

**PRELIMINARY SCHEDULE FOR THE NOVA COURSE “Microbial N transformations and NO/N₂O emissions” 7-12
JUNE 2009**

Date	Time	Items	Teachers
Sunday 7/6	15.00-18.00	Arrival	Å Frostegård, L Bakken, J Mulder, P Dörsch, B Liu, L Bergaust
	18.00-19.00	Introduction	
	19.00-	Welcome party	
Monday 8/6	08.30-10.00	Lecture: N-transformations	L Bakken, J Mulder
	10.30-11.30	Lecture: N ₂ O emissions and carbon sequestration in agroecosystems	J Olesen
	Lunch 12.30-13.30	Lecture: Regulatory biology of denitrification; basic methodology	Å Frostegård
	14.00-18.00	Flux measurements, laboratory exercises	Å Frostegård, L Bakken, P Dörsch, B Liu, L Bergaust
	Dinner 19.30-22.00	Student presentations on own research; open bar	All teachers
Tuesday 9/6	08.30-09.30	Lecture: Denitrifier ecology and denitrifying communities	S Hallin
	10.00-11.00	Lecture: Functional genes in denitrification	L Phillipot
	11.00-11.30	Lecture: Denitrifiers' play with fire (NO)	L Bergaust
	11.30-12.00	Lecture: Transcription and function of reductases at different pH levels in soil	B Liu
	Lunch 13.00-17.00	Lab experiments	Å Frostegård, L Bakken, J Mulder, P Dörsch, B Liu, L Bergaust
	Dinner 19.30-22.00	Student presentations on own research; open bar	All teachers

Wednesday 10/6	08.30-09.30 10.00-11.30 Lunch 13.00-18.00 Dinner 19.30-22.00	Lecture: Basic elements of biogeochemical models Lecture: Flux measurements and modelling Data analysis/modelling Student presentations on own research; open bar	L Bakken L Klemedtson and J Nylander L Klemedtsson, J Nylander, Å Frostegård, L Bakken, P Dörsch, B Liu, L Bergaust All teachers
Thursday 11/6	08.00-18.00 19.00-	Excursion; Wastewater treatment and agricultural field site Social event	
Friday 12/6	08.30-10.00 10.30-12.30 Lunch 14.00-16.00	Lecture: Bacterial reporter genes Lectures: N fixation, sustainable agriculture Wrap-up, concluding seminar. Problems, challenges, possible solutions	O Nybroe K Lindström, E Wolde-meskel All teachers

Full names of teachers, see back of page!

List of teachers:

Åsa Frostegård, Dep. of Chemistry, Biotechnology and Food Science, Norwegian University of Life Sciences
Lars Bakken, Dep. of Plant and Environmental Sciences, Norwegian University of Life Sciences
Jan Mulder, Dep. of Plant and Environmental Sciences, Norwegian University of Life Sciences
Peter Dörsch, Dep. of Plant and Environmental Sciences, Norwegian University of Life Sciences
Binbin Liu, Dep. of Chemistry, Biotechnology and Food Science, Norwegian University of Life Sciences
Linda Bergaust, Dep. of Chemistry, Biotechnology and Food Science, Norwegian University of Life Sciences
Endalkachew Wolde-meskel, Hawassa University Ethiopia/Guest researcher at Dep. of Chemistry, Biotechnology and Food Science
Norwegian University of Life Sciences

Kristina Lindström, Department of Applied Chemistry and Microbiology, University of Helsinki
Leif Klemedtsson, Department of Plant- and Environmental Sciences, University of Gothenburg, Sweden
Josefine Nylander, Department of Plant- and Environmental Sciences, University of Gothenburg, Sweden
Sara Hallin, Dep. of Microbiology, Swedish University of Agricultural Sciences
Laurent Philippot, Soil and Environmental Microbiology, INRA/University of Burgundy, Dijon, France
Ole Nybroe, Department of Agriculture and Ecology, University of Copenhagen
Jørgen Olesen, Faculty of Agricultural Sciences, Aarhus University, Denmark