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**
PML group Exploring New Features and Possibilities in SolidWorks 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**
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	**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**
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	**11.30 - 12.00**
Lunch Break VUAS, D-block foyer, D103	**12.00 - 13.00**

Website
https://www.marinetechub.eu/

Funded by the European Union under grant agreement No. 101186498. The views and opinions expressed are solely those of the authors and do not necessarily reflect the official position of the European Union. Neither the European Union nor the granting authority can be held responsible for the content of this material.

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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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Vladislavs Bezrukovs, Ventspils University of Applied Sciences

Modeling Challenges of Linear Generators in EMWorks

VUAS, D104

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