

## SCHEDULE

SUNDAY	
<b>Welcome reception</b> Registration Exhibition about local history Swedish Game Food and drink	<b>Sunday 17.30-20.00</b> Museum of Västergötland
MONDAY	
<b>Registration</b> Registration and mounting of posters	<b>Monday 8.00-8.30</b> Rosers Salonger
<b>Oral session I: Precision Nitrogen Management</b> Keynote: Precision nitrogen management Refined nitrogen fertilization of winter wheat Sensing coincident nitrogen deficiency and water stress in wheat Determination of fertilizer requirements in dairy production systems based on pasture nitrogen concentrations Application of a nitrification inhibitor (Piadin®) along with slurry using strip till approach for optimizing nitrogen fertilizer efficiency - laboratory and field results	<b>Monday 8.30-10.00</b> Bruno Basso, USA Arne M. Ratjen, Germany Krzysztof Kusnierek, Norway Iris Vogeler, New Zealand Enrico Thiel, Germany
<i>Coffee break</i>	
<b>Parallel workshops a-h</b> a. Legumes for crop production and N supply b. Nitrogen in organic farming c. Crop and soil sensors to predict N requirements d. Nitrification and urease inhibitors e. Measures to reduce N losses f. Nitrogen budgets and indicators for best management practice g. Nitrogen and carbon interactions h. Modeling of N <sub>2</sub> O emissions	<b>Monday 10.30-12.00</b> Djäkne 1 (School next door) Djäkne 2 (School next door) Djäkne 3 (School next door) Djäkne 4 (School next door) Djäkne 5 (School next door) Biskop Thurgot (at Venue) Biskop Lönnermark (at Venue) Biskop Aurelius (at Venue)
<i>Lunch</i>	
<b>Poster session I</b> Presentation of poster 1-95	<b>Monday 13.00-14.00</b> Lobby
<b>Excursions</b> 1. Lake Vänern - water quality and fishery 2. Long term experiments at Bjertorp and Lanna 3. Precision agriculture technology – tools for farmers and researchers 4. Research facilities at Lanna research station – leaching and gas emissions 5. Visit to farms within the Swedish advisory program “Focus on nutrients”	<b>Monday 14.00-18.00</b> Bus 1 Bus 2 Bus 3 Bus 4 Bus 5
<b>Social event</b> A taste of Swedish midsummer celebration	<b>Monday 18.00-22.00</b> Läckö castle

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TUESDAY

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**Oral session II: Nitrogen dynamics in different farming systems**

**Tuesday 8.30-10.00**

Keynote: Nitrogen dynamics in different farming systems

Meagan Shipanski, USA

Nitrogen budgets of organic and conventional cropping systems:  
significance of specific inputs and of soil nitrogen stocks

Astrid Oberson, Switzerland

Nitrogen - Loss, source, transformation and attenuation within an intensive  
dairy farm in southeast Ireland

Owen Fenton, Ireland

Designing and evaluating arable cropping systems with cash and cover crop  
legumes in sole crop and intercrop to improve nitrogen use efficiency

Laurent Bedoussac, France

Nitrogen Use Efficiency - an important indicator for the utilization of  
nitrogen in crop production

Frank Brentrup, Germany

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*Coffee break*

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**Parallel workshops i-o**

**Tuesday 10.30-12.00**

i. N use efficiency in diversified cropping system

Djäkne 1 (School next door)

j. Models for yield and nitrogen forecast

Djäkne 2 (School next door)

k. Different forms of mineral fertilizer N

Djäkne 3 (School next door)

l. Improved management of organic N resources

Djäkne 4 (School next door)

m. Monitoring and modeling N leaching in watersheds

Djäkne 5 (School next door)

n. Effects of management practices on N<sub>2</sub>O emission

Biskop Thurgot (at Venue)

o. N efficiency in animal production

Biskop Lönnermark (at Venue)

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*Lunch*

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**Oral session III: Implementation of best management practices**

**Tuesday 13.00-14.30**

Keynote: Improved manure management, from research results to  
implementation on the farm

Lizzie Sagoo, UK

Designing an innovative nitrogen fertilization method based on the  
diagnosis of uses of current tools.

Clemence Ravier, France

CropSAT - A satellite-based support system for variable-rate  
supplementary fertilization of nitrogen in small grains production in  
Scandinavia

Mats Söderström, Sweden

Farmer attitudes and potential barriers to the use of processed organic  
fertilisers

Sean Case, Denmark

Nitrogen use efficiency within the Vittel mineral watershed: A participatory  
investigation to set up the best management practice at different scales

Arnaud Gobillot, France

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*Coffee break*

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**Poster session II**

**Tuesday 15.00-16.00**

Presentation of poster 96-190

Lobby

**Oral session IV: Microbial nitrogen processes**

**Tuesday 16.00-17.30**

Keynote: Ecology of microbes causing N loss and retention in arable soils

Sara Hallin, Sweden

Cover crops trigger nitrogen uptake by soil microorganisms

Florian Wichern, Germany

Dinitrogen emissions from codenitrification is the main loss pathway from  
urine amended grassland

Karl Richards, Ireland

Opposing Effects of Nitrogen and Phosphorus on Soil Microbial Metabolism  
and Soil Carbon Storage

Christopher Poeplau, Germany

Nitrification, denitrification and nitrous oxide emission as effected by soil pH management Shahid Nadeem, Norway

**Conference dinner**

**Tuesday 19.00-23.00**

Rosers salonger

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WEDNESDAY

**Oral session V: Nitrogen flows at the larger scale**

**Wednesday 8.30-10.00**

Development trends and solution scenarios for improved nitrogen efficiency

Tommy Dalgaard, Denmark

Nitrogen cascade at the landscape scale: Modelling the effect of climate, soils and agriculture on direct and indirect nitrogen emissions in contrasted rural sites

Patrick Durand, France

Using the field nitrogen balances as an indication of nitrogen source pressure change on water quality

Noeleen McDonald, Ireland

Impact of Nitrogen Use in Agriculture on Global Emissions of Nitrous Oxide (N<sub>2</sub>O) and Carbon Dioxide (CO<sub>2</sub>)

Lena Schulte-Uebbing, Netherlands

Effectiveness of Agri-Environmental Measures to Reduce Air and Water N Pollution Across Veneto Region, Italy

Nicola Dal Ferro, Italy

Changes in food consumption pattern and nitrogen demand of China's urbanization

Bing Gao, China

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*Coffee break*

**Workshop summary**

**Wednesday 10.30-12.00**

Summary of parallel workshops 1-15

Workshop chairs

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*Lunch*

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