



International Windship Association Quarterly Newsletter – Summary – July 2019 Secretary's Message

We started the latest period with IWSA being recognised as 'Initiative of the Year' at the Green4Sea Awards and that was followed by a string of well attended events on the Canada/US tour in April. May saw our AGM and the Natural Propulsion Seminar hosted by Engie in Paris and thanks to MARIN for organising that event. We welcomed Charlie Bogue (Wind+Wing Technologies, USA) and Nicolas Abiven (Chantiers de l'Atlantique – France) as new Executive Committee members.

We have added a number of leading companies to our membership this quarter, including ship owner and operator Louis Dreyfus Armateur Group and Bureau Veritas, the first classification society to join us. We have also seen a number of other firsts since the last newsletter, among these, Airseas clinched the largest wind-assist technology contract with Japanese shipping line, K-line, with an option for up to 50 kite systems. Norsepower secured HSQE certification for its rotorsails from Lloyd's Register and Neoline signed an LOI for the building of two 136m primary wind propulsion RoRo vessels to start in late 2019 for delivery in 2021.

This pace of development is set to continue and likely intensify further in the second half of the year. IWSA will be supporting this with a string of activities including a prestigious Wind Propulsion Conference in collaboration with the Royal Institution of Naval Architects at their London HQ 15-16th October, a series of Asian & US events and meetings over the course of the autumn and the launch of our Technology Readiness Level Awards. We will also be active in the MARIN & ABS led WiSP joint industry project, which is looking to improve performance prediction and overcome regulatory barriers and a UCL initiated research project 'Decarbonising UK Freight', involving 11 leading UK universities and 30+ industry partners. Other collaborative projects will be announced in the coming months and we will continue to help build on the momentum building for the development and installation of commercial wind propulsion solutions.

Gavin Allwright

IWSA Secretary

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[Green4Sea Awards – Initiative of the Year](#)

Interview: [Green4Sea Awards - Wind Propulsion is an Attractive Solution Towards Decarbonisation](#)

Newsletter Sections

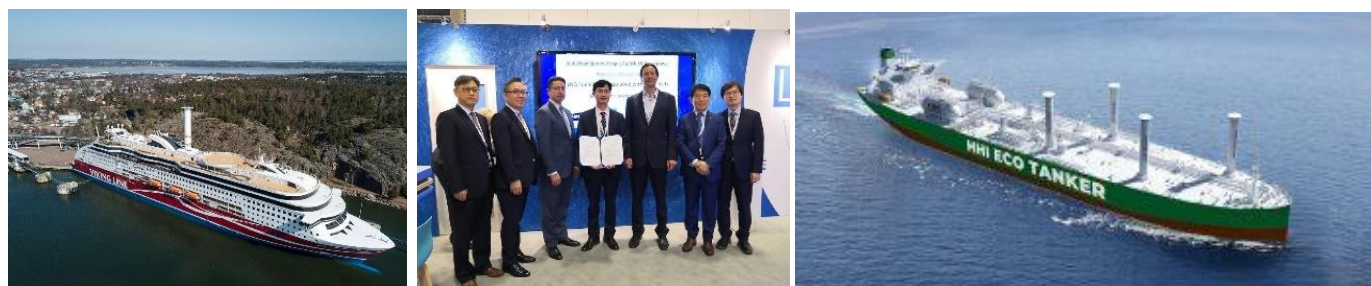
1. Secretary's Message
 2. Project Updates & Wind Propulsion Developments
 3. New Members & Registered Supporters
 4. IWSA News, Announcements & Upcoming Events
 5. Other Upcoming Events & Conferences (Official Supporter)
 6. Recent Articles, Interviews & Reports on Wind Propulsion
-

Project Updates & Wind Propulsion Developments



Airseas (France) - The Japanese shipping line, Kawasaki Kisen Kaisha Line 'K-line' and **Airseas** announced a large order option for Airseas wind kite propulsion systems at Nor-Shipping in June, with the option on up to 50 kites. Testing of the first installation will start in the next year. Congratulations to Airseas for securing the largest single order for wind-assist technology to date. [Download Airseas Press Release](#)

