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.

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IMO Secretary-General urges vigilance after tanker hijack

IMO Secretary-General Kitack Lim has urged the shipping industry to apply diligently IMO guidance and best management practices to avert possible piracy attacks, in the wake of the hijack of the *Aris 13*, off Puntland, Somalia.

“While we have seen a very welcome decline in piracy off Somalia since the last reported hijack by Somali pirates in 2012, the reality is that piracy off the coast of Somalia has not been eradicated and the underlying conditions have not changed. Merchant shipping should continue to take protective measures against possible piracy attacks in the Gulf of Aden and the western Indian Ocean through diligent application of IMO guidance and Best Management Practices,” Mr Lim said.

He also called upon the Federal Government of Somalia and its regional authorities in Puntland to take prompt action to ensure the safe and speedy release of the eight Sri Lankan seafarers. [Full Story: Briefing 10 - 15/03/2017](#)

IMO MEETINGS FOR 2017

**Sub-Committee on Ship Systems and Equipment (SSE)**
4th session, 20 – 24 March 2017

**Sub-Committee on Safety of Navigation, Communication and Search and Rescue (NCSR)**
4th session, 6 – 10 March 2017

IMO PRESS BRIEFINGS

**Successful project to address marine bio-invasions concludes**
Briefing: 11, March 27, 2017

**Bangladesh ready for next phase to make ship recycling green and sustainable**
Briefing: 09, March 1, 2017

IMO NEWS MAGAZINE  (Spring, 2017)

IMO PUBLISHING  Just Published: 2017  March 2017 Newsletter
RECENT SPEECHES BY IMO SECRETARY-GENERAL KITACK LIM

High-level Ministerial working lunch
29 March 2017, Malta

Ministerial Stakeholders Conference
28 March 2017, Malta

Sub-Committee on Ship Systems and Equipment (SSE)
4th session, 20 – 24 March 2017 (Opening address)

Panama Maritime XIII - IMO objectives for 2017
12 March 2017, Panama

Arctic Council - (Juneau, Alaska) - Polar Code developments
8 – 9 March 2017, Juneau, Alaska

Sub-Committee on Navigation, Communications and Search and Rescue (NCSR)
4th session, 6 – 10 March (Opening address)

UNITED NATIONS NEWS


Guterres grateful for US support as largest UN contributor; will work with Member States on reform. UN News Centre [Online]. 16 March 2017. Available from: http://www.un.org/apps/news/story.asp?NewsID=56364 Secretary-General António Guterres is committed to reforming the United Nations and stands ready to discuss with the United States and any other Member State how best to create a more cost-effective Organization that can tackle the enormous challenges facing the international community, his spokesman said today.


**CASUALTIES**


Torrey Canyon oil spill: The day the sea turned black. By Bethan Bell and Mario Cacciottolo. BBC News [Online]. 17 March 2017. Available from: http://www.bbc.co.uk/news/uk-england-39223308 Fifty years ago, the supertanker SS Torrey Canyon hit rocks off the coast of Cornwall, spilling more than 100,000 tonnes of crude oil into the English Channel.

Coast Guard to hold formal investigation hearing for Caribbean Fantasy. By Amy Midgett. US Coast Guard Maritime Commons [Online]. 16 March 2017. Available from: http://mariners.coastguard.dodlive.mil/2017/03/16/3162017-coast-guard-to-hold-formal-investigation-hearing-for-caribbean-fantasy/ The 7th Coast Guard District in Miami announced it will conduct a public formal investigation hearing for the 561-foot Panamanian-flagged passenger/cargo ship Caribbean Fantasy marine casualty, which occurred on Aug. 17, 2016, and the rescue of its 511 passengers and crew members.

Rescue efforts scrambled for stricken vessel off Port St Johns. South African Maritime Safety Authority (SAMSA) [Online]. 16 March 2017. Available from: https://blog.samsa.org.za/2017/03/16/rescue-efforts-scrambled-for-stricken-vessel-off-port-st-johns/ Rescue efforts have been launched by the South African Maritime Safety Authority (SAMSA) Maritime Rescue Coordinating Centre (MRCC) to assist retrieve a foreign vessel that was reportedly in distress off the eastern coast of South Africa near Port St Johns on Wednesday evening.


Torrey Canyon disaster - the UK’s worst-ever oil spill 50 years on. By Adam Vaughan. The Guardian [Online]. 18 March 2017. Available from: https://www.theguardian.com/environment/2017/mar/18/torrey-canyon-disaster-uk-worst-ever-oil-spill-50tha-anniversary The ship was the Torrey Canyon, one of the first generation of supertankers, and it was nearing the end of a journey from Kuwait to a refinery at Milford Haven in Wales.


**ENVIRONMENT**


Ocean acidification. By Karen B. Roberts. *University of Delaware (US)* [Online]. 27 February 2017. Available from: [http://www.udel.edu/udaily/2017/february/arctic-acidification/](http://www.udel.edu/udaily/2017/february/arctic-acidification/) Ocean acidification (OA) is spreading rapidly in the western Arctic Ocean in both area and depth, according to new interdisciplinary research reported in *Nature Climate Change* by a team of international collaborators, including University of Delaware professor Wei-Jun Cai. Increase in acidifying water in the western Arctic Ocean


**Climate change being tackled by maritime sector.** *Trinidad and Tobago Newsday* [Online]. 9 March 2017. Available from: [http://www.newsday.co.tt/news/0,240790.html](http://www.newsday.co.tt/news/0,240790.html) The maritime sector has to make a fair and just contribution to the fight against climate change, according to Arend Biesebroek, Ambassador of the European Union Delegation to Trinidad and Tobago.


**Fijian PM calls on Pacific to raise a unified voice on climate change.** *Pasifik (Vanuatu)* [Online]. 17 March 2017. Available from: [https://pasifik.news/fijian-pm-calls-pacific-raise-unified-voice-climate-change/](https://pasifik.news/fijian-pm-calls-pacific-raise-unified-voice-climate-change/) Fijian Prime Minister Voreqe Bainimarama has called on Pacific nations to raise a unified voice on the issue of climate change and ocean saying that the lives of hundreds of millions of people in vulnerable parts of the world depends on it.


Poor outlook for biodiversity in Antarctica: study finds. By Silvia Dropulich. *Monash University (Australia)* [Online]. 28 March 2017. Available from: http://monashsciencenews.blogspot.co.uk/2017/03/poor-outlook-for-biodiversity-in.html An international study led by Monash scientists has debunked the popular view that Antarctica and the Southern Ocean are in a much better environmental shape than the rest of the world.


**ENVIRONMENTAL POLLUTION**


The cost of a polluted environment: 1.7 million child deaths a year, says WHO. 
World Health Organization (WHO) [Online]. 6 March 2017. Available from: 
Every year, environmental risks – such as indoor and outdoor air pollution, second-hand smoke, unsafe water, lack of sanitation, and inadequate hygiene – take the lives of 1.7 million children under 5 years, say two new WHO reports.

Cruise holidays: who is leading the fleet for sustainable sea travel? By Sarah Shearman. 
Not many of the 25 million people enjoying the sea breeze on a cruise ship this year are likely to think about the air pollutants being emitted from the vessel.

