

**INTERNATIONAL MARITIME ORGANIZATION**  
**MARITIME KNOWLEDGE CENTRE**  
*“sharing maritime knowledge”*

**CURRENT AWARENESS BULLETIN**

December 2016



Maritime Knowledge Centre  
[maritimeknowledgecentre@imo.org](mailto:maritimeknowledgecentre@imo.org)  
INTERNATIONAL MARITIME ORGANIZATION  
[www.imo.org](http://www.imo.org)



## About the MKC Current Awareness Bulletin (CAB)

The aim of the MKC Current Awareness Bulletin (CAB) is to provide a digest of news and publications focusing on subject areas related to the work of IMO. Each CAB issue presents headlines from the previous month. For copyright reasons, the *Current Awareness Bulletin (CAB)* contains excerpts only. Links to the complete articles or abstract on publishers' sites are included when available, though access may require payment or subscription.

The MKC *Current Awareness Bulletin* is published monthly and issues from the current and the past year are free to download from this [page](#).

[Email us](#) if you would like to receive email notification when the most recent Current Awareness Bulletin is available to be downloaded.

The *Current Awareness Bulletin (CAB)* is published by the Maritime Knowledge Centre and is not an official IMO publication. Inclusion does not imply any endorsement by IMO.

## CONTENTS

<a href="#">IMO / UNITED NATIONS NEWS &amp; EVENTS</a> .....	2
--	---

### INDUSTRY NEWS AND PUBLICATIONS

CASUALTIES.....	5
ENVIRONMENT .....	6
ENVIRONMENTAL POLLUTION .....	8
HEALTH AND SAFETY .....	10
IMO .....	10
LAW AND POLICY .....	11
MARINE TECHNOLOGY.....	16
MARITIME SAFETY .....	18
MARITIME SECURITY .....	18
MARITIME TRAINING .....	20
MIGRANTS .....	21
NAVIGATION AND COMMUNICATIONS .....	23
PORT STATE CONTROL.....	23
PORTS AND HARBOURS .....	23
RECYCLING OF SHIPS .....	26
REGULATIONS .....	27
SALVAGE .....	28
SEAFARERS .....	28
SEARCH AND RESCUE .....	29
SHIPBUILDING AND SHIPREPAIR .....	30
SHIPPING .....	30
RESEARCH.....	34

## ***IMO / UNITED NATIONS NEWS & EVENTS***

### **WHAT'S NEW**

#### **Maritime lawyer Dr. Frank Wiswall receives 2015 International Maritime Prize**

Dr. Frank Lawrence Wiswall Junior, former Chair of the IMO Legal Committee and Vice President (Honoris Causa) of the Comité Maritime International (CMI), has received the prestigious International Maritime Prize for 2015 for his contribution to the work of IMO over many years.

Presenting the Prize, during a ceremony at IMO Headquarters on Monday (5 December), IMO Secretary-General Kitack Lim highlighted Dr. Wiswall's dedication and leadership in the field of international maritime law over several decades, making an invaluable contribution to the goals and purpose of IMO.

"Dr. Wiswall's contribution to IMO's goals has been vast. In helping to provide the legal backbone for a regulatory regime that covers just about every aspect of ship design, construction and operation, and related issues like liability and compensation, wreck removal and ship recycling – he has played his part in our common goal of making shipping safe, secure, efficient and clean," Mr. Lim said. The Prize ceremony was held at the close of the first day of the IMO Council's 117th session. [Full Story: Briefing 31 - 06/12/2016](#)

Photos can be viewed and downloaded [here](#).

### **IMO MEETINGS FOR 2017**

Sub-Committee on Human Element, Training and Watchkeeping (HTW)  
4<sup>th</sup> session, 30 January – 3 February 2017

[Sub-Committee on Pollution Prevention and Response \(PPR\)](#) 4<sup>th</sup> session  
16 – 20 January 2017

### **IMO PRESS BRIEFINGS**

[Shanghai, Trinidad and Tobago to host maritime technology centres under ambitious IMO energy-efficiency project](#) Briefing: 32, December 23, 2016

### **IMO NEWS MAGAZINE** [\(Issue 4, 2016\)](#)

### **IMO PUBLISHING** [Just Published: 2017](#)

**RECENT SPEECHES BY IMO SECRETARY-GENERAL KITACK LIM**

Sub-Committee on Human Element, Training and Watchkeeping (HTW)  
4<sup>th</sup> session, 30 January – 3 February 2017 ([Opening](#) remarks)

[International Conference on Maritime Energy Management \(MARENER 2017\), World Maritime University, Malmö, Sweden](#) 24 January 2017

Sub-Committee on Pollution Prevention and Response (PPR)  
4<sup>th</sup> session, 16 – 20 January ([Opening](#) remarks)

[6th IMarEST Ballast Water Technology Conference](#) 12 January 2017

## UNITED NATIONS NEWS

**On eve of major UN conference, alarms raised that efforts to halt biodiversity loss are lagging.** *UN News Centre* [Online]. 1 December 2016. Available from: <http://www.un.org/apps/news/story.asp?NewsID=55695> Time is running out to stop the global decline in biodiversity and protect ecosystems that are essential for the livelihoods and well-being of billions of people, the United Nations Convention on Biological Diversity warned today, as more than 190 countries prepare to meet on this issue in Cancun, Mexico.

**New UN report finds marine debris harming more than 800 species, costing countries millions.** *UN News Centre* [Online]. 5 December 2016. Available from: <http://www.un.org/apps/news/story.asp?NewsID=55724> Marine debris is negatively affecting more than 800 animal species and causing serious losses to many countries' economies, according to a United Nations report launched today.

**UN conference adopts 'Cancun Declaration,' ramping up efforts to protect world's biodiversity.** *UN News Centre* [Online]. 4 December 2016. Available from: <http://www.un.org/apps/news/story.asp?NewsID=55712> More than 190 countries at a major United Nations conference in Mexico have pledged to step up efforts to integrate biodiversity into the policies of their forests, fisheries, tourism and agriculture sectors.

**INTERVIEW: 'It is important to let the positive side of migration be told' – IOM Director-General.** *UN News Centre* [Online]. 19 December 2016. Available from: <http://www.un.org/apps/news/story.asp?NewsID=55842> 🗣️ Every day, for the past three years, just over a dozen migrants have died on average, or one person every two hours, according to William Lacy Swing, Director-General of the United Nations International Organization for Migration (IOM), in a message to mark the International Migrants Day, 18 December.

**At Security Council, UN chief underlines need to tackle root causes of human trafficking.** *UN News Centre* [Online]. 20 December 2016. Available from: <http://www.un.org/apps/news/story.asp?NewsID=55848> 🗣️ Highlighting the plight of victims of human trafficking, United Nations Secretary-General Ban Ki-moon underlined today the need to ensure justice for victims and accountability for perpetrators, as well as to address underlying factors by focusing on human rights and stability.

**INTERVIEW: Making the 'most impossible job' a possible mission – Secretary-General Ban Ki-moon.** *UN News Centre* [Online]. 22 December 2016. Available from: <http://www.un.org/apps/news/story.asp?NewsID=55865> 🗣️ United Nations Secretary-General Ban Ki-moon's last day in office is 31 December 2016.

## CASUALTIES

### **Update: Salvage Control Unit established for vessel off the Isle of Anglesey.**

UK Maritime & Coastguard Agency [Online]. 3 December 2016. Available from:

<http://hmcoastguard.blogspot.co.uk/2016/12/salvage-control-unit-established-for.html>

UK's Secretary of State's Representative (SOSREP), Mr Hugh Shaw has established a Salvage Control Unit (SCU) to discuss a place of refuge for the bulk carrier 'V Due' that remains in a stable condition, despite a fire in the one its cargo holds off the Isle of Anglesey.

### **Manolis L - Update - December 2016.** Government of Canada [Online]. 2 December 2016.

Available from: <http://www.dfo-mpo.gc.ca/media/infocus-alaune/2016/Manolis/index-eng.htm>

The Canadian Coast Guard Environmental Response technical assessment of the *Manolis L* shipwreck was completed on September 5, 2016.

### **Ship sinks off Yemen with 60 people aboard.** Gulf News [Online]. 7 December 2016.

Available from: <http://gulfnews.com/news/gulf/yemen/ship-sinks-off-yemen-with-60-people-aboard-1.1941427>

Nearly 60 people are missing after a ship sank off Yemen's Socotra island, its fisheries minister said on Wednesday, with state media reporting that only two people had been rescued.

### **Vessel V Due will move into the Port of Liverpool overnight.** UK Maritime & Coastguard Agency [Online]. 8 December 2016. Available from:

<http://hmcoastguard.blogspot.co.uk/2016/12/vessel-v-due-will-move-into-port-of.html>

A decision has been made to take the bulk carrier *V Due* which has a smouldering cargo in one of its holds, to the Port of Liverpool.

### **Fishing boat collides with foreign-flagged ship, 4 fishermen missing.**

Yonhap News Agency (South Korea) [Online]. 8 December 2016. Available from:

<http://english.yonhapnews.co.kr/search1/2603000000.html?cid=AEN20161208011000315>

A South Korean fishing boat collided with a foreign-flagged vessel off the country's southwest coast on Thursday, leaving four fishermen missing, the Coast Guard said.

### **Nearby vessel rescues 6-member crew after boat fire off Burin Peninsula.**

**By Stephanie Kinsella.** Canadian Broadcasting Corporation (CBC) [Online].

9 December 2016. Available from: <http://www.cbc.ca/news/canada/newfoundland-labrador/fire-boat-burin-peninsula-cape-mariner-rescue-1.3889306> 📺

One of the six people onboard a fishing vessel that caught fire Thursday morning off the Burin Peninsula says they're "all very lucky" and credits a nearby boat for coming to their rescue.

### **El Faro Voyage Data Recorder Transcript, Factual Reports, Added to NTSB Docket.**

US National Transportation Safety Board (NTSB) [Online]. 13 December 2016. Available from:

<https://www.nts.gov/news/press-releases/Pages/PR20161213.aspx> 📺

The transcript from the *El Faro*'s voyage data recorder bridge audio was one of five factual reports added Tuesday to the NTSB's *El Faro* investigation docket as part of the agency's ongoing investigation into the maritime tragedy.

### **Worker killed in yard breaking German-owned container ship "Viktoria Wulff".**

NGO Shipbreaking Platform [Online]. 12 December 2016. Available from:

<http://www.shipbreakingplatform.org/platform-news-worker-killed-in-yard-breaking-german-owned-container-ship-viktoria-wulff/>



On 4 December, worker Shah Jahan was killed on the spot at Arefin shipbreaking yard in Chittagong, Bangladesh, where German container ship "Viktoria Wulff" (IMO 9252101) is currently being dismantled on the beach.

**18 ship crew hurt in tanker explosion. By Ernie B. Esconde and Frederick Silverio.** *Manila Times* [Online]. 15 December 2016. Available from: <http://www.manilatimes.net/18-ship-crew-hurt-tanker-explosion/301905/> Eighteen boat crew were injured, with eight of them suffering severe burns, in an explosion at the engine room of an oil tanker docked along Manila Bay here on late Wednesday afternoon.

**Five Dead after MSC Containership Collides with Ecuadorian Fishing Boat.** *World Maritime News* [Online]. 19 December 2016. Available from: <http://worldmaritimeweb.com/archives/208908/five-dead-after-msc-containership-collides-with-ecuadorian-fishing-boat/> Five people died and six have been reported missing following a collision between *MSC Regulus*, a containership operated by Swiss-based Mediterranean Shipping Company (MSC), and the Ecuadorian fishing vessel *Don Gerardo II* on the border between Ecuador and Peru on December 17, 2016.

**Boxship collides with trawler off Xiamen, 11 feared dead. By Sam Chambers.** *Splash 24/7* [Online]. 20 December 2016. Available from: <http://splash247.com/boxship-collides-trawler-off-xiamen-11-feared-dead/> The 907 teu Hong Kong-flagged *Sinotrans Xiamen*, operated by Sinotrans Shipping, collided with a fishing vessel near Xiamen just after midnight today.

**Fire Leaves Chemical Tanker Adrift.** *Maritime Executive* [Online]. 20 December 2016. Available from: <http://www.maritime-executive.com/article/fire-leaves-chemical-tanker-adrift> On Monday afternoon, the chemical tanker *Cape Bon* suffered a fire in an electrical pane as she was transiting the English Channel.

**Accident Investigation Report 27/2016: Collision between general cargo vessel *Daroja* and oil bunker barge *Erin Wood*, on 29 August 2015.** *UK Marine Accident Investigation Branch (MAIB)* [Online]. 22 December 2016. Available from: <https://www.gov.uk/maib-reports/collision-between-general-cargo-vessel-daroja-and-oil-bunker-barge-erin-wood> On 29 August 2015, in daylight and good visibility, the cargo ship *Daroja* and the bunker barge *Erin Wood* collided just east of Peterhead, Scotland. [Report](#)  [Annexes](#) 

**Seven dead off Yemen as rocket sinks Iranian ship. By Sam Chambers.** *Splash 24/7* [Online]. 23 December 2016. Available from: <http://splash247.com/seven-dead-off-yemen-rocket-sinks-iranian-ship/> A small Iranian general cargo vessel was hit on Wednesday night by a rocket off the Yemen coast with seven Pakistani seafarers killed.