Airseas, an Airbus spin off, has also been joined as members of IWSA by Louis Dreyfus Armateur, the shipping company that runs over 100 vessels and services much of Airbus logistics, is permanently installing one of the kite systems on board the 21,500 ton MV Ville de Bordeaux from 2020 onwards, this RoRo cargo vessel is dedicated to the transport of Airbus parts around Europe. [More Information](#)



Norsepower (Finland) - Norsepower has recently released results of the [Viking Grace performance measurements](#) and also the dual announcement at NorShipping of LR approval in principle for VLCC designs featuring Norsepower rotors sails. [Hyundai Heavy Industries](#) and [Samsung Heavy Industries](#).

The company has also recently joined the [Green Ship for the Future](#) organization. In April, they also received the [International Quality, Environmental and Occupational Health and Safety Certification](#) from LR. [Further News](#)



eConowind (Netherlands) - eConowind recently completed their test-trial of the Ventifoil unit on the MV Lady Christina, which is now sailing fully automated. VTAS (<https://fuel-efficient-shiping.com>) installed monitoring equipment on board to collect independently verified data for the next voyages. The eConowind unit gave forward thrust up to 25 degrees into the wind, so it is sailing very sharply into the wind.

The company is moving ahead with commercial installations, signing their first contract to install units on the MV Carolina and has started production of the first 16m retrofit units. eConowind are in contact with 3 funding-groups, which will give an enormous boost to the affordability of wind assistance. The recently sea trialled Ventifoil unit attracted a lot of interest on display outside the Rotterdam Electric Hybrid Show in June.

These developments have also led to an innovation award nomination and Conoship International has been selected with it's eConowind-unit. [Download: Award Nomination Information](#) For more information: www.econowind.nl



neopolia



Neoline (France) - Neoline announced the letter of intent of order by NEOLINE to Neopolia SAS for the construction in St Nazaire (France) of its first two 136m sailing cargo ships. This decision follows the international call for tenders launched in 2018 by NEOLINE to some fifteen shipyards. The construction of the first ship is scheduled to start at the end of 2019, with a launch scheduled for the end of 2021. [Download press release in PDF](#) [Neoline Visuals](#)

[Neoline](#) is developing a new transport service based on the operation of innovative ro-ro sailing vessels, saving 80% to 90% of consumption and the associated carbon footprint. Scheduled to start up in 2021, the first line will connect Saint-Nazaire to the American east coast and Saint-Pierre & Miquelon. Neopolia S.A.S. is a company created by the Neopolia network, whose purpose is to federate and develop work together 235 companies on major industrial projects to ensure the development of industrial sectors through its market clusters within the Pays de la Loire Region. Neopolia S.A.S. offers collaborative, innovative and sustainable solutions that create value for members and the territory, but also for customers. With the support of key players such as [Groupe Renault](#), [Manitou Group](#) and [Groupe Beneteau](#), who have validated the logistical and economic relevance of the new service for the region's manufacturers.



MariGREEN (Germany) - **DOWNLOAD:** English version of the summary report from "Fehn Pollux" sea trials and the first operational phase under service conditions. [FehnPollux – Summary Report](#) Source: Ship&Offshore | Greentech 2019. The development of the Eco-Flettner rotor and the voyage optimization system have been funded by the MariGREEN project under the INTERREG framework of the EU. www.mariko-leer.de



bound4blue (Spain) has recently closed an additional agreement with Naviera Murueta to install its wind-assisted propulsion system onto a cargo vessel in 2020. Their wingsail has received the Movin'On award by Michelin Foundation, recognized as the solution that will redefine the future of sustainable shipping. The Naumon vessel (in the graphic) has arrived at Astander Shipyard and is getting ready to receive a 20-meter wingsail (co-funded by the European Union). The vessel will start its world-wide tour in September. Cristina Aleixendri (COO) [interview by SMM](#) www.bound4blue.com



Chantiers De L'Atlantique is completing its successful trial session of SOLID SAIL started October 2018 onboard Le Ponant. In parallel, the development program is going on to introduce lessons learnt in the frame of this one year full test at real scale of SOLID SAIL and a platform test will be installed in September in Chantiers de l'Atlantique to finalize the development and show the product to the community, including ship owners, engineering offices and naval architects.

