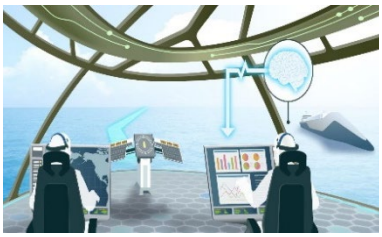
14th Symposium on

High-Performance Marine Vehicles – "Technologies for the Ship of the Future"

HIPER

Cortona / Italy, 29-31 August 2022





Topics: ultra-efficient & zero-emission ships / EEXI & CII issues / alternative fuels / electric ships advanced designs / shipyard 4.0 / future materials / future use of oceans / blue economy / intelligent & connected ships / future antifouling / biomimetic marine technologies

Organiser: Volker Bertram (volker@vb-conferences.com)

Advisory Committee:

Carlo Bertorello	Naples University	**Robert Dane**	Ocius	**Kohei Matsuo**	NMRI
Carsten Bullemer	Maritime Data Systems	**Stefan Harries**	Friendship Systems	**Geir Axel Oftedahl**	Semcon
Emilio Campana	CNR	**Thomas Hildebrandt**	Numeca	**Pierre Sames**	DNV
Roy Campe	CMB	**Jan Kelling**	Hasytec	**Noah Silberschmidt**	Silverstream Technologies
Andrea Coraddu	TU Delft	**Jiulun Liu**	Wuhan Univ Technology	**Teus van Beek**	Wärtsilä

Venue: The conference will be held at the "Oasi Neumann Hotel" in Cortona/Italy

Format: Papers to the above topics are invited and will be selected by a selection committee. Proceedings will be electronic pdf version in colour.

Deadlines:

anytime	Optional "early warning" of interest to submit paper
18.5.2022	First round of abstract selection (1/3 of available slots)
18.6.2022	**Second round of abstract selection (remaining 2/3 of slots)**
1.8.2022	Final papers due (50 € surcharge for late submission)

Fees:

650 € / 350 €	regular / PhD student – early registration (by 1.8.2022)
750 € / 400 €	regular / PhD student – late registration

Fees are subject to VAT
Fees include proceedings, lunches and coffee breaks, and conference dinner
Fees apply also to authors

Sponsors: Tutech Innovation, Ecap Marine, Hasytec – further to be announced

Media Partner: Hansa

Information: volker@vb-conferences.com or volker.bertram@dnv.com

Sneak preview of planned papers (only first author displayed)

Anriette Bekker (Stellenbosch University) - *Mariner 4.0 Digital Twin*

Volker Bertram (DNV) – *Towards a biocide-free antifouling future exploring lesser travelled paths*

Ulrich Bernhardt (DNV) – *Effective Digital Training Solutions to Support the Maritime Digital and Decarbonization Transitions*

David Connolly (Silverstream Technology) – *Proving Energy Savings in Air Lubrication Technology*

Robert Dane (Ocius) – *Cooperation Makes it Happen: Autonomous Drones with Sustainable Propulsion*

Colm Dudley (Warwick University) - *WarwickSub: Human-Powered Submarine Project as Test Platform for Advanced Technologies*

Jonathan Evans (StrucTEAM) - *Sustainability developments for composite materials in maritime applications*

Ramesh Babu Govinderaj (DNV) – *Additive Manufacturing for Maritime Applications*

Tim Heusinger von Waldegge (Fraunhofer) - *Underwater hull cleaning by laser: Feasibility and prospects*

Thomas Hildebrandt (Numeca) – *Using Machine Learning for Rapid Propeller Design Tools based on Numerical Series*

Thomas Hipke (Fraunhofer IWU) - *Metal Foams in Shipbuilding*

Morten Løvstad (DNV) - *The Decarbonizing Quest for Future Bulk Carriers*

James Mason (Univ Manchester) - *Stochastic Uncertainty in Fuel-Optimised Ship Routing: How Weather Forecasts Hinder the Carbon Savings from Wind-Assisted Weather Routing*

Ruben J. Paredes (ESPOL) - *Optimal conceptual design of a zero-emission interisland service craft*

Lars Ravens (Ecap Marine) – *Clean Power Solutions for the Maritime World*

Jonas W. Ringsberg (Chalmers TU) - *Analysis of uncertainties in the prediction of fuel saving from WASP installations*

Benjamin Scholz (DNV) - *Recent Developments in Maritime Fuel Cell Technology Projects*

Fabian Thies (Chalmers TU) - *Hull form optimization for wind-powered and wind-assisted ships*

David Thomson (AVEVA) - *The Maritime Galaxy of the up-and-coming Metaverse*

Vincent Schneider (Fraunhofer CML) - *The development of a battery hot swap prototype for use on the Autonomous Surface Vehicle SeaLion*

Svend Soyland (Nordic Energy) – *First Experience with Hydrogen and Ammonia as Shipping Fuels*

Syb ten Cate Hoedemaker (Maritime Battery Forum) – *Overview of Current Status of Maritime Batteries*