

January/February 2018 Vol 63 No 1



# PORTS & HARBORS

Official Journal of the International Association of Ports and Harbors

## Facilitating free trade

Baku fired up to be Eurasian hub network

## Smoother operator

Single window for port-ship interaction

## Rubbish roundup

Baltimore's personable trash gatherers



# Cash in, commodities out

China pursues Africa's resources

The Global Ports' Forum for Industry Collaboration and Excellence

[www.iaphworldports.org](http://www.iaphworldports.org)



# 14

Africa continues to see investment from China, as the country imports resources to fuel its domestic industry

Photo: Shutterstock

## REGULARS

- Comment:** Susumu Naruse on how ports should consider both sides of the Belt and Road initiative **3**
- News:** US ports pioneer zero-emission plan; COSCO-PSA Terminal raises capacity; APM Terminals shifts its focus; German cargo pressures policymakers; port-to-door services at Italian ports; Chinese investment at Khalifa port **4**
- Open forum:** Dr Taleh Ziyadov on Baku's plans to take centre stage in the emerging 21st century hub network **10**
- Maritime update:** CMA CGM opts for LNG fuel; MOL wins first LNG bulker approval; *Ports and Terminals* handbook updated; EU CO<sub>2</sub> reporting has started; UAE to sit on IMO Council; US gets tough on ballast water failures; UK to retain port of refuge arrangements; Houston fireboat plea **32**
- IAPH info:** Spreading the message more widely, training scholarship, and dates for your diary **38**
- Last word:** Port Klang aims to stand among the top 10 busiest ports in the world **40**

## FEATURES

- FAL Convention:**  
Julian Abril Garcia and Patrick Verhoeven on how updates to the IMO's FAL Convention will facilitate changes **12**
- Cover story: Africa**  
China continues to pursue opportunities in African maritime infrastructure development **14**
- MSC is sending big ships to west African ports **16**
- East Africa is a lynchpin of China's Belt and Road initiative due to its planned logistics network upgrades **18**
- West African ports opt for single-window platforms; a new railway line clouds the future of port freight stations **20**
- Low-sulphur fuel:**  
Significant ship orders point to how the bunkers landscape will develop in the run-up to 2020 **22**
- Automation:**  
The first fully autonomous vessels roll of the production line, transforming efficiency and cost **26**
- The industry is urged to embrace information sharing as one of the best ways to beat cyber criminals **29**
- Mr Trash:**  
Two rubbish gatherers improve water quality at Baltimore's Inner Harbor and become a social media hit **30**





# PORTS & HARBORS

Official Journal of the International Association of Ports and Harbors

## Credit where it's due

The case for emissions reduction incentives

## Stakeholder buy-in

A recipe for successful single windows

## Capacity uplift

India prepares for consumer spending growth



# Time to unite

Kitack Lim calls for closer ties  
between ports and shipping



# 12

Connecting ships, ports, and people was IMO's theme for 2017. To launch the theme, IMO Secretary-General Kitack Lim was shown around the UK's Port of Felixstowe by its CEO and MD of Hutchison Ports Europe, Clemence Cheng

Photo: IMO 5071510

March/April 2018  
ISSUE 2 VOL 63

## REGULARS

- Comment:** The Japanese government is leveraging the successful uplift seen in the country's cruise industry **3**
- News:** Belt up for IAPH in Baku; WPSP to launch in March; Rotterdam plans for digital future; China continues on growth curve **4**
- Open forum:** Pascal Ollivier tells *P&H* why change management is vital in order to achieve a successful maritime single window **10**
- In conversation with:** Kitack Lim and Patrick Verhoeven on the importance of collaboration between shipping, ports, and maritime administrations **12**
- Maritime update:** ESI: scores up, emissions down; Industry sulphur cap concerns rejected at IMO; Rollout of IMO's Polar Code continues with amendments; Ship attacks in Asia rise but serious incidents fall **32**
- IAPH info:** Port Planning and Development Committee talks digitisation; Membership directory published; IAPH's training scholarship opportunity **38**
- Last word:** Henri van der Weide from Port of Amsterdam on his port's sustainability plan and the launch of WPSP **40**

