

## Summary of E-LASS seminar #16 in Ulsteinvik, Norway, September 13, 2022.



The 16<sup>th</sup> E-LASS seminar was held the 13<sup>th</sup> of September in Ulsteinvik, Norway. The event was co-organized with Ship Technology Days and hosted by Blue Maritime Cluster and Ulstein Business Forum. As the first seminar with only physical attendance after the Covid lockdown, we were happy to meet approximately 60 attendees, eager to network and discuss lightweight solutions.

The day started with a welcome and introduction to Ulsteinvik by Franz Evegren, RISE and Anna-Klara Måseide, Ulstein Business Forum. The first presentation was given by Dr. Ing. Alg Egil Jensen, FiReCo. He presented their monitoring system for hull stress. Then Daniel Garden, GCE Maritime cluster, presented the network and previous work of the cluster. In the last presentation before coffee break, P.E. Sánchez del Corral, TSI, showed the results from the FIBRE4YAEDS project related to modular construction design of a FRP catamaran.

After the first break, Anna Sandinge, RISE, presented the outcome of the KOFS project related to fire safety and fire testing of composite materials. Knut-Inge Edvardsen, C-Dynamics, continued the fire safety topic as he presented the Cost-FRM project and the operating experiences from the GPR Car ferry MF Barmen. Before lunch break, we got an update on activities in the national networks: S-LÄSS by Peter Sjögren, RISE, D-LASS by Tahira Ahmed, CompositesNL and MariLight Network by Robert Julius Glade, CMT.

The lunch was served at the facilities of Skaparhuset (Maker space), where we were introduced to the local creative place where technical ideas could be tested and evaluated in real life.

After lunch, Susanne Lanzerstorfer, European Commission, held her keynote presentation of funding opportunities and CINEAs waterborne portfolio. Robert Julius Glade, CMT, presented conclusions from the RAMSSES project and the coming plans for an IMO SDC9 submission. Before the second coffee break, Erwan Juin, RISE, presented both ongoing as well as finished research projects related to lightweight composite hydrogen storage tanks which RISE is involved in.

The final session of the seminar was introduced by the presentation given by Dr. Christoph Tamm, Fraunhofer, presenting noise and vibration reduction with vibroacoustic metamaterials. Magnus Wikander, RISE/SSPA, presented the project ELINN, the emission free sea rescue vessel. The final presentation was given by Thomas James, Hexcel, of challenges and opportunities of using composite materials for lightweight in maritime.

The seminar was rounded off by the teaser of the next E-LASS in Las Palmas, Spain in March 2023.

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