# KTH Naval Architecture Thesis presentations 7-8 June 2021

#### <u>Session 1 Monday 7 June 9.15-11.45</u> Sails and other fossil free propulsion

Zoom link: https://kth-se.zoom.us/j/63004887693

Arne Kvarnefalk & Oskar Robsarve	Nicholas Bouchet	Suzann Hertzog & Corentin Paret	Aron Attila Prusina	Severi Sarsila	Lukas Blau
Rig Load Measurements on Sailing Boat Christiane	Fatigue of a rigid wing sail designed for the shipping industry	Performance and manoeuvrability analysis of the wind powered cargo boat model, wP7M	Design of Electric Pod Propulsion Concepts for use in Displacement Crafts	Comparison of different wind propulsion devices on ships	Towards sustainable shipping: Recommendations for the mast design of a sailing cargo vessel

#### <u>Session 2 Monday 7 June13.15-15.30</u> Seakeeping –models and effects

Zoom link: https://kth-se.zoom.us/j/68281019641

Adrian Heijkenskjöld & Per Blomqvist	Gökhan Osman	Pawel Jan Beszta- Borowski	Jonathan Viinikka	Andrus Kesküla
Stötar och vibrationer ombord HSC: Excitationsmätning med accelerometrar i njurbälte?	Computational Analysis of Spray Deflector Designs	Motions and hydrodynamics of a 24m SAR vessel using CFD	Probabilistic Added Wave Resistance Predictions for Design of RoPax Ferry	Numerical Evaluation of a Planing Craft

### Session 3 Tuesday 8 June 9.15-11.45 Autonomous & unconventional marine vehicles

Zoom link: https://kth-se.zoom.us/j/69762286399

Oscar Onn	Gustav Ogesten	Daniel Workinn	Adam Olsson	Zlatan Ramic & Teo Rizvanovic	Anders Fox
Application of a Flight Chip in an Underwater Quadcopter	Electric hydrofoil SAR vessel	A high-level interface for an autonomous sailing vessel	Aspects on amphibious UAV	Design of an amphibious UAV	Design of wave energy converter

## Session 4 Tuesday 8 June13.15-15.30 Electrification & efficient manufacturing and design

Zoom link: https://kth-se.zoom.us/j/65574456820

Henrik Lindholm	Ulrik Sköldkvist	Sjoerd Sinnema	Sonja Wadelius	Varun Goel
Floating Terminal: Technical Lifetime of 60 Years	Investigation and implementation of rapid prototyping in development of a high-speed light craft	Introduction of UXV assets into naval fleet architectures through an MILP based naval fleet modelling tool	Evaluation of transition towards zero emission commuter ferries with a cost assessment	Environmental performance of fuel- based and battery-based propulsion system on a short route commuter ferry