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Baltic transport 2018 highlights

Focus
Onshore power supply

Economy
Globalization undergoes a makeover

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Dear Readers,



Welcome to 2019! What will this year bring about? I'm no fortune teller, but my right-of-the-bat-answer would be: probably the same 2018 did, but with a tweak here and there. Obviously, digitalisation will continue to spread all over the place. As such, some leading tech-vendors have a gut feeling that many players from the transport & logistics industry have been for the past months gearing towards making a leap into the tech-enriched future, whatever shape it takes in the particular instances – the Internet of Things, Artificial Intelligence, machine learning, big data, blockchain, etc. You know the names; they already enjoy the dictionaries' hospitality but more importantly that of our publications.

As you are already perfectly aware, we strive to strike a neat balance between the new and the old, at the same time keeping our finger on the pulse of the present, reporting on what's munchin' in the industry the most. So, 2019's first issue zeros in on, among many, the main features of what the Boston Consulting Group calls "new globalisation;" trends that will have the biggest effect on logistics this year (and beyond); and what we can learn from Viking's longships when sorting out what kind of next-gen software will suit our needs the best (they were some clever guys, those bearded axe-bearers, indeed!).



Jean-François de Troy – An Allegory of Time Unveiling Truth; photo: Wikimedia Commons

Concerning the past, there's, of course, the more than informative Collector's corner, reminding us why postal parcels had to be thrown out of a speeding train; the Heritage corner, which, in turn, recalls the merits of the ferry business in familiarising people from the Nordic region with great culinary delights; an article on the EMMA project and its efforts to promote a greater use of inland waterways in the supply chain; and, finally, something without which this edition couldn't possibly

call itself the Baltic Transport Journal, namely the round-up of the most important transport & logistics events that left their mark on the region in 2018. The Baltic Sea region has once again the reasons to be proud of itself, driving the industry in the right direction – internally, Europe-wide, and globally. #balticpride

And lastly, the present times. Three words here: onshore power supply. The Focus column houses two pieces on cold ironing, including one on a very insightful seminar that took place in mid-January in Oslo, and which could be summarised by quoting one of the participants, "Sustainability is not a cost of doing business – it is the way of doing business." On the flip side, three other words can be used to cast another, this time sinister perspective on the freight forwarding business: global cargo theft. The read in the Legal column, with some digital extras in it, has all the details, including what needs to be carefully considered in order to stay on the safe side, cargo- and morality-wise.

To end on a high note, thanks to the Transport miscellany you'll get immersed in the modern operas' love of ships, most recently steel ones, even if it's Julius Caesar who's on-board. Ave! Have a great read!

Przemysław Myszka

Baltic Transport Journal

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BTJ 1/2019 (January/ February)

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GreenTech in Shipping 2019, 26-27 February 2019, BE/Antwerp, www.greentechshipping.com

Which latest green technologies can contribute best to achieving the determined goals? Has enough been done to create a sustainable shipping market? Which fuels should the sector turn to, in order to drive the most effective economic and environmental outcome? There are numerous issues that call for decisions and collaborative thinking, therefore, events like GreenTech in Shipping contribute to the sector by providing an opportunity for all stakeholders to meet and discuss industry outlook, look for ways to cooperate and find solutions to most urgent issues as well as exchange good practices. At the Forum you will find out from the regulators, government bodies and major ports' representatives what the near future holds for ship builders and operators as well as learn about latest innovations and modern technologies from top technology developers. So, don't miss the chance to keep your business up to date with the latest news and technological innovations in the maritime sector.

**Transport Week 2019, 5-7 March 2018, PL/Gdynia, www.transportweek.eu**

Transport Week 2019 is the ninth edition of our flagship transport & logistics conference. Widely recognized as the best possible start to your business year, it regularly gathers the crème de la crème of this highly dynamic industry. Each year the event gathers hundreds of highly engaged participants from a variety of industries, among them port and terminal authorities, rail and logistic operators, forwarders, shipping lines representatives, consulting companies, government officials and policymakers. For eight years straight, Transport Week has been the focal point of all discussions related to the transport and logistics sector in Central Europe.

**4th European Dredging Summit, 6-7 March 2019, NL/Rotterdam, www.wplgroup.com/aci/mdre4-mktg-agenda**

The world in which dredging industry operates, is rapidly changing. Climate changes, regulations, technological innovations and global trade developments with emphasis on sustainability have significant impact on dredging. We are also witnessing on the client demands and with these in the role of dredging contractors. Where will the effect be felt the most and what business strategies do we see emerging dredging industry in future?