## ENVIRONMENT

**Workshop to assist small islands preserve marine environment and harness maritime resources.** *Seychelles Nation* [Online]. 6 December 2016. Available from: <http://www.nation.sc/article.html?id=252080> An Indian Ocean Regional workshop of the Commonwealth Marine Economies (CME) programme aimed at providing capacity building to Commonwealth small island developing states (SIDS) institutions, as well as addressing economic and environmental needs, was held at Avani Seychelles Barbarons Resort & Spa yesterday.

**Mexico Committed to the Conservation of their Oceans.** *Nature Conservancy* [Online]. 5 December 2016. Available from: <http://www.nature.org/newsfeatures/pressreleases/mexico-committed-to-the-conservation-of-their-oceans.xml> The President of México, Enrique Peña Nieto, through the Secretary of Environment and Natural Resources (SEMARNAT) and the National Commission of Protected Areas (CONANP), signed a decree today to create three new marine biosphere reserves, on the occasion of hosting the United Nations Convention on Biological Diversity COP 13.

**Fuel Talk: Greener Ships 'Abandoned'.** By William Stoichevski. *MarineLink.Com* [Online]. 6 December 2016. Available from: <http://www.marinelink.com/news/abandoned-greener-ships419143> For all the financial strains of recent months, offshore ship owners gathered for "hard talk" in a hotel meeting room say they're impressed with the performance of new tech they've taken on to conserve fuel and emit less: hydrogen fuel cells, batteries and liquefied natural gas (LNG).

**Shipping's carbon emissions: will China outsmart us all?** By Olaf Merk. *Shipping Today* [Online]. 8 December 2016. Available from: [http://shippingtoday.eu/china\\_carbon/](http://shippingtoday.eu/china_carbon/) Shipping's climate roadmap is essentially a time-buying device.

**'Mixed Results': [The 2016 Ocean Health Index shows no major declines — and few real improvements].** By Julie Cohen. *University of California, Santa Barbara* [Online]. 8 December 2016. Available from: <http://www.news.ucsb.edu/2016/017445/mixed-results> The results are in, and while the world's oceans show no significant decline over the past year, their condition should not be mistaken as a clean bill of health.

**Annual scores and rankings.** *Ocean Health Index* [Online]. December 2016. Available from: <http://www.oceanhealthindex.org/region-scores/annual-scores-and-rankings> Overall scores and individual scores are directly comparable between all regions.

**Tragic Trajectories: It's Time to End Arctic Drilling.** By Niel Lawrence. *Natural Resources Defense Council (NRDC)* [Online]. 13 December 2016. Available from: <https://www.nrdc.org/experts/niel-lawrence/tragic-trajectories-its-time-end-arctic-drilling> It doesn't take a genius to see that drilling for oil in the Arctic Ocean is a really bad idea. Now, a new NRDC report, *The Fate of the Arctic in Offshore Oil Blowouts*, gives us a better idea of just how bad.

**The Fate of the Arctic in Offshore Oil Blowouts.** By Franz Matzner and Niel Lawrence. *Natural Resources Defense Council (NRDC)* [Online]. 13 December 2016. Available from: <https://www.nrdc.org/resources/fate-oil-arctic-ocean-blowouts> In November 2016, President Obama announced a five-year ban on drilling in the Atlantic and the fragile Arctic.

[Fact Sheet](#)  [Report](#) 

**More than five per cent of world's oceans now protected – UN Environment.** *UN News Centre* [Online]. 14 December 2016. Available from: <http://www.un.org/apps/news/story.asp?NewsID=55798> Since April, an unprecedented 3.6 million square kilometres of ocean – an area larger than India – have been designated as marine protected areas (MPAs), meaning for the first time, more than 5% of the world's oceans are now protected.

**EBSA, on the agenda at the global biodiversity conference.** *Secretariat of the Pacific Regional Environment Programme (SPREP)* [Online]. 16 December 2016. Available from: <http://www.sprep.org/biodiversity-ecosystems-management/ebsa-on-the-agenda-at-the-global-biodiversity-conference> EBSA which stands for Ecologically or Biologically Significant Marine Areas in open-ocean waters and deep sea habitats, that help to support the healthy functioning of oceans and the wide range of services the ocean provides.

**Urgent need for Tonga to protect 22 priority marine sites.** *Matangi Tonga Online* [Online]. 16 December 2016. Available from: <http://matangitonga.to/2016/12/16/urgent-need-tonga-protect-22-priority-marine-sites> Tonga is among Pacific Islands countries that have identified important marine areas that are ecologically or biologically significant, and Vava'u is one area that has sites that need protecting.



**Riding The Wave For Marine Conservation At UN Biodiversity Summit.**

**By Trevor Sandwith, Director, IUCN Global Protected Areas Programme.** *Huffington Post* [Online]. 16 December 2016. Available from: [http://www.huffingtonpost.com/iucn-planet-at-the-crossroads/riding-the-wave-for-marine\\_b\\_13669238.html](http://www.huffingtonpost.com/iucn-planet-at-the-crossroads/riding-the-wave-for-marine_b_13669238.html) Mexico's pledge to establish four new marine protected areas, made at the ongoing UN biodiversity conference in Cancún, Mexico, has boosted efforts to protect the global ocean, further advancing commitments made in the Promise of Sydney at the IUCN World Parks Congress 2014.

**Setting new sustainability standards for cruising.** **By Lindsay James.** *Cruise and Ferry* [Online]. 20 December 2016. Available from: <http://www.cruiseandferry.net/articles/setting-new-sustainability-standards-for-cruising> While the rising popularity of cruise holidays is a huge benefit to the industry, the associated environmental impact presents a significant shortcoming.

**The Guardian view on climate change action: don't delay.** *The Guardian* [Online]. 19 December 2016. Available from: <https://www.theguardian.com/commentisfree/2016/dec/19/the-guardian-view-on-climate-change-action-dont-delay> Temperatures in the Arctic in the last two months have hit more than 20C above normal for the time of year.

**Can the shipping industry 'go green'?** *Lloyd's List* [Online]. 21 December 2016. Available from: <https://www.lloydslist.com/ll/sector/ship-operations/article545229.ec> There is a lot of discussion around 'green shipping' in light of recent regulatory measures by the International Maritime Organization's Marine Environment Protection Committee to monitor fuel consumption, reduce sulphur emissions and better manage ballast water.

**WISTA Forum debates shipping's resilience in an unstable environment.** *Safety 4 Sea* [Online]. 22 December 2016. Available from: <http://www.safety4sea.com/wista-forum-debates-shippings-resilience-in-an-unstable-environment/> The WISTA Hellas 2016 Annual Forum brought key players from the Greek and international shipping community together for an animated panel discussion on the uncertainty dominating the global market at Intercontinental Hotel in Athens on Thursday 8 December.

## ENVIRONMENTAL POLLUTION

**Plastic Island: How our throwaway culture is turning paradise into a graveyard.**

**By Nick Paton Walsh, Ingrid Formanek, Jackson Loo, and Mark Phillips.** *CNN* [Online]. 1 December 2016. Available from: <http://edition.cnn.com/interactive/2016/12/world/midway-plastic-island/> 🗿 The distance from humanity yawns out in front of you when you stand on the pale sands of this tiny Pacific island.

**Indonesia calls on Australia to help with *Montara* oil spill aftermath.** **By Jewel Topsfield.**

*Sydney Morning Herald (Australia)* [Online]. 6 December 2016. Available from: <http://www.smh.com.au/world/indonesia-calls-on-australia-to-help-with-montara-oil-spill-aftermath-20161206-qt4usw.html> One of Indonesia's most senior ministers has called on Australia to help find a solution to the 2009 *Montara* oil spill which he says caused lasting negative impacts in one of the country's poorest provinces.

**Prepared for petrol spill: Fogo Island fish harvesters trained to deploy oil boom.**

**By Chris Ensing.** *Canadian Broadcasting Corporation (CBC)* [Online]. 5 December 2016. Available from: <http://www.cbc.ca/news/canada/newfoundland-labrador/oil-spill-training-environment-response-fogo-island-1.3876471> A group of fish harvesters on Fogo Island is now trained to deploy an oil containment boom if a spill were to happen in local fishing areas.


**Marine debris: Understanding, preventing and mitigating the significant adverse impacts on marine and coastal biodiversity.** *Secretariat of the Convention on Biological Diversity*

[Online]. 2016. Available from: <https://www.cbd.int/doc/publications/cbd-ts-83-en.pdf> 

Marine debris is recognized as a globally significant stressor on the marine and coastal environment, with impacts on marine biodiversity having been reported over the last four decades.

**CO2 and sulphur emissions from the shipping industry.** By Gustav Krantz. *Trans Oleum*

[Online]. October 2016. Available from: [http://www.transoleum.se/wp-](http://www.transoleum.se/wp-content/uploads/2016/11/CO2-and-sulphur-emissions-from-the-shipping-industry.pdf)

[content/uploads/2016/11/CO2-and-sulphur-emissions-from-the-shipping-industry.pdf](http://www.transoleum.se/wp-content/uploads/2016/11/CO2-and-sulphur-emissions-from-the-shipping-industry.pdf) 

A majority of the shipping industry in the Baltic Sea, the North Sea and the English Channel (SECA) have switched fuel as of January 2015 to comply with the new sulphur emission regulation.

**Ships and planes will wipe out half the emissions savings to be made by cars and trucks – study.** *Transport & Environment* [Online]. 6 December 2016. Available from:

<https://www.transportenvironment.org/press/ships-and-planes-will-wipe-out-half-emissions-savings-be-made-cars-and-trucks-%E2%80%93-study>

Growth in emissions from shipping and aviation will undo nearly half (43%) of the savings expected to be made by the rest of transport in Europe through to 2030, a new independent study has found.

**SAMSA moves to ensure maritime environmental safety around stricken Greek vessel headed for Cape Town.** *South African Maritime Safety Authority (SAMSA)* [Online].

8 December 2016. Available from: <http://www.goo.gl/qBtJLh> The South African Maritime Safety Authority (SAMSA) has begun fully mobilizing appropriate and relevant safety measures to secure maritime environmental safety in the wake of a salvage operation this week involving a stricken Greek bulk carrier on the Atlantic Ocean west of Cape Town.

**Ecology Research Report: How noise pollution impacts marine ecology.** By Laura Briggs.

*The Ecologist* [Online]. 12 December 2016. Available from:

[http://www.theecologist.org/News/news\\_analysis/2988441/ecology\\_research\\_report\\_how\\_noise\\_pollution\\_impacts\\_marine\\_ecology.html](http://www.theecologist.org/News/news_analysis/2988441/ecology_research_report_how_noise_pollution_impacts_marine_ecology.html)

Building up a library of sound from marine creatures including cod, whelks and sea slugs is important to helping build resilience in species affected by noise pollution, according to Exeter University's Associate Professor in Marine Biology and Global Change Dr Steve Simpson.

**Project aims to cut air pollution from ships in the Mediterranean.** *Times of Malta* [Online].

18 December 2016. Available from:

<http://www.timesofmalta.com/articles/view/20161218/environment/Project-aims-to-cut-air-pollution-from-ships-in-the-Mediterranean.634222>

A project entitled 'Together against Air Pollution from Ships' was recently launched in Malta aimed at conducting a public awareness campaign regarding air pollution generated by cruise ships with the ultimate goal of establishing a Sulphur Emission Control Area (Seca) in the Mediterranean.

**Gulf of Kutch exercise to test readiness to combat oil spill.** *Times of India* [Online].

18 December 2016. Available from: [http://timesofindia.indiatimes.com/city/rajkot/Gulf-of-Kutch-](http://timesofindia.indiatimes.com/city/rajkot/Gulf-of-Kutch-exercise-to-test-readiness-to-combat-oil-spill/articleshow/56042144.cms)

[exercise-to-test-readiness-to-combat-oil-spill/articleshow/56042144.cms](http://timesofindia.indiatimes.com/city/rajkot/Gulf-of-Kutch-exercise-to-test-readiness-to-combat-oil-spill/articleshow/56042144.cms) The Indian Coast Guard (ICG) - the central coordinating authority for combating oil spills at sea - will conduct the sixth edition of National Pollution Response Exercise (NATPOLREX-VI) off Mundra in the Gulf of Kutch (GoK) on December 20 and 21.

**Crib notes: China smashes 2016 carbon intensity goal. By Megan Darby and Ed King.**

*Climate Home* [Online]. 19 December 2016. Available from:

<http://www.climatechangenews.com/2016/12/19/crib-notes-china-smashes-2016-carbon-intensity-goal/>

The world's largest greenhouse gas polluter beat its target to cut the amount of carbon emitted per unit of GDP, official documents reveal.

**Europe urged to cut all transport emissions to keep climate pledge. By James Crisp.**

*EurActiv* [Online]. 22 December 2016. Available from: <http://www.euractiv.com/section/climate-environment/news/europe-urged-to-cut-all-transport-emissions-to-keep-climate-pledge/>

Germany's Öko-Institut warned the EU must cut global warming transport emissions by 94% by 2050 to stop the planet's temperature rising above the two degree limit agreed by world leaders at the Paris climate summit in December 2015.