'Air quality readings needed in the docks'. Southern Daily Echo (UK) [Online]. 8 March 2017. Available from: 
http://www.dailyecho.co.uk/yoursay/letters/15142174_Air_quality_readings_needed_in_the_docks/ 
I was amazed to hear that over the last few years, when we have had air tests around the city, that unbelievably we have not had one in the docks where ships are on 24/7 with enormously large diesel engines.

ETI announces details of waste heat recovery project which could help to cut emissions and fuel consumption in shipping. Energy Technologies Institute (ETI) [Online]. 9 March 2017. Available from: 
The ETI has launched a new project which aims to develop and demonstrate a Waste Heat Recovery System for ships that could deliver fuel efficiency savings of at least 8%.

Alarming levels in exhaust measurements on board the AIDA Prima. 
NABU (Nature and Biodiversity Conservation Union) [Online]. 8 March 2017. Available from: 
Covert exhaust measurements conducted by the ARD consumer TV show "Plusminus" expose the "showcase ship" of the AIDA Cruises fleet of ships as a true polluter.

Foul play - DL Marigold and the perils of a dirty bottom. By Michael Grey. 
Seatrade Maritime News [Online]. 14 March 2017. Available from: 
It seemed a bit of a joke in the press, as they reported that a bulk carrier had been asked to leave New Zealand waters because of a dirty bottom.

Quantum Of Oil Spill On Chennai Coast, Remains A Mystery. By Laasya Shekhar. 
Deccan Chronicle (India) [Online]. 14 March 2017. Available from: 
Controversy continues to prevail in Chennai oil spill issue, as government departments differ over the volume of the leak.

Marine litter is a global concern with a range of problems associated to it, as recognised by the Marine Strategy Framework Directive (MSFD). 
Harm caused by Marine Litter: Technical Report 📄
Cornwall’s coastline ‘needs emergency towing vessel protection’. By David Barnicoat. 


Norwegian government to spend millions removing litter from sea. *The Local (Norway)* [Online]. 24 March 2017. Available from: [https://www.thelocal.no/20170324/norwegian-government-to-spend-millions-removing-plastic-from-sea](https://www.thelocal.no/20170324/norwegian-government-to-spend-millions-removing-plastic-from-sea) Prime Minister Erna Solberg on Friday launched the country’s new research vessel, the Dr. Fridtjof Nansen, which will participate in government aid programmes aimed at renewable use of the ocean’s resources.

Get the world’s dirtiest shipping fuel out of the Arctic. By Tagak Curley. *Nunatsiaq News Online (Canada)* [Online]. 28 March 2017. Available from: [http://www.nunatsiaqonline.ca/stories/article/65674get_the_worlds_dirtiest_shipping_fuel_out_of_the_arctic/](http://www.nunatsiaqonline.ca/stories/article/65674get_the_worlds_dirtiest_shipping_fuel_out_of_the_arctic/) For hundreds of years, national and international policies have shaped the Arctic from whaling to the fur trade, from territorial laws to statehood.


**HEALTH**


Dirty ships are killing our citizens: it's time for the EU to act. By Faig Abbasov, Aviation and Shipping Officer, Transport & Environment. Huffington Post [Online]. 27 March 2017. Available from: [http://www.huffingtonpost.com/entry/dirty-ships-are-killing-our-citizens-its-time-for-us_58d8c4bde4b0c0980ac0e7c8](http://www.huffingtonpost.com/entry/dirty-ships-are-killing-our-citizens-its-time-for-us_58d8c4bde4b0c0980ac0e7c8) In little over a year the UN's International Maritime Organisation (IMO) needs to get its act together and deliver an interim plan to cut shipping's carbon footprint.

**HEALTH AND SAFETY**


**IMO**


Interview with Edmund Hughes, IMO. Green4Sea [Online]. 2 March 2017. Available from: [http://www.green4sea.com/interview-edmund-hughes-imo/](http://www.green4sea.com/interview-edmund-hughes-imo/) Dr. Edmund Hughes, Head of Air Pollution and Energy Efficiency, Marine Environment Division of International Maritime Organization (IMO), talks about IMO's efforts to combat GHG emissions from shipping, highlighting that industry needs to continue to support the Organization in formulating global regulations towards a more sustainable future.


Korea to take the lead on IMO's Voyage-Together initiative. By Wei Zhe Tan. *Lloyd's List* [Online]. 10 March 2017. Available from: [https://www.lloydslist.com/ll/sector/containers/article551535.ece](https://www.lloydslist.com/ll/sector/containers/article551535.ece)  The project was introduced by IMO secretary-general Kitack Lim while he was campaigning for the position in 2015 and called for safety and security in maritime navigation and other operations, the mutual growth of member states and the provision of training opportunities for member states to raise awareness of maritime safety, said the Ministry of Oceans and Fisheries.


**LAW AND POLICY**


Malta with a firm commitment to highlight the importance of maritime transport policy. *Government of Malta* [Online]. 28 February 2017. Available from: [http://www.goo.gl/Ph7aw2h](http://www.goo.gl/Ph7aw2h)  During the European Shipping Week being held in Brussels this week, Minister for Transport and Infrastructure Joe Mizzi highlighted the fact that the year 2017 will be remembered not only for showcasing the EU maritime transport industry, but also for bringing to the fore the importance of the maritime sector and the added value that it brings to the European economy.


Deep cuts to environmental research in Trump's budget proposal. By Chelsea Whyte.
*New Scientist*[Online]. 6 March 2017. Available from: https://www.newscientist.com/article/2123641-deep-cuts-to-environmental-research-in-trumps-budget-proposal/ This is the first step in a long budgeting process so these numbers aren't final, but they are a clear indication of the value the Trump Administration places on science-based policy.

New U.S. Executive Order issued on immigration: Potential impact on vessels crews.
*Freehill Hogan & Mahar LLP*[Online]. 6 March 2017. Available from: http://www.freehill.com/wp-content/uploads/2017/03/NYDOCS1-463899-v1-Client_Alert_on_New_Immigration_E_O_.pdf As reported in our Client Alerts of January 30th and February 10th, Executive Order ("E.O.") 13769 issued by President Trump on January 27, 2017, and entitled "Protecting the Nation From Foreign Terrorist Entry Into the United States", banned for 90 days any immigrant or non-immigrant entry into the U.S. of foreign citizens from Iran, Iraq, Libya, Somalia, Sudan, Syria and Yemen, and would have impacted vessels with crewmembers from those countries.

Shipping firm, captain sentenced in maritime pollution case with Charleston ties.

Governments to carefully weigh up shipping ETS 'insurance policy'.
*Transport & Environment*[Online]. 8 March 2017. Available from: https://www.transportenvironment.org/news/governments-carefully-weigh-shipping-ets-%E2%80%98insurance-policy%E2%80%99 MEPs' proposal to include shipping in the EU emissions trading system (ETS) from 2023, if the International Maritime Organisation (IMO) fails to agree a global measure to reduce shipping emissions, should be a wake-up call for the UN agency, a senior European Commission official has said.

Philippines to propose joint patrols vs. Abu Sayyaf, pirates. By Roel Pareño.

Ban in : Vietnam shares experience in oil spill preparedness and response.

*Caribbean News Service*[Online]. 9 March 2017. Available from: http://caribbeannewsservice.com/now/caribbean-gearing-up-for-marine-resources-treaty/ The countries of the Caribbean Community (CARICOM) have been fine-tuning their positions ahead of the next United Nations preparatory meeting to establish an international legally-binding agreement on sustainable use of marine resources.


