.

While it's rare to catch a glimpse of even one submarine at sea, all five rendezvoused off Fremantle, before returning to the depths to resume their tactical exercises.

Deputy Commander of the Royal Australian Navy's Submarine Force, Commander Chris Forward said working with other Navies was a common practice for Australia's submarine squadron.

"Our submariners never miss an opportunity to hone their skills and exercises like these provide an ideal opportunity to operate closely with our surface ships, submarines and aircraft, as well as with vessels from other countries, in a variety of complex scenarios," he said.

Director General Submarines, Commodore Timothy Brown said although rarely seen, the Royal Australian Navy's submarines were now achieving a high operational tempo and would be deploying throughout the region in 2019.

"Last year, our submarines spent more than 600 days at sea, which was the highest tempo ever achieved by the Collins class," Commodore Brown said.

"We're expecting them to spend closer to 700 days at sea this year, which is a boon for the Royal Australian Navy, because submarines are our primary offensive capability, offering stealth, range, endurance and weapons that can reach into an adversary's waters and threaten or strike a range of targets.

"Submarines make the planning of military actions much harder for potential adversaries, and require a disproportionate effort to counter, making them a critical strategic asset for Australia.

"Over the past four years, the Royal Australian Navy has had a strong focus on growing our submarine workforce and enhancing the enterprise partnership between Navy, Defence and Industry, and these things have underpinned the operational success of the Collins class in recent times," Commodore Brown said.

Don't expect to see this spectacle again any time soon though, because while operating in company may be common place for the Royal Australian Navy's submariners, a five-sub-on-the-surface photo shoot is a rarely seen phenomenon.



Pacific Jewel, Penneshaw, 17th December 2018

Navy surveys the sub-Antarctic sea floor

Published on 26 February 2019 Department of Defence (author)

Location(s): Invercargill, New Zealand, Macquarie Island, Australia

The Laser Airborne Depth Sounder (LADS) Flight is currently deployed to Invercargill in New Zealand to undertake survey operations over Macquarie Island, a 34km long World Heritage listed island that lies approximately halfway between Australia and Antarctica.

Macquarie Island is part of Tasmania and hosts an Australian Antarctic Division research station.

The aim of the survey is to improve knowledge of potential dangers to ships visiting the island, with a focus on the area surrounding the station itself.

The LADS aircraft is a modified Dash 8-200 fitted with a laser system to measure the sea floor depths in coastal waters.

The Royal Australian Navy's LADS capability is unique amongst bathymetric LiDAR as the Dash 8 gives the extended range required to reach remote locations such as Macquarie Island. At a distance of 650nm to the SSW of Invercargill, this extended range is a necessity.

Executive Officer, Lieutenant Cheyne Colley, said the improved data will be used to update the existing nautical charts used by all vessels navigating in this sensitive area.

"The Royal Australian Navy has responsibility for charting approximately one-eighth of the world's surface, including much of the Southern Ocean," Lieutenant Colley said.

"The charts that are updated from the data captured by LADS will ensure safer navigation and greater environmental protection by reducing the risk of a marine accident."

The LADS flight will fly as many as eight sorties from Invercargill, with each sortie lasting up to seven hours. When conducting survey, the aircraft will fly at approximately 600 metres, with the LASER emitting through a special window in the belly of the aircraft.

"The unit is unique to any Navy in the world. The technology was developed in Australia and uses a scanning laser which is mounted in the aircraft to collect hydrographic survey data and depth information," Lieutenant Colley said.

"The survey system employed by the LADS Flight is particularly suited to coastal and dangerous reef areas where it would be less safe for our survey ships to operate.

