

EXTERNAL SEMINAR

AARHUS UNIVERSITY

DEPARTMENT OF ENVIRONMENTAL SCIENCE

FREDERIKSBORGVEJ 399, 4000 ROSKILDE

24 AUGUST 2016, 10.00 -12.30

Venue: The Pavillon, Department of Environmental Science

Title: "Integrated modelling on Water Quality"

Professor Catherine Kling, Iowa State University

A brief introduction:

Catchment scale modelling initiatives have been developed in both US and Denmark by integrating economic, ecological and hydrological model frameworks to link land surface activities (including agricultural activities) to the dynamics of freshwater and marine ecological status. This kind of model developments are valuable as guidance for cost-efficient water quality regulation. The seminar aims to present recent model developments and to discuss further development potentials and cooperation.

Agenda:

- 1. Professor Mette Termansen, Department of Environmental Science, Aarhus University:**
Introduction to the seminar
- 2. Professor Catherine Kling, Center for Agricultural and Rural Development, Department of Economics, Iowa State University:**
Optimization of Agricultural Conservation Investments to cost-efficiently reduce the Northern Gulf of Mexico Hypoxic Zone.
- 3. Senior Researcher Berit Hasler, Department of Environmental Science, Aarhus University:**
Spatial modelling of Nitrogen Abatement for Water Quality Targets: A Danish Catchment scale economic-ecological model TargetEcon N for Limfjorden
- 4. Senior Researcher Hans Thodsen, Department of Bioscience, Aarhus University:**
SWAT modelling of Danish Catchment: An illustration from the Limfjord Catchment
- 5. Senior researcher Marie Maar, Department of Bioscience, Aarhus University:**
The importance of local versus external nutrient loads for Chl a and primary production in the Western Baltic Sea. Marine modelling illustration using the ERGOM model.
- 6. Questions and discussion**

Seminar