**Clean Arctic Alliance Praises US & Canada Move to Phase out Arctic's Dirtiest Fuel.**

*Arctic Journal* [Online]. 21 December 2016. Available from:

<http://www.thearcticjournal.com/press-releases/2780/clean-arctic-alliance-praises-us-canada-move-phase-out-arctics-dirtiest-fuel>

Responding to the December 20th joint statement from the United States and Canada, regarding development of a strategy to phase out their use of heavy fuel oil (HFO) from vessels operating in the Arctic, the Clean Arctic Alliance praised both Arctic nations for their ambitious action to rid the region of the dirtiest marine fuel.

## HEALTH AND SAFETY

**Live Animal Export: Crews share diseases. By Dr Lynn Simpson. *Splash 24/7* [Online].**

6 December 2016. Available from: <http://splash247.com/live-animal-export-crews-share-diseases/> Humans pick up some nasty gifts from livestock as Dr Lynn Simpson details in her latest instalment for Splash.

**An open letter to the IMO demanding changes to the livestock trades.**

**By Dr Lynn Simpson, Veterinary Epidemiology/Surveillance. *Splash 24/7* [Online].**

20 December 2016. Available from: <http://splash247.com/open-letter-imo-demanding-changes-livestock-trades/> Having created one of the world's greatest exposés in the history of shipping journalism, Australian vet Dr Lynn Simpson has penned this open letter to the secretary general of the International Maritime Organization.

## IMO

**Can 'big data' ensure global enforcement of the IMO's requirements for sulphur**

**emissions? By Malcolm Lataarhe. *ShipInsight* [Online]. 1 December 2016. Available from:**

<https://www.shipinsight.com/can-big-data-ensure-global-enforcement-of-the-imos-requirements-for-sulphur-emissions/>

In the wake of the IMO's requirements for a substantial reduction in sulphur emissions from shipping, there is still a big question mark over how the requirements are to be enforced globally.

**IACS, IMO sign MoA for enhanced collaboration. *International Association of Classification Societies (IACS)* [Online]. 9 December 2016. Available from:**

<http://www.iacs.org.uk/news/article.aspx?newsid=202> The International Maritime Organization (IMO) and the International Association of Classification Societies (IACS) have signed a Memorandum of Agreement (MoA) to collaborate further on their shared goals and objectives with regard to safe, secure and environmentally sound shipping.

**Open letter to ICS on the IMO CO2 roadmap.** *European Community Shipowners' Associations (ECSA)* [Online]. 8 December 2016. Available from: <http://www.ecsa.eu/9-latest-news/290-ecsa-s-open-letter-to-ics-on-the-imo-co2-roadmap> The International Maritime Organisation reached a number of important decisions on ship emissions at its 70th MEPC meeting end of October.

**IMO Educating the Next Generation.** *Port Technology International* [Online].

19 December 2016. Available from:

[https://www.porttechnology.org/news/imo\\_educating\\_the\\_next\\_maritime\\_generation](https://www.porttechnology.org/news/imo_educating_the_next_maritime_generation)

Capt. Antonio M. Padrón y Santiago, 'IMO Maritime Ambassador', and the Maritime Authority of Tenerife, have held a meeting with young students of a sailing course organised by the Royal Nautical Club of Tenerife.

**Europe should pile up pressure on the IMO to deliver on CO2 cap.**

*European Sea Ports Organization (ESPO)* [Online]. 16 December 2016. Available from:

<http://www.espo.be/news/europe-should-pile-up-pressure-on-the-imo-to-deliv>

The European Parliament's Environment Committee voted for the inclusion of the shipping emissions in the EU ETS "in the absence of progress at international level" as from 2023 and the establishment of a maritime climate fund.

**Kitack Lim, International Maritime Organization.** *Lloyd's List* [Online]. 18 December 2016.

Available from: <https://www.loydslist.com/ll/news/top100/article544781.ece> A year into his role as head of the International Maritime Organization, Kitack Lim is certainly making his presence felt.

## LAW AND POLICY

**Shanghai Maritime Court orders Varun to pay \$115,000 in landmark crew abandonment ruling. By Sam Chambers.** *Splash 24/7* [Online]. 2 December 2016. Available from:

<http://splash247.com/shanghai-maritime-court-orders-varun-pay-115000-landmark-crew-abandonment-ruling/>

In a potential game changing move, stranded crew onboard a Varun Aframax have successfully sued the Indian owner at a court in China, potentially paving the way for hundreds of other abandoned seafarers around the world to take legal measures to claw back late salaries and seek repatriation.

**The EU engages in the third round of negotiations to prevent unregulated fishing in the Arctic high seas.** *European Commission* [Online]. 2 December 2016. Available from:

[https://ec.europa.eu/maritimeaffairs/content/eu-engages-third-round-negotiations-prevent-unregulated-fishing-arctic-high-seas\\_en](https://ec.europa.eu/maritimeaffairs/content/eu-engages-third-round-negotiations-prevent-unregulated-fishing-arctic-high-seas_en)

The European Union participated in the third round of international negotiations on measures to prevent unregulated fishing in the Arctic high seas.

**Princess Cruise Lines to Pay Largest-Ever Criminal Penalty for Deliberate Vessel**

**Pollution.** *US Department of Justice* [Online]. 1 December 2016. Available from:

<https://www.justice.gov/opa/pr/princess-cruise-lines-pay-largest-ever-criminal-penalty-deliberate-vessel-pollution>

Princess Cruise Lines Ltd. (Princess) has agreed to plead guilty to seven felony charges stemming from its deliberate pollution of the seas and intentional acts to cover it up.

**Govt forms Blue Economy Cell. By Aminur Rahman Rasel.** *Dhaka Tribune (Bangladesh)*

[Online]. 3 December 2016. Available from:

<http://www.dhakatribune.com/bangladesh/2016/12/03/govt-forms-blue-economy-cell/>

The cell's main task will be to explore the seabed of the Bay within the Bangladeshi marine border for fossil fuel deposits and other mineral resources.

**NATO co-chairs Counter-piracy conference as Operation Ocean Shield's mandate terminates.** *NATO Maritime Command* [Online]. 2 December 2016. Available from: <http://www.mc.nato.int/media-centre/news/2016/nato-cochairs-counterpiracy-conference-as-operation-ocean-shields-mandate-terminates-.aspx> A forum to discuss counter-piracy in the Gulf of Aden and in the Indian Ocean and the importance of cooperation between naval units in the region, industry and other concerned organizations.

**The government's report on the Great Barrier Reef is a 'dog ate my homework' moment.** **By Larissa Waters.** *The Guardian* [Online]. 2 December 2016. Available from: <https://www.theguardian.com/commentisfree/2016/dec/02/the-governments-report-on-the-great-barrier-reef-is-a-dog-ate-my-homework-moment> If you've ever visited the Great Barrier Reef, or are one of the 70,000 people whose job relies upon it, you know why it's considered one of the seven natural wonders of the world.

**Extension of EUNAVFOR Mandate is Necessary and Welcome to Counter Continuing Piracy Threat.** *International Chamber of Shipping (ICS)* [Online]. 5 December 2016. Available from: <http://www.ics-shipping.org/news/press-releases/2016/12/05/extension-of-eunavfor-mandate-is-necessary-and-welcome-to-counter-continuing-piracy-threat> The International Chamber of Shipping (ICS) has welcomed the extension of EUNAVFOR Operation Atalanta, following a decision by the EU Council, which will continue to see military forces deployed for counter piracy operations in the Western Indian Ocean until December 2018.

**Brand and transport leaders sign historic declaration to stop maritime shipping of counterfeit goods.** *International Chamber of Commerce (ICC)* [Online]. 30 November 2016. Available from: <http://www.iccwbo.org/News/Articles/2016/Brand-and-transport-leaders-sign-historic-declaration-to-stop-maritime-shipping-of-counterfeit-goods/> Brand owners and representatives from the international shipping industry have joined forces in signing an historic declaration of intent aimed at preventing the maritime transport of counterfeit goods.

**Improving governance of maritime transport in the Pacific.** *Pacific Community (SPC)* [Online]. 7 December 2016. Available from: <https://www.spc.int/blog/improving-governance-of-maritime-transport-in-the-pacific/> Heads of maritime and energy administrations have gathered in Port Vila, Vanuatu, to discuss and agree on regional issues, challenges and opportunities for an improved governance of the energy and transport sectors and the request for support from the various development partners committed to energy and transport in the Pacific.


**HC reserves order in appeal by US anti-piracy ship crew.** *Times of India* [Online]. 2 December 2016. Available from: <http://www.goo.gl/bfa9Ok> The Madurai bench of the Madras high court has reserved its order on a batch of appeals filed by the crew members of the US-based anti-piracy ship 'MV Seaman Guard Ohio' challenging their conviction by a trial court in Tuticorin for entering the Indian territorial waters illegally with a large cache of arms and ammunition.

**Feature: Malaysia, Philippines, Indonesia mull high security Sulu Sea corridor to curb piracy.** *S&P Global Platts* [Online]. 9 December 2016. Available from: <http://www.platts.com/latest-news/shipping/singapore/feature-malaysia-philippines-indonesia-mull-high-27727345> Malaysia, the Philippines and Indonesia are considering to establish a high security corridor along the Sulu Sea and Sabah to tackle the piracy menace that has resulted in several attacks and kidnappings this year, shipping industry sources and maritime analysts said.

**Will a Weakened EPA Impact 2020 Compliance Decision Making? By Adrian Tolson, Senior Partner, 20|20 Marine Energy.** *Ship & Bunker* [Online]. 8 December 2016.

Available from: <http://shipandbunker.com/news/features/2020-vision/561893-will-a-weakened-epa-impact-2020-compliance-decision-making> On the days after Donald Trump was elected President, I remarked to an industry colleague on what impact this might have on global environmental initiatives and MARPOL regulations, and their enforcement, if he acted on his campaign promises to limit the activities of the US Environmental Protection Agency (EPA), and withdraw from the Paris Agreement on Climate Change.

**Canada should modernize grey water discharge rules for the Arctic, WWF-Canada says.**

*WWF Canada* [Online]. 9 December 2016. Available from: <http://www.wwf.ca/newsroom/?23481/Canada-should-modernize-grey-water-discharge-rules-for-the-Arctic-WWF-Canada-says>; To protect the especially sensitive Arctic ecosystem, WWF-Canada is urging Transport Canada – which is currently revising safety and pollution regulations – to officially adopt the same or stronger levels of regulations on grey water discharged in waters north of 60 degrees latitude as apply south of 60. [Discharge of Grey Water from Cruise Ships Operating in Arctic Waters - Impacts and Regulations](#) 

**Executive Order -- Northern Bering Sea Climate Resilience.** *The White House* [Online].

9 December 2016. Available from: <https://obamawhitehouse.archives.gov/the-press-office/2016/12/09/executive-order-northern-bering-sea-climate-resilience> The Bering Sea and Bering Strait are home to numerous subsistence communities, rich indigenous cultures, and unique marine ecosystems, each of which plays an important role in maintaining regional resilience.

**White House Announces Actions to Protect Natural and Cultural Resources in Alaskan Arctic Ocean.** *The White House* [Online]. 9 December 2016. Available from:

<https://obamawhitehouse.archives.gov/the-press-office/2016/12/09/fact-sheet-white-house-announces-actions-protect-natural-and-cultural> Since taking office, President Obama has worked to protect the Arctic's natural and cultural resources and the communities that rely upon them through the use of science-based decision making, enhanced coordination of Federal Arctic management, efforts to combat illegal fishing, and revitalization of the process for establishing new marine sanctuaries.

**Sea Change: The Republic of Seychelles aims to keep its economy in the blue by protecting 30 percent of its waters through a historic debt-for-nature deal.**

**By Ginger Strand.** *Nature Conservancy* [Online]. December 2016. Available from: <http://www.nature.org/magazine/archives/saving-seychelles.xml> In an auditorium in Victoria, the small but vibrant capital of Seychelles, a middle-school girl in a pinstriped uniform is making a case for marine protected areas.

**Better economic security for abandoned seafarers.** *Danish Maritime Authority* [Online].

13 December 2016. Available from: <http://www.dma.dk/Presse/Nyheder/Sider/Better-economic-security-for-abandoned-seafarers.aspx> Now, shipowners must take out insurance or provide other guarantee securing abandoned seafarers' repatriation and subsistence as well as outstanding wage claims and other remuneration.

**Cancun communiqué on the role of legislators in mainstreaming biodiversity for well-being.** *Convention on Biological Diversity* [Online]. 7 December 2016. Available from:

<https://www.cbd.int/doc/press/2016/pr-2016-12-12-global-legislators-forum-en.pdf> 

We, legislators gathered together on the occasion of the CBD COP13 Legislators Forum at the United Nations Biodiversity Conference, Cancun, Mexico, 2016, on 7 December 2016, have discussed practical strategies and success stories in promoting the conservation and sustainable use of biodiversity, the implementation of the Strategic Plan for Biodiversity 2011-2020 and Aichi Targets through focussed legislative leadership.