## FEATURES

- South/west Asia and Middle East:**  
Investment in India's port infrastructure is being put in place now for the long-term anticipated growth of the population's spending power **14**
- India's special economic zones need flexible policies and reasonable prices to attract customers **18**
- Ports in Bangladesh, Pakistan, and Sri Lanka have attracted Chinese investment **19**
- The China Bay expansion project aims to shift the region's economy from a manufacturing-driven to a technology-driven one **20**
- India's commitment to Chabahar could make the Iranian port a strong contender for trade dominance in the Gulf of Oman **22**
- Hydrography:** With increasingly large vessels coming into play, accurate bathymetric data can maximise a port's depth to commercial advantage **24**
- Vessel traffic management:** The next generation of VTS technology is designed to further a port's commercial advantage and help ports improve their margins **26**
- Hamburg emissions:** A personal perspective on how the port implemented an environmental component of its port dues structure **29**



# 12



# 14



# 20



# 26



# PORTS & HARBORS

Official Journal of the International Association of Ports and Harbors

## Olympic dreams

Japan prepares for more cruise visitors

## EU tackles port waste

Proposals meet industry criticism

## California greening

Port powers up for all-electric future



# Stage set for sustainability

Queen of Belgium launches WPSP in Antwerp



WPSP  
WORLD PORTS SUSTAINABILITY PROGRAM



# 16

Queen Matilde of Belgium opened the World Ports Sustainability Program, hosted by the Port of Antwerp

Photo: David Pintens 5076528

## REGULARS

- Comment:** The IAPH board is considering synchronising its technical committees activities, writes Susumu Naruse **3**
- News:** Port Houston 'concerned' at Trump's steel import tariff; China adds to ties with Abu Dhabi; Qatar to invest in Sudanese port; Port traffic for inland Europe to see north-south shift; Saudi port expects 60% throughput rise **4**
- Open forum:** Transas' Frank Coles puts emphasis on people and processes when considering new technology **12**
- In conversation with:** Julie Lithgow and Patrick Verhoeven discuss training as an essential component to sustainability **14**
- Maritime update:** London port offers incentives; Shippers fear cost of IMO carbon scheme; US acts on ballast water; Japan funds Alang to improve safety **37**
- IAPH info:** Cruise head to promote WPSP; Ports helped to reduce emissions; Antwerp in your hand **41**
- Last word:** Baku's director general encourages members to discuss hubs and connectivity at the next IAPH event **44**

## FEATURES

- Sustainability:** The World Ports Sustainability Program (WPSP) was launched in Antwerp and is the first step towards a knowledge centre and think tank for sustainability **16**
- IAPH's LNG working group is developing an accreditation tool for LNG bunker facility operators **20**
- Artificial intelligence and the internet of things can offer sustainable solutions **22**
- Brexit:** As the UK prepares to leave the European Union, what are the main challenge's according to the country's ports **24**
- MARPOL:** Industry commentators raise concern over EU waste reception proposals **26**
- Merger:** Ghent and Zeeland reform as a new port in a cross-country merger **28**
- Caspian Sea:** Kazakhstan expects to see an increase in cargo volumes on the Trans-Caspian International Transport Route **29**
- Green solutions:** The case for electric-powered port equipment **30**
- Initial investment:** Electric-powered port equipment will eventually pay off **32**
- Japan:** Cruise is on the agenda for the Japanese government as the 2020 Olympics loom closer **34**
- Mumbai:** The city is hoping to attract cruise ships through incentives and waived charges **36**



# 12



# 16



# 22



# 34



# PORTS & HARBORS

Official Journal of the International Association of Ports and Harbors

## Data-driven decisions

The case for business in Africa

## Blending power

Biofuel's place in shipping's bunker mix

## Debt debate

Belting up for Chinese capital



# On the rebound

Decision time for Australia's ports



# 14

Australia's port industry is in flux as it considers how to best position itself to cater for increasingly large vessels

