



Karl Lander, Director, Regulatory Compliance and Outreach at Armach Robotics

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Armach Robotics Contributes to Major Biofouling R&D Forum at the International Maritime Organization Headquarters, London, UK

Plymouth, Massachusetts, USA, 11th October 2022 - Karl Lander, Director, Regulatory Compliance and Outreach at Armach Robotics, Inc. has today presented at the 2nd GloFouling Partnerships R&D Forum and Exhibition on Biofouling Prevention held at the International Maritime Organization Headquarters in London, UK. This morning's session looked at *Innovate anti-*

fouling coating systems, biofouling management technologies and methods in shipping, recreational boating, aquaculture, oil & gas, and ocean renewable energy structures.

Representing Armach Robotics, Inc. (Armach), Lander's presentation highlighted the concept and benefits of proactive in-water hull cleaning with the use of autonomous robots. Armach's hull service robots are built on marine robotics specialist Greensea System, Inc.'s open architecture software platform, OPENSEA, are man-portable, and are optimized for large ships without magnetic robot adhesion to the ship's hull.

Early-stage biofouling, micro fouling, as well as late-stage biofouling, macrofouling, are a continued and well-documented problem for the shipping industry, not least for its contribution to operational inefficiencies and increased carbon emissions. Shipping is responsible for at least 2.5% of the world's total CO₂ emissions, and the International Maritime Organization has set a target to reduce emissions by 50% by 2050. Ship owners and operators are now increasingly looking at solutions to support their need to reduce carbon emissions, some of which will come with the added benefit of improving operational efficiencies and reducing costs.

The Armach hull service robot requires no active pilot, achieving near 100% coverage, and therefore provides vessel owners and operators a flexible and scalable solution to keep their fleet at optimal condition, benefiting from fuel savings, operational efficiency, whilst contributing to decarbonization efforts and targets.

Many proposed solutions to biofouling will inevitably be delivered by advancements in technology, and Armach offers precisely this. Harnessing the power of intelligence and autonomy, the in-water hull service robots control biofouling and deliver unprecedented hull awareness.

Since its launch in 2021, Armach has become a solution to watch. The company has been addressing the challenges of biofouling at leading industry events, including the 3rd European Decarbonizing Shipping event in Germany earlier in the year and the American Group's Greentech and Decarbonizing Shipping Forum this week. Armach has also recently announced its collaboration with Bellona, an international environmental organisation based in Norway, to help raise awareness of the impact proactive hull cleaning has on reducing the environmental footprint caused

by international shipping, and to support the industry setting common standards.

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About Armach Robotics

Incorporated in November 2021 as a spin-out company from Greensea Systems Inc., Armach Robotics (Armach) offers shipowners a proactive, autonomous in-water robotic cleaning solution. Armach harnesses purpose-built robotics with proprietary navigation and operational software to efficiently and quickly clean ship hulls. The resulting clean hull optimizes ship efficiency, lowers fuel cost/consumption, and provides a complete hull condition report giving shipowners new insight into the condition of their ships' hulls.

Armach Robotics' technology is ready to meet the demand for cleaner, more efficient shipping operations, moving the industry forward with a disruptive, high-tech solution to cleaner ship operations.

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