**Indonesia and Australia are sleeping ocean superpowers. By Ove Hoegh-Guldberg, University of Queensland and Jamaluddin Jompa, Universitas Hasanuddin.**

*The Conversation* [Online]. 15 December 2016. Available from:

<https://theconversation.com/indonesia-and-australia-are-sleeping-ocean-superpowers-69886>

The two neighbouring countries share huge marine resources and opportunities.

**China installs weapons systems on artificial islands: U.S. think tank.**

**By David Brunnstrom.** *Reuters* [Online]. 15 December 2016. Available from:

<http://www.reuters.com/article/us-southchinesea-china-arms-idUSKBN1431OK> China appears to have installed weapons, including anti-aircraft and anti-missile systems, on all seven of the artificial islands it has built in the South China Sea, a U.S. think tank reported, citing new satellite imagery.

**Captain of Migrant Boat Convicted of Manslaughter.** *Maritime Executive* [Online].

14 December 2016. Available from: <http://www.maritime-executive.com/article/captain-of-migrant-boat-convicted-of-manslaughter> A court in Sicily has convicted two crewmembers of manslaughter in connection with the wreck of a migrant vessel in April 2015, which resulted in the deaths of 700 passengers – one of the deadliest known disasters of the Mediterranean migration crisis.

**Record Fine for Stevedore's Death.** *Maritime Executive* [Online]. 14 December 2016.

Available from: <http://www.maritime-executive.com/article/record-fine-for-stevedores-death> Shipping operator Toll Transport has been convicted and fined a record A\$1 million (\$742,000) over the death of an employee who was crushed to death while helping load the *Tasmanian Achiever* at Webb Dock, Melbourne, Australia, in 2014.

**European Union Marks Eight Years of Counter-Piracy Commitment to Protect World Food Programme Vessels and Deter Pirate Attacks off Coast of Somalia, but Warns No Room for Complacency.** *EU NAVFOR Somalia* [Online]. 13 December 2016. Available from:

<http://www.goo.gl/IFZ96I> This week the European Union is marking eight years since it launched its first ever maritime military operation, EU NAVFOR Somalia – Operation Atalanta, in response to a surge in armed pirate attacks on merchant ships and other vessels in the Gulf of Aden and Indian Ocean.


**Parliament ETS report undermines global work on CO2 emissions of shipping.**

*European Community Shipowners' Associations (ECSA)* [Online]. 15 December 2016.

Available from: <http://www.ecsa.eu/9-latest-news/292-parliament-ets-report-undermines-global-work-on-co2-emissions-of-shipping> MEPs agreed on a compromise text for shipping, which puts pressure on the International Maritime Organisation (IMO) to have a system comparable to ETS operating for global shipping as from 2021. If that is not the case, then shipping will be included in the European ETS as from 2023.

**Split European Parliament puts shipping in jeopardy.** *Danmarks Rederiforening (Danish Shipowners' Association)* [Online]. 15 December 2016. Available from: <https://www.shipowners.dk/en/presse/nyheder/split-european-parliament-puts-shipping-in-jeopardy/> Today, the European Parliament's Environment Committee decided to call for the inclusion of maritime transport into the EU Emissions Trading Scheme (ETS).

**The Cartagena Protocol and the Pacific islands.** *Secretariat of the Pacific Regional Environment Programme (SPREP)* [Online]. 16 December 2016. Available from: <http://www.sprep.org/biodiversity-ecosystems-management/the-cartagena-protocol-and-the-pacific-islands> There are ten Pacific parties to this Protocol which aims to ensure the safe transport, handling and use of living modified organisms (LMO) resulting from modern biotechnology that may have adverse effects on biodiversity.

**Turn The Tide: Human Rights Abuses and Illegal Fishing in Thailand's Overseas Fishing Industry.** *Greenpeace* [Online]. December 2016. Available from: <http://www.greenpeace.org/seasia/PageFiles/745330/Turn-The-Tide.pdf>  Greenpeace's 12-month long investigation exposes the activities of Thailand's rogue overseas fishing fleets, the companies behind them and their supply chain connections to export markets.

**Thumbs-up for landmark Indonesia-S'pore treaty. By Francis Chan.** *Straits Times* [Online]. 17 December 2016. Available from: <http://www.straitstimes.com/asia/thumbs-up-for-landmark-indonesia-spore-treaty> Indonesian lawmakers have ratified a sea border treaty with Singapore, inked in 2014 to provide clarity on the two countries' sovereignty over the busy sea lanes of the Singapore Strait.

**In the last-chance saloon, aviation and shipping drop the ball. By Bill Hemmings, aviation and shipping director.** *Transport & Environment* [Online]. 16 December 2016. Available from: <https://www.transportenvironment.org/news/last-chance-saloon-aviation-and-shipping-drop-ball> What we learned in 2016: 2015 ended with big promises from the UN aviation and shipping bodies, ICAO and the IMO, that they'd finally act to rein in their sectors' substantial and growing climate impact.

**U.S. Coastguards in Nigeria to strengthen implementation of ISPS Code.** *Guardian (Nigeria)* [Online]. 21 December 2016. Available from: <http://guardian.ng/business-services/u-s-coastguards-in-nigeria-to-strengthen-implementation-of-isps-code/> The United States Coast Guard (USCG) was recently in the country to carry out a pre-assessment report of port and terminal facilities in Nigeria, in line with the implementation of the International Ship and Port Facility Security (ISPS) Code.

**Now it is possible to check the validity of seafarers' certificates online.** *Danish Maritime Authority* [Online]. 20 December 2016. Available from: <http://www.dma.dk/Presse/Nyheder/Sider/Now-it-is-possible-to-check-the-validity-of-seafarers-certificates-online.aspx> The new solution makes it possible for everyone to check whether a certificate (STCW) is genuine.

**Exhibition to mark 50 years of government and industry working together to address the risk of oil pollution from ships.** *International Group of Protection & Indemnity Clubs (IGP&I)* [Online]. 21 December 2016. Available from: <http://www.igpandi.org/article/exhibition-mark-50-years-government-and-industry-working-together-address-risk-oil-pollution-ships> The International Group is collaborating with the IMO, IOPC Funds and other industry organisations to produce an exhibition at the IMO to mark the achievements of the international community over the past 50 years to achieve a sustained reduction in major oil spills from ships; to establish effective systems for preparedness and response if there is an incident; and to create a comprehensive mechanism for providing compensation.



**Obama permanent drilling bans could be short lived.** *Marine Log* [Online].

21 December 2016. Available from:

[http://www.marinelog.com/index.php?option=com\\_k2&view=item&id=24452:obama-permanent-drilling-bans-could-be-short-lived](http://www.marinelog.com/index.php?option=com_k2&view=item&id=24452:obama-permanent-drilling-bans-could-be-short-lived)

Oil and gas industry voices are already calling on the incoming Trump administration to reverse "permanent" restrictions on drilling in the Arctic and Atlantic announced yesterday by President Barack Obama.

**China's Emerging Arctic Policy.** By Nengye Liu, Senior Lecturer, School of law, University of New England, Australia. *The Diplomat* [Online]. 14 December 2016. Available from:

<http://thediplomat.com/2016/12/chinas-emerging-arctic-policy/> China's recent construction of a research station in Iceland has once again generated interest as to what China's Arctic ambitions are.

**United States-Canada Joint Arctic Leaders' Statement.** *The White House* [Online].

20 December 2016. Available from: <https://www.whitehouse.gov/the-press-office/2016/12/20/united-states-canada-joint-arctic-leaders-statement>

In March, President Obama and Prime Minister Trudeau announced a new partnership to embrace opportunities and confront challenges in the changing Arctic, with Indigenous and Northern partnerships, and responsible, science-based leadership.

**Boosting India-EU maritime cooperation.** By Vice Admiral Anil Chopra.

*Gateway House: Indian Council on Global Relations* [Online]. 22 December 2016.

Available from: <http://www.goo.gl/SJFp8g> With common objectives in the Indo-Pacific, the maritime sphere is a good opportunity for India and the EU to deepen cooperation.

**Kenya seizes nearly two tonnes of ivory from shipment bound for Cambodia.**

By Joseph Akwiri. *Reuters* [Online]. 22 December 2016. Available from:

<http://uk.reuters.com/article/uk-kenya-ivory-idUKKBN14B0IO> Kenyan officials seized nearly two tonnes of smuggled ivory after recalling a shipment en route to Cambodia following intelligence that it contained illegal cargo, a tax official said.

## MARINE TECHNOLOGY

**Wärtsilä enters dry waste treatment business for cruise ships.** *Wärtsilä Corporation*

[Online]. 1 December 2016. Available from: <http://www.goo.gl/ysZOpC> Wärtsilä has recently developed a complete offering for handling dry waste in cruise ships.

**Marine Safety Center issues Ballast Water Management System (BWMS) type-approval certificate to Optimarin AS.** By Katie Braynard. *US Coast Guard Maritime Commons*

[Online]. 2 December 2016. Available from:

<http://mariners.coastguard.dodlive.mil/2016/12/02/marine-safety-center-issues-ballast-water-management-system-bwms-type-approval-certificate-optimarin-as/>

Today, the Coast Guard Marine Safety Center issued the first U.S. Coast Guard Ballast Water Management System Type Approval Certificate to Norwegian manufacturer Optimarin AS after a detailed review of the type approval application determined the system met the requirements of 46 CFR 162.060.

**Kenya wins bid to host Africa's tech centres for maritime firms.** By Weitere Mwita.

*The Star (Kenya)* [Online]. 9 December 2016. Available from: [http://www.the-](http://www.the-star.co.ke/news/2016/12/09/kenya-wins-bid-to-host-africas-tech-centres-for-maritime-firms_c1469937)

[star.co.ke/news/2016/12/09/kenya-wins-bid-to-host-africas-tech-centres-for-maritime-firms\\_c1469937](http://www.the-star.co.ke/news/2016/12/09/kenya-wins-bid-to-host-africas-tech-centres-for-maritime-firms_c1469937)

Kenya has been chosen to host a multi-billion Maritime Technology Cooperation Centre for Africa, beating South Africa, Ghana and Namibia which had also shown interest.

**Violeta Bulc: Digitalization could be driving force in shipping. By Mette Mandrup.**

*ShippingWatch* [Online]. 9 December 2016. Available from:

<http://shippingwatch.com/secure/carriers/article9213918.ece> Digitalization is one of the main driving forces which will push the shipping industry out of its current crisis, says Violeta Bulc, EU Transport commissioner.

**UCalgary and UManitoba partner to understand how marine microbes help clean up Arctic oil spills. By Drew Scherban. University of Calgary (Canada) [Online].**

8 December 2016. Available from: <https://www.ucalgary.ca/utoday/issue/2016-12-08/ucalgary-and-umanitoba-partner-understand-how-marine-microbes-help-clean-arctic-oil>

A collaborative research project that partners the University of Calgary and the University of Manitoba has been awarded \$10.7 million as part of the Genome Canada 2015 Large-Scale Applied Research Project Competition (LSARP).

**Ship-borne Internet of things will benefit marine equipment manufacturers and authorities. Danish Maritime Authority [Online]. 8 December 2016. Available from:**

<http://www.dma.dk/Presse/Nyheder/Sider/Ship-borne-Internet-of-things-will-benefit-marine-equipment-manufacturers-and-authorities.aspx> The data flow will be transmitted continuously to shore-based organisations allowing the authorities, shipowners and marine equipment manufacturers to use the information in real-time.

**The Situational Awareness Challenge: Shipboard technology should be designed around human factors. By Gary Gomez. Maritime Executive [Online]. 9 December 2016.**

Available from: <http://maritime-executive.com/blog/the-situational-awareness-challenge>

Today's maritime decision-maker must take action based on an increasingly complex set of situational awareness factors including the huge operating space, common sea lanes but not established routes as in air traffic control, unavoidable and severe weather, vessel security, and intermodal issues like port status, rail and truck transport.

**Is 2017 the breakthrough year for unmanned vessels? By Gary Peters.**

*Ship-Technology.Com* [Online]. 12 December 2016. Available from: <http://www.ship-technology.com/features/featureis-2017-the-breakthrough-year-for-unmanned-vessels-5692723/>

Worldwide, the number and scope of projects dedicated to unmanned vessels is increasing, including the world's first designated test area for autonomous ships and European Union-funded research.

**New US Ballast Water Research Lab Opened. By Daniel Daglis. MarineLink.Com [Online].**

14 December 2016. Available from: <http://www.marinelink.com/news/research-ballast-opened419489> According to Rachel Jacobs, a chemical engineer in the Wastewater Management Branch at Naval Surface Warfare Center, Carderock Division, the results of introducing non-native species into a new environment can be disastrous for the ecosystem, for industry, and for the marine life which already inhabit that environment.

**Tanker's ice-class sets challenges for BWMS installation.**

*Ballast Water Treatment Technology* [Online]. 15 December 2016. Available from:

[http://www.ballastwatermanagement.co.uk/news/view\\_tankers-iceclass-sets-challenges-for-bwms-installation\\_45760.htm](http://www.ballastwatermanagement.co.uk/news/view_tankers-iceclass-sets-challenges-for-bwms-installation_45760.htm)

For tankers operating in cold regions, the complexities of installing a ballast water management system (BWMS) are magnified by the need for it to operate in freezing cold and to satisfy IMO's Polar Code.