South Africa remains posed for a pioneering role in Africa's ocean economy development: SAMSA. South African Maritime Safety Authority (SAMSA) [Online]. 14 March 2017. Available from: https://blog.samsa.org.za/2017/03/14/south-africa-remains-posed-for-a-pioneering-role-in-africas-ocean-economy-development-samsa/ South Africa is well positioned to play a pioneering role in the African continent's drive for expansive growth of its ocean's economy sector, but especially if stakeholders and key role players both in the public and private sector continue to strengthen co-operation and collaboration towards the goal.
NIMASA: Getting out of the water. By Wale Suleiman. The Nation (Nigeria) [Online]. 14 March 2017. Available from: http://thenationonlineng.net/nimasa-getting-water/ If a list of government agencies that have failed to realise their full potential over the years is drawn up, the Nigerian Maritime Administration and Safety Agency (NIMASA) will easily top the list.


Tubbataha Reefs declared 'area to be avoided'. By Betheena Kae Unite. Manila Bulletin [Online]. 15 March 2017. Available from: http://news.mb.com.ph/2017/03/15/tubbataha-reefs-declared-area-to-be-avoided/ The entire Tubbataha Reefs Natural Park (TRNP) has been declared as an "area to be avoided" (ATBA) by the International Maritime Organization (IMO).


Nigeria-South Africa maritime sector regulatory authorities strengthen relations. South African Maritime Safety Authority (SAMSA) [Online]. 16 March 2017. Available from: https://blog.samsa.org.za/2017/03/16/nigeria-south-africa-maritime-sector-regulatory-authorities-strengthen-relations/ A Nigeria Maritime Administration and Safety Agency (NIMASA) delegation concluded its three day visit to South Africa in Pretoria on Wednesday satisfied with the outcomes of its engagement with its local counterpart, the South African Maritime Safety Authority (SAMSA), according to group leader, Mr Eric Oji.


Towards this objective, the Intergovernmental Oceanographic Commission of UNESCO and the Directorate-General for Maritime Affairs and Fisheries of the European Commission will publish on March 24th a road map developed during the conference to encourage spatial planning in all the seas and ocean basins of the world.


The initiative could cost nearly $700 billion in government funding, take 30 years to complete and require hiring tens of thousands of skilled shipyard workers - many of whom don't exist yet because they still need to be hired and trained, according to the interviews and the documents reviewed.


Somali officials said that NATO must do more to prevent the illegal fishing that sparked the latest pirate hijacking.


The government will seek to put part of Indonesian waters in the list of Particularly Sensitive Sea Areas (PSSA).


Singapore, as a Contracting Party to the Regional Cooperation Agreement on Combating Piracy and Armed Robbery (ReCAAP) and host to the ReCAAP Information Sharing Centre (ISC), is pleased to have participated in the 11th Governing Council meeting held from 14-16th March 2017.


The Pacific Islands Development Forum’s (PIDF’s) Pacific Blue Economy Conference to be held in Honiara in August this year will focus on traditional knowledge, the latest innovations and lessons learnt and best practices to inform policies, sustainable management and conservation of ocean resources for the Pacific.


An unnamed shipowner has reportedly fallen foul of Chinese authorities for flouting new sulphur emission rules in Emission Control Areas (ECA).
FRONTEX, EMSA and EFCA strengthen cooperation on coast guard functions.

IMO: Tubbataha ‘area to be avoided’. By Brenda V. Pimentel. Manila Times [Online]. 25 March 2017. Available from: http://www.manilatimes.net/imo-tubbataha-area-avoided/319058/ The entire Tubbataha Reefs Natural Park (TNRP) will officially be an Area to be Avoided (ATBA) by all maritime traffic, after the International Maritime Organization (IMO) endorsed the Philippines' proposal to upgrade the protection of the area.


The place of the oceans in Norway's foreign and development policy. Government of Norway Ministry of Foreign Affairs [Online]. March 2017. Available from: https://www.regjeringen.no/contentassets/1b21c0734b5042e489c4234e9927b73/en-gb/pdfs/stm201620170022000engpdfs.pdf Norwegian foreign policy must be designed to support the further development of sustainable ocean-based industries and to promote good solutions and action to combat the serious environmental threats facing the world's oceans.


Colombia Seizes Drugs Found on board German Boxship. World Maritime News [Online]. 24 March 2017. Available from: http://worldmaritimcnws.com/archives/215990/columbia-seizes-drugs-found-on-board-german-boxship/ Some 453 kilos of drugs were found on board a containership at the Port of Santa Marta, Colombia, the country's Office of the Attorney General said in a statement.


Shippers want the EU to look into liner rules. By Tomas Kristiansen. *ShippingWatch* [Online]. 29 March 2017. Available from: [http://shippingwatch.com/secure/carriers/Container/article9467816.ece](http://shippingwatch.com/secure/carriers/Container/article9467816.ece) Main customers to the container carriers met on Tuesday in Brussels to evaluate how the reshuffling of trades and ships and the coming adjusted schedules by the three alliances will impact their business.


**MARINE TECHNOLOGY**


Rolls-Royce: This is where unmanned vessels will operate. By Louise Vogdrup-Schmidt. *ShippingWatch* [Online]. 2 March 2017. Available from: [http://shippingwatch.com/secure/suppliers/article9395873.ece](http://shippingwatch.com/secure/suppliers/article9395873.ece) That autonomous or unmanned vessels will be part of the shipping industry within a few years from now is a fact, but exactly when and how remains subject to disagreement in the sector.


ABB bringing predictive capabilities of big data for shipping industry with latest update of Remote Diagnostic Services. *ABB* [Online]. 14 March 2017. Available from: [http://www.abb.com/cawp/seitp202/786ab3b6d33c101ac12580e30037605b.aspx](http://www.abb.com/cawp/seitp202/786ab3b6d33c101ac12580e30037605b.aspx) ABB is one of the leading advocates of the digitalization of shipping and has already launched Integrated Operation Centers in Asia, Europe and the USA where data produced by ships is received and monitored.
Shipping needs to adapt to a quantum leap in technology. By Martyn Wingrove.  
*Marine Electronics and Communications* [Online]. 17 March 2017. Available from:  
Shipping should expect a quantum leap in the adoption of technology over the next 10 years as ships are built with more automation and IT systems.

Managing the risks of a software enabled future in maritime. By Howard Fireman, Chief Technology Officer, ABS.  
*Seatrade Maritime News* [Online]. 21 March 2017. Available from:  
The trend towards an increasingly software-intensive world – in which there is more code in a new car than there is in a commercial aircraft – is impacting the marine and offshore business.

Blue Denmark zooms in on autonomous ships. *Danish Maritime Authority* [Online]. 20 March 2017. Available from:  
[http://www.dma.dk/Presse/Nyheder/Sider/Blue-Denmark-zooms-in-on-autonomous-ships.aspx](http://www.dma.dk/Presse/Nyheder/Sider/Blue-Denmark-zooms-in-on-autonomous-ships.aspx)  
These years, the entire transport sector is vigorously striving to develop autonomous solutions.

A pre-analysis on autonomous ships. *Technical University of Denmark (DTU) and Danish Maritime Authority* [Online]. 2017. Available from:  
[http://www.dma.dk/Documents/Publikationer/Autonome%20skibe_DTU_rapport_UK.pdf](http://www.dma.dk/Documents/Publikationer/Autonome%20skibe_DTU_rapport_UK.pdf)  
This report is a pre-investigation, the purpose of which is to describe the potentials of autonomous ships, on the basis of international activities of direct relevance to the investigation.