**LNG Bunkering Europe Training Course, 19-21.03.2019, LT/Klaipėda**

Accredited by IMarEST, this comprehensive 3-day course will provide theoretical and practical information on all the aspects of LNG bunkering plus a chance to visit the Klaipėda small scale LNG terminal operated by Klaipėdos Nafta. This course is not only designed for those with a great deal of knowledge, but also for those professionals at the start of their career, those who want a refresher or simply have changed their level of responsibility.

**Ferry Shipping Summit 2019, 20-21 March 2019, NL/Amsterdam, www.ferryshippingsummit.com**

The Ferry Shipping Summit is a new and exciting ferry shipping conference concept that is committed to meeting the needs of today's time pressured industry leaders. The event is being organised by a team of knowledgeable Ferry Industry Experts with many years of commercial and operational experience at executive level within the Ferry operating and ferry port industry.

**RailTech Europe, 26-28 March 2019, NL/Utrecht, events.railtech.com/europe2019**

RailTech Europe 2019 offers a large exhibition, three day high-level international conference programme, a large workshop programme, career matchmaking between exhibitors and visitors, Startup Fest, live (on-track) infrastructure demonstrations, train maintenance and rolling stock, exclusive technical visits and many other new features.

**Freight & Terminal Forum, 26-28 March 2019, NL/Utrecht, www.events.railfreight.com/freight-terminal-forum-2019**

The first edition of the Freight & Terminal Forum will take place on 26-28 March 2019 in Jaarbeurs Utrecht, the Netherlands. The rail freight industry is growing and so are business opportunities. By organising the Freight & Terminal Forum, we contribute to the knowledge exchange in the sector and create networking opportunities.

**SIFER 2019, 26-28 March 2019, FR/Lille, www.sifer2019.com**

SIFER is the must-attend international event for stakeholders from across all sectors of the railway industry. SIFER provides industry professionals with a unique opportunity to keep track of market trends, meet face-to-face, exchange ideas, explore new avenues for business. More than 371 businesses have already confirmed their presence.



BTJ 2/2019 (March/April)

Report: Baltic port market in 2018 | Focus: Cruise market in 2018

Connected Vehicle and HMI 2019, 8-9 April 2019, DE/Berlin, www.szwgroup.com/connected-vehicle-and-hmi-2019

Auto industry is facing a big subversion. Autonomous car, smart mobility, NEV even more is shaping the future of urban moves. Now main OEMs are pushing connectivity over the world, under this context, the event will discuss the progress of connected vehicle especially the smart interior: analyzing new generation UX, advanced design tool HMI, and emerging AI tech applications. Welcome to join this advanced, creative and practical event to exploring advanced technologies & practical approaches to connected vehicle and OEMs' applications in Europe. Let us witness the new lifecycle and ecosystem changes!

**5th International LNG Congress, 29-30 April 2019, MT/Malta, Ingcongress.com**

Co-hosted with ElectroGas Malta, the Congress provides business program, focus exhibition and a technical visit to Delimara LNG Terminal. Closed-door format ensures that only selected decision-makers attend the Congress to speak, network and set new partnerships. Delegates of the Congress will be representing Gas Majors, EPCs, Ports, Port Authorities, Canals, Fleet Owners, Terminal operators and others.

**AntwerpXL, 7-9 May 2019, BE/Antwerp, www.easyfairs.com/antwerp-xl-2019/antwerp-xl-2019**

AntwerpXL is set to be the ultimate event for the breakbulk sector, and will take place in the newly refurbished Antwerp Expo Centre from 7-9 May 2019. Supported by the Port of Antwerp, the largest breakbulk port in Europe, and the Antwerp Shipping Federation, this inaugural event will take place at the heart of the European breakbulk community. The three-day conference and exhibition provides an ideal platform for cargo owners and specialised transportation professionals from across the globe to meet, conduct business, learn and network. AntwerpXL is organised by Easyfairs, who run over 220 exhibitions globally and have extensive experience within the manufacturing, oil & gas, cargo, maritime, transport & logistics industries.

**ESPO Conference, 23-24 May 2019, IT/Livorno, www.espo.be/events#espo-conference-2**

Every year, one of ESPO's member ports hosts the annual conference. Following 15th successful editions, ESPO's annual conference has become a meeting point for European port industry and transport policy makers. The conference features very high quality speakers, allows for open debates on topics that are high on the ports' agenda and includes multiple networking events in beautiful settings. It is a unique opportunity for industry, stakeholders and European political scene to meet, discuss and learn from each other. The 16th edition of ESPO's annual conference is going to take place in Livorno on 23-24 May.