**The solution for sustainable slop disposal is here – shipping needs to grasp it.**  
**By Vincent Favier, CEO, Ecoslops.** *Green4Sea* [Online]. 21 December 2016. Available from: <http://www.green4sea.com/solution-sustainable-slop-disposal-shipping-needs-grasp/>  
Vincent Favier explains the benefits of a unique technology to sustainably regenerate slops into valuable new fuels and light bitumen, which can be sold back into the market, creating a sustainable cycle.

## MARITIME SAFETY

**Engine Room Fires Are Never Merry.** **By Captain Richard Madden.** *Maritime Executive* [Online]. 12 June 2016. Available from: <http://maritime-executive.com/blog/engine-room-fires-are-never-merry> Engine room fires account for up to 50 percent of all fires on vessels with 70 percent of those engine room fires being caused by leaks from pressurized systems.

**Joint Statement on Whaling and Safety at Sea.** *Government of New Zealand* [Online]. 20 December 2016. Available from: <http://foreignaffairs.co.nz/2016/12/20/collected-department-releases-joint-statement-on-whaling-and-safety-at-sea/> The Governments of Australia, the Netherlands, New Zealand, and the United States jointly condemn any actions at sea that may cause injury, loss of human life or damage to property or the marine environment during Southern Ocean whaling operations in 2016-2017.

**Maritime agency partners with Meteorological agency.** **By David Adekunle.** *Voice of Nigeria (VON)* [Online]. 18 December 2016. Available from: <http://von.gov.ng/maritime-agency-partners-meteorological-agency/> The Nigerian Maritime Administration and Safety Agency (NIMASA) is set to partner with the Nigerian Meteorological Agency (NIMET) on meteorological data with a view to ensuring safety of lives and sea.

## MARITIME SECURITY

**Maritime crimes: Navy to deploy 13 vessels for exercise eagle eye.** **By Ronald Mutum.** *Daily Trust (Nigeria)* [Online]. 1 December 2016. Available from: <http://www.dailytrust.com.ng/news/general/maritime-crimes-navy-to-deploy-13-vessels-for-exercise-eagle-eye/174037.html> The Nigerian Navy Chief of Policy and Plans (COPP), Rear Admiral Jacob Ajani who made this known during a press conference in Abuja, said there would also be participation from other services and security agencies.

**Tokyo should help Asean boost maritime security capabilities in South China Sea:** **Yomiuri Shimbun.** *Straits Times* [Online]. 1 December 2016. Available from: <http://www.straitstimes.com/asia/east-asia/tokyo-should-help-asean-boost-maritime-security-capabilities-in-south-china-sea> To help establish the rule of law in the South China Sea to stabilise the area, it is vital for Asean members to boost their maritime security capabilities.

**British maritime security firm anticipates business boost with Trump presidency.** *Belfast Telegraph* [Online]. 4 December 2016. Available from: <http://www.goo.gl/2VWyDT> Donald Trump's plans to ramp up military spending are expected to provide a boost for British maritime security firm MAST, its chief executive has said.

**PCG, Navy get new vessels to boost maritime security. By Argyll Cyrus B Geducos and Francis T Wakefield.** *Manila Bulletin* [Online]. 9 December 2016. Available from:

<http://news.mb.com.ph/2016/12/09/pcg-navy-get-new-vessels-to-boost-maritime-security/>

The Philippines is on its way to strengthen its maritime security with the arrival of a brand-new multi-role response vessel of the Philippine Coast Guard (PCG) yesterday and the arrival of Philippine Navy's Weather High Endurance Cutter BRP Andres Bonifacio at Pier 13, South Harbor in Manila today.

**Sabah maritime kidnapping, looting ends in bloody shootout; Three dead, two missing. By Kristy Inus.** *New Straits Times Online (Malaysia)* [Online]. 9 December 2016.

Available from: <http://www.nst.com.my/news/2016/12/195714/sabah-maritime-kidnapping-looting-ends-bloody-shootout-three-dead-two-missing>

The most beautiful waters in the world were the unlikely setting for an orgy of violence, and a deadly confrontation between bloodthirsty, modern-day pirates and fearless law enforcement personnel here last night.

**Venezuela in Crisis: Impact on Maritime Crime.** *Dryad Maritime* [Online]. 9 December 2016.

Available from: <http://www.dryadmaritime.com/venezuela-crisis-impact-maritime-crime/>

With Venezuela in the midst of economic and political crisis, we examine the impact on maritime crime in the region.

**Leading experts at BIMCO seminar say maritime crime increasing. By Gemma Wilkie.**

*Baltic and International Maritime Council (BIMCO)* [Online]. 14 December 2016. Available from:

<https://www.bimco.org/News/Press-releases/20161214-BIMCO-seminar>

Industry security experts have concluded that maritime crime will not be stopped any time soon – and that cyber incidents would continue to expand in frequency and severity.

**EU, Indonesia seeks greater cooperation on maritime security. By Tama Salim.**

*Jakarta Post* [Online]. 15 December 2016. Available from:

<http://www.thejakartapost.com/news/2016/12/15/eu-indonesia-seeks-greater-cooperation-on-maritime-security.html>

The European Union (EU) has sought to expand security cooperation with Indonesia under the recently reactivated EU-Indonesian parliamentary friendship group, which aims to bridge understanding between the two partners.

**The evolving role of maritime straits.** *Hellenic Shipping News* [Online]. 19 December 2016.

Available from: <http://www.hellenicshippingnews.com/the-evolving-role-of-maritime-straits/>

Maritime freight is one of the key elements of today's economy.

**ReCAAP: Crew Abductors Targeting Bigger Ships off Southeast Asia.**

*World Maritime News* [Online]. 16 December 2016. Available from:

<http://worldmaritimeneeds.com/archives/208822/recaap-crew-abductors-targeting-bigger-ships-off-southeast-asia/>

The continued occurrence of incidents involving the abduction of crews from ships while underway in the Sulu-Celebes Sea and off eastern Sabah is a cause for great concern, according to the latest report by Asian piracy watchdog ReCAAP ISC.

**Armed French sea marshals given go-ahead to patrol *Barfleur* ferry. By Jim Durkin.**

*Bournemouth Daily Echo (UK)* [Online]. 20 December 2016. Available from:

[http://www.bournemouthecho.co.uk/news/14976567.Armed\\_French\\_sea\\_marshall\\_give\\_go\\_ahead\\_to\\_patrol\\_Barfleur\\_ferry/](http://www.bournemouthecho.co.uk/news/14976567.Armed_French_sea_marshall_give_go_ahead_to_patrol_Barfleur_ferry/)

Armed French sea marshals have been given the green light to patrol on Poole's *Barfleur* ferry within British territorial waters, as part of an ongoing mission to deter terror attacks.

## MARITIME TRAINING

### **PetroCaribe Provides \$402 Million for Engineers Training Centre at CMI.**

**By Chris Patterson.** *Jamaica Information Service* [Online]. 2 December 2016. Available from: <http://jis.gov.jm/petrocaribe-provides-402-million-engineers-training-centre-cmi/>

The Caribbean Maritime Institute (CMI) has received \$402 million in grant funding from the PetroCaribe Development Fund for the establishment of a Festo Authorised and Certified Training (FACT) Centre for specialised engineers.

### **Bahamas issues requirements for Able Seafarer certification.** *Safety 4 Sea* [Online].

5 December 2016. Available from: <http://www.safety4sea.com/bahamas-issues-requirements-for-able-seafarer-certification/> The Bahamas Maritime Authority has issued technical Alert to draw all parties' attention to the requirements needed in order to apply for a Bahamas Certificate of Proficiency (CoP) as an Able Seafarer, in accordance with The International Convention on Standards of Training, Certification and Watch-keeping for Seafarers, 1978, as amended (STCW).

### **Mercmarine training for young women to benefit from high-paying maritime jobs.**

**By Sanath Nanayakkare.** *The Island (Sri Lanka)* [Online]. 5 December 2016. Available from: [http://www.island.lk/index.php?page\\_cat=article-details&page=article-details&code\\_title=156698](http://www.island.lk/index.php?page_cat=article-details&page=article-details&code_title=156698)

Keeping up with the current industry trends, Mercmarine Training, one of Sri Lanka's foremost maritime training institutes-a member of the Mercmarine Group - has now come forward to train young Sri Lankan women to secure high-paying job opportunities on ocean going foreign vessels or related shore jobs.

### **National Maritime Polytechnic opens special courses.** *Philippine Information Agency* [Online]. 7 December 2016. Available from:

<http://news.pia.gov.ph/article/view/231481006910/national-maritime-polytechnic-opens-special-courses> The National Maritime Polytechnic (NMP) recently announced the opening of additional training course programs, further boosting its status as one of the premier maritime training centers in the country.

### **New marine research lab at NTU to develop eco-friendly technologies.** **By Carolyn Khew.**

*Straits Times* [Online]. 7 December 2016. Available from:

<http://www.straitstimes.com/singapore/environment/new-marine-research-lab-at-ntu-to-develop-eco-friendly-technologies> A new marine research lab, officially opened on Wednesday (Dec 7), will look at ways to help shipping companies go green more cost effectively.

### **The tension is so thick you could cut it with a knife.** *Maersk* [Online]. 9 December 2016.

Available from: <http://www.maerskline.com/es-mx/countries/int/news/news-articles/2016/12/the-tension-is-so-thick-you-could-cut-it-with-a-knife> Maersk Line is taking the fight against corruption into the classroom in the form of a new course at the World Maritime University in Malmö, Sweden.

### **Caribbean Maritime Institute to be expanded.** *Jamaica Observer* [Online]. 8 December 2016.


Available from: <http://www.jamaicaobserver.com/news/Caribbean-Maritime-Institute-to-be-expanded> Prime Minister Andrew Holness says the Government will be making an investment in the Caribbean Maritime Institute (CMI), to make it easier to accommodate the growing number of applicants vying for spaces.

**Marorka, SMDERI open new training centre in Shanghai. By Lee Hong Liang.**

*Seatrade Maritime News* [Online]. 14 December 2016. Available from: <http://www.seatrade-maritime.com/news/asia/marorka-smderi-open-new-training-centre-in-shanghai.html>

Reykjavik-based Marorka and Shanghai Marine Diesel Engine Research Institute (SMDERI) have opened a Energy Management Training Centre in Shanghai, China to promote shipping efficiency and emissions reduction.

**1000s of jobs could be created through new SMarT+ scheme. UK Chamber of Shipping** [Online]. 15 December 2016. Available from:

<https://www.ukchamberofshipping.com/latest/1000s-jobs-could-be-created-through-new-smart-scheme/> The UK shipping industry will create thousands of jobs for young people if Government increases funding for seafarer training, the UK Chamber of Shipping has said. [SMarT Plus](#) 

## MIGRANTS

**Climate change will stir 'unimaginable' refugee crisis, says military.**

**By Damian Carrington.** *The Guardian* [Online]. 1 December 2016. Available from:

<https://www.theguardian.com/environment/2016/dec/01/climate-change-trigger-unimaginable-refugee-crisis-senior-military> Climate change is set to cause a refugee crisis of "unimaginable scale", according to senior military figures, who warn that global warming is the greatest security threat of the 21st century and that mass migration will become the "new normal"

**10 things you need to know about the Mediterranean crisis. Médecins Sans Frontières**

(MSF) [Online]. 2 December 2016. Available from: <http://www.msf.org/en/article/10-things-you-need-know-about-mediterranean-crisis> In 2016, Médecins Sans Frontières (MSF) had teams on board three boats, the *Dignity I*, *Bourbon Argos* and the *MV Aquarius* (run in partnership with SOS MEDITERRANEE).

**Coast Guard repatriates 38 Cuban migrants. US Coast Guard Newsroom** [Online].

1 December 2016. Available from: <http://www.uscgnews.com/go/doc/4007/2902626/>

The Coast Guard Cutter Charles David Jr. repatriated 38 Cuban migrants Thursday to Bahia de Cabañas, Cuba.

**Special Report: 500 migrants drowned at sea. No one investigated. By Stephen Grey and Amina Ismail.** *Reuters* [Online]. 6 December 2016. Available from:

<http://www.reuters.com/article/us-europe-migrants-egypt-ship-specialrep-idUSKBN13V1DE>


At around 2 a.m. on Saturday, April 9, a large blue fishing boat carrying hundreds of African migrants and their children capsized just off the coast of Egypt.

**Smuggler or survivor? Migrants forced to help, face arrest. By Patricia Thomas.**

*Associated Press (AP)* [Online]. 12 December 2016. Available from:

<https://apnews.com/89bcdaa9bf3b467b87385cdc8be0a09d/Migrants-arrested-in-Italy-for-smuggling-may-be-victims> All migrant Marc Samie has of his fiancé is a picture in his mind.

**Migrant disaster: The wrecked boat where 700 died off Libya. By James Reynolds.**

*BBC News* [Online]. 13 December 2016. Available from: <http://www.bbc.co.uk/news/world-europe-38309394> 

The BBC's James Reynolds has visited the fishing boat that sank off Libya with the loss of 700 migrants in April 2015.