Shipping embraces digital transformation without necessarily knowing what it all means. By Sam Chambers.  
*Splash 24/7* [Online]. 22 March 2017. Available from:  
Results from a survey carried out by Futurenautics Maritime in association with Ericsson, seen by Splash ahead of their release later today, make plain the digital revolution sweeping shipping - and the confusion surrounding this rapid transformation.

AIS Meets IoT: How Technology is Set to Transform Global Ocean Trade and Supply Chain Efficiency. By Stephen Powell, AIS Team Manager, ORBCOMM.  
*Maritime Executive* [Online]. 22 March 2017. Available from:  
Stephen Powell, AIS Team Manager at ORBCOMM, explores the evolution of vessel tracking and monitoring technology and looks into the future of smart global ocean trade and supply chains, harnessing satellite AIS, internet of things (IoT) connectivity and big data to deliver unprecedented levels of visibility and control.

MacGregor and Rolls-Royce to explore implications of autonomy for container ships.  
*MacGregor* [Online]. 23 March 2017. Available from:  
MacGregor, part of Cargotec, and Rolls-Royce have signed a Memorandum of Understanding (MOU) to collaborate on research and development to explore the impact of developments in autonomy for cargo ship navigation and cargo systems onboard container ships.

Rolls-Royce and Stena Line to work together to develop intelligent awareness for ships.  
*Rolls-Royce* [Online]. 20 March 2017. Available from:  
Intelligent awareness systems will make vessels safer, easier and more efficient to operate by providing crew with an enhanced understanding of their vessel's surroundings.

Autonomous ship regulations 'a bigger challenge than the technology'. By Sam Chambers. Splash 24/7 [Online]. 30 March 2017. Available from: http://splash247.com/autonomous-ship-regulation-bigger-challenge-technology/ Likely upcoming remote-controlled vessels and Maritime Autonomous Surface Ships (MASS) will force all members of the maritime sector and maritime nations to cooperate in ensuring a regulatory regime is in place that covers unmanned ships, according to a gathering at the Insurance Institute of London (IIL).


MARITIME SAFETY


Watertight doors awareness campaign. Gard [Online]. 14 March 2017. Available from: http://www.gard.no/web/content/watertight-doors-awareness-campaign During day to day operations of a ship and particularly in situations where the ship has been damaged, it is usually assumed that all watertight doors are closed and that the vessel's internal watertight subdivision is 100% effective.

Are you prepared? New IMCA safety videos pocket cards launched.  
*International Marine Contractors Association (IMCA)* [Online]. 20 March 2017. Available from:  
Effective promotion of safe working practices is high on the workplace agenda, and keeping safety material fresh and accessible remains vital to putting over the message.  
Mini Safety Videos 🎬

Near-collision between Halifax charter boat, cruise ship prompts safety equipment investment.  
*CTV News (Canada)* [Online]. 21 March 2017. Available from:  
A charter boat that nearly collided with a much larger cruise ship last summer in Halifax Harbour has prompted the vessel's operator to make a significant safety investment.

House of Lords Debate: Shipping: Safety.  
*UK Parliament* [Online]. 27 March 2017. Available from:  
https://hansard.parliament.uk/lords/2017-03-27/debates/DB6251EB-0B9A-4F2A-BD90-F3C1733E037A/ShippingSafety  
To ask Her Majesty's Government what assessment they have made of the effectiveness of the international safety regulations and procedures laid down in the International Convention for the Safety of Life at Sea to ensure the safe evacuation of ships carrying more than 5,000 passengers and crew.

Containerized Dangerous Goods: More Needs to be Done.  
*Maritime Executive* [Online]. 30 March 2017. Available from:  
Industry stakeholders at the International Cargo Handling Coordination Association (ICHCA International) Packaged Dangerous Goods Seminar in London have agreed that the Tianjin port disaster should spur further collective effort to address misdeclaration and the safe shipment of containerized dangerous goods.

**MARITIME SECURITY**

IUMI puts the spotlight on unmanned vessels and cyber security.  
The International Union of Marine Insurance says unmanned vessels and cyber security are among the key issues and challenges marine insurers need to address.

Repelling terrorist attacks. By Barry Cross.  
*Port Strategy* [Online]. 6 March 2017. Available from:  
Recent terrorist outrages using heavy goods vehicles as improvised weapons has generated concern among the general public, governments and law enforcement agencies.

Analysis - Escalation in ship attacks pushes Yemen towards starvation.  
By Jonathan Saul and Katie Paul.  
*Reuters* [Online]. 6 March 2017. Available from:  
http://in.reuters.com/article/yemen-security-maritime-idINKBN16D16B  
Cruise missiles, floating mines and a remote-controlled boat have been deployed to attack ships in Yemen in recent months, changing the dynamic of the two-year-old war and pushing the country closer to famine, shipping and aid officials say.

U.S. ship changed course toward Iranians on Saturday: Iran commander.  
By Babak Dehghanpisheh.  
*Reuters* [Online]. 8 March 2017. Available from:  
http://www.reuters.com/article/us-usa-iran-navy-idUSKBN16F0VP  
A U.S. Navy ship changed course toward Iranian Revolutionary Guard vessels in the Strait of Hormuz on Saturday, a guard commander was quoted as saying on Wednesday while issuing a warning.


Maritime Security Challenges: Focus High North Papers from the Kiel Conference 2016. By Sebastian Bruns and Adrian J. Neumann. *Institute for Security Policy Kiel University (Germany)* [Online]. 2016. Available from: [http://www.ispk.uni-kiel.de/de/publikationen/konferenzbauende-proceedings/kico-2016-proceedings](http://www.ispk.uni-kiel.de/de/publikationen/konferenzbauende-proceedings/kico-2016-proceedings) Throughout the centuries, the High North, broadly defined as the Arctic region, the Norwegian Sea, the Barents Sea, the southern areas of the Polar Sea, and the area north of the Arctic Circle, has triggered the imagination of many people.


Liberia will partner with Canada in maritime security - Samukai. *Liberia News Agency* [Online]. 10 March 2017. Available from: [http://www.liberianewsagency.org/pagesnews.php?nid=8619](http://www.liberianewsagency.org/pagesnews.php?nid=8619) He noted that from the security perspective, the Liberian Coast Guard is prepared to cooperate with all partner nations in ensuring the safety of the broader West African Coastal region to thwart 'tragedy of the commons'.
Intelligence agency warns of maritime cyber threats. By Søren Pico.  *ShippingWatch*  
[Online]. 13 March 2017.  Available from:  
[http://shippingwatch.com/secure/carriers/article9428148.ece](http://shippingwatch.com/secure/carriers/article9428148.ece)  
The threat from cyber crime and cyber espionage is "very high" in the maritime sector, according to a threat assessment from the Danish Defence Intelligence Service's Centre for Cyber Security (CFCS).

**Threat Assessment: The cyber threat against the maritime sector.**  
*Danish Defence Intelligence Service Centre for Cyber Security*  
[Online]. March 2017.  Available from:  
[https://feddis.dk/cfcs/CFCSDocuments/The_Cyber_Threat_to_the_Maritime_Sector_march.pdf](https://feddis.dk/cfcs/CFCSDocuments/The_Cyber_Threat_to_the_Maritime_Sector_march.pdf)  
This threat assessment gives an overview of the cyber threat against the maritime sector in Denmark.

