

# Check-in & Sound check 08:30-09:00

*Via 'view options' you can switch to side-by-side mode to see the speaker and the presentation at the same time.*

Welcome to



Nantes 18 Nov 2021



## Zoom Webinar rules of the day:

1. *Upon entry, your microphone and camera are switched off. During "Check-in & Sound check" you may check their functionality.*
2. *You may switch on your microphone and camera yourself – please do so when given the word by the moderator.*
3. *Raise your hand if you want to ask the presenter a question, or use the chat function. There will be a moderated Q&A after each presentation.*
4. *If you have a technical question, please use the chat.*



Welcome to

# E-LASS

The European network for Lightweight Applications at Sea

Nantes 18 Nov 2021



Franz Evegren  
RISE Research Institutes of Sweden  
Safety & Transport  
Fire Safe Transport



Founded in 2013, E-LASS is a well-established European network for Lightweight Applications at Sea with over 500 members in 32 countries.

Twice a year, the network meets for a seminar and industry tour to discuss innovative solutions and to enhance the use of lightweight materials within maritime and offshore sectors.



# RISE Research Institutes of Sweden

Several institutes in Sweden have merged into RISE, as of lately also including SSPA, in order to become a stronger research and innovation partner for businesses and society.



**RI  
SE**

## Facts about RISE

- Turnover ~300 million Euro
- 2 500 employees, 30 % PhD
- SME clients responsible for approx. 30 %
- RISE is owner/partner in over 100 unique test beds and demonstration facilities

## E-LASS History

15. **November 2021, Nantes!**
14. June 2021, Webinar
13. January 2021, Webinar
12. Sept 2020, Webinar
11. Jan 2020, *IFAM* Bremen, Germany
10. June 2019, *aimen* Vigo, Spain
9. January 2019, *PodComp* Piteå, Sweden
8. June 2018, *CdA* Pornichet, France
7. January 2018, *RISE* Borås, Sweden
6. October 2017, *Uljanik* Pula, Croatia
5. November 2016, *SAPA* Finspång, Sweden
4. November 2015, *Damen* Gorinchem, Netherlands
3. January 2015, *Soton* Southampton, England
2. March 2014, *Meyer Werft* Papenburg, Germany
1. October 2013, *RISE* Borås, Sweden – *Kick-off*



*No member fee and low cost events – Sponsors!*

*"Not too commercial – not too scientific"*



# What areas of sustainable shipping do you think can promote the use of lightweight materials?

competiton (racing)

Predictability in the approval process

1. Electrification  
2. Different travel patterns  
3. Environmental awareness from passengers / users  
4. Recycling becomes a mor known issue

Electric ships

RO-PAX

Cruise ships

Ferries with shallow drafts  
E-Ferries  
Navy ships

reducing weight means reducing power demand, reducing power demand is reducing the footprint getting benefits from less production cost more comfort or longer life time should be good additional arguments all together with equivalent safty will win.

alternative fuels usually require more space and weight on board, which can be compensate by using lightweight materials.

Electric ships; Inland waterway shipping; short sea shipping

Reducing emissions starts with lowering the required energy for transport. Reduced shipweight can contribute to that

Electrification; e.g. in fast ferries, light weight materials enabling for larger battery packs

Higher capacity for cargo or hotel without the need for increasing the ship size.

Equipment for wind assisted vessel -> IWSA

# What would you like to see more of at the next E-LASS?

(New) shiptyps involving lightweight applications

Recent advance in fire reaction of resin

"SUSTAINABILITY". PROS AND CONS FROM A LIFE CYCLE POINT OF VIEW AND STATE OF THE ART OF RECYCLING OF DIIFERENT TYPES OF LIGHTWEIGHT VESSELS. WHEN APPEARS END OF LIF E AND WHAT IS THE VALUE OF THE VESSEL AT THAT TIME?

International collaboration / Outreach to Asia, Americas, Oceania and Africa.

How to change perception of composites. A current blocker to many composite innovations in actual vessel builds is the preconception by shipyards, owners and operators that composites are difficult and expensive to build and maintain.

success stories

other association like IWSA

Success stories

Continue with national network updates!

laminates with good flammability performance

Each other at a physical event; Nevertheless thank you for all efforts by vicon!