**Every migrant is a human being with human rights,' says UN chief on International Day.**

*UN News Centre* [Online]. 18 December 2016. Available from:

<http://www.un.org/apps/news/story.asp?NewsID=55828> Despite appearances and media spin, "migration does not have to be chaotic or seem like an invasion," and as yet another turbulent year for millions of people on the move comes to an end, the United Nations is marking International Migrants Day with a worldwide call for more cooperation and a resolute rejection of intolerance and policies driven by xenophobic rhetoric.

**Migrant Deaths Worldwide Top 7,100 - Over Half in the Mediterranean.**

*International Organization for Migration (IOM)* [Online]. 16 December 2016. Available from:

<http://www.iom.int/news/migrant-deaths-worldwide-top-7100-over-half-mediterranean>

IOM is reporting today (16/12) 7,189 migrants and refugees have died or remain missing on world migratory routes.

**EU, IOM Launch Migrant Protection, Reintegration Initiative on Central Mediterranean Migration Routes in Africa.** *International Organization for Migration (IOM)* [Online].

16 December 2016. Available from: <http://www.iom.int/news/eu-iom-launch-migrant-protection-reintegration-initiative-central-mediterranean-migration>

On Thursday, 15 December, the European Union, through the EU Trust Fund for Africa (EUTF), the governments of Germany and Italy, and IOM, launched a new initiative to support African countries in responding to the urgent protection needs and tragic loss of life of migrants along the Central Mediterranean migration routes and in strengthening migration governance.

**EUTF for Africa and IOM initiative for Protection and Reintegration of returnees along the Central Mediterranean migration routes.** *European Commission* [Online]. 15 December 2016.

Available from: [http://europa.eu/rapid/press-release\\_MEMO-16-4422\\_en.htm](http://europa.eu/rapid/press-release_MEMO-16-4422_en.htm)

The European Union, through the Emergency Trust Fund for Africa (EUTF), and with contributions from Germany (EUR 48 million) and Italy (EUR 22 million), has developed a joint initiative with the International Organization for Migration (IOM) to support the efforts of partner countries in Africa to strengthen migration management and to respond to the urgent protection needs and unacceptable loss of life of migrants.

**Mediterranean Migrant Arrivals Reach 358,156; Deaths at Sea: 4,901.**

*International Organization for Migration (IOM)* [Online]. 20 December 2016. Available from:

<https://www.iom.int/news/mediterranean-migrant-arrivals-reach-358156-deaths-sea-4901>

IOM reports that 358,156 migrants and refugees entered Europe by sea in 2016 through 19 December, arriving mostly in Greece and Italy.

**Mediterranean Migrant Arrivals Reach 358,403; Official Deaths at Sea: 4,913.**

*International Organization for Migration (IOM)* [Online]. 23 December 2016. Available from:

<http://www.iom.int/news/mediterranean-migrant-arrivals-reach-358403-official-deaths-sea-4913>

IOM reports that 358,403 migrants and refugees entered Europe by sea in 2016 through 21 December, arriving mostly in Greece and Italy.

**Mediterranean Sea: 100 people reported dead yesterday, bringing year total to 5,000.**

*United Nations High Commissioner for Refugees (UNHCR)* [Online]. 23 December 2016.

Available from: <http://www.unhcr.org/uk/news/briefing/2016/12/585ce804105/mediterranean-sea-100-people-reported-dead-yesterday-bringing-year-total.html>

This is a summary of what was said by UNHCR spokesperson William Spindler – to whom quoted text may be attributed – at today's press briefing at the Palais des Nations in Geneva.

## NAVIGATION AND COMMUNICATIONS

### **Charting new courses: student mariners prepare to navigate a warmer Arctic.**

**By Zoë Sobel.** *KTTO Public Media (Alaska)* [Online]. 5 December 2016. Available from: <http://www.ktoo.org/2016/12/05/charting-new-courses-student-mariners-prepare-to-navigate-a-warmer-arctic/> In a windowless room at Maine Maritime Academy, Glenn Burleigh is standing calmly at the controls of a massive tanker. He is stuck, encased in a sea of ice, waiting for an icebreaker to break him free.

### **Growing Arctic shipping faces major hazards.** *Tanker Shipping & Trade* [Online].

13 December 2016. Available from: [http://www.tankershipping.com/news/view.growing-arctic-shipping-faces-major-hazards\\_45766.htm](http://www.tankershipping.com/news/view.growing-arctic-shipping-faces-major-hazards_45766.htm) A flag state that was instrumental in creating the Polar Code has concerns about shipping growth amid safety and environmental risks.

### **Dubai Maritime City Authority discusses mechanisms of new resolution on Aids to Navigation (AtoN) in Dubai.** *Government of Dubai* [Online]. 19 December 2016.

Available from: <http://www.goo.gl/ZhqUbX> The Dubai Maritime City Authority (DMCA), the government authority charged with regulating, coordinating and supervising all aspects of Dubai's maritime sector, recently held a meeting for all stakeholders and concerned organizations in Aids to Navigation (AtoN) in Dubai.

## PORT STATE CONTROL

### **Use of electronic certificates on board Singapore ships.** *Safety 4 Sea* [Online].

1 December 2016. Available from: <http://www.safety4sea.com/use-of-electronic-certificates-on-board-singapore-ships/> With the aim to reduce the administrative burden on Administrations, Port State control officials, ships' crew and other stakeholders caused by, amongst other reasons, the reliance on traditional paper certificates, the Facilitation Committee (FAL) of the International Maritime Organization (IMO), at its fortieth session approved the Guidelines for the use of electronic certificates (FAL.5/Circ.39/Rev.2) ...

### **Foreign flagged ships under detention in the UK during November 2016.**

*UK Maritime & Coastguard Agency* [Online]. 2 December 2016. Available from: <https://www.gov.uk/government/news/foreign-flagged-ships-under-detention-in-the-uk-during-november-2016> The Maritime and Coastguard Agency (MCA) announced today that seven foreign flagged ships were under detention in UK ports during November 2016 after failing Port State Control (PSC) inspection.

## PORTS AND HARBOURS

### **An App a day.** **By Felicity Landon.** *Port Strategy* [Online]. 5 December 2016. Available from: <http://www.portstrategy.com/news101/port-operations/planning-and-design/apps-ahead>

The ports sector traditionally isn't keen on being 'disrupted', and the relatively slow development of mobile apps seems to reflect that conservatism.

### **Med ports cooperation platform launched in Marseilles.** *ANSAméd* [Online].


6 December 2016. Available from: <http://www.goo.gl/CE2ET7> The Mediterraneo Intermed alliance of the Genoa, Marseilles and Barcelona ports has launched a virtual platform for debate to strengthen cooperation between Med ports.





**Port of Rotterdam aims to take the lead in the energy transition.** *Port of Rotterdam* [Online]. 5 December 2016. Available from: <https://www.portofrotterdam.com/en/news-and-press-releases/port-of-rotterdam-aims-to-take-the-lead-in-the-energy-transition> The Port of Rotterdam Authority wants to develop the port into the place where the energy transition takes shape.

**Harmful air particles way above the norm in Grand Harbour traffic.** *Times of Malta* [Online]. 9 December 2016. Available from: <http://www.timesofmalta.com/articles/view/20161209/local/harmful-air-particles-way-above-the-norm-in-grand-harbour-traffic.633342> Ultra fine particle concentration while ships were transiting through the Grand Harbour were 80 times higher than clean air levels, an exercise carried out by Birdlife Malta and other entities yesterday has shown.

**Campaigners take to Nairn beach over bid to halt transfer of crude oil between ships in firth. By David Ross.** *Herald Scotland* [Online]. 12 December 2016. Available from: [http://www.heraldscotland.com/news/14959865.Campaigners\\_take\\_to\\_the\\_beach\\_to\\_fight\\_plans\\_to\\_transfer\\_crude\\_oil\\_between\\_ships\\_in\\_firth/](http://www.heraldscotland.com/news/14959865.Campaigners_take_to_the_beach_to_fight_plans_to_transfer_crude_oil_between_ships_in_firth/) Several hundred demonstrators have taken part in a beach protest against plans by one of Scotland's busiest ports to transfer millions of tonnes of crude oil between ships.

**Suicide bomb kills at least 29 at Somalia's main port: police. By Abdi Sheikh and Feisal Omar.** *Reuters* [Online]. 11 December 2016. Available from: <http://www.reuters.com/article/us-somalia-blast-idUSKBN14004Y>  A suicide truck bomb hit the entrance of Somalia's biggest port on Sunday, killing at least 29 people, police said, an attack claimed by Islamist al Shabaab militants.

**Ports Policy Review of Chile.** *International Transport Forum* [Online]. 9 December 2016. Available from: <http://www.itf-oecd.org/ports-policy-review-chile> This report assesses ports policies in Chile. Highly dependent on maritime trade, the quality of Chile's ports has a direct impact on the country's economy. [Report](#) 

**Ports Regulation – a stepping stone for genuine motorways of the sea.** *European Community Shipowners' Associations (ECSA)* [Online]. 14 December 2016. Available from: <http://www.ecsa.eu/9-latest-news/291-ports-regulation-a-stepping-stone-for-genuine-motorways-of-the-sea> The European Parliament adopted today a report on the Regulation establishing a framework for the organisation of port services and financial transparency of ports presented by the rapporteur MEP Knut Fleckenstein. [Short Sea Shipping](#) 

**PH ports agency to revive shelved efforts to ratify FAL Convention.** *Port Calls Asia* [Online]. 12 December 2016. Available from: <http://www.portcalls.com/ph-ports-agency-revive-shelved-efforts-ratify-fal-convention/> The Philippines, through the Philippine Ports Authority (PPA), is resuscitating plans to adopt the Facilitation of the International Maritime Traffic Convention of 1965, popularly known as the FAL Convention.

**EU ports: MEPs back rules on clear user fees and public funding.** *European Parliament* [Online]. 15 December 2016. Available from: <http://www.europarl.europa.eu/news/en/news-room/20161208IPR55161/eu-ports-meps-back-rules-on-clear-user-fees-and-public-funding> The fees and funding that EU ports get from shipping lines and governments should become clearer thanks to new rules backed by MEPs on Wednesday.

**ESPO welcomes Parliament's final approval of the port regulation.** *European Sea Ports Organization (ESPO)* [Online]. 14 December 2016. Available from:

<http://www.espo.be/news/espo-welcomes-parliaments-final-approval-of-the-po>

Today, the European Parliament has voted on the report of Knut Fleckenstein (photo) on the port Regulation and approved with a large majority (546 votes in favour, 140 against, 22 abstentions) the agreement reached in that respect with the Commission and Council last summer.

**Cabinet approves Major Port Authorities Bill, 2016.** *Times of India* [Online].

14 December 2016. Available from: <http://timesofindia.indiatimes.com/business/india-business/cabinet-approves-major-port-authorities-bill-2016/articleshow/55985408.cms>

The government on Wednesday approved the Major Port Authorities Bill, 2016, a move aimed at bringing greater efficiency and professionalism in governance of ports through full autonomy in decision making.

**Port Security: US Coast Guards visit NPA ahead of audit implementation.**

**By Gowin Ortse.** *Vanguard (Nigeria)* [Online]. 15 December 2016. Available from:

<http://www.vanguardngr.com/2016/12/port-security-us-coast-guards-visit-npa-ahead-audit-implementation/>

Officials of the United States Coast guard are currently in Nigeria to carry out an assessment of the implementation of the International Ship and Port Facility Security, ISPS Code, an instrument of the International Maritime Organisation, IMO.

**Coast Guard, Thailand partner to improve port security.** *US Coast Guard Newsroom*

[Online]. 15 December 2016. Available from: <http://www.uscgnews.com/go/doc/4007/2908762/>

This engagement involved a capacity building workshop with the Thailand's Marine Department Harbour Masters and senior leadership on the International Ship and Port Facility Security Code Implementation.

**Port Authority wants a more ambitious CO2 reduction plan from IMO.** *Port of Rotterdam*

[Online]. 16 December 2016. Available from: <https://www.portofrotterdam.com/en/news-and-press-releases/port-authority-wants-a-more-ambitious-co2-reduction-plan-from-imo>

The Port of Rotterdam Authority is calling on the European Parliament to put pressure on the International Maritime Organization (IMO) to produce an ambitious worldwide CO2 reduction plan for sea shipping. Given the recent plans, measures could only be expected by 2023 at the earliest.

**North European Ports to Make Cruise Industry Greener.** *World Maritime News* [Online].

21 December 2016. Available from: <http://worldmaritimeneeds.com/archives/209106/north-european-ports-to-make-cruise-industry-greener/>

Ten North European ports have joined forced to find solutions to make the growing cruise industry greener through a three-year project.

**NIMASA shuts three facilities over non compliance to ISPS Code.** **By Abayomi Ojo and Andrew utulu.** *Independent (Nigeria)* [Online]. 22 December 2016. Available from:

<http://independentnig.com/nimasa-shuts-three-facilities-over-non-compliance-to-isps-code/>

Pursuant to its mandate as the Designated Authority (DA) for the implementation of the International Ship and Port Facility Security (ISPS) Code in Nigeria, the Nigerian Maritime Administration and Safety Agency (NIMASA) has shut down three jetties and port facilities for non-compliance with the provisions of the code.

