

The SWAMPS team invites your

Project coordination:

Dr. Arno Krause
Dr. Kristine Jung
Centre for Grassland
Ovelgönne



Dr. Heinrich Höper
State Authority for Mining,
Energy and Geology Lower
Saxony (LBEG), Hanover



Dr. Bärbel Tiemeyer
Thünen Institute of
Climate-Smart Agriculture
Braunschweig



Gerd Lange
Chamber of Agriculture
Lower Saxony
Oldenburg



Prof. Dr. Luise Giani
Soil Science
Carl von Ossietzky University Oldenburg



Prof. Dr. Rainer Buchwald
Vegetation Science and Nature Conservation
Carl von Ossietzky University Oldenburg

Funding: The project SWAMPS is funded by the European Regional Development Fund (ERDF), the Lower Saxony Ministry of Food, Agriculture and Consumer Protection and the Lower Saxony Ministry of the Environment, Energy and Climate Protection.



Practical information

Conference languages:
Presentations: English
Discussion and poster: German and English

Contact and information:

Dr. Kristine Jung
Centre for Grassland
Phone: +49(0)4401 / 82926-19
Email: kristine.jung@gruenlandzentrum.de

Conference website:
<https://www.swamps-projekt.de/veroeffentlichungen/news-und-events>



Conference venue

Carl von Ossietzky University Oldenburg

Bibliothekssaal
Uhlhornsweg 49-55
26129 Oldenburg / Germany
<https://uol.de/lageplan/?wo=Bibliothek>



Conference

Water management in organic soils under agriculture

Effects on greenhouse gas mitigation, nutrient retention, biodiversity and agronomy

19th and 20th February 2019 in Oldenburg (Germany)



Topics and Programme

At our conference “Water management in organic soils under agriculture” we aim to exchange experience and results on the following topics:

- Water management in farmed organic soils: How high can we go?
- Effects on greenhouse gas emissions: How low can we go?
- Effects on nutrient dynamics and biodiversity: Synergies or trade-offs?
- Biomass quality and economy: Does it pay off?

Tuesday, 19th February 2019

12:00 Registration and coffee

13:00 Welcome and introduction

*Kristine Jung (Centre for Grassland),
Heinrich Höper (LBEG), Luise Giani
(University of Oldenburg)*

Water management (I)

13:30 Subsurface irrigation and peatland water levels

Merten Minke (LBEG, DE)

13:50 Controlled drainage on a cultivated fen

Merja Myllis (LUKE, FI)

14:10 Water management for climate smart agriculture on peatlands using submerged drains

Heinrich Höper (LBEG, DE)

14:30 Sphagnum farming on former bog grassland in NW-Germany: it must be wet

Matthias Krebs (University of Greifswald, DE)

15:00 Coffee break & poster session

Programme

Tuesday, 19th February 2019

Water management (II)

17:15 Introducing pump regulated submerged drains to further diminish soil subsidence and CO₂ emission

Idse Hoving (Wageningen University & Research, NL)

17:35 Effective soil subsidence reduction of peatlands by pressurized drainage in the polder Spengen, The Netherlands

Jantine Hoekstra (Hoogheemraadschap De Stichtse Rijnlanden, NL)

18:00 Close of oral session

19:30 Conference dinner

Wednesday, 20th February 2019

Effects on greenhouse gas exchange

08:45 Monitoring of subsidence of agricultural peatlands and impact of submerged drains in The Netherlands

Jan van den Akker (Wageningen University & Research, NL)

09:05 Effects of extensive land use in the "Osterfeiner Moor" on peat and gyttja soils as well as on climate

Joachim Blankenburg (Geological Service Bremen, DE)

09:25 Advantages and cumulative effects of submerged drains and sub-surface irrigation in Dutch drained peat soils, a comparison study

Christian Fritz (Radboud University, NL)

Programme

Wednesday, 20th February 2019

09:45 Submerged drains and sub-surface irrigation in Dutch drained peat soils: effects of drains on CO₂ emissions in wet and dry periods
Stefan Weideveld (Radboud University, NL)

10:05 Effects of water management and grassland renewal on greenhouse gas emissions from intensively used grasslands on peat soils
Sebastian Heller (Thünen Institute, DE)

10:25 Coffee break

Effects on greenhouse gas exchange, biodiversity & nutrient retention

10:55 Estimation of GHG emission reductions based on vegetation changes after rewetting in Drentsche Aa brook valley
Liu Weier (University of Groningen, NL)

11:15 Requirements of successful meadow bird conservation concerning water management and grassland utilization
Heinrich Belting (NLWKN, DE)

11:35 Biodiversity of bog grassland - the ecological and conservation point of view
Rainer Buchwald (University of Oldenburg)

11:55 Effects of different water management regimes on the dynamics of phosphate and mineral nitrogen in the ditch systems of a fen and a bog soil under intensive grassland
Sarah Landscheidt (University of Oldenburg)

12:30 Lunch break (university canteen)

13:30 Excursion to the field site “Ipweger Moor“

16:30 Return to Oldenburg