

Workshop

The Causal Relations of Nitrogen in the Cascade

21 - 23 November 2005, Braunschweig - Germany

Programme

Monday 21 November

09.00 - 10.00 Registration + Coffee

Opening Session

10.00 - 11.00 Welcome and introductory presentations: Jan Willem Erisman (Chair COST Action 729), Matti Johansson (UNECE), Michel Sponar (EU), Ulrich Daemmgen (FAL).

Session: *General introduction on the topic*

11.00 - 11.45 **Invited presentation:** Nitrogen Saturation of Terrestrial Ecosystems: A Revised Framework - *Brigit Emmett*

11.45 - 12.30 **Invited presentation:** Adverse Impacts of Elevated Nitrogen Inputs on Ecosystems: An Overview - *Wim de Vries*

12.30 - 14.00 Lunch

Session: *Emission*

14.00 - 14.30 Comprehensive Emission Inventories as Tools for Policy Advice - *Ulrich Daemmgen*

14.30 - 15.00 Denitrification and Nitrous Oxide Emission in Agricultural Soils - *Peter Kuikman*

15.00 - 15.30 Wetlands as Hot Spots for Greenhouse Gases in Glacial Drift Areas - *Jurgen Augustin*

15.30 - 16.00 Coffee break

16.00 - 16.30 Understanding and predicting Nitrogen Fluxes at the Farm Scale - *Jorgen Olesen*

16.30 - 17.00 From Land Use to Farm Types: Availability and Potential of Agricultural Information at European Scale - *Adrian Leip*

17.00 - 17.30 Indirect N₂O Emission due to Atmospheric Nitrogen Deposition - *Albert Bleeker*

19.00 - ???.?? Workshop dinner at the Courtyard by Marriott Hotel

Tuesday 22 November

<i>Session:</i>	<i>Transport - Exchange - Deposition</i>
09.00 - 09.30	Soil - Atmosphere N ₂ O and CH ₄ Exchanges in Mediterranean Sclerophyllous Woodlands as affected by Global Change - <i>Simona Castaldi</i>
09.30 - 10.00	The Role of Atmospheric Nitrogen in the Baltic Sea Eutrophication - <i>Anita Lewandowska</i>
10.00 - 10.30	Consequences of N deposition on biosphere-atmosphere exchange of N and C trace gases in forests: results and modelling studies - <i>Klaus Butterbach-Bahl</i>
10.30 - 11.00	Coffee break
11.00 - 11.30	Land Atmosphere Exchange of Reactive Nitrogen Species in Europe - <i>Mark Sutton</i>
11.30 - 12.00	Estimation of Nitrogen Flux between the Atmosphere and Aquatic/Terrestrial Ecosystems in Hungary - <i>Szilvia Kugler</i>
12.00 - 12.30	Trends of Nitrogen in Air and Precipitation in Europe - a comparison of EMEP Model Results and Observations - <i>Hilde Fagerli</i>
12.30 - 14.00	Lunch
<i>Session:</i>	<i>Effects</i>
14.00 - 14.30	Does Organic Nitrogen play a significant role in the Nitrogen Cycle of Temperate Ecosystems? - <i>Lutz Breuer</i>
14.30 - 15.00	Separating the effect of Pollution, Climate Change, Wildlife and Forest Management on Forest Production and Ground Vegetation Biodiversity - <i>Salim Belyazid</i>
15.00 - 15.30	Relation of Nitrogen Deposition and Stand Structure in Northwest German Forest Ecosystems - <i>Henning Meesenburg</i>
15.30 - 16.00	Coffee break
16.00 - 16.30	Modelling Effects on Biodiversity by Eutrophication and Acidification with BERN - <i>Philipp Hubener</i>
16.30 - 17.00	Effects of different Forest Conversion Practices on Nitrogen Fluxes in an N-saturated Spruce Forest Ecosystem - <i>Nicolas Bruggeman</i>
17.00 - 17.15	Coffee break
17.15 - 17.30	Short introduction on the Workgroup sessions
17.30 - 19.00	Workgroup sessions
19.00 - 20.30	Posters (drinks + snacks)