To ensure access to the best composite solutions for SOLID SAIL, Chantiers de l'Atlantique signed a license agreement for SOLID SAIL solutions with MULTIPLAST who became the maker under license of the SOLID SAIL technology developed by Chantiers de l'Atlantique. Both Chantiers de l'Atlantique and MULTIPLAST work together to offer the best manufactured SOLID SAIL to the growing market of large sailing ships. [More information](#)



Voyage Vert (UK) has been gaining momentum over the last 6 months, now operating a [Swan 47'](#) vessel that departed San Francisco late last year en-route (via NZ) back to the UK where the vessel completed it's survey and charter in April. As a dedicated passenger carrier with the design for an 20knot average and 40knot capable 110m, wave piercing trimaran holding a lot of appeal to the environmentally conscious traveler, and their design, in alliance with [Steller Yachts](#), has discerning guests traveling in a comfortable interior environment with ergonomic design at the top of the agenda. High profile and voluminous uptake of the research phase sail powered Ocean crossings leads them to believe it will not be long before beginning the planned ship development phase with Southampton University and Nigel Irens. www.voyagevert.org



Timbercoast (Germany) - Voyage 4 - The AVONTUUR covered over 15,500 nautical miles in nine months almost exclusively by wind power. On July 6th, the crew and more than 100 volunteers unloaded the precious goods from overseas traditionally by hand in the best event of the year at the Hafenumuseum Hamburg on the quay in Bremen. AVONTUUR products including rum agricole from Madeira, organic Merlot from Bordeaux, Sailed Korn in Chateaux Margeaux barrels, Sea Salt and organically certified Mexican Coffee. www.timbercoast.com



SV Lo Entropy – this sail cargo vessel is currently undergoing a refit and is part of the EU Interreg Dualports project to develop a North Sea sail cargo network. They will be transporting c.50 ton of cargo on a regular cross channel route with extremely low emissions & the project is currently opening a new finance round. [More details](#)



Joint Industry Project - [WiSP Kick Off Meeting](#) – IWSA is participating in the MARIN & ABS led joint industry project, working as an advisor, networking and dissemination activities. The objective of the JIP is to overcome barriers to wind-assisted propulsion uptake, specifically:

- Improve methods for transparent performance prediction
- Use the improved methods to provide ship owners/operators with fast low-cost predictions for their fleet
- Review the regulatory perspective including status of rules and regulations, identify gaps and make recommendations, and provide examples on establishing compliance.



Green4Sea AWARDS – Delighted to announce that IWSA and our membership won the prestigious [Green4Sea Awards – Initiative of the Year](#). There was a warm reception at the awards ceremony and during the Green4Sea conference for wind propulsion technology developments in Piraeus, Greece.



Green4Sea AWARDS - Blue Planet Shipping Ltd, the operator of the MV Afros, 64,000 dwt bulker, which has four [Anemol Marine Technology](#) Rotors installed won the Dry Bulk Operator Award too – a big night for wind propulsion.

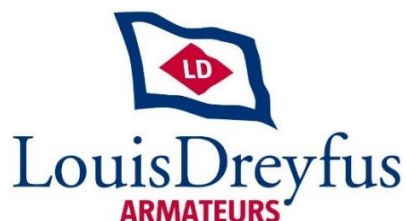


UCL Energy Institute has recently released the [Poseidon Principles](#) (Green Ship Finance) and [Decarbonisation Infographics](#). UCL is also lead on the '**Decarbonising the UK's Freight**' network aiming to collect and distil current knowledge + identify and de-risk the key remaining research challenges that can unleash significant freight-decarbonisation targeted investment and guide enabling policy. IWSA will be working with 40 partners (11 universities and 30+ industry partners), prioritising research to enable the energy/propulsion switch across road, rail, sea & air freight modes.