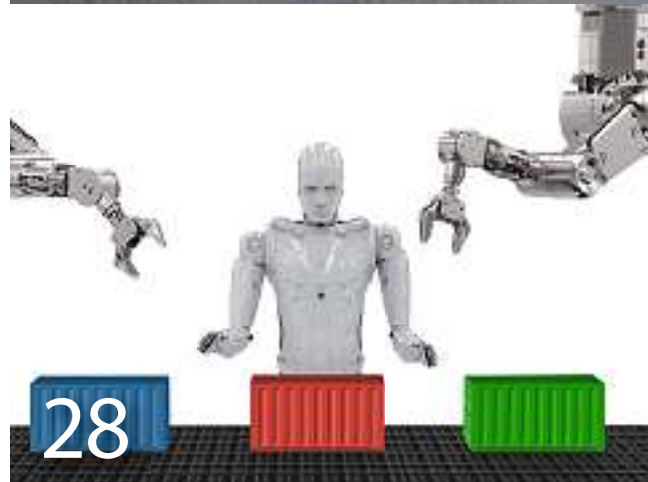
Photo: Shutterstock

## REGULARS

- Comment:** Susumu Naruse reflects on Baku and outlines the realigned focus of the technical committees **3**
- News:** Single windows call for industry engagement; Qatar launches self-sufficiency plan and expands ties with Iran; Port productivity falls as ship sizes grow **4**
- Open forum:** LADOL's CEO, Amy Jedesimi, believes emerging markets will lead the movement towards a sustainable future **10**
- In conversation with:** Patrick Verhoeven and Parag Khanna discuss Belt and Road and Baku's future as a trade hub **12**
- Maritime update:** Draft ban on high-sulphur fuel approved; IMO debates need to modernise itself; Sulphur cap affects more than fuel cost; Hydrogen and methanol to feature in carbon-free fuel mix **32**
- IAPH info:** Highlights of Baku World Ports Conference; Two new vice-presidents of Women's Forum; three new members **36**
- Last word:** Sacha Rougier, new cruise committee chair, believes women should be better self-promoters **40**

## FEATURES

- Cover story: Oceania and southeast Asia**  
Australia: The prospect of bigger ships leaves industry divided over increased competition versus a hub and spoke system **14**
- Indonesia: Shipowners defend their call to restrict key exports to national-flagged vessels **16**
- Singapore: The country positions itself as an international LNG bunkering hub **18**
- LNG cruise:** Cruise lines are turning to LNG as efforts mount to meet the 2020 sulphur cap **20**
- Biofuels:** Small but not insignificant, biofuels will play their part in the new fuel mix **22**
- Rotterdam:** The port is carrying out feasibility studies to support LNG bunkers **24**
- IAPH/ICHCA:** Cyber security is one area where the two industry bodies can collaborate **25**
- Cyber security:** The case for a closed-loop system is clear at Jebel Ali **26**
- Artificial intelligence:** How machine learning can support the fight against cyber crime **28**
- Blockchain:** The new technology is not a panacea for dealing with cyber threats **29**
- Taiwan:** The country's ambitions to act as a wind farm hub are full blown **30**







# PORTS & HARBORS

Official Journal of the International Association of Ports and Harbors

## Boxes' weighty problem

Laws needed to enforce container safety

## Beyond the hype

Port hopes for Hyperloop cargo moves

## Long-sighted view

Drones buzz in for 3D inspection

# Committing to change

Hadiza Bala Usman meets challenges head on





# 10

Nigerian Ports Authority MD Hadiza Bala Usman is keen to eradicate corruption and incorporate new technology to future-proof the port

