

2017 AMOS Days

9 November 2017 at Scandic Lerkendal

08:00-08:30 Welcome by Acting Director Thor I. Fossen

08:30-10:00 Session 1: Underwater Robotics and Marine Biology

Chair: Professor Kristin Y. Pettersen

Co-chair: Professor Martin Ludvigsen

Applications and challenges for underwater swimming manipulators

Jørgen Sverdrup-Thygesen, PhD candidate

ROV-based photogrammetry for marine sciences

Stein Melvær Nornes, PhD candidate

Adaptive data collection: What robots can do for ocean science

Trygve Olav Fossum, PhD candidate

10:00-10:30 Coffee Break

10:30-12:00 Session 2: UAV Operations

Chair: Professor Tor Arne Johansen

Co-chair: Professor Thor I. Fossen

Design of a new UAV for marine operations

Anthony Hovenburg, PhD candidate

Coordinated ocean observations with hyperspectral imagers in small satellites and UAVs, Mariusz Grøtte, PhD candidate

From research to spinoff with Scout AS: Catching drones and inspecting ships

Dr. Kristian Klausen, Researcher

12:00-13:00 Lunch Buffet

13:00-14:30: Session 3: Marine Structures

Chair: Professor Jørgen Amdahl

Co-chair: Professor Torgeir Moan

Condition monitoring of wind turbine drivetrain

Mahdi Ghane, PhD candidate

Response assessment of structures subjected to cryogenic spills or in Arctic conditions - Modeling ductile/brittle transition behavior with large shell elements

Woongshik Nam, PhD candidate

Modelling of short- and long-term directional loads in design of offshore wind turbines

Jan-Tore Horn, PhD candidate

14:30-15:00 Coffee Break

15:00-16:30 Session 4: Marine Hydrodynamics

Chair: Professor Marilena Greco

Co-chair: Professor Claudio Lugni

Experimental and numerical analysis of a damaged ship section in waves

Mohd Atif Siddiqui, PhD candidate

Challenges in hydrodynamic model testing of marine structures in depressurized conditions, *Professor Claudio Lugni*

Recent hydrodynamic investigations – Floating solar islands and ringing of offshore wind turbines, *Professor Trygve Kristiansen*

16:30-18:00 AMOS partners and key scientists meet to discuss future research plans

18:30 Banquet