New Members & Registered Supporters



New Member - [Bureau Veritas](#) --- BV is a world leader in laboratory testing, inspection and certification (TIC) services. It is the largest TIC serving the marine and offshore industries, providing classification, certification and technical services – including fuel testing. A key focus area for BV is supporting safety and new technology including wind powered or wind assisted shipping. [Download - Press Release](#)



New Member – [Louis Dreyfus Armateur](#) --- Louis Dreyfus Armateur is an innovative shipowner offering tailor-made maritime solutions with high added value activities and integrated services, ranging from ship design to maritime operations for industrial marine solutions and transport & logistics of dry bulk commodities. They are on a permanent quest for reducing gas emissions and CO2 footprint together with its customer AIRBUS and will be deploying AIRSEAS kite systems onboard their vessels in the future. [Download Press Release](#)



New Member – [ARYO](#) --- AYRO is a young start-up based in Paris, spin-off of VPLP design, world-renowned naval architecture firm. With the intellectual property of the Oceanwings® concept, it aims at promoting this wind propulsion solution through services and studies related to the system.



New Member – [EcoClipper](#) --- EcoClipper is a specialist shipping company, that focuses on developing and launching a line of emission-free, square-rigged, sailing cargo ships.



New Member (Upgrade to Full Member) – [SailCargo Inc](#) --- The company mission is to direct the global maritime shipping industry towards carbon neutrality. They will build & operate a combustion-free cargo sailing vessel by synthesizing old-world ship building techniques with avant-garde energy & propulsion design. The ship, *Ceiba*, will sail the Pacific Ocean.



New Associate Member – INHA Technology College (South Korea) Dr June Lee, [INHA Technology College](#)



New Registered Supporter - [Center for Post Carbon Logistics \(USA\)](#) --- Providing the pragmatic means to survive the decades ahead and to provide the tools to transition to a more resilient, equitable, and sustainable world. The Center will do so by providing individuals and communities with no-nonsense methods of transitioning away from the use of fossil fuels for transporting goods and passengers. The Center will research and assist in the implementation of appropriate or Slow Technology needed to respond to the inevitable equity, economic, ecological, and energy crises of the 21st century.

IWSA News, Announcements & Upcoming Events

IWSA Asia Autumn Tour 2019 --- Sep- Oct 2019

On the back of the very successful US/Canada tour in the spring, we are planning a similar series of events throughout Asia (and some follow-up US/Canada events too).

CHINA - 5 Sept 2019 – [SSSRI-MARIN Seminar](#) - spotlight on Smart shipping and Green propulsion. Expert presentations from the industry, SSSRI and MARIN - Shanghai - IWSA will chair the seminar & present.

CHINA - IMO - [MTCC Asia](#) – briefing seminar (date – 02-03 Sept)

KOREA – [KIREC 2019](#) - 24 Oct (Seoul) – IWSA wind propulsion presentation (+ proposed IWSA side event)

KOREA - [KORMARINE](#) Maritime Conference 22-25 Oct (Busan) – IWSA attending + proposed presentation)

JAPAN – Series of IWSA wind propulsion events/seminars – Schedule under development [TBD]

Additional - **SINGAPORE** – proposed IWSA seminar, if dates can be arranged [TBD]

These will be supplemented by Chamber of Shipping, Ministry of Transport & Media briefings and various other stakeholder meetings for the development of the IWSA Asia hub.



