

BASF Young Scientist's European Forum 2018

Assessment of the agronomic and environmental contribution from nitrogen stabilizers in future agriculture

29 - 30 August 2018

ARLA, Sønderhøj 14, 8260 Viby J (Aarhus), Denmark



Invitation and Purpose

Focus on nitrification inhibitors in agriculture, to benefit for the agriculture and the environment and lower output of greenhouse gases.

Gather PHD students working with DMPP related research in Europe to increase focus on nitrogen use efficiency.

Present some of the work with improved nitrogen management and create a platform for cross border discussions.

Highlight the options nitrification inhibitors have on nitrogen use efficiency, other nutrition, greenhouse gases and the general benefit to the grower.

BASF has solutions to the problem of N losses – from both slurry and solid fertilizers – of the greenhouse gases. BASF is working for sustainable agriculture in an innovative and profitable way.

Practical Information

Sign Up: <https://basfcropprotection.nemtilmeld.dk/44/>

Hotel: Please book you own hotel room at Zleep Hotel Aarhus, Viby Ringvej 4, 8260 Viby J. Denmark
www.zleephotels.com/Zleephotel/aarhus | +45 7023 5635

Contact: Ivan Brendstrup, BASF A/S,
Mobile: +45 3061 1697
Mail: ivan.brendstrup@basf.com

Payment: Participation in the Forum, dinner and transfer to the dinner is free.
Transport and hotel are at your own account.

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AGENDA

DAY 1 – 29 August 2018

Topics	Presenter	Time
Breakfast and registration		09:30
Welcome, agenda and objectives	Ivan Brendstrup	10:00
Introduction to BASF	Anders Frenndbo	10:15
Introduction to ARLA		10:30
Nitrogen management within BASF	Gregor Pasda	10:45
Basics on nitrification, its inhibition and ammonium as a plant nutrient	Alexander Wissemeier	11:15
Lunch		12:00
Flash presentations	PhD Students / Scientists	13:15
Coffee-break		15:00
Poster session and compilation of discussion topics for day 2	PhD Students / Scientists	17:00
End of the day – Transfer to hotel		17:30
Transfer from hotel to dinner at SEGES	Kristoffer Piil	18:30

DAY 2 – 30 August 2018

Topics	Presenter	Time
Breakfast and agenda	Ivan Brendstrup	08:00
Wrap up by facilitators and presenter. Neighbor reflection – questions in plenum per subject – “speed dating What’s in it for the farmer?”	All	08:15
Coffee-break		10:00
Where do we go from here? What did we learn?	All	10:15
Summary and closing	Ivan Brendstrup	11:15
Lunch		12:00

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INTENTION OF THE SESSIONS

Topic	Expected outcome
Flash presentations	> PhD Students and young scientists will present their work in 15 min. flash presentations
Poster session and compilation of discussion topics for day 2	> PhD Students and young scientists will defend their work in a standard poster session > In parallel, young scientists must summarize discussion on the environment and the outcome for the farmer. discussion panel day 2
Wrap up by facilitators and presenter. Neighbor reflection – questions in plenum per subject – “speed dating” – question in plenum	> ? to be defined > Proposal: an expert panel is defined and questions compiled in day one are put to the “round-table” for discussion > Experts panel proposal: <ul style="list-style-type: none">- G. Pasda (BASF) / A. Wissemeier (BASF)- ? (Aarhus)- ? (University Copenhagen)- ? (Arla)- ? (SEGES)

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PRESENTERS

Name	Subject
Yan Ma, UK	Efficacy and stability of biological and synthetic nitrification inhibitors
Noemi Mateo-Marin, E	Assessing the agronomical and environmental contribution of nitrogen stabilizers in future agriculture
Henrik Terts, DK	Greenhouse Gas emissions from cultivation of oil seed rape for biofuels.
Drishya Nair, DK	Nitrate leaching and nitrous oxide emissions from maize cropping system: mitigation potential of 3,4-dimethylpyrazole phosphate (DMPP)
Hanna Vahter, ES	
Kate Smith, UK	Quantifying diffuse pollution (i.e. nitrous oxide emissions, ammonia losses and nitrate leaching losses) from agricultural soils. Sustainable maize cultivation.
Jamie Recio, E	The effect of nitrification on NH ₃ and N ₂ O emissions in highly N fertilized irrigated Mediterranean cropping system.
Mario C. Monsalve, E	Zinc fertilizers influence greenhouse gas emissions and nitrifying and denitrifying communities in a non-irrigated arable cropland.
Adrian Bazal Keorri, E	
Monica N. Montoya, E	The role of the heavy metals as natural nitrification inhibitors and their effects on the archaeas and bacteria population in soil, biofortification and greenhouse gases emissions.