Maritime terrorism an emerging threat in Indian Ocean, says Sri Lanka PM Ranil Wickremesinghe.  
*Financial Express (India)*  
[Online]. 15 March 2017.  Available from:  
Sri Lankan Prime Minister Ranil Wickremesinghe today pitched for closer cooperation among countries of the region to combat threat of terrorism, warning that maritime infrastructure in the Indian Ocean region could be a potential target of terror groups.

Crime on the high seas. By Kamanthi Wickramasinghe.  
*Daily Mirror (Sri Lanka)*  
[Online]. 21 March 2017.  Available from:  
Piracy, the act of robbery or criminal violence by ship or boat-borne attackers upon another ship or a coastal area, is a common occurrence in international waters.

EU Naval Force Spanish Flagship *ESPS Galicia* Greets Somali Fishermen During Sea Patrols to Deter Armed Pirate Attacks.  
*EU NAVFOR Somalia*  
[Online]. 20 March 2017.  Available from:  
Following the recent pirate attack on the Comoros-flagged fuel tanker, *MT Aris 13*, EU Naval Force warships and maritime patrol aircraft have been continuing their counter-piracy patrols off the coast of Somalia.

Gray Page: On piracy and cybercrime.  
*Splash 24/7*  
[Online]. 23 March 2017.  Available from:  
Last week’s hijacking of the *Aris 13* tanker, the first incident involving Somali pirates since 2012, might not be a one-off, warns a leading security consultants in today’s Maritime CEO interview.

Maritime Security: Transportation Minister okays biometric identity for port operators.  
By Godwin Oritse and Godfrey Bivbere.  
*Vanguard (Nigeria)*  
[Online]. 24 March 2017.  Available from:  
Minister of Transportation, Rotimi Amaechi, has approved biometric identity card for port operators in line with requirements for achieving full International Ships and Ports Security, ISPS, code in Nigeria.

*Hellenic Shipping News*  
[Online]. 23 March 2017.  Available from:  
Giles Noakes, Head of Maritime Security at BIMCO, talks about the most recent meeting of the Maritime Security Committee focusing on piracy, cyber security and the recent highly successful maritime security seminar.


Yemen war threatens to spill into international arena as maritime risks grow. By Taimur Khan. The National (United Arab Emirates) [Online]. 23 March 2017. Available from: http://www.thenational.ae/world/middle-east/yemen-war-threatens-to-spill-into-international-arena-as-maritime-risks-grow As the war in Yemen enters its third year and fighting intensifies along its western coastline, the conflict is increasingly spilling over into both sides of the Bab Al Mandeb strait, threatening traffic through one of the world's most strategic maritime choke points and impeding delivery of desperately needed aid.

Gov’t will equip the Navy to deal with maritime security threat. By Godwill Arthur-Mensah. Ghana News Agency (GNA) [Online]. 28 March 2017. Available from: http://www.ghananewsagency.org/politics/gov-t-will-equip-the-navy-to-deal-with-maritime-security-threat-114885 Vice-President Dr. Mahamudu Bawumia on Tuesday gave the assurance that the Government would equip the Ghana Navy and other stakeholders in the maritime industry to protect and preserve the vital national assets.


MARITIME TRAINING


Massive Open Online Course on Blue Economy launched. *Seychelles Nation* [Online]. 8 March 2017. Available from: [http://www.nation.sc/article.html?id=253173](http://www.nation.sc/article.html?id=253173) An introductory Massive Online Course on the Blue Economy which will be made available to anyone and anywhere, especially to people who are unfamiliar with the concept of the Blue Economy, was officially launched yesterday at the University of Seychelles (UniSey), Anse Royale.


NMP Turns Up Training Needs of Maritime Instructors. By Jasmin J. Andrade. *National Maritime Polytechnic (Philippines)* [Online]. 28 February 2017. Available from: [http://www.nmp.gov.ph/home/details/100172](http://www.nmp.gov.ph/home/details/100172) Results of a training needs analysis (TNA) conducted by the National Maritime Polytechnic (NMP) reveal specific subject areas in the Training Course for Instructors (IMO Model Course 6.09) needing further emphasis and strengthening as well as other industry recommended Knowledge, Skills and Attributes (KSAs) that maritime instructors need to have to reinforce learnings.


Master Mariners of Canada develops compulsory courses for work in Polar Waters. BC Shipping News (Canada) [Online]. 22 March 2017. Available from: http://www.bcspecialnewsletter.com/home/industry-news/master-mariners-canada-develops-compulsory-courses-work-polar-waters Master Mariners of Canada is pleased to announce that new model training courses for ice navigation certification have been approved by the International Maritime Organization (IMO)’s Maritime Safety Committee, and will become mandatory components of the Polar Code.


MIGRANTS


Over 100 rescued migrants arrive in Lampedusa after turbulent journey. The Local (Italy) [Online]. 6 March 2017. Available from: https://www.thelocal.it/20170306/over-100-rescued-migrants-arrive-in-lampedusa-after-turbulent-journey  Five people remained missing on Sunday after scores of migrants in an inflatable boat were rescued in turbulent waters off the coast of Libya overnight.

Arrivals of migrants in Italy at record-setting pace this year: officials.  
By Nathan Frandino.  *Reuters* [Online], 5 March 2017.  Available from:  
Almost 1,300 migrants arrived in Sicily over the weekend after crossing the Mediterranean, according to the Coast Guard, adding to a record-setting pace of arrivals this year. Nathan Frandino reports.

**Mediterranean Migrant Arrivals Reach 19,384, Deaths: 521.**  
IOM reports that 19,384 migrants and refugees entered Europe by sea in 2017 through 5 March, over 80 percent arriving in Italy and the rest in Spain and Greece.

**Libya | Maritime Incidents Libyan coast Update | 16 February - 2 March 2017.**  
IOM reports that 19,653 migrants and refugees entered Europe by sea in 2017 through 14 March, over 80 percent arriving in Italy and the rest in Spain and Greece.

**Mediterranean Migrant Arrivals Reach 19,653, Deaths: 525.**  
IOM reports that 19,722 migrants and refugees entered Europe by sea in 2017 through 15 March, over 80 percent arriving in Italy and the rest in Spain and Greece.

**Mediterranean Migrant Arrivals Reach 20,484, Deaths: 525.**  
IOM reports that 20,484 migrants and refugees entered Europe by sea in 2017 through 19 March, over 80 percent arriving in Italy and the rest in Spain and Greece.

**More than 200 migrants feared drowned in Mediterranean.**  
*BBC News* [Online]. 24 March 2017.  Available from:  
More than 200 migrants are feared dead after five bodies were discovered off the Libyan coast, a Spanish aid organisation says.
Mediterranean Migrant Arrivals Reach 25,170, Deaths: 559.

IOM Director General Visits Tripoli as Tragedy of Migrant Deaths at Sea Worsens.


Mediterranean Migrant Arrivals Reach 26,589, Deaths: 649.

Malta spearheading EU efforts to tackle migration on Mediterranean route.
NAVIGATION AND COMMUNICATIONS

Safe PASSAGE: can sensor technology open the Northwest Passage to shipping?


