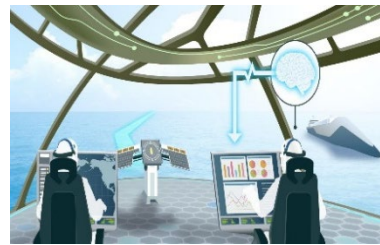


16th Symposium on
High-Performance Marine Vehicles – “Technologies for the Ship of the Future”



Drübeck / Germany, 10-12 June 2024



Topics: ultra-efficient & zero-emission ships / EEXI & CII issues / alternative fuels / electric ships
advanced designs & retrofits / 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:

| | | | | | |
|------------------|-----------------------|--------------------|-----------------------|--------------------|---------------------------|
| Catherine Austin | I-tech | Andrea Coraddu | TU Delft | Richard Marioth | Idealship |
| Ulrich Bernhardt | DNV | Robert Dane | Ocius | Kohei Matsuo | NMRI |
| Carlo Bertorello | Naples University | Thomas De Nucci | USCG Academy | Ivana Melillo | MCS |
| 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 |
| | | Jiulun Liu | Wuhan Univ Technology | Teus van Beek | Wärtsilä |

Venue: The conference will be held at the Kloster Drübeck in Drübeck/Germany

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
01.2.2024 First round of abstract selection (1/3 of available slots)
01.3.2024 **Second round of abstract selection (remaining 2/3 of slots)**
25.5.2024 Payment due for authors
30.5.2024 Final papers due (50 € surcharge for late submission)

Fees: **700 € / 350 €** regular / PhD student – early registration (by 15.4.2024)
800 € / 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, Hasytec, Idealship, Oceanly – further to be announced

Media Partner: Hansa, Royal Institution of Naval Architects

Information: volker@vb-conferences.com

Received abstracts

Bertram (DNV) – *Trim optimization: In Simple Terms*

Bertram (DNV) – *Savings from Route Optimization: Myth or Reality*

Cederberg (NoorCare) – *AI + human factor = fuel saving*

Hochkirch, Hahn, Bertram (DNV) – *Smart Energy Efficiency: Optimization for Ship Design, Retrofit and Operation*

Kuusisto (Wärtsilä) - *Possibilities for Hybrid Cruise Vessel Performance Optimization through Data-Driven Battery Usage*

Thies, Renzsch, Harries (Friendship Systems) - *Hull Form Variations and Appendages for Improved Sailing Balance of Wind-Assisted Propelled Ships*

Plowman, Bertram (DNV) - *A.I. Tools for Maritime Training Applications: Stories of Success and Failure*

Ramesh, Bhattacharya (IIT) - *Hydrodynamic Performance of a Propeller within a Novel Partial Duct*

Intent to send abstracts (only first author given)

Bertorello (Univ Naples) – *E-powered vessels*

Castagna (Becker Marine Systems) – *ESDs as EEXI-CII retrofits*

Dubois (Silverstream Technologies) – *Air Lubrication as means to improve EEDI and CII*

Galecka (Ardmore Shipping) – *Voyage optimization effect on CII in bulk carrier operation*

Höflich (Norsepower) – *100 years Flettner: Past, present and prospects*

Ingham (Graphite Innovation & Technology) – *Graphene-based nano-coatings for smoother shipping*

Kyritsis (Sunstone) - *Placing Wind on Ships: An Owner's Perspective*

Nice (NakAI) – *In-service experience for an in-transit robotic cleaning robot*

Paakkari (Norsepower) – *Effect of Rotor Sails on CII and Energy Savings*

Renzsch (Friendship Systems) - *Optimization of an Air Lubrication System for Geometry and Topology*