**Posidonia Sea Tourism Forum, 28-29 May 2019, GR/Athens, www.posidoniaseatourism.com**

The Posidonia Sea Tourism Forum is a biennial international Conference and Exhibition that addresses the hottest issues of sea tourism in the East Med region. With the active involvement of CLIA Europe, MedCruise and cruise lines operating in the Mediterranean, the Posidonia Sea Tourism Forum has become the most important business platform for stakeholders in the East Med.



Baltic transport 2018 highlights

Steady as the region goes



Photo: Rolls-Royce Marine

by Przemysław Myszka

It was yet another peaceful year across the Baltic Sea region. No SECA-like regulations, trade wars, rampant spikes in the price of bunkers, or racking disputes between trade unions and terminal operators, just good ol' transport and logistics. The following set of events that stood out in 2018 comprises both internal affairs, very much like the list of highlights from 2017, and happenings transcending regional borders, just as was the case two years ago. How these two mix together is most probably best illustrated by the fact that the world's first autonomous ferry operations took place in the Baltic. However, like last year, we've also decided to distinguish not so much a standalone event but rather a trend that has been gaining momentum in the region for a few years now, namely the setup of a robust supply chain for delivering liquefied natural gas (LNG), and lately also liquefied biogas (LBG), onto the market, not only to cater to the needs of the maritime industry but also for use in the production of... toilet tissues!

Others talk, the Baltic walks – or how to break path for autonomous shipping in just under one year's time

It was all set in motion at the beginning of 2018 when **Rolls-Royce** (R-R) opened a research facility in the Finnish **Turku**, tasked with developing the technologies required “[...] to shape the future of an increasingly autonomous global shipping industry,” the company's press release read in a somewhat mysterious tone at the time of the official opening. In detail, the **Research & Development Centre for Autonomous Ships** was established to execute

projects focused on autonomous navigation, the development of land-based control centres, and the use of Artificial Intelligence (AI) in future remote and autonomous shipping operations. From the very start it also included the so-called **Remote and Autonomous Experience Space**, a unit specifically designated to showcase the autonomous ship technologies R-R has introduced to date, along with those under development. **Mikael Mäkinen**, **President**,

Rolls-Royce Marine, commented on the occasion, “I'm proud to say that the R&D centre is now up and running and that all stakeholders, partners and customers will be able to see here what a remote controlled and autonomous maritime future could look like, and work with us to shape the future. The experience space that is part of the centre here in Turku, and a similar one we have in our Technology Centre in Norway, is aimed at demonstrating

Onshore power supply

Transforming ports into sustainable transportation hubs with shore-to-ship power

Green and smart

by Roberto Bernacchi, *Shore-to-ship power & Smart Ports Global Product Manager, Power Grids – Grid & Power Quality Solutions, ABB SpA*

Photos: ABB

Speeding up decarbonisation in the transportation sector is crucial to reach the challenging global warming targets set in the Paris Agreement. Electrification of shipping, passenger and freight traffic alike, will be instrumental in achieving that ambitious goal. At the same time, shutting down fossil fuel-run auxiliary engines during ship port calls in exchange for drawing energy from the electricity grid will improve air quality in urban settings.

When it comes to the shipping sector, the first zero-emission vessels serving short sea routes are already a fact of life. Because high capacity, heavy-duty batteries can be now easily charged during even fairly short stopovers, many shipowners are implementing battery driven hybrid technologies to enhance the energy efficiency of their fleets, hence decrease the environmental footprint. Ports are doing the same on land. While air quality was “only” ranked as the 6th most important environmental priority in the 2004 edition of the European Sea Ports Organisation’s *Environmental Report*, it topped the ports’ agenda in 2013

and over the 2016-2018 period (similarly, noise was the main concern in 2009, it ranked 4th in 2013 and 3rd in 2016-2018).

As a natural consequence, the road to zero-emission terminals is now paved. Integrating traditional consumers (like cranes running on electricity, lighting systems, and buildings) with newcomers (such as e-mobility solutions including electric trucks, vehicles, and vessels) into the port electrical grid is clearly the way to go. In addition, both can tap into the clean energy revolution thanks to which more and more electricity is produced from renewable sources of energy. It’s a win-win situation (Figs. 1-2).

Smart means tailored

Looking at the new solutions that can substantially reduce greenhouse gas emissions (GHG), as well as noise and vibrations in port areas, shore-to-ship power (S2SP) plays a fundamental role. As a matter of fact, such systems allow vessels to plug into the onshore power supply and shut down their auxiliary engines while berthed (Fig. 3). As such, ship’s power load is seamlessly

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