A PBR/Galileo combo to detect and localise all ships in European seas. European Commission [Online]. 2 March 2017. Available from: http://cordis.europa.eu/news/rcn/126849_en.html Maritime surveillance is one of the key applications where a fully operational Galileo constellation could truly make a difference, through its high precision of course but also by ensuring European independence in a sector that requires the resolving of Europe-specific challenges.


**PIRACY**

S. Korea joins EU's anti-piracy operation around Gulf of Aden. *Yonhap News Agency (South Korea)* [Online]. 5 March 2017. Available from: [http://english.yonhapnews.co.kr/national/2017/03/05/0301000000AEN20170305002700315.html](http://english.yonhapnews.co.kr/national/2017/03/05/0301000000AEN20170305002700315.html) South Korea’s 4,400-ton destroyer Choe Yeong participated in a European Union-led military operation to combat pirates in the waters around the Gulf of Aden near Somalia, the military here said Sunday.


New hijacking could change the situation off the coast of Somalia. By Tomas Kristiansen. *ShippingWatch* [Online]. 15 March 2017. Available from: [http://shippingwatch.com/secure/carriers/article9433476.ece](http://shippingwatch.com/secure/carriers/article9433476.ece) Many stakeholders are currently waiting with baited breath to see how the latest hijacking of a vessel off the coast Somalia ends.

**EU Naval Force Confirms Fuel Tanker Has Been Pirated off North Coast of Somalia.** 
*EU NAVFOR Somalia* [Online]. 14 March 2017. Available from: [http://eunavfor.eu/eu-naval-force-confirms-fuel-tanker-has-been-pirated-off-north-coast-of-somalia/](http://eunavfor.eu/eu-naval-force-confirms-fuel-tanker-has-been-pirated-off-north-coast-of-somalia/) The EU Naval Force, which is currently operating off the coast of Somalia, has received positive confirmation from the master of the Comoros-flagged tanker, *Aris 13*, that his ship and crew are currently being held captive by a number of suspected armed pirates in an anchorage off the north coast of Puntland, close to Alula.

**Statement regarding alleged hijacking of Vessel by Somali pirates.** 

**Tanker hijacked by Somalis did not follow piracy procedures.** By Sam Chambers. 


**First Hijacking of a Merchant Vessel by Somali Pirates in Five Years.** 

Somali force and pirates aboard hijacked vessel exchange fire. By Abdiqani Hassan. 

**Putting Somali piracy into perspective.** By David Rider, Intelligence Consultant. 

**Robbers Target Maersk.** *Port Technology International* [Online]. 21 March 2017. Available from: [https://www.porttechnology.org/news/maersk_targeted_in_armed_robberies_in_asia](https://www.porttechnology.org/news/maersk_targeted_in_armed_robberies_in_asia) Three incidents of robbery against ships in Asia have been reported to the piracy and armed robbery data exchange ReCAAP ISC, including one case involving the Maersk Aegean tanker in Singapore.

**Somali regional anti-piracy chief says sacked over illegal fishing comments.** 

**Somali pirates take over Somali vessel to use as floating base: police.** 


**Fighting Somali piracy: don’t get the next steps wrong.** By Timothy Walker. *Institute for Security Studies (ISS)* [Online]. 27 March 2017. Available from: [https://issatfrica.org/iss-today/fighting-somali-piracy-dont-get-the-next-steps-wrong](https://issatfrica.org/iss-today/fighting-somali-piracy-dont-get-the-next-steps-wrong) On 13 March, the *Aris 13* was hijacked off the coast of Somalia, leading analysts to ask whether the incident heralded a fresh wave of Somali piracy.

Across the world there has been a decline in piracy and sea robbery, but one precarious expanse of ocean waters in South East Asia is bucking that trend, as maritime defence expert Swee Lean Collin Koh explains.


The recent hijacking of an oil tanker by alleged Somali pirates raises a number of important questions.

**PORT STATE CONTROL**


The Maritime and Coastguard Agency (MCA) announced today that eight foreign flagged ships were under detention in UK ports during February 2017 after failing Port State Control (PSC) inspection.


The Biosecurity Authority of Fiji (BAF) has stopped a Korean cargo ship from entering Fijian waters after it was ordered to leave New Zealand on Sunday.


Earlier this week, a Korean-owned bulk carrier *DL Marigold* made headlines after it was ordered to leave New Zealand waters because its hull was judged to be threat to bio-security.


A biofouled vessel ordered to leave Tauranga earlier this month has been allowed to return after being cleaned outside New Zealand, says the Ministry for Primary Industries.
PORTS AND HARBOURS


Employers remain optimistic about the European social dialogue for ports. European Sea Ports Organisation (ESPO) [Online]. 2 March 2017. Available from: http://www.espo.be/news/employers-remain-optimistic-about-the-european-soc The European social dialogue on ports was established in June 2013 by port employers and employees to identify challenges faced by the sector, improve health and safety conditions and raise awareness about the essential contribution of port stakeholders to the EU economy and its growth.


HELCOM moves forward on Port Reception Facilities. Baltic Ports Organization (BPO) [Online]. 3 March 2017. Available from: http://www.bpoports.com/helcom-moves-forward-on-port-reception-facilities.html Work plans for the Cooperation Platform on Port Reception Facilities (PRFs) and HELCOM Maritime sub-group on green ship technology and alternative fuels have been adopted during the 38th HELCOM meeting.

MPA Drives Innovation to Enhance Singapore's Hub Port Competitiveness. Maritime and Port Authority of Singapore (MPA) [Online]. 8 March 2017. Available from: http://www.mpa.gov.sg/web/portal/home/media-centre/news-releases/detail/b8947c16-bd25-4499-a115-4ca1f8333f82 To enhance Singapore’s hub port competitiveness, the Maritime and Port Authority of Singapore (MPA) is leveraging technology to help maritime companies innovate and move into new growth areas.


Larger vessels vs the community. Green Port [Online]. 21 March 2017. Available from: http://www.greenport.com/news101/cruise/larger-vessels-vs-the-community The green light given to a new terminal development in Venice has drawn criticism from the cruise industry over what has been called a totally 'unworkable solution'.


Yemen's warring parties should protect ports, not U.N.: spokesman. By Michelle Nichols. 

UK MCA informs on port waste management planning. 
_Green4Sea_ [Online]. 22 March 2017. Available from: http://www.green4sea.com/uk-mca-informs-on-port-waste-management-planning/ The UK MCA has issued a Marine Guidance Note to inform on the revised waste notification form which is to be used by ships’ masters when delivering waste to port reception facilities.

Deepening and Widening of Mumbai Harbour Channel and JN Port Channel (Phase-II). 

**RECYCLING OF SHIPS**

Please, Get Real with Ship Recycling. By Nikos Mikelis, non-executive director, GMS. 

EU ship recyclers join voices to promote clean and safe practices. 
_NGO Shipbreaking Platform_ [Online]. 10 March 2017. Available from: http://www.shipbreakingplatform.org/platform-news-eu-ship-recyclers-join-voices-to-promote-clean-and-safe-practices/ Five European ship recycling yards announced yesterday that they have joined forces to effectively raise awareness of existing best practice and the fact that there is capacity in Europe to properly recycle ships.
**REGULATIONS**


Verifavia, the world's leading emissions verification company for the transport sector (aviation and shipping), today announced that it has been fully accredited by the United Kingdom Accreditation Service (UKAS) as a global EU monitoring, reporting, and verification (MRV) verifier.