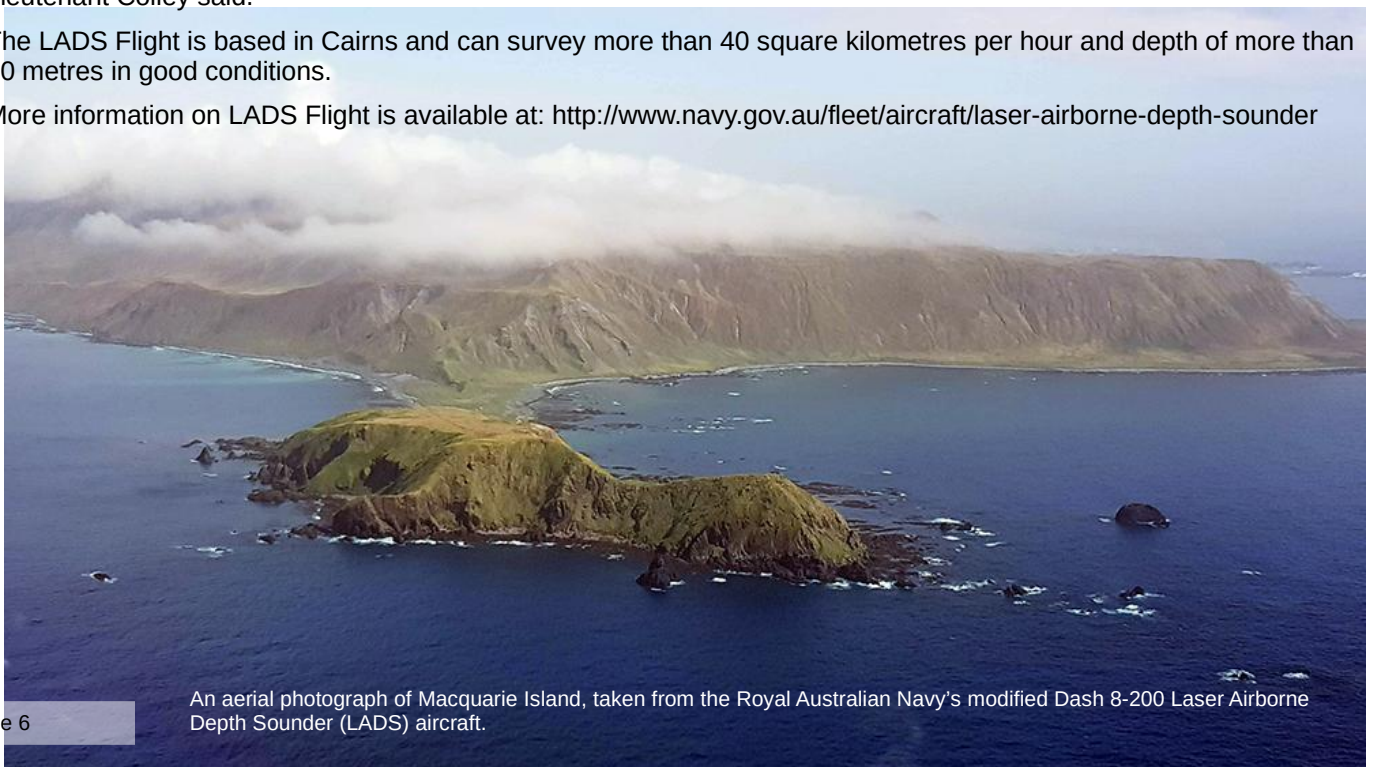
"With the airborne system, we can bring safety and efficiency to large and complex areas of the ocean. Where LADS is suitable, we are able to cover vast areas with excellent economy of effort in relation to surface-based survey vessels," Lieutenant Colley said.

The LADS Flight is based in Cairns and can survey more than 40 square kilometres per hour and depth of more than 50 metres in good conditions.

More information on LADS Flight is available at: <http://www.navy.gov.au/fleet/aircraft/laser-airborne-depth-sounder>



The Royal Australian Navy Laser Airborne Depth Sounder (LADS) Flight on the tarmac at Invercargill, New Zealand.



An aerial photograph of Macquarie Island, taken from the Royal Australian Navy's modified Dash 8-200 Laser Airborne Depth Sounder (LADS) aircraft.

Corvus Energy Wins World's Largest Battery Package Order for Hybrid Vessels

<https://worldmaritimenews.com/archives/272297/corvus-energy-wins-worlds-largest-battery-package-order-for-hybrid-vessels/>

Canadian manufacturer of energy storage systems Corvus Energy has signed a contract with Norwegian Electric Systems (NES) for the marine world's largest battery package for hybrid-powered vessels.

As informed, the technology will be installed onboard Havila Kystruten's environmentally-friendly coastal vessels.

"This is a big step for the cruising industry and we are extremely proud to receive this order... The Energy Storage System (ESS) is the world's largest package ever delivered to a ship and will enable the vessels to enter fjords and ECAs on zero emission mode five years before the deadline," Geir Bjørkeli, CEO of Corvus Energy, said.

Corvus Energy will deliver an air-cooled ESS with Corvus' patented single-cell thermal isolation which exceeds class requirements.