Photo: Getty Images/AFP

## REGULARS

- Comment:** Recent very hot weather is a reminder to act now on climate change, writes Susumu Naruse **3**
- News:** India rolls out port community system; Californian port aims for zero truck emissions; China to promote LNG as maritime fuel; Taiwanese liner company to invest in ASEAN port infrastructure **4**
- Open forum:** Proper verification of container weights requires national legislation, says Richard Brough **8**
- In conversation with:** Hadiza Bala Usman and Patrick Verhoeven talk about corruption, technology, and standing tall in a historically male-dominated industry **10**
- Maritime update:** ESI builds momentum; LNG working group expands its remit; Busan plans to offer LNG bunkering; MOUs issue sulphur cap warning **32**
- IAPH info:** Meet the WSPS team; Guangzhou conference dates announced; emissions workshops completed; annual report launched **36**
- Last word:** Port of Vancouver's Duncan Wilson explains the importance of corporate social responsibility **40**

## FEATURES

- Infrastructure:** Nigeria is attracting finance to improve efficiency and accessibility at its key ports **12**
- Namibia is readying itself to increase its slice of the growing container throughput being seen in southern Africa **16**
- For Qatar Ports Management Company, environmental relocation was key to the building of Hamad mega port **19**
- North America:** US ports are trying to calculate the potential impact of the latest set of US tariffs **20**
- South Carolina Ports Authority sees Inland Port Dillon as another way to gain competitive advantage **22**
- Vancouver in Canada is investing for future growth **23**
- Dredging:** The US is dredging in creative campaigns that help waterways while protecting natural environments **24**
- Completion of four-year river deepening project enables more heavily loaded vessels to call at Rouen's terminals **26**
- Hyperloop:** Elon Musk's Hyperloop transport technology could rewrite the traditional port transport infrastructure model **28**
- Drones:** Ports are waking up to the benefits drones can bring to crane surveys, jetty inspections, and planning reconstruction work **30**



# 12



# 16



# 20



# 28



# PORTS & HARBORS

Official Journal of the International Association of Ports and Harbors

## Managing traffic

Ports in position for 'Pronto' turnarounds

## Enabling access

Seafarers' Trust shores up downtime

## Poised to reduce noise

Projects to protect communities and wildlife

# The Panama effect

South American ports see growth



# 12

Panama hats stacked high. The Panama Canal expansion has forced ports in Chile and Peru to cater to larger vessels amidst a backdrop of increased throughput

Photo: Shutterstock

## REGULARS

- Comment:** Secretary general is wary that escalating trade disputes could set back economic recovery **3**
- News:** Overcapacity felt by Caribbean ports; Singapore explores maritime 3D printing; US ports viewed as offshore wind hubs **4**
- Open forum:** Katie Higginbottom calls on all ports to help facilitate shore access to seafarers of all nationalities **8**
- In conversation with:** Guy Platten and Patrick Verhoeven discuss the importance of trade to a sustainable future **10**
- Maritime update:** Top ports urge shipping to deliver on Paris Agreement; Shipping CEOs back IMO's carbon strategy; Stena and Scorpio opt for scrubbers **32**
- IAPH info:** Next IAPH regional meeting to be held in Kobe, Japan; IAPH forms IMO ports roundtable; GloMEEP presents free emissions toolkits; WPSP updates **36**
- Last word:** Hiromu Yabuuchi, director-general of Port of Osaka, considers the future challenges and opportunities facing his big city port **40**

## FEATURES

- South and central America:** Ports in Peru and Chile have responded to the requirements of bigger ships following Panama Canal expansion **12**
- APM Terminals' interests in South and Central America are driven by an increase in local consumption **15**
- The Jones Act's role in providing relief to hurricane stricken Puerto Rico **16**
- Sustainability:** Pioneering ports have put noise pollution high on their agendas and are collaborating to help reduce the effects on communities and wildlife **18**
- Technical and economical restraints are reigning in the possibilities for onshore power **26**
- US rivers ports:** Expansion projects planned and under way see federal funding **28**
- Port of Banana:** The DRC port developed by DP World to handle the country's natural resource exports **30**



# 12



# 16



# 18



# 28