

## News from CMSS

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### Welcome to our new senior researcher

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CMSS recently welcomed senior researcher Lisa L. Froholdt. Lisa has a Diploma in Psychology, a M.A. in Educational Psychology and completed her Ph.D. in Human Factors at the University of Southern Denmark (SDU).



Lisa has worked as a consultant in assisting Danish shipping companies in organization optimization, personal/team psychological analyses, and bridging knowledge and projects between the industry and academia.

Lisa worked at Chalmers University of Technology in Sweden before joining the World Maritime University (WMU) in 2013. She has taken part in a number of EU funded projects, such as KNOW-ME, and MONA LISA II, and she led the International Transport Federation's psycho-social education programme, called MARI-WEL. Furthermore, Lisa was Principal Investigator on the CORA anti-corruption project, which was funded partly by Maersk Line and partly by the A.P Møller Fund. Until recently, Lisa was Director of Research and Development at the Copenhagen School of Marine Engineering and Technology Management where she worked with International relations and established the research group MAST (Maritime Applied Research Center). She worked with Corporate Social Responsibility (CSR), Disruption innovation and technological development, facilitating research and development projects within these themes.

Within the field of human factors, Lisa has investigated the psychological impacts on seafarers in relation to pirate hijacking and corruptive practices. She has also worked with socio-cognitive aspects of everyday and emergency situations in technologically saturated work environments.

Lisa is originally from New Zealand, and after marrying a Danish sailor and having three children she settled in Denmark.

## Newly launched projects

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### Respiratory diseases among seafarers



A new project has seen the light of day at CMSS. It is highly probable that seafarers belong to a high-risk population, when it comes to respiratory diseases. The reason is that seafarers may be exposed to many chemicals and vapours onboard. Furthermore, there may still be plenty of room for improvements in health-related behaviour, especially as to

tobacco smoking. Despite these recognized risk factors, little is known about respiratory diseases among seafarers and which factors these diseases are associated with. This new project thus examines respiratory diseases and their determinants in Danish seafarers. The project will use data from the CMSS register 'BLUE', and advanced statistical methods will be employed.

[Read more about the project.](#)

### Accidents at Sea

Another newly launched CMSS project takes a closer look at accidents at sea. The purpose is to examine the development of accidents on Danish ships from 2005 and up till now. The focus of the study will be on the type of accidents and ships, on which part of the ship the accident took place, the position and nationality of the injured person, time of the accident, duration of the employment at the time of the accident, information about the injury and its consequences, and the length of absence. Based on this information, we can clarify what types of accidents should be dealt with. It will also be possible to monitor the development over the years and to assess whether the Danish shipping industry has become a safer place to work.

The study is a pilot study and will explore the state of the art in maritime accidents. In addition, we will study the data quality and assess the possibility of establishing an accident register. In the long term, the intention is, amongst other things, to link this accident register with the

maritime register 'BLUE' in order to be able to assess what consequences accidents at work can have for the injured persons' connection with the labor market.

Data comes from the Danish Maritime Authority. The project is in its start-up phase, and the first results are expected in late spring 2020.

[Read more about the project.](#)

## fishSAFE 2025 Bangladesh

In collaboration with FISH Safety Foundation, New Zealand and Patuakhali University, Bangladesh, CMSS participates in a new project by the name of 'fishSAFE 2025 Bangladesh'. The project aims to measurably improve the safety outcomes in the fishing industry in Bangladesh (phase 1), and in Indonesia and the Philippines (phase 2 and 3).



Project kick-off meeting in London, CEO and project leader Eric Holliday, FISH Safety Foundation, New Zealand

The target is a reduction of 20% in vessel losses, and 25% in crew fatalities, serious injuries and ill-health by the year 2025 in the three above-mentioned countries. To support this, specific training and information material will be developed to improve safety standards in the industry. The practical training includes safe practices as well as access to use of safety equipment and maintenance of it. The training targets a group of local trainers who in turn will train the fishermen of the intervention communities. In addition, a public awareness plan will be communicating safe practices as well as the importance of safety. This action also includes the families, because families have a very important role in influencing attitudes related to safety. The realisation of the project involves assistance and input from local stakeholders. Furthermore, via an initiative named '*re-fish*', the fishing industries in developed countries are invited to re-cycle/donate gear to fishermen communities in the countries in question.

The project is funded by the Lloyd's Register Foundation - highlighting their active role in improving the safety culture in Southeast Asia. The Insight Report on Global Safety Challenges, published by the foundation in 2017, showed unacceptably high injury and fatality rates in the commercial fishing industry, calling the global community for action.

[Read more about the project.](#)

## Creating Circular Economy Clusters for Sustainable Ship Recycling in Denmark



Foto: Milan Seitler on Unsplash

This project explores the possibilities of building a Danish maritime position of strength within competitive and sustainable scrapping of ships based on circular economy. The project partners are BLUE SDU, CBS Maritime, Litehauz and Marloc. The project runs from September 2019 – May 2020, and the Danish Maritime Fund funds approx. 78.5% of the total budget.

Five sub-analyses and a summary report will be prepared and reported at a conference at CBS at the end of May 2020. The five sub-analyses will be respectively a fleet analysis, a yard analysis, an analysis of Danish maritime equipment suppliers, an analysis of the market for recycling and a “Cost Benefit analysis”. The main report will be prepared by researchers from CBS and SDU in collaboration with the consultancies Litehauz and Marloc and with inputs from Danish Shipping and Danish Maritime.