"The Energy Storage System has a capacity per vessel of 6,100 kWh, which is double the capacity of any existing battery-operated vessel," Roger Rosvold, Vice President Sales at Corvus Energy, explained.

"The unused potential for using batteries on board cruise and passenger ferries is huge. Batteries reduce fuel consumption and maintenance costs, cut pollution and, with increasing environmental regulations and requirements that will incur costs for air emissions, provide a very compelling business case."

"As more and more shipowners wake up to this, we expect to see uptake accelerating across the board. The industry is just starting to understand the power of batteries," Rosvold further said.

The newbuilds are part of Havila's contract with Norwegian Ministry of Transport for the construction of four environmentally-friendly vessels that will operate on the Bergen-Kirkenes coastal route.

Two of the vessels will be built by Turkish shipbuilder Tersan and the remaining by Spanish Barreras. Featuring a length of 125 meters and a width of 20 meters, the ships will be able to accommodate 700 passengers.

The vessels will have a hybrid gas-electric propulsion system with battery, where four gas-powered engines in each vessel run the generators. The system is also adapted to the next generation of technology, using hydrogen fuel cells.

The equipment from Corvus Energy is scheduled for delivery in 2020 and the coastal route vessels will be in service from 2021.



Illustration of the new Havila Kystruten ships; Image Courtesy: Havyard

Dutch Maritime Firms to Jointly Study Methanol as Marine Fuel

<https://worldmaritimenews.com/archives/271801/dutch-maritime-firms-to-jointly-study-methanol-as-marine-fuel/>



Green Maritime Methanol - Methanol as marine fuel
Image Courtesy: Green Maritime Methanol

Dutch shipowners, shipyards, manufacturers and ports of Amsterdam and Rotterdam have joined forces to study methanol as a marine fuel ahead of the IMO's 2020 sulphur cap.

The consortium, supported by Maritime Knowledge Centre, would look into the feasibility of methanol as a sustainable alternative transport fuel in the maritime sector.

"As part of the project, the partners will look at concrete possibilities to adopt methanol as marine fuel on either newbuilds or conversions of the existing fleet," Pieter Boersma, Business Director Maritime & Offshore of TNO, said.

Shipowners Boskalis, The Royal Netherlands Navy, Van Oord and Wagenborg Shipping will take part in the consortium, together with shipbuilders, Damen Shipyards, Feadship, Royal IHC and engine manufacturers Pon Power and Wärtsilä together with VIV, as well as equipment suppliers Marine Service Noord and service providers C-Job Naval Architects.

Work to study the infrastructure and supply chain for methanol is also addressed by the participation of The Netherlands' two largest ports, Rotterdam and Amsterdam, as well as methanol suppliers BioMCN and Helm Proman and trade organization The Methanol Institute.

The Netherlands' research institutes, including TNO, TU Delft, NLDA and Marin, also invest in this theme and provide knowledge-building and research capacity for the project.

The Green Maritime Methanol project, supported by TKI Maritime and the Netherlands Ministry of Economic Affairs, is expected to be completed within two years.

Next Meeting

Tuesday 26th March 2019

We will show a DVD on the

Mystic Seaport Museum in Mystic, Connecticut.

This museum has a very well developed collection both on the water and on land.

They may be found on the web at <https://www.mysticseaport.org> for those wishing to do a bit of research first.

Railway Hotel Port Adelaide

Meeting 8:00pm

Join us before the meeting for dinner from 6:30pm

Please book dinner with Neil 0418 821 331 or Julian 0414 365 294

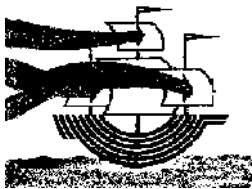


Lake Ontario Cruise ship *Empress of Canada* Toronto

Memberships are now due. If you have not yet renewed there are two ways to do it:

1: send a cheque to the treasurer with the form below or

2: make a payment by funds transfer to account 805050 61338546 "Mcquire Friends" and send the treasurer an email at neil@fpmml.org.au alerting him to your payment.



The Friends Of The Paul McGuire Maritime Library Inc.

Membership Renewal

Ordinary Memberships are all due for renewal in January each year. Please send your \$30 to

The Treasurer,
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2 Quigley Court
ABERFOYLE PARK 5159

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We can send *Traverse Board* via email. Email Address: _____

Every member: if your contact details have changed please fill in the new details above and send the form to the Treasurer.