This project has received funding from the Fuel Cells and Hydrogen 2 Joint Undertaking (now Clean Hydrogen Partnership) under grant agreement No 101007226. This Joint Undertaking receives support from the European Union's Horizon 2020 Research and Innovation programme, Hydrogen Europe and Hydrogen Europe research.

NEWSLETTER 7

E-SHYIPS AT THE RENEWABLE HYDROGEN ENERGY CONVENTION 2023

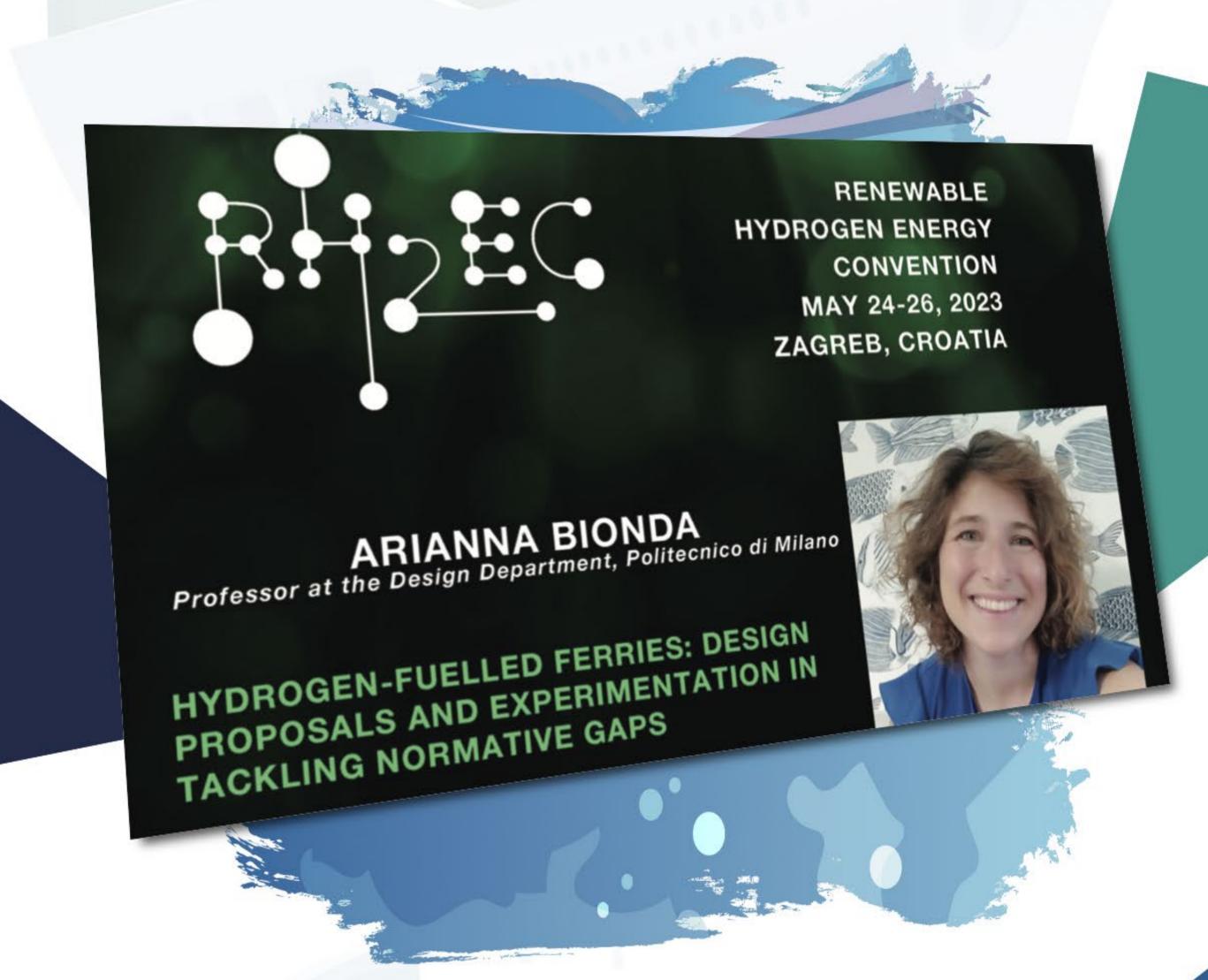
The RH2EC conference was organized in Zagreb from May 24th to 26th, 2023, to bring together experts from industry, scientific institutions, decision-makers, and H2 technology investors and discuss the emerging needs in the sector.

ON THE WAVE OF HYDROGEN

Green hydrogen transition policies and financial strategies were the core themes of the first day round table. Then multiple scientific sessions focused mainly on technology and strategies for hydrogen production and distribution, life cycle assessment of hydrogen technology, and hydrogen safety for end-user technology.

e-SHyIPS took the stage on the conference's second day with a keynote speech titled "Hydrogen-fuelled ferries: design proposals and experimentation in tackling normative gaps".

The presentation fostered a debate on the knowledge and standardization needed to effectively introduce hydrogen in the maritime industry. Furthermore, taking advantage of representatives from academic and policy-making sectors, a survey on the IGF code gap assessment and prioritization was proposed to the plenary audience.



DNV R&D FORUM

On June 22nd, a R&D forum, organized and hosted by DNV, an e-SHyIPS partner, has been held in Athens, Greece, to bring together stakeholders, industry and academy into a networking event around the adoption of hydrogen and alternative fuels in the maritime sector. Contributions at the event were provided by Wärtsilä, the National Technical University of Athens, and VTT, among others.

During the event, along with e-SHyIPS, several EU projects on alternative fuels in shipping, including am-

monia, liquid organic hydrogen carriers, and hydrogen, and projects on autonomy and digitalization were presented:

Ammonia 2-4 – Demonstrating a 2-Stroke and 4-Stroke large scale ammonia marine engine

Coordinated by:Wärtsilä

MOSES – AutoMated Vessels and Supply Chain Optimisation for Sustainable Short SEa Shipping

Coordinated by: National Technical University of Athens

SHIP-AH2OY – Development and demonstration of zero-emission propulsion technology on board ships using areen hydrogen from liquid organic hydrogen carrier in combination with solid oxide fuel

ships using green hydrogen from liquid organic hydrogen carrier in combination with solid oxide fuel cells at MW-scale.

Coordinated by: VTT

A dedicated workshop on hydrogen, chaired by DNV and UNI, has been performed for e-SHyIPS during

the event, to present the project developments and receive feedback from the market.



ShipFC - Piloting Multi MW Ammonia Ship Fuel Cells (https://shipfc.eu), FLAGSHIPS - Clean waterborne transport in Europe (https://flagships.eu), and ELVHYS - Enhancing safety of liquid and vaporised

The most recent advances of the e-SHyIPS projects were presented, with three contributions by some of the partners: "On the use of ecosystemic knowledge approach for thedefinition of new guidelines for hydrogen as maritime fuel", presented by Cristina Di Maria, UNI

hydrogen transfer technologies in public areas for mobile applications (https://elvhys.eu), among others.

"Towards the design of a hydrogen-powered ferry for zero-emissions passenger transport", presented by Giovanni Di Ilio, ATENA & University of Naples Parthenope "Environmental Impacts on PEM-FuelCells in Maritime Application" presented by Nils Baumann, Proton Motor Fuel Cell GmbH The EFC 2023 provided an excellent opportunity to gather and share knowledge and experiences on the topic of hydrogen in the maritime sector, thus promoting the next steps in the process towards a hydrogen economy roadmap definition.

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