US & Canada Events: 4-5 days – [ShippingInsight Conference](#) 15-17 Oct – IWSA booth & presentation. (Supporting Organisation) + Montreal seminar 18 Oct (TBD)+ Vancouver meetings 20/21 Oct (TBD)

Sponsorship Opportunities – contact IWSA Secretary secretary@wind-ship.org



[RINA & IWSA Wind Propulsion 2019 Conference](#) --- 15-16 October 2019, RINA HQ, London, UK

The current use of alternative fuels and renewable energy sources within the shipping industry is still relatively scarce. Growing environmental legislation and concerns are driving the need to develop and apply innovative alternative power and propulsion technology for ships.

Now, industry players are increasingly putting a modern spin on one of the oldest concepts in shipping: harnessing the power of wind for ship propulsion. <<SAVE THE DATE>>

Sponsorship Opportunities – contact IWSA Secretary secretary@wind-ship.org



Blueweek – Natural Propulsion Seminar – Another successful seminar with over 100 attendees and a big thank you to MARIN for organising the event and ENGIE for hosting that and for allowing us to hold our AGM at the same venue. As in past years the NPS showcases new designs and developments in natural propulsion technologies and we have a significant emphasis on wind propulsion.

Presentations this year from Airseas, Anemoui Marine Technologies, Autonaut, Blue Technology, Crain Technologies, Energy Observer, MARIN, Mathis Ruhl NA, Neoline, T&E, TU Delft & Zephir et Boree. [Download – Presentations](#)



International Wind Propulsion Hubs - continued development:

IWSA Europe – Atlantic: increasingly active group based in Nantes. Over 30 companies are already working together within the hub with many additional companies, organisations, researchers and supporting groups engaging at various levels with these activities. Recently the hub engaged in a successful series of promotion activities at [Mer XXL](#) 29 June-10 July.



IWSA Europe - North Sea & Baltic: Kick off meeting held at AGM in May – initial steering group formed to work on stakeholder analysis and decision to take on Technology Readiness Level Awards as a hub led project.

IWSA North America: Multiple stakeholder meetings held in Mar/Apr

IWSA Asia: Initial stakeholder meetings to be held in September/October.

IWSA Oceania/Pacific: discussions are underway, announcement pending.



New IWSA Brochure: We produced a new 24-page colour IWSA brochure – feat. 8 pages of general wind propulsion information & IWSA activity information + membership directory & advert space. Initial 1000+ print run & pdf version. Advert space available (every 6 months) + inserts for pamphlets. [Contact](#)



Awards Program: Technology Readiness Level (TRL) Award Program for wind propulsion tech providers will be launched this year. Each designated level will be certified by transparent 3rd party assessment criteria + approved by expert panel. In addition, a small number of voting Awards will be run for research & contributions to the development of wind propulsion, etc. *Interested in getting involved?* [Contact](#)



Short Film: Professionally produced 3-5 min film with the goal of introducing wind propulsion tech and developments to the logistics and shipping industry, but also to the general public. Include: need for change, wind propulsion can deliver, tech, barriers/drivers etc. *Interested to help fund this project?* [Contact](#)



Small Vessel Publication: A 50+ page pdf report on the small cargo sail vessel sector, available technologies, economic/business plans, routes & cargos. Small vessel project profiles, updates + expert input. *Sponsors & contributors – interested?* [Contact](#)

Other Upcoming Events & Conferences

September



Electric & Hybrid Propulsion Seminar 25-26 September, London (IWSA Official Supporting Organisation) – IWSA wind propulsion presentation & panel.

October

SAFETY4SEA

SAFETY4SEA Athens Forum, 2 Oct 2019 - <https://events.safety4sea.com/2019-safety4sea-athens-forum/> (IWSA Official Supporting Organisation)

SAFETY4SEA

SAFETY4SEA Hamburg Forum, 8 Oct 2019 - <https://events.safety4sea.com/2019-safety4sea-hamburg-forum/> (IWSA Official Supporting Organisation)



VPO Singapore, 9 October 2019 - Join the Asia Maritime Community at the VPO Singapore Forum where we will provide a tactical approach to vessel performance, with practical discussion and an overall holistic approach to ship design and operations. Industry leaders will investigate regulations, innovations and best practices for vessel performance in design, equipment and operations. Free Attendance for Shipowners/builders and managers #vposingapore IWSA 30% discount



15th GreenPort Cruise & Congress hosted by The Port of Oslo 16-18 Oct 2019 (IWSA Official Supporting Organisation - IWSA member discount code: memdiscgpc) 200+ decision makers from the port community - port authorities, terminal operators, shipping lines, logistics operators. The conference will cover a range of themes including high tech green solutions, multimodal supply chains, zero emissions solutions for ports, terminals and cities, increasing efficiency and cutting costs.