**Port data project gathers steam as 13 new ports sign up.** *United Nations Conference on Trade and Development (UNCTAD)* [Online]. 21 December 2016. Available from:

<http://unctad.org/en/pages/newsdetails.aspx?OriginalVersionID=1412> Better data analysis leads to better performance.

## RECYCLING OF SHIPS

### **Gadani shipbreaking yard: PM urged to lift ban as work at a standstill for one month.**

*Express Tribune (Pakistan)* [Online]. 2 December 2017. Available from:

<http://tribune.com.pk/story/1250845/gadani-shipbreaking-yard-pm-urged-lift-ban-work-standstill-one-month/> Frustrated with the stance of Balochistan government, the Pakistan Ship Breakers Association (PSBA) has urged Prime Minister Nawaz Sharif to directly intervene and allow its members to work freely as activities have been at a standstill for the past one month since a deadly fire took lives of at least 26 workers at Gadani.

### **35 scrapping yards want approval from the EU. By Louise Vogdrup-Schmidt.**

*ShippingWatch* [Online]. 12 December 2016. Available from:

<http://shippingwatch.com/secure/suppliers/article9220750.ece> A total of 35 yards within and beyond the EU have applied for the hotly-discussed status of an approved yard from the EU Commission.

### **Hazardous waste from ship breaking to reach 122,000mt in 10 years. *Daily Times***

*(Pakistan)* [Online]. 16 December 2016. Available from: <http://dailytimes.com.pk/islamabad/15-Dec-16/hazardous-waste-from-ship-breaking-to-reach-122000mt-in-10-years> Experts at a round-table meeting organised by the Ministry of Climate Change (MOCC) warned that hazardous waste from ship breaking yards would increase to 122,000 tonnes in 10 years.

### **2017: A Critical Year for Ship Recycling. By Nikos Mikelis, non-executive director, GMS.**

*Ship & Bunker* [Online]. 19 December 2016. Available from:

<http://shipandbunker.com/news/features/industry-insight/461552-2017-a-critical-year-for-ship-recycling> 2017 is set to be a year of significant decisions that could shape the future of the global ship recycling industry.

### **No more dead workers! *NGO Shipbreaking Platform*** [Online]. 20 December 2016.

Available from: <http://www.shipbreakingplatform.org/platform-news-no-more-dead-workers/>

The NGO Shipbreaking Platform calls on the ship owner, Berge Bulk, and the Dutch authorities to ensure the responsible recycling of the 30 year old vessel.

### **Commission adopts first European List of ship recycling facilities safe for workers and environmentally sound. *European Commission*** [Online]. 20 December 2016. Available from:

[http://ec.europa.eu/environment/pdf/20\\_12\\_2016\\_news\\_en.pdf](http://ec.europa.eu/environment/pdf/20_12_2016_news_en.pdf) With the adoption of the first version of the 'European List of ship recycling facilities' the European Commission has taken an important step to help ensure that ships are recycled in facilities that are safe for workers and environmentally sound.

### **Fire in Gadani ship-breaking yard extinguished. By Talha Hashmi. *GEO TV (Pakistan)***

[Online]. 22 December 2016. Available from: <https://www.geo.tv/latest/124605-Fire-breaks-out-in-Gadani-ship-breaking-yard> A fire which erupted in the Gadani ship-breaking yard plot earlier today has been put out.

## REGULATIONS

### **World Fuel Services 2020 Vision: Preparing for the New Global Sulphur Cap.**

*Ship & Bunker* [Online]. 1 December 2016. Available from:

<http://shipandbunker.com/news/world/142262-world-fuel-services-2020-vision-preparing-for-the-new-global-sulphur-cap> From 1 January 2020, a new 0.50% global sulphur cap on marine fuels will come into effect.

### **An environmental turning point. By Claudia Behrend.** *International Transport Journal (ITJ)*

[Online]. 5 December 2016. Available from:

<http://www.transportjournal.com/en/home/news/artikeldetail/an-environmental-turning-point.html>

The cat is out of the bag: the IMO's marine environment protection committee in London has decided that from 2020 onwards, more stringent requirements for the sulphur content of fuels will enter into force.

### **Shippers rack up 12,000 VGM transactions on SOLASVGM.** *Marine Transport International*

[Online]. 6 December 2016. Available from: <http://www.marinetransportint.com/shippers-rack-up-12000-vgms/> SOLASVGM, the software platform that aims to help shippers reduce the costs and processes associated with verified gross mass (VGM) requirements, has completed 12,000 transactions, five months after going live.

### **Kongsberg develops Monitoring, Reporting and Verification application to meet new European environmental regulations.** *Kongsberg Maritime* [Online]. 13 December 2016.

Available from: <http://www.goo.gl/kxwDUh> Kongsberg Maritime has developed a new Carbon Dioxide (CO<sub>2</sub>) Monitoring, Reporting and Verification - MRV application for its K-Fleet suite of Marine Fleet Management Software.

### **Communication key as industry prepares for 2020 global 0.50% sulphur cap.**

*International Bunker Industry Association (IBIA)* [Online]. 15 December 2016. Available from:

<http://ibia.net/communication-key-as-industry-prepares-for-2020-global-0-50-sulphur-cap/>

The goal has been clearly defined.

### **Preparing for the global sulphur cap.** *Marine Propulsion & Auxiliary Machinery* [Online].

21 December 2016. Available from: [http://www.mpropulsion.com/news/view.preparing-for-the-global-sulphur-cap\\_45789.htm](http://www.mpropulsion.com/news/view.preparing-for-the-global-sulphur-cap_45789.htm) On 1 January 2020, a new global cap on marine fuels emissions of sulphur will come into force, which will have a radical effect on the bunkers industry.

### **Shippers oppose draft container weighing regulation. By Patrick Paintsil.**

*Business and Financial Times (Ghana)* [Online]. 22 December 2016. Available from:

<http://thebftonline.com/business/maritime/22385/shippers-oppose-draft-container-weighing-regulation.html>

Importers and exporters in the country have kicked against a draft regulation by the Ghana Maritime Authority (GMA), which will introduce new measures for container weighing in the country, saying it will burden them with unnecessary costs.

### **Polar Code Builds on SOLAS, MARPOL and STCW.** *Maritime Executive* [Online].

21 December 2016. Available from: <http://www.maritime-executive.com/article/polar-code-builds-on-solas-marpol-and-stcw> The Polar Code enters into force on January 1, 2017, and the U.S. Coast Guard warns it is more complex than other Codes because it builds upon three conventions – SOLAS, several annexes of MARPOL and STCW.

**Mandatory container weight verification - a matter for BIMCO bills of lading?**

**By Anna Wollin.** *Baltic and International Maritime Council (BIMCO)* [Online].

20 December 2016. Available from: <https://www.bimco.org/news/contracts-and-clauses/20161220-mandatory-container-weight-verification> Carriers will be in breach of SOLAS if they load a container whose weight has not been verified.

**As Polar Code takes effect, a mixture of confidence and concern. By Kevin McGwin.**

*Arctic Journal* [Online]. 29 December 2016. Available from:

<http://arcticjournal.com/business/2798/polar-code-takes-effect-mixture-confidence-and-concern>

The first thing that almost anyone familiar with the Polar Code, a set of shipping regulations due to come into force on January 1, will tell you is that it is flawed.

## SALVAGE

**Stricken Greek vessel crew safe in Cape Town, bulk carrier salvage underway.**

*South African Maritime Safety Authority (SAMSA)* [Online]. 6 December 2016. Available from:

<https://blog.samsa.org.za/2016/12/06/stricken-greek-vessel-crew-safe-in-cape-town-bulk-carrier-salvage-underway/>

All 19 crew members of a Greek bulk carrier, the *ANTAIOS*, that suffered grief on the Atlantic Ocean at the weekend have been safely evacuated and are currently in Cape Town, the South African Maritime Safety Authority (SAMSA) confirmed on Tuesday.

## SEAFARERS

**Indian Government approves new welfare measures for seafarers.** *International Seafarers'*

*Welfare and Assistance Network (ISWAN)* [Online]. 5 December 2016. Available from:

<http://seafarerswelfare.org/news-and-media/latest-news/indian-government-approves-new-welfare-measures-for-seafarers>

ISWAN / MPHRC applauds Indian Government move to ensure that seafarers held in captivity of pirates continue to receive wages until they return home.

**Returning to sea after captivity.** *International Seafarers' Welfare and Assistance Network*

*(ISWAN)* [Online]. 5 December 2016. Available from: <http://seafarerswelfare.org/news-and-media/latest-news/returning-to-sea-after-captivity>

Jakir Hossein, one of seven Bangladesh seafarers captured on the ship *Albedo*, tells the story of rebuilding his life after three years and seven months of being held hostage in Somalia.

**13 Ferry Crewmembers Fail Drug Test.** *Maritime Executive* [Online]. 13 December 2016.

Available from: <http://www.maritime-executive.com/article/13-ferry-crewmembers-fail-drug-test>

13 crewmembers on the cross-Channel car ferry *Pride of Canterbury* tested "non-negative" for drugs in an under-way test, UK media reported Tuesday.

**ITF head Cotton urges owners having difficulty paying crews to talk with the unions.**

**By Marcus Hand.** *Seatrade Maritime News* [Online]. 19 December 2016. Available from:

<http://www.seatrade-maritime.com/news/europe/itf-sec-gen-cotton-urges-owners-having-difficulty-paying-crews-to-talk-with-the-unions.html>

Speaking to Seatrade Maritime News, Cotton general-secretary of the ITF, said that the global union had "always been very active in ensuring seafarers get their payments" and that the issue was "probably heating up a little bit".

**The release of the "forgotten" *Naham 3* hostages.** *Hellenic Shipping News* [Online]. 20 December 2016. Available from: <http://www.hellenicshippingnews.com/the-release-of-the-forgotten-naham-3-hostages/> The release of 26 seafarer hostages on 22 October 2016 – the last remaining victims captured during the darkest days of the Somali piracy era – represents a symbolic victory in the fight to eradicate a peril that has plagued the Horn of Africa for nearly a decade.

**Danish Maritime Authority improves information for seafarers via new online system.** *Danish Maritime Authority* [Online]. 22 December 2016. Available from: <http://www.dma.dk/Presse/Nyheder/Sider/Danish-Maritime-Authority-improves-information-for-seafarers-via-new-online-system.aspx> In the future, Notices to Mariners will be issued and made available on an ongoing basis and not only on Fridays.

**Remember The Seafarer, Says ICS.** *Hellenic Shipping News* [Online]. 23 December 2016. Available from: <http://www.hellenicshippingnews.com/remember-the-seafarer-says-ics/> As we sit down with family and friends to enjoy the good things that the festive season will bring, Peter Hinchliffe, Secretary General of the International Chamber of Shipping (ICS) asks us to spare a thought for those men and women who make it possible.

**Pirates Free Kidnapped Russian Crew.** *World Maritime News* [Online]. 23 December 2016. Available from: <http://worldmaritimeneeds.com/archives/209267/pirates-free-kidnapped-russian-crew/> Three Russian crewmembers, who were kidnapped by pirates from the merchant vessel *Saronic Breeze*, were released on December 20, The Ministry of Foreign Affairs of the Russian Federation informed.

## SEARCH AND RESCUE

**MMEA on weaknesses in SAR operations.** *Daily Express (Malaysia)* [Online]. 2 December 2016. Available from: <http://www.dailyexpress.com.my/news.cfm?NewsID=114427> Communication limitations are among weaknesses that need to be addressed by agencies involved in search and rescue operations

**PNS *Shamsheer* rescues 41 people in Gulf of Aden.** *Daily Times (Pakistan)* [Online]. 11 December 2016. Available from: <http://dailytimes.com.pk/pakistan/11-Dec-16/pns-shamsheer-rescues-41-people-in-gulf-of-aden> Pakistan Navy ship PNS *Shamsheer* saved 41 people during a counter-piracy mission in the Gulf of Aden.

**For crews saving desperate refugees 'a good heart is not enough'. By Jason Pohl.** *USA Today* [Online]. 20 December 2016. Available from: <http://www.usatoday.com/story/news/world/2016/12/15/refugees-minden-migrant-crisis-crew/95160328/> More than 4,600 people have been killed crossing the Mediterranean Sea to Europe since January.

## SHIPBUILDING AND SHIPREPAIR

**7 "World's First" Vessels Launched in 2016.** *Marine Insight* [Online]. 21 December 2016. Available from: <http://www.marineinsight.com/shipping-news/r7-worlds-first-vessels-launched-in-2016/> In 2016, while the world was advancing towards a greener and cleaner future by busy looking for sustainable alternatives of fuels and energy sources, the maritime industry was also determined to take every possible step required in order to become less harsh on the environment.

## SHIPPING

**Maersk to buy German shipping line Hamburg Sud.** By Jacob Gronholt-Pedersen. *Reuters* [Online]. 1 December 2016. Available from: <http://www.reuters.com/article/us-hamburgsud-m-a-maersk-idUSKBN13Q3U5> Maersk Line, the world's biggest shipping company, is to buy smaller rival Hamburg Süd, joining a wave of M&A in the industry just over two months after the Danish company revealed plans to bolster its transport operations.