Expected results from the BLUE SDU analyses:

- The analysis of the market conditions for end-of life ships will clarify the market conditions for scrapping ships and for the materials and components that can be recovered or recycled in the process.
- The “Cost Benefit” analysis will reveal the costs and benefits of ship scrapping in Denmark and Southeast Asia with the aim of internalising the socio-economic costs. The analysis will also reveal the need for financial instruments, government subsidies etc. to encourage such a Danish position of strength.

Read more about the project at [The Danish Maritime Fund’s webpage \(in Danish\)](#)

Read more about the project at [Danish Maritime’s webpage \(in Danish\)](#)

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A selection of other CMSS activities

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### ISMH15

The 15<sup>th</sup> International Symposium on Maritime Health (ISMH) took place in Hamburg from 12-15

June 2019. ISMH is the only maritime health event of its kind. The theme of the conference was 'Sea, Port, Health & Environment'. This year's conference attracted more than 400 delegates from different parts of the world. It featured plenary sessions, workshops, interdisciplinary symposia, and expert panels.

CMSS researchers attended actively in the event and presented their recent findings. Fereshteh Baygi, presented parts of the qualitative findings of her PhD thesis entitled 'A qualitative study on health risks of Iranian seafarers working on ocean going tankers'. Olaf C Jensen presented a project entitled 'Mental Health promotion program in the workplace with focus on transport'. Kimmo Herttua gave the presentation 'Hospital contacts in Danish seafarers compared to other trades: a register-based study in 2002-2016', and Despena Andrioti Bygvraa was chair of two sessions. Moreover, three master students, supervised by CMSS, also gave their presentations at the conference. Their research areas were the impact of MLC 2006 as perceived by seafarers, health needs of women seafarers, and wellbeing of offshore employees in Denmark.



Fereshteh Baygi, CMSS and Dr. Nebosja Nicolic, former IMHA board member

[Link to the ISMH15 programme booklet](#)

## EU HEALTHY GATEWAYS Joint Action

Despena A. Bygvraa participated in the first General Assembly meeting that took place from 13 – 14 June in Hamburg. A total of 73 participants attended the meeting, including participants from European countries and Taiwan, the transport industry (maritime, aviation and railways), as well as participants representing international organisations, institutes and professional associations.

The purpose of this meeting was to plan and monitor the Joint Action activities and to discuss and make decisions about dissemination of deliverables. In addition, to propose and make strategic decisions regarding the long-term planning and sustainability of the project. The overall objectives of the project are to support cooperation and coordination between EU Member States to improve their capacities at Points of Entry (PoE) in preventing and combating cross-border health threats coming from the transport sector.

The current Joint Action is a continuation of the EU SHIPSAN project and will run until 2021. At present, the Joint Action consortium involves 38 authorities from 29 European countries and Taiwan.

[Read more about EU Healthy Gateways Joint Action.](#)

### EPH Conference

The 12th European Public Health conference with the main theme 'Building bridges for solidarity and public health' was held in Marseille, France on 20 – 23 November. This year's conference aimed specially to find answers to some extensive questions, such as what can be done to reduce the need for migration, how to build bridges between different professions and communities to implement the sustainable development goals, and what will be the future of public health in Europe. The conference had a good scientific quality, and the most interesting topics, from a maritime point of view, included various approaches to health at work, risk factors of chronic diseases, and questions about sick leave and disability pension.

Kimmo Herttua from CMSS contributed to the scientific programme with a study that uses register-based data from 'BLUE'. The presentation dealt with hospital contacts due to neoplasms and cardiovascular and respiratory diseases among Danish seafarers.

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### Publications

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**Recently published scientific articles from CMSS** (names of CMSS employees marked in bold)

- **Froholdt, LL** 2019, '"The helm is lost!" Reframing psychological matters in non-routine technologically mediated interaction in a maritime context', *Text & Talk (Print Edition)*, bind 39, nr. 2, 2, s. 171-190. <https://doi.org/10.1515/text-2019-2023>
- **Jensen, OC**, Flores, A, **Bygvraa, DA**, **Baygi, F** & Charalambous, G 2019, 'A Review of Epidemiological Studies in Latin American Fishing', *Journal of Agromedicine*, s. 1-10. <https://doi.org/10.1080/1059924X.2019.1639575>

- **Jensen, OC**, Flores, A, **Bygvraa, DA**, **Baygi, F** & Charalambous, G 2019, 'How to calculate incidence rates from proportionate data', *International Maritime Health*, bind 70, nr. 3, s. 187-192. <https://doi.org/10.5603/IMH.2019.0029>
- **Andrioti Bygvraa, D**, Ballav Adhikari, T, Charalambous, G & **Jensen, OC** 2019, 'Maritime doctors' skills and competencies: A review for policy analysis', *Maritime Technology and Research*, bind 2, nr. 1, s. 40-51. <https://doi.org/10.33175/mtr.2020.206375>
- **Kaiser, B**, Hoeberechts, M, Maxwell, KH, Eerkes-Medrano, L, Hilmi, N, Safa, A, Horbel, C, Juniper, SK, Moninya, R, Lowen, NT, Short, K & Paruru, D 2019, 'The Importance of Connected Ocean Monitoring Knowledge Systems and Communities', *Frontiers in Marine Science*, bind 6, 309. <https://doi.org/10.3389/fmars.2019.00309>

You can find more CMSS publications and bibliographic details by clicking [here](#).