



The Royal Institution of Naval Architects  
**Scaling Decarbonisation Solutions:  
Reducing Emissions by 2030**

29<sup>th</sup> November - 1<sup>st</sup> December 2022, Rotterdam, NL

In partnership with:



**Mærsk Mc-Kinney Møller Center**  
for Zero Carbon Shipping

| Tuesday 29 <sup>th</sup> November<br>First movers |   |           |
|---|---|-----------|
| 09.00-09.25                                       | Coffee and Registration   |           |
| 09.25-09.30                                       | Welcome Address – Royal Institution of Naval Architects   | Session 1 |
| 09.30-10.10                                       | <b>Accelerating the Transition towards 2030</b><br>C W Graugaard, Mærsk Mc-Kinney Møller Center for Zero Carbon Shipping  |           |
| 10.10-10.45                                       | <b>Enabling First Movers – Green Corridor Blueprints</b><br>J Byskov Svendsen, Mærsk Mc-Kinney Møller Center for Zero Carbon Shipping   |           |
| 10.45-11.20                                       | <b>The Silk Alliance: experience and initial lessons from a green shipping corridor cluster</b><br>C Raucci, Lloyd's Register   |           |
| 11.20-11.50                                       | Coffee  |           |
| 11.50-13.00                                       | Panel discussion on Green Corridors   |           |
| 13.00-14.00                                       | Lunch   |           |
| 14.00-15.10                                       | <b>Panel Q&amp;A - Ports</b> <ul style="list-style-type: none"><li>• <b>Ports Playbook for Zero-Emission Shipping</b> - A Browne, Pacific Environment</li><li>• <b>Low-Carbon Socio-Technical Transition in Container Handling Equipment</b> - C Parro, ESMT Berlin</li><li>• TBC</li></ul> | Session 2 |
| 15.10-15.40                                       | Coffee  |           |
| 15.40-16.15                                       | <b>A sustainable path to decarbonization - the European perspective</b><br>E Negri, Siemens Energy  |           |
| 16.15-16.50                                       | <b>Accelerating decarbonisation in shipping through green technology</b><br>F Pind, NJORD   |           |
| 16.50-  | General Discussion & Evening Drinks Reception   |           |



The Royal Institution of Naval Architects  
**Scaling Decarbonisation Solutions:  
 Reducing Emissions by 2030**

29<sup>th</sup> November - 1<sup>st</sup> December 2022, Rotterdam, NL

In partnership with:



**Mærsk Mc-Kinney Møller Center**  
 for Zero Carbon Shipping

| Wednesday 30 <sup>th</sup> November       |  |           |
|---|--|-----------|
| Alternative fuels and life cycle analysis |  |           |
| 09.00-09.25                               | Coffee and Registration  | Session 1 |
| 09.25-09.30                               | Welcome Address – Royal Institution of Naval Architects  |           |
| 09.30-10.10                               | Maturing Alternative Fuel Pathways<br>T Nørgaard, Mærsk Mc-Kinney Møller Center for Zero Carbon Shipping   |           |
| 10.10 – 10.45                             | A Common Methodology for Lifecycle Analysis (LCA)<br>A O'Connor, Mærsk Mc-Kinney Møller Center for Zero Carbon Shipping  |           |
| 10.45-11.15                               | Coffee   |           |
| 11:15 – 12:20                             | Panel Discussion on Future Fuels (with Topsoe)   |           |
| 12.20-12.55                               | Reducing Methane Emissions on Board Vessels<br><i>I Dimakopoulos, ABS &amp; T McKenney</i> , Mærsk Mc-Kinney Møller Center for Zero Carbon Shipping  |           |
| 12.55-13.30                               | Onboard Carbon Capture<br><i>T McKenney</i> , Mærsk Mc-Kinney Møller Center for Zero Carbon Shipping   | Session 2 |
| 13.30-14.30                               | Lunch  |           |
| 14.30-15.30                               | Panel Q&A – Ammonia & Methanol <ul style="list-style-type: none"><li>Environmental Assessment of Ammonia as a Marine Fuel - <i>S Parkar, Lloyd's Register</i></li><li>Quantitative Risk Assessment of Ammonia-Fuelled Vessels - <i>A Franks, Lloyd's Register &amp; MMMZCS</i></li><li>The FASTWATER Demonstrator: Retrofitting a pilot boat to methanol operation - <i>Y Pu, Ghent University</i></li></ul> |           |
| 15:30-16:00                               | Coffee   |           |
| 16.00-16.35                               | Addressing decarbonization challenge through study on utilization of hydrogen fuel cells for container vessels - <i>M Pradana, CKB Logistics Group</i>   |           |
| 16.35-17.10                               | An investigation into the potential of the molten salt reactor for the propulsion of commercial and naval surface ships – <i>B Scott, BMT</i>  |           |
| 17.10-17.45                               | The role of offshore floating nuclear power plants for the production of Green Electro Fuels for the decarbonization of shipping - <i>G Gennaro, Core Power</i>  |           |
| 17.45 -                                   | General Discussion & Evening Drinks Reception  |           |



