

**EXTERNAL SEMINAR**  
**AARHUS UNIVERSITY**  
**DEPARTMENT OF ENVIRONMENTAL SCIENCE**  
FREDERIKSBORGVEJ 399, 4000 ROSKILDE

**15 May 2017, 13.00 – 14.00**  
**Venue: ENVS – THE PAVILION**

**Title: Structural development of Baltic Sea animal production – implications on nutrient loading**

**Speaker: Senior Scientist Antti Iho, LUKE, Finland**

**Abstract:** Livestock production has undergone profound changes over recent decades and development seems to continue strongly. Small farms tend to exit production and large farms tend to get larger. The value of manure as a source of nutrients declines rapidly with the hauling distance. This, together with structural change leads to increasing spatial nutrient sequestration and to increasing risk of nutrient loading. Ex-post macro data of livestock farm structure was analyzed from eight Northern European countries surrounding the Baltic Sea. A Markov chain model was developed to estimate farm size changing probabilities and to predict ex-ante development of the farm size up to 2030. The model was built to reflect the simulated CAPRI –model (economic sector model for EU-agriculture) results of livestock production. The model is coupled with estimates of the associated per farm nutrient balances and loading risks.

The work is part of the project BONUS GO4Baltic “Coherent policies and governance of the Baltic Sea ecosystems” (2015-2018)

**Host:** Coordinator Senior researcher Berit Hasler, Aarhus University, [bh@envs.au.dk](mailto:bh@envs.au.dk)

**Project website address:** <http://go4baltic.au.dk>

**External guests** interested in attending the presentation should email Christel Ege-Johansen, [cej@envs.au.dk](mailto:cej@envs.au.dk)