Light piping systems for ships



## E-LASS Seminar #15 18 Nov 2021 09.00-12.30



### Morning (only): Lightweight Applications At Sea

08:45	09:00	<i>Check-in &amp; Sound check</i>		
09:00	09:10	Welcome	Franz Evegren	RISE
09:10	09:30	Naval Group and our work on composite applications	Emilien Billaudeau	Naval Group
09:30	09:55	Thermo-structural response of FRP ship structures exposed to fire	Rafael Pacheco	UPC/CIMNE
09:55	10:20	Fibre4Yards - Shipyard for the future	Xavier Martinez	UPC/CIMNE
10:20	11:00	<i>Coffee break &amp; mingle</i>		
11:00	11:20	The KOMPIS project and fire safe surfaces	Anna Sandinge	RISE
11:20	11:45	Repairing with Composite Overlamination applications on Steel and Composite Structure	Lourdes Blanco Salgado	AIMEN
11:45	12:15	European Lightweight Clusters Alliance (ELCA) and the COSME project	Aitor Hornés, Bruno Martin	Bax & Company, Polymeris
12:15	12:30	Round up and discussion	Franz Evegren	RISE
12:30	13:30	<i>Lunch, voluntary</i>		





## E-LASS Seminar #15 18 Nov 2021 09.00-12.30



### Morning (only): Lightweight Applications At Sea

08:45	09:00	<i>Check-in &amp; Sound check</i>		
09:00	09:10	Welcome	Franz Evegren	RISE
09:10	09:30	Naval Group and our work on composite applications	Emilien Billaudeau	Naval Group
09:30	09:55	Thermo-structural response of FRP ship structures exposed to fire	Rafael Pacheco	UPC/CIMNE
09:55	10:20	Fibre4Yards - Shipyard for the future	Xavier Martinez	UPC/CIMNE
10:20	11:00	<i>Coffee break &amp; mingle</i>		
11:00	11:20	The KOMPIS project and fire safe surfaces	Anna Sandinge	RISE
11:20	11:45	Repairing with Composite Overlaminations applications on Steel and Composite Structure	Lourdes Blanco Salgado	AIMEN
11:45	12:15	European Lightweight Clusters Alliance (ELCA) and the COSME project	Aitor Hornés, Bruno Martin	Bax & Company, Polymeris
12:15	12:30	Round up and discussion	Franz Evegren	RISE
12:30	13:30	<i>Lunch, voluntary</i>		

**Time for a Menti – go to [menti.com](https://menti.com) and submit the code 7201 1761**

- What do you want to see more of at E-LASS?

# Sponsor the event

Logo on website and program - always included for sponsors



## Transportation sponsoring

500 € + VAT

Learn more



Transportation is a vital part of organising an E-LASS event, especially when it comes to industry tours which usually require busses. By sponsoring\* our transportation you can promote your company during the E-LASS event while helping participants to get where they need to be.

\* As a sponsor, your logo is always included on the E-LASS website and in the event program.

Contact [e-lass@ri.se](mailto:e-lass@ri.se) if you are interested in sponsoring the event



## Lunch OR Dinner sponsoring

1000 - 1500 € + VAT

Learn more



Promote your company by sponsoring lunch or dinner!

**\*Lunch sponsors** (1000 € + VAT) are mentioned accordingly before lunch.

**\*Dinner sponsors** (1500 € + VAT) get extra visibility and are highlighted through signage at every table during dinner.

\* As a sponsor, your logo is always included on the E-LASS website and in the event program.

Contact [e-lass@ri.se](mailto:e-lass@ri.se) if you are interested in sponsoring the event



## Table break promotion

1000 € + VAT

Learn more



Bring marketing materials (brochures or leaflet) and put it on a table for everyone to see during the breaks. An E-LASS event is a fantastic opportunity to promote\* your company!

\* As a sponsor, your logo is always included on the E-LASS website and in the event program.

Contact [e-lass@ri.se](mailto:e-lass@ri.se) if you are interested in sponsoring the event



# E-LASS

[www.e-lass.eu](http://www.e-lass.eu)

Stay tuned!

Welcome to the next E-LASS event in  
the spring of 2022



"Not too commercial  
– not too scientific"

Are you interested to  
present at our next E-LASS?  
Send a short (1/2 page)  
abstract to [e-lass@ri.se](mailto:e-lass@ri.se)

Thank you for your attention!