MARTE
Marine Technology Excellence Hub for Sustainable Blue Economy in Baltics

Co-funded by the European Union

MARTE: MARINE TECHNOLOGY EXCELLENCE PLATFORM FOR A SUSTAINABLE BLUE ECONOMY IN THE BALTIC REGION

DAY 1

MarTe 1st Technical Workshop

Physical Modelling for Blue & Green Transitions: Deep-Tech Tools from Lab to Market

WEDNESDAY, **4 FEBRUARY** 2026

Ventspils University of Applied Sciences (VUAS)

Address: 101A Inženieru Street, Ventspils, LV-3601, Latvia

& Online: Zoom (with live YouTube translation)

10.00 - 19.00

Arrival, registration, and welcome coffee VUAS, D-block foyer	**10.00 - 10.30**
Vladislavs Bezrukovs, Ventspils University of Applied Sciences Modeling the Physical World: Turning Lab Insights into Products VUAS, D104	**10.30 - 11.00**
Modris Dobelis, Riga Technical University SOLIDWORKS at RTU: From Academic Training to Industry Certification. VUAS, D104	**11.00 - 11.20**
Marina Konuhova, Institute of Solid State Physics, University of Latvia COMSOL-Based Multiphysics Modeling of Liquid Piston Hydrogen Compression for Marine and Industrial Applications VUAS, D104	**11.20 - 12.00**
Lunch Break VUAS, D-block foyer, D103	**12.00 - 13.00**
Normunds Jēkabsons, Jekabsons Engineering Systems, University of Latvia; **Sabīne Upnere, Riga Technical University, Jekabsons Engineering Systems** Real-World Problem Modeling with OpenFOAM VUAS, D104	**13.00 - 13.30**
Normunds Jēkabsons, Jekabsons Engineering Systems, University of Latvia; **Sabīne Upnere, Riga Technical University, Jekabsons Engineering Systems** CFD Modeling Workflow Demonstration Using the Open-Source Toolkit OpenFOAM VUAS, D104	**13.30 - 14.00**
Coffee break	**14.00 - 14.30**
Hands-On Activities & Use-Case Examples VUAS, A-block, Room A104, Machine Learning Laboratory	**14.30 - 17.00**
Discussion, Coffee & Networking opportunity	**17.00 - 19.00**

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DAY 2

MarTe 1st Technical Workshop

Physical Modelling for Blue & Green Transitions: Deep-Tech Tools from Lab to Market

THURSDAY, **5 FEBRUARY** 2026

Ventspils University of Applied Sciences (VUAS)

Address: 101A Inženieru Street, Ventspils, LV-3601, Latvia

& Online: Zoom (with live YouTube translation)

08.30 - 17.00

Morning Coffee & Welcome Session VUAS, D-block foyer	**08.30 - 09.00**
Laura Apoga, LVR Flote Ltd Maritime innovation examples from LVR Flote - fleet modernization and collaboration models VUAS, D104	**09.00 - 09.30**
Jēkabs Priedītis, University of Latvia Wind-Solar Powered Energy Systems for Autonomous Coastal and Offshore Infrastructure VUAS, D104	**09.30 - 10.00**
Uldis Bethers, University of Latvia HywasPort: Bridging Latvia's Ports and Open Seas with Seamless Forecasting VUAS, D104	**10:00 - 10.30**
Andrejs Krauklis, Latvia University of Life Sciences and Technologies *Modelling Hydrothermal Ageing and Degradation of Polymers* VUAS, D104	**10.30 - 11.00**
Aleksejs Zolotarjovs, Institute of Solid State Physics, University of Latvia Spectromarine: a path from lab to market in the water sector; or how good market fit can compensate for low TRL VUAS, D104	**11.00 - 11.30**
Vladislavs Bezrukovs, Ventspils University of Applied Sciences Modeling Challenges of Linear Generators in EMWorks VUAS, D104	**11.30 - 12.00**
Lunch Break VUAS, D-block foyer, D103	**12.00 - 13.00**

Website
https://www.marinetechub.eu/

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08.30 - 17.00

Tija Sīle, University of Latvia How to determine wind speed without measuring it VUAS, D104	**13.00 - 13.30**
Andrejs Zvaigzne, Riga Technical University *Coastal Fishing vesels Powered By Zero Emission Hydrogen Fuel Cell* VUAS, D104	**13.30 - 14.00**
Modris Dobelis, Riga Technical University Parametric CFD Analysis of a Tesla Valve Using SOLIDWORKS Flow Simulation. VUAS, D104	**14.00 - 14.30**
Modris Dobelis, Riga Technical University SOLIDWORKS Flow Simulation. Hands on Practice with Venturi Tube VUAS, D104	**14.30 - 15.00**
Coffee break VUAS, D-block foyer	**15.00 - 15.15**
Demonstrations & Hands-On Activities VUAS, A-block, Room A104, Machine Learning Laboratory	**15.15 – 16:00**
Wrap-Up, Discussion, & Networking opportunity	**16.00 - 17.00**

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