**Minister lauds growth of shipping industry.** By Fizah Hab. *Borneo Bulletin* [Online]. 2 December 2016. Available from: <http://borneobulletin.com.bn/minister-lauds-growth-shipping-industry/> MINISTER of Communications Dato Seri Setia Awang Haji Mustappa bin Haji Sirat has welcomed current developments in the local shipping industry, which he said was in line with the laws and regulations of the International Maritime Organisation (IMO).

**Union gives \$3m to help cut shipping firms' costs.** By Chong Zi Liang. *Straits Times* [Online]. 2 December 2016. Available from: <http://www.straitstimes.com/singapore/manpower/union-gives-3m-to-help-cut-shipping-firms-costs> A seamen's union will hand out \$3 million in the next two years to help shipping companies reduce operating expenses as they navigate the turbulent world economy.

**Rough seas for global shipping.** *The Economist* [Online]. 5 December 2016. Available from: <https://www.youtube.com/watch?v=gj-hg8ryuTc&feature=youtu.be> 📺 When the shipping firm Hanjin went bust in September, \$14bn worth of goods were stranded at sea.

**Tracing a lost shipping container's journey through the ocean.** By Drew Penner. *Globe and Mail (Canada)* [Online]. 4 December 2016. Available from: <http://www.goo.gl/v7po2i> A giant hunk of metal jutted up 9 1/2 feet into the air off Long Beach in Tofino, B.C.

**Mother-Daughter Ship to Boost Short Sea Cargo.** By Valeria Criscione. *Nortrade* [Online]. 2 December 2016. Available from: <http://www.nortrade.com/sectors/articles/mother-daughter-ship-to-boost-short-sea-cargo/> The EU has expressed ambitions to reduce long distance road haulage by 30% within 2030 by shifting transport from trucks to either rail or sea.

**Deputy Transport Minister of Russia Victor Olersky on the current state and prospects of the shipping industry.** *Port News* [Online]. 5 December 2016. Available from: <http://portnews.ru/opinions/1816/> Ship owners have seen strong challenges in recent years, the market is heavy in all segments.

**Market conditions force down ship operating costs.** *Drewry Shipping Consultants* [Online]. 5 December 2016. Available from: <https://www.drewry.co.uk/news/market-conditions-force-down-ship-operating-costs> The cost of operating cargo ships has fallen for two successive years but is forecast to rise in 2017 and beyond, according to the latest Ship Operating Costs Annual Review and Forecast 2016/17 report published by global shipping consultancy Drewry.

**Africa in mind – shipping makes its business case.** *European Community Shipowners' Associations (ECSA)* [Online]. 2 December 2016. Available from: <http://www.ecsa.eu/9-latest-news/287-africa-in-mind-shipping-makes-its-business-case> European shipowners organised an event in the European Parliament on 29 November where logistics and regulatory challenges and opportunities in Africa were discussed with speakers and panellists with experience and knowledge of the region.

**Hyundai Merchant in final talks to join major shipping alliance.** *Yonhap News Agency (South Korea)* [Online]. 7 December 2016. Available from: <http://english.yonhapnews.co.kr/news/2016/12/07/0200000000AEN20161207002200320.html> Hyundai Merchant Marine Co., a major shipping line here, has started its final talks to join a global shipping alliance to survive the cutthroat competition in the global shipping sector.

**First Norwegian vessel to comply with new IMO Polar Code.** *By Nikos Späth. DNV GL* [Online]. 5 December 2016. Available from: <https://www.dnvgl.com/news/first-norwegian-vessel-to-comply-with-new-imo-polar-code-82386> After a successful approval process and survey, DNV GL and the Norwegian Maritime Authority have issued the first polar ship certificate to the Norwegian platform survey vessel *M/V Stril Polar* owned by Simon Møkster Shipping AS.

**Resolving STS operational frustrations.** *Tanker Shipping & Trade* [Online]. 9 December 2016. Available from: [http://www.tankershipping.com/news/view,resolving-sts-operational-frustrations\\_45751.htm](http://www.tankershipping.com/news/view,resolving-sts-operational-frustrations_45751.htm) The risk profile of the ship-to-ship transfer sector comprises four individual elements, Dynamarine's Alexandros Glykas told delegates at November's Tanker Shipping & Trade Conference.

**Arctic Documentary Filmed From Canadian Icebreaker.** *Maritime Executive* [Online]. 12 December 2016. Available from: <http://maritime-executive.com/article/arctic-documentary-filmed-from-canadian-icebreaker>  A new documentary and virtual reality tour has been produced ready for release next year.

**Stricter standards helping shipping industry: Wisdom.** *Hellenic Shipping News* [Online]. 13 December 2016. Available from: <http://www.hellenicshippingnews.com/stricter-standards-helping-shipping-industry-wisdom/> Wisdom Marine Group, one of the nation's largest dry bulk shipping companies by fleet size, expects more stringent environmental regulations to accelerate vessel retirements and ease a supply glut that has hounded the global shipping industry.

**Is global shipping in the doldrums? By Peter van Duyn, Victoria University.** *The Conversation* [Online]. 13 December 2016. Available from: <https://theconversation.com/is-global-shipping-in-the-doldrums-69639> Unease surrounding the fate of the global shipping industry has skyrocketed after the recent collapse of South Korean company Hanjin Shipping, the seventh-largest shipping line in the world. Maritime transport carries 90% of the world's goods and is vital for global trade and economic prosperity, yet there are many signs pointing to the industry's looming decline.

**Danish Shipowners Partnership for Green Shipping.** *By Aiswarya Lakshmi. MarineLink.Com* [Online]. 14 December 2016. Available from: <http://www.marinelink.com/news/partnership-shipowners419513.aspx> "The Danish Shipowners' Association, the Ministry of Environment and Food of Denmark and the Ministry of Industry, Business and Financial Affairs have concluded a partnership to strengthen cooperation and dialogue across Blue Denmark within the maritime environmental area," says a press statement from Danish Maritime Authority.



**Container shipping's year of consolidation - what happens next? By Marcus Hand.**

*Seatrade Maritime News* [Online]. 15 December 2016. Available from: <http://www.seatrade-maritime.com/news/asia/free-download-container-shipping-s-year-of-consolidation-what-happens-next.html> A long forecast wave of consolidation finally happened on an unprecedented scale as a result of a combination of mounting cumulative losses for many, a dramatic collapse in markets from the second half of 2016 and ensuing price war, and smaller players struggled under the huge investments required to be a part of the ultra-large containership age.  
[UPDATED - The Future of the Container Industry](#)

**Shipping industry continues to struggle. By Jhoo Dong-chan. Korea Times** [Online].

14 December 2016. Available from: [https://www.koreatimes.co.kr/www/news/biz/2016/12/123\\_220182.html](https://www.koreatimes.co.kr/www/news/biz/2016/12/123_220182.html) Korea's shipping industry, which once boasted the world's fifth-largest market share, is still struggling despite efforts from financial firms to salvage it.

**Global Shipping Industry Slams European Parliament Proposal to Impose Regional Emissions Trading System. International Chamber of Shipping (ICS)** [Online].

16 December 2016. Available from: <http://www.goo.gl/eO9ni6> The global trade association for shipowners, the International Chamber of Shipping (ICS), says that a unilateral decision by the European Union to incorporate international shipping into its regional Emissions Trading System (ETS) will polarise and impede current discussions on additional CO2 reduction measures at the UN International Maritime Organization (IMO).

**As Developing Countries Increase Involvement in Global Maritime Business.**

**By Eromosele Abiodun. This Day (Nigeria)** [Online]. 16 December 2016. Available from:

<http://www.thisdaylive.com/index.php/2016/12/16/as-developing-countries-increase-involvement-in-global-maritime-business/> Eromosele Abiodun examines UNCTAD's review of maritime transport and submits that the long-term growth prospects for seaborne trade and maritime business, especially from emerging markets, are positive.

**European Commissioners: Slovenia's Violeta Bulc and Margrethe Vestager from Denmark. Lloyd's List** [Online]. 18 December 2016. Available from:

<https://www.lloydslist.com/ll/news/top100/article542108.ece> These are the forces that shape regional legislation that is undoubtedly affecting international regulations, whether the shipping industry likes it or not.

**Classification top 10. Lloyd's List** [Online]. 18 December 2016. Available from:

<https://www.lloydslist.com/ll/incoming/article545254.ece?> List ranges from giants holding firm their position to smaller, more dynamic organisations.

**This year's 100 most influential people in shipping revealed. By Richard Meade.**

*Lloyd's List* [Online]. 18 December 2016. Available from:

<https://www.lloydslist.com/ll/sector/finance/article545557.ece> Last year's edition of the Lloyd's List Top 100 argued that it would be exogenous events, not self-inflicted folly, that would drive industry fortunes in 2016.

**Meeting of the Presidium of RS Scientific and Technical Council.**

*Russian Maritime Register of Shipping (RS)* [Online]. 19 December 2016. Available from:

<http://www.rs-class.org/en/register/news/detail.php?ID=17139> Meeting of the Presidium of Scientific and Technical Council (STC) of Russian Maritime Register of Shipping (RS) was held on December, 15.

**Shipping lines reluctant to give up 'the old ways' and go digital in the blockchain revolution. By Alexander Whiteman.** *The Loadstar* [Online]. 19 December 2016.

Available from: <http://theloadstar.co.uk/shipping-lines-reluctant-give-old-ways-go-digital-blockchain-revolution/> Six months after the implementation of verified gross mass (VGM) requirements, traditional anxieties in the freight sector are holding back progress.

**Aspida Maritime Security partakes in the Green Award scheme.** *Hellenic Shipping News* [Online]. 21 December 2016. Available from: <http://www.hellenicshippingnews.com/aspida-maritime-security-partakes-in-the-green-award-scheme/> Green Award certificate proves that the ship's or ship manager's performance goes beyond the industry regulations in terms of safety, quality and prevention of environmental damage.

**Optimistic charterers help boost shipping confidence to 15-month high.**

**By Richard Greiner.** *Moore Stephens* [Online]. 20 December 2016. Available from: <http://www.moorestephens.co.uk/news-views/december-2016/optimistic-charterers-help-boost-shipping-confiden> In November 2016, the average confidence level expressed by respondents was 5.6 out of 10.0, equalling the highest rating since August 2015.

[Shipping Confidence Survey](#) 

**Reunification would double Cyprus register, says minister. By David Osler.** *Lloyd's List*

[Online]. 21 December 2016. Available from: <https://www.lloydslist.com/ll/sector/regulation/article545869.ece> Cyprus' open registry could double in size if plans to reunify the divided Mediterranean country in the next few years prove successful, according to the country's transport minister.

**Shipping 2016 - a year in review. By Marcus Hand.** *Seatrade Maritime News* [Online].

22 December 2016. Available from: <http://www.seatrade-maritime.com/news/europe/shipping-in-2016-a-year-in-review.html> Be it be in shipping, the economy or politics 2016 has been a tumultuous year. Seatrade Maritime News takes a look back at the year and top stories in the world of shipping and maritime.

**All I want for Christmas is internet, access to social media, and a 'Like'.**

**By Graeme Somerville-Ryan.** *Splash 24/7* [Online]. 23 December 2016. Available from: <http://splash247.com/want-christmas-internet-access-social-media-like/> This was a big deal for a relatively new business focusing on social media marketing in the maritime sector.

**ECSA adopts position on European policy for the Arctic.** *European Community Shipowners' Associations (ECSA)* [Online]. 20 December 2016. Available from: <http://www.ecsa.eu/9-latest-news/293-ecsa-adopts-position-on-european-policy-for-the-arctic>

European shipowners welcomed earlier this year the adoption of the integrated European Union policy for the Arctic region: "We believe that the three priority areas identified cover all topical Arctic matters.


[Position Paper](#) 

## RESEARCH

**New Study Suggests 2020 Global Sulfur Cap Could Increase CO2 Emissions Attributable to Shipping.** *Ship & Bunker* [Online]. 7 December 2016. Available from:

<http://shipandbunker.com/news/world/105313-new-study-suggests-2020-global-sulfur-cap-could-increase-co2-emissions-attributable-to-shipping> The IMO's decision to implement a 0.50 percent global sulfur cap on marine fuel from 2020 could result in an overall increase in emissions of CO2 attributable to shipping, a new study published by Trans Oleum has warned.

**The share of aviation and maritime transport in the EU's transport related fossil fuel demand.** By Robert Vergeer. *CE Delft* [Online]. November 2016. Available from:

<http://www.goo.gl/TJRkPq> This report analyses the demand for liquid fossil fuels in the EU transport sector over the years 2010 to 2030, notably for the sectors maritime transport and aviation. [Report](#) 

The *Current Awareness Bulletin (CAB)* is published by the Maritime Knowledge Centre and is not an official IMO publication. Inclusion does not imply any endorsement by IMO.

Current and previous issues of CAB are archived at:  
[Maritime Knowledge Centre](#)

To subscribe or unsubscribe, send an email with your contact details to:  
[maritimeknowledgecentre@imo.org](mailto:maritimeknowledgecentre@imo.org)

### About the cover

The CAB Cover is a photograph of the international memorial to the world's seafarers, past, present and future which graces the entrance to IMO Headquarters in London. The memorial, a seven-metre high, ten-tonne bronze representation of the bow of a cargo ship with a lone seafarer on the deck, is the work of internationally renowned British sculptor Michael Sandle.