

# Autonomy and Safety when the Human is in the Loop – What can We Learn from Aviation, Maritime, Road and Rail?

Speakers from DUKE-HAL\*, NTNU, AMOS\*\* and SINTEF.  
In association with the research project SAREPTA.

**August 10<sup>th</sup> from 11:30 – 18:00**

**Location: SINTEF Sealab, Brattørkaia 17C, 7010 Trondheim**

## Program:

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| 11:30–12:00 | Lunch  |
| 12:00–12:10 | Welcome  |
| 12:10–12:40 | <b>Øystein Haga Skånland/Ministry of Transport and Communication</b> – <i>Introduction of autonomy in the transportation sector</i>                                    |
| 12:40–13:00 | Q&A and coffee break   |
| 13:00–13:30 | <b>Missy Cummings/HAL</b> – <i>The human in the loop</i>   |
| 13:30–14:00 | <b>Ørnulf Rødseth/SINTEF Ocean</b> – <i>Safe human interaction with autonomous ships in Trondheimsfjorden</i>  |
| 14:00–14:15 | Coffee break   |
| 14:15–14:45 | <b>Gunnar Jenssen/SINTEF Mobility</b> – <i>Why are self-driving vehicles getting involved in crashes and what can we do to reduce conflicts with other road users?</i> |
| 14:45–15:15 | <b>Martin Ludvigsen/AMOS</b> – <i>AMOS Operation room</i>  |
| 15:15–15:45 | Coffee break   |
| 15:45–16:15 | <b>Thomas Porathe/NTNU</b> – <i>The problem is not automation, the problem is communication: autonomy, human factors and safety</i>                                    |
| 16:15–16:45 | <b>Edmund Førland Brekke/NTNU</b> – <i>World's first Autonomous Passenger and Bicycle ferry</i>  |
| 16:45–17:00 | Coffee break   |
| 17:00–18:00 | <b>Guided tour and demonstrations by AMOS Centre and Maritime Robotics</b>   |

- Sign up [here!](#) (the conference is free of charge)

\*HAL at Duke University (from MIT): Is the International Research in the Humans and Autonomy Lab focused on the multifaceted interactions of human and computer decision-making in complex sociotechnical systems with embedded autonomy. Employing human-systems engineering principles to autonomous system modelling, design, and evaluation and identifying ways in which humans and computers can leverage the strengths of the other in an autonomous system to achieve superior decisions together is the focus of HAL

\*\*NTNU AMOS - Centre for Autonomous Marine Operations and Systems (<https://www.ntnu.edu/amos>)

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