The 0.5% fuel sulphur content cap regulation by the IMO is less than three years away from the enforcement date of 1 January 2020, leaving the refining and shipping industries caught in a catch-22 situation.


Bureau Veritas, the leading international classification society, has gained accreditation from United Kingdom Accreditation Services (UKAS), in their pilot scheme, to carry out assessments and verifications for compliance with the European Union's Maritime Monitoring, Reporting and Verification (EU MRV) regulation.


Co-organized by the Centre for International Governance Innovation (CIGI) and the Marine & Environmental Law Institute (MELAW) at Dalhousie University, this consultation workshop includes experts from CIGI's International Law Research Program and experts from governmental, academic, and private sectors.


Since last Fall, many stakeholders in shipping have been running a barrage of "doomsday" scenarios about implementation of the BWTC, followed by outrage over 2020 SOx.


There are areas where certain provisions of IMO’s Ballast Water Management Convention have been undeveloped when arguably they should have been fully agreed upon before the text was adopted, or very soon after.


Shipping experts have advised owners to take more time before installing ballast water treatment systems on their ships even as implementation is barely six months away.
Regulations should achieve their core purpose in the most effective and practical ways possible. *International Association of Dry Cargo Shipowners (INTERCARGO)* [Online]. 7 March 2017. Available from: http://www.intercargo.org/en/?option=com_attachments&task=download&id=394. INTERCARGO’s Technical and Executive Committees held their semi-annual meetings on 6 and 7 March, along with a well-attended Gala dinner on first day.


Workshop discusses container mass verification requirements. *Government of Mauritius* [Online]. 27 March 2017. Available from: [http://www.govmu.org/English/News/Pages/Workshop-discusses-container-mass-verification-requirements.aspx](http://www.govmu.org/English/News/Pages/Workshop-discusses-container-mass-verification-requirements.aspx) The container mass verification requirements of SOLAS (International Convention for the Safety of Life at Sea) were the main focus of discussions of a workshop which was held on 24 March 2017 at Cyber Tower 1 in Ebène.


### SALVAGE

Sunken Sewol-ho ferry to be raised in May or June: Maritime ministry. *Arirang News (South Korea)* [Online]. 15 March 2017. Available from: [http://www.arrirang.co.kr/News/News_View.asp?nseq=201848](http://www.arrirang.co.kr/News/News_View.asp?nseq=201848) Almost three years after the Sewol-ho ferry sank, killing 304 people, mostly high school students, the government has finished preparations to raise the ship from the bottom of the West Sea.

South Korean ferry in which hundreds died raised after three years. *The Guardian* [Online]. 22 March 2017. Available from: [https://www.theguardian.com/world/2017/mar/22/south-korean-ferry-in-which-hundreds-died-raised-after-three-years](https://www.theguardian.com/world/2017/mar/22/south-korean-ferry-in-which-hundreds-died-raised-after-three-years) Salvage operators have raised South Korea's sunken Sewol ferry, nearly three years after the ship sank, killing more than 300 people and dealing a crippling blow to now-ousted president Park Geun-Hye.


**SEAFARERS**


Russian embassy in Nigeria confirms release of abducted Russian sailors. *TASS Russian News Agency* [Online], 5 March 2017. Available from: [http://tass.com/world/934074](http://tass.com/world/934074) Russian crew members of the BBC Caribbean cargo ship who were kidnapped in Nigeria's territorial waters in early February, have been released and left Nigeria late on Saturday, Artyom Romanov, a spokesman for the Russian embassy in Nigeria, told TASS on Sunday.


Government of Sri Lanka secures the release of Sri Lankan Crew and 'Aris 13' Vessel hijacked by Pirates. Government of Sri Lanka [Online]. 17 March 2017. Available from: http://mfa.gov.lk/index.php/en/media/media-releases/6895-aris13 The Ministry is pleased to announce that the vessel 'Aris 13' that was hijacked by pirates was released late last night/ early this morning (16-17 March Sri Lankan time) along with the eight Sri Lankan crew.


Group of Indian and Sri Lankan fishermen repatriated. News LK (Sri Lanka) [Online]. 15 March 2017. Available from: http://www.news.lk/news/political-current-affairs/item/16194-group-of-indian-and-sri-lankan-fishermen-repatriated A total of 89 fishermen, seventy seven Indians and twelve Sri Lankans who were held in custody in respective countries for violation of International Maritime Boundary Line and engaged in illegal fishing practices, were released from custody and repatriated to their countries yesterday (14th March).

Why Gender Diversity Matters Aboard Ships. By Captain George Livingstone. gCaptain [Online]. 17 March 2017. Available from: http://gcaptain.com/gender-diversity-matters/ The United Nation's has declared the month of March as International Women's Month so it seemed right to review the subject of women in marine transportation for this column


**SEARCH AND RESCUE**


Nor-Shipping urges action to build Mediterranean search and rescue capacity. *Nor-Shipping* [Online]. 14 March 2017. Available from: [http://nor-shipping.com/urges-action/](http://nor-shipping.com/urges-action/). Nor-Shipping is calling for a concerted international effort to boost search and rescue resources in the Mediterranean, before calmer weather leads to the now distressingly familiar surge in refugee crossings, and fatalities.


NGOs deny Italian lawyer’s accusation of aiding traffickers. By Manasi Gopalakrishnan.
Deutsche Welle (DW) (Germany) [Online]. 28 March 2017. Available from:
An Italian prosecutor said he suspected NGOs operating migrant rescue ships on the Mediterranean of colluding with people smugglers.


IMRF Calls for Dialogue to Discuss Unsubstantiated Claims of Misconduct.


SHIPBUILDING AND SHIPREPAIR


'Spinning sail' rebooted to cut fuel and make ocean tankers greener.
Specialized vessels the focus of newbuildings as owners reluctant to commit funds.
By Nikos Roussanoglou.  Hellenic Shipping News [Online]. 15 March 2017. Available from: http://www.hellenicshippingnews.com/specialized-vessels-the-focus-of-newbuildings-as-owners-reluctant-to-commit-funds/ The norm that has ship owners refraining from brisk newbuilding contracting activity has kept apace over the past week, as shipbroker reports have noted that there were few orders placed, with most of them revolving around more specialized units, rather than the main "bread and butter" segments of the industry, like tankers or bulkers.


Keep close tabs on your newbuildings if you want shipyards to remedy defects. All About Shipping [Online]. 27 March 2017. Available from: http://www.allaboutshipping.co.uk/2017/03/27/keep-close-tabs-on-your-newbuildings-if-you-want-shipyards-to-remedy-defects/ Contractual issues arising from building merchant ships are inevitably "tricky" and give rise to problems requiring solutions.

SHIPPING


European Shipping Week kicks off the 2017 Maritime Year. European Commission [Online]. 27 February 2017. Available from: https://ec.europa.eu/transport/2017-european-shipping-week_en EU Transport Commissioner Violeta Bulc has called 2017 to be the “Maritime Year” to raise awareness for the potential and the challenges of maritime sector and to review EU policy on maritime transport.


IMO 2020 regulation could cost shippers extra US$60 billion a year. Wood Mackenzie [Online]. 28 February 2017. Available from: https://www.woodmac.com/media-centre/12534395 According to a Wood Mackenzie study, global bunker fuel costs could rise by up to US$60 billion annually from 2020, in a full compliance scenario, when the International Maritime Organization's (IMO) 0.5 wt% sulphur cap for bunker fuels kicks in.