The Royal Institution of Naval Architects  
**Scaling Decarbonisation Solutions:  
 Reducing Emissions by 2030**

29<sup>th</sup> November - 1<sup>st</sup> December 2022, Rotterdam, NL

In partnership with:



**Mærsk Mc-Kinney Møller Center**  
 for Zero Carbon Shipping

| Thursday 1 <sup>st</sup> December<br>Energy efficiency |   |
|--|---|
| 09.00-09.25  | Coffee and Registration   |
| 09.25-09.30  | Welcome Address – Royal Institution of Naval Architects   |
| 09.30-10.10  | Energy Efficiency as a Decarbonization Kick Starter<br>O Sadó Garriga, Mærsk Mc-Kinney Møller Center for Zero Carbon Shipping   |
| 10.10-10.45  | Wind Propulsion Scalability: Opportunities & Challenges<br>G Allwright, International Windship Association  |
| 10.45-11.20  | Benchmarking the Performance of Alternative Fuels on Container Vessels<br>N Abraham, Eveon Containers   |
| 11.20-11.50  | Coffee  |
| 11.50-12.25  | The Role of Energy Efficiency in Shipping's Decarbonization Journey – from Cost Leadership to Climate Leadership<br>D Barcarolo, ABS & O Sadó Garriga, Mærsk Mc-Kinney Møller Center for Zero Carbon Shipping   |
| 12.25-13.00  | <i>The role of Graphene in decarbonization. The Stolt Tankers experience.</i> - J Gonzalez Celis, Stolt Tankers   |
| 13.00-14.00  | Lunch   |
| 14.00-15.00  | Panel Q&A – Coating and Air Lubrication <ul style="list-style-type: none"> <li>Using Smart Marine Coatings to improve the Carbon Intensity Indicator of the Ships - I Rodionov, Graphite Innovation and Technologies</li> <li>Energy Efficiency: Data-driven approaches to hull coating selection and specification - R Mihaylova, Safinah Group</li> <li>Hull air lubrication: A practical, proven energy saving solution - A Dubois, Silverstream Technologies</li> </ul> |
| 15.00-15.30  | Coffee  |
| 15.30-16.05  | The GUTTA-VISIR system for operational ferry CO2 savings<br>G Mannarini, Euro-Mediterranean Center on Climate Change  |
| 16.05-16.40  | Increasing awareness and fuel efficiency by sharing operational insights with vessel crews - M Köpke, Hapag-Lloyd AG  |
| 16.40-17.15  | Energy Efficiency Improvement for Larger Passenger Ship through Hydrodynamic Testing - M Pedisic Buca, Croatian Shipbuilding Corporation  |
| 17.15 -  | General Discussion & Closure  |

Session 1

Session 2