VPO Copenhagen 22 Oct 2019 - Hear from technical experts and shipowners talking about the design of a ship, hull shape, propulsion systems, onboard communications, route optimisation and navigation software, maintenance, new and existing fuel types, environmental technology and drydocking procedures that are just some of the variables that will have a significant impact on a vessel's energy efficiency, fuel consumption and overall cost of operation. #vpcopenhagen IWSA 30% discount

November



Future Fuels for Shipping Seminar 5-6 Nov 2019 at IMO HQ, London (IWSA Official Supporting Organisation) – IWSA wind propulsion presentation/panel discussion.

SAFETY4SEA

SAFETY4SEA Manila Forum, 12 Nov 2019 - (IWSA Official Supporting Organisation) <https://events.safety4sea.com/safety4sea-manila-forum/>

SAFETY4SEA

SAFETY4SEA Singapore Forum, 14 Nov 2019 - (IWSA Official Supporting Organisation) <https://events.safety4sea.com/2019-safety4sea-singapore-forum/>



The **Motorship's Propulsion & Future Fuels Conference 2019 19-21 Nov in Hamburg, Germany.** (IWSA Official Supporting Organisation)

The conference will provide senior executives with a meeting place to learn, discuss and share knowledge of the latest developments in efficient propulsion technology and low flashpoint, low carbon fuels. Early Bird discount: 20% (available until 31 Jul) – use code **early**. IWSA discount: 10% (available until 18 Nov) – use code **memdiscpff**

Recent Articles, Interviews and Reports on Wind Propulsion



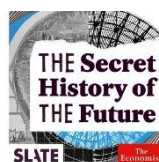
Youtube: Video Interview – IWSA Secretary General - Gavin Allwright interview @CMA 2019
<https://www.youtube.com/watch?v=XXKcbqEXZ9ig>



Youtube: Video Presentation - IWSA Secretary General - Gavin Allwright - Overview of Wind Assisted Marine Projects @Green4Sea Conference
<https://www.youtube.com/watch?v=eAPLV3rcJA4>



Article: Wind of change - More shipping companies are turning to sail power in the pursuit of fuel savings and ecological integrity <https://www.rivieramm.com/news-content-hub/news-content-hub/wind-of-change-55635>



Podcast: Can Shipping be Powered Again by the Wind? - podcast A Second Wind – Slate
<https://newstorion.com/2019/07/19/a-second-wind-slate/>



Article: Cool Ideas to clean up pollution from cars, trucks, ships and planes - Eco watch
<https://www.ecowatch.com/cool-ideas-to-clean-up-pollution-from-cars-trucks-ships-and-planes-2639338414.html?rebelltitem=3#rebelltitem3>



Interview: Green4Sea - Wind Propulsion is an Attractive Solution Towards Decarbonisation [Read](#)

For Further Information

For interview requests, membership info and IWSA events schedule, please contact IWSA Secretary, [Gavin Allwright](#) Registered supporter, assoc. & full members receive the full quarterly newsletter.

Check IWSA [Website](#) & Membership page for full list of members.

Registered Supporter – FREE (individual/micro organisation - requested donation) // €100 - Company
Associate Member (open to all that share our goals) - €300 // €500 (SME) // €2,500 (large organisations)
Full Member (reserved for wind propulsion projects) - €400 // €1,000 (SME) // €5,000 (large organisations)

NOTE: All membership fees and additional contributions are used solely to fund IWSA programs, activities and events.

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