Vincent Clerc, Maersk Line’s CCO, announced at the event that the company wants to become “the integrator of global shipping” and embrace digital change.


The International Association of Classification Societies (IACS), in cooperation with the European Commission hosted a workshop on Wednesday on the trends, safety and environmental aspects of cyber systems in shipping.


The twin prospects of increasingly challenging credit conditions and more expensive bunker fuel by 2020 are weighing heavily on today’s shipping industry, officials from the European Community Shipowners' Associations said Tuesday.


The Cayman Maritime 2017 conference is approaching and the Cayman Islands Shipping Registry in collaboration with a steering committee from the private sector, including Cayman Maritime Services Park and law firm Maples, is gearing up for it.


Tankers and other bulk shipping sectors will have to use new energy sources if shipping is to adapt to expected restrictions on carbon emissions, predicted Tristan Smith, a reader at University College London who studies the environmental impacts of shipping.


The paperwork and processes vital to global trade are also one of its biggest burdens.


On March 8, "decision-makers" in the shipping industry will gather in Montréal for the 10th Arctic Shipping Summit. Despite this being only early March, there have been plenty of developments this year for them to go over, not all of them entirely positive.

**Interview: Denis Delestrac (Director of Freightened: The real price of shipping) and Lee Adamson, IMO.** *RT (Russia)* [Online]. 6 March 2017. Available from: https://www.rt.com/shows/going-underground/379565-trump-us-embassy-israel/

We speak to award winning director of Freightened about the real cost of globalization. Then, the UN's International Maritime Organisation weighs in on an industry producing the highest levels of sulfur dioxide emissions in the world. [Interviews begin at 15:00 min. approx.]


Royal Arctic Line vessels to be flagged in Greenland. By Søren Pico. ShippingWatch [Online]. 10 March 2017. Available from: http://shippingwatch.com/secure/carriers/Container/article9421869.ece Royal Arctic Line is planning for a significant part of its fleet to sail under Greenland’s flag going forward instead of the Danish flag, explains CEO Verner Hammeken in an interview with ShippingWatch following the record result from the carrier, published earlier this week.

Why the maritime industry must embrace e-certificates. Splash 24/7 [Online]. 13 March 2017. Available from: http://splash247.com/maritime-industry-must-embrace-e-certificates/ As a result of ongoing commercial challenges in the maritime industry, organisations are turning to technological innovation to reduce costs and gain competitive advantage.

Kongsberg: These are the top four trends in digital shipping. By Louise Vogdrup-Schmidt. ShippingWatch [Online]. 10 March 2017. Available from: http://shippingwatch.com/secure/suppliers/article9422541.ece Digitization and shipping have not naturally gone together until recently, but shipping’s otherwise conservative and largely analogue industry seems to be coming around to its importance and is now slowly incorporating digital solutions across businesses, says CEO Hege Skryseth.
The Alliance last week firmed up the outstanding port decisions, with a few terminal decisions still pending, to finalise its network for the April 1 start.


Gas oil, low sulphur, hybrid fuels, scrubbers, methanol, LNG... which ones will shipping choose by 2020? By Lee Hong Liang. Seatrade Maritime News [Online]. 22 March 2017. Available from: http://www.seatrade-maritime.com/news/asia/gas-oil-low-sulphur-hybrid-fuels-scrubbers-methanol-lng-which-ones-will-shipping-choose-by-2020.html With less than three years away from the IMO Marpol Annex VI global 0.5% fuel sulphur rule, shipowners and operators are increasingly pressed for time to decide on which option they would choose to comply with the emissions reduction regulation.

Shipping confidence holds steady despite industry and political pressures. 


China ban stymies Korea, Miami eyes a Carnival terminal, Copenhagen and Hamburg poised to build. By Tom Peisley. Seatrade Cruise News [Online], 21 March 2017. Available from: http://www.seatrade-cruise.com/news/news-headlines/china-ban-stymies-korea-miami-eyes-a-carnival-terminal-copenhagen-and-hamburg-poised-to-build.html China’s politically motivated suspension of permission for its people to cruise to Korea has cast a shadow over the expansion plans for the main Korean cruise port of Jeju, described by John Tercek, vp new business development, Royal Caribbean Cruises Ltd., as 'the number one cruise port in Asia.'


South Korea's insular maritime world needs a good spring clean. By Terry Macalister. TradeWinds [Online], 23 March 2017. Available from: http://www.tradewindsnews.com/weekly/1230346/south-koreas-insular-maritime-world-needs-a-good-spring-clean The country's shipping and shipbuilding industries have been through a calamitous time and it can only be hoped lessons will be learned on governance and getting in tune with wider international issues.

Liberian Registry Passes Historic 150m Gross Tons Landmark. By A Wilson. Liberian Registry [Online], 22 March 2017. Available from: http://www.liscr.com/blog/liberian-registry-passes-historic-150m-gross-tons-landmark The Liberian Registry has passed the historic milestone of 150 million gross tons, confirming its position as the second largest ship registry in the world, behind only Panama, in terms of numbers of ships and gross tonnage.


Black carbon measurement methods and emission factors from ships. By Dr. Kent Johnson, Dr. Wayne Miller, Dr. Tom Durbin, Yu Jiang, Jiacheng Yang, Dr. George Karavalakis, and Dr. David Cocker. *International Council on Clean Transportation (ICCT)* [Online]. 20 March 2017. Available from: [http://www.theicct.org/black-carbon-measurement-methods-and-emission-factors-from-ships](http://www.theicct.org/black-carbon-measurement-methods-and-emission-factors-from-ships) Black carbon (BC) emissions from ships contribute to human induced climate warming and are linked with human health issues, such as lung cancer, respiratory illness, and cardiopulmonary disease.


Shipping could escape from EU emissions trading, says DNV GL. By Anastassios Adamopoulos. *Lloyd's List* [Online]. 30 March 2017. Available from: [https://www.lloydslist.com/l/sector/regulation/article552851.ece](https://www.lloydslist.com/l/sector/regulation/article552851.ece) Conflicting regulation on shipping emissions may not last for long, as shipping could escape from the European Union’s Emission Trading System and the different monitoring, reporting and verification systems touted by the EU and the International Maritime Organization should harmonise, according to DNV GL director for environment Eirik Nyhus.
RESEARCH

Increase in acidifying water in the western Arctic Ocean. By D. Qi, L. Chen et al. *Nature Climate Change.* [Online]. (2017). Available from: [http://dx.doi.org/10.1038/nclimate3228](http://dx.doi.org/10.1038/nclimate3228) The Arctic Ocean is particularly sensitive to climate change and aragonite is expected to become undersaturated there sooner than in other oceans.

Using early life stages of marine animals to screen the toxicity of priority hazardous and noxious substances. By I. Cunha, T. Torres et al. *Environmental Science and Pollution Research.* [Online]. (2017). Available from: [http://dx.doi.org/10.1007/s11356-017-8663-8](http://dx.doi.org/10.1007/s11356-017-8663-8) This study provides toxicity values for early life stages (ELS) of two phylogenetically distinct marine animal taxa, the sea urchin (Paracentrotus lividus), a deuterostome invertebrate, and the turbot (Scophthalmus maximus), a vertebrate (teleost), when challenged by six hazardous and noxious substances (HNS): aniline, butyl acrylate, m-cresol, cyclohexylbenzene, hexane and trichloroethylene.


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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.