Wednesday 23 November

09.00 - 10.00	Feedback from Workgroup sessions
10.00 - 10.30	Title not known yet - <i>Zbigniew Klimont</i>
10.30 - 11.00	Coffee break
11.00 - 11.30	Why did Nitrogen Management fail within Various Policy Arenas - <i>Peringe Grennfelt</i>
11.30 - 12.00	Work on Nitrogen Effects in CLRTAP - <i>Till Spranger</i>
12.00 - 12.30	Conclusions, Greetings and End of Workshop - <i>Jan Willem Erisman</i>

Poster presentations

Session: *Emission*

- Impact of nitrogen fertilization on loss of nitrogen from agricultural system - *Triin Teesalu*
- Farm-N internet model of farm N flows - *Nicholas Hutchings*
- Projection of NO_x, N₂O and NH₃ emission limits at regional level in Poland for fulfilling national obligations of international conventions and EU NEC directive - *Janina Fudala*

Session: *Transport - Exchange - Deposition*

- Investigating possibilities for a local ammonia policy - *Willem Asman*
- Atmospheric nitrogen concentrations in Finland: trends vs. emission reductions - *Tuomas Laurila*

Session: *Effects*

General Information

Place of Venue

The workshop will be held at the FORUM of the FAL (Forschungsanstalt für Landwirtschaft). The address of the FAL is :

Bundesallee 50
38116 Braunschweig

Tel: +49 531 5961010
Fax: +49 531 5961099

Information on how to get from Hannover to Braunschweig by train can be found on:
<http://www.db.de/site/bahn/en/start.html>

Furthermore it could be an option to ask your travel office to order an "airport-taxi" directly from airport Hannover to Braunschweig, which will be cheaper than a normal taxi.

Information on how to get to the FAL can be found on:
www.fal.de/de/service/anreise/braunschweig.asp

Registration

On Monday you have to register between **9.00** and **10.00**. Contrary to what was mentioned in the workshop flyer, no registration fee will be charged.

Lunches

The lunches on Monday, Tuesday and Wednesday are being served in the restaurant of the FAL and are sponsored by COST.

Workshop Diner

A workshop diner will be offered by COST and will be served at the hotel (see below) at Monday evening at **19.00**.

Poster Session

During the poster session of Tuesday evening **19.00-20.30** snacks and drinks will be offered.

Transport (Hotel - Workshop)

We will arrange buses for your transport from the hotel to FAL and vice versa. Transport will be arranged at Monday morning and evening, Tuesday morning and evening and Wednesday morning. Depending on the number of interested people we might also try to arrange transport on Wednesday afternoon.

The bus transfers will be as follows:

Monday 21 November

8.30 h. (sharp!) from Hotel Courtyard to the FORUM of the FAL
17.45 h. from FORUM to Hotel

Tuesday 22 November

8.30 h. (sharp!) from Hotel Courtyard to the FORUM of the FAL
20.45 h. from FORUM to Hotel

Wednesday 23 November

8.30 h. (sharp!) from Hotel Courtyard to the FORUM of the FAL

Hotel

The hotel where we made the block reservation is:

Courtyard by Marriott Hotel
Auguststr. 6-8
38100 Braunschweig
Tel: +49 531 4814 706
Fax: +49 531 4814 100

More information about the hotel can be found at:

http://marriott.com/property/propertypage/bwecy?WT_Ref=mi_left

If you have done this already, could you please let us know if you want to make use of the reservation at this hotel.

Special issue of Environmental Pollution

We are planning to publish papers of the different talks of this workshop as a special issue of Environmental Pollution. The speakers at this workshop are invited to hand in a draft version of their papers, preferably during the workshop but no later than 31-12-2005.

(Preliminary) List of Participants

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