

Excursion to Danish NBS sites

Date	Time	Activity	Presenter	Topic	Location
10.06.2025	5:00-22:00	Travel from UHOH to Viborg			
11.06.2025	9:00-10:15	<ul style="list-style-type: none"> Tour with bus via Nørreå Valley to Foulum Official Opening; Welcome, & introduction to week program Short presentation on trans4num 	Tommy Dalgaard & Goswin Heckrath Tommy Dalgaard, Nele Lohrum (AU) & Torsten Müller (UHOH) Qirui Li (UHOH)		AU-Viborg Campus, Seminar room: M2 – 8814-3050
	10:30-12:30	<ul style="list-style-type: none"> Short presentation on AMAIZE-P (1 General short presentations) Presentations on AMAIZE-P and trans4num 	Torsten Müller (UHOH) PhD students and Postdocs + open audience	AMAIZE-P please see Appendix	AU-Viborg Campus, Seminar room: M2 – 8814-3050
	12:30-13:30	Lunch break			canteen of AU-Viborg campus
	13:00-14:00	<ul style="list-style-type: none"> Student group formation for case studies 	Torsten Müller, Marco Roelcke, & Forough Khajehei	See specification	AU-Viborg Campus, Seminar room: M2 – 8814-3050
	14:00-15:00	Driving to Aarhus			
	15:00-18:00	Visit Aarhus campus and Agro-Food Park and Aarhus Campus			
		<ul style="list-style-type: none"> Clover grass and plant-based fertilizers experiments 	Morten Winther Vestenaa, Innovation Center Organic Farming (ICOEL)	Grass-clover and garden/park waste based organic crop rotations.	https://maps.app.goo.gl/R9GyQXgL4KXi34yr5 . Labing Landevej and Labing Møllevvej crossing
		<ul style="list-style-type: none"> Visiting Agro Food Park (ICOEL) 	Morten Winther Vestenaa, ICOEL	Introduction to ICOEL and Nature Based Solution experiments in Denmark (organic fertilizer experiments, struvite for potatoes etc.)	Agro Food Park 26, 8200 Aarhus N
		<ul style="list-style-type: none"> Walking tour of Land-CRAFT Center and AU-Aarhus Campus 	Fabio Massimo Delle Grazie	Landscape research and solutions for sustainable development of agriculture	Aarhus Campus (Ole Worms Allé 3, 8000 Aarhus, Building 1171)
	18:00-20:00	free time and dinner as a group		site seeing and dinner in Aarhus	8000 Aarhus, Denmark
	20:00-21:00	Driving back to accommodation in Viborg			

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12.06.2025	8:30-16:00	<ul style="list-style-type: none"> Visit to Ausumgaard 	Esben Houe (Ausumgaard Bioenergy)	Biogas and green biorefinery	Holstebrovej 101, 7560 Hjerm
			August Kau Lægsgaard Madsen (PhD presentation)		
		<ul style="list-style-type: none"> Presentation from Climate Foundation and Greenlab Skive 	Pia Folkman et al.	Carbon capture and Industrial Symbiosis	Kåstrupvej 22, 7860 Spøttrup
		<ul style="list-style-type: none"> trans4num presentation: advancing Grass-Based Bioeconomy 	August Kau Lægsgaard Madsen (PhD presentation)	Evaluating the role of green biorefining in the green transition of Danish agriculture	
		<ul style="list-style-type: none"> Fur 	Torsten Müller	Discuss silica experiments and soil layers	Knudevej, 7884 Fur
	16:00-17:00	<ul style="list-style-type: none"> free time and coffee break in Fur 			
	17:00-19:00	Driving back to Viborg			
	19:00	Arrival at accommodation and free time			
Date	Time	Activity	Presenter	Topic	Location
13.06.2025	8:30-10:30	Driving to Askov			
	10:30-14:00	Askov longterm experiment	Ingeborg Frøsig Pedersen, Lasse Busk Holm and Camilla Toft Kaskholt (AU Dept Agroecology)	Long-term contrasting P fertilisation strategies, and the “Jyndevad experiment”	Askov forsøgsstation, Vejervej 55, Askov, 6600 Vejen
		Wrap-up in askov		Biochar Lysimeters and field experiments	
	14:00	Drive back to Viborg			
	15:00-15:30	P- experiments and struvite in Potatoes	Tommy Dalgaard		In farm visit on the way back to Viborg
	15:45- 17:00	Free time and coffee break			Bisballe- Almid
	18:00/18:30	Arrival in Viborg			
	19:00-21:00	Farewell dinner in Viborg		Buffet: Restaurant Flammen	
14.06.2025	4:45-22:00	<u>Travel from Oasen Viborg to UHOH</u>			

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Presentations by AMAIZE-P

No	Presenter		Presentation topic	Duration (min)
1	Prof. Dr. Torsten Müller		Introduction of AMAIZE-P	10-15
	Subject area 1) Genetic potential			
1	1.1	Wanda Haller	Evaluating combining ability in testcross hybrids	6-7
2	1.2	Pia Engl	Understanding the genetic mechanisms underlying co-regulation of phosphorus and nitrogen uptake in maize	6-7
3	1.3	Nasim Gandomdout	Robustness of low-phosphate response networks in greenhouse and field grown Maize genotypes	6-7
	Subject area 2) Management at field and farm scale			
4	2.1	Chieh Fu Hsiao	Model-based optimization of P-use-efficiency in different maize cropping systems	6-7
5	2.2	Syeda Tahira Fatima Jafri	The influence of Lupine root exudates on Maize P uptake: A Hydroponic Trial	6-7
6	2.3	Khandoker Ahammad & Saike Jiang	Noninvasive phosphate detection from soil and maize canopy	6-7
7	2.4	Huiyan Wang	Uptake and allocation of heavy metals from P-fertilizers along the soil-plant-atmosphere continuum	6-7
	Subject area 3) Nutrition and recovery			
8	3.1	Sepideh Sadighbathi	The impact of reduced phosphate availability on lipid oxidation in maize, their digestive metabolism, uptake and atherogenic potential	6-7
9	3.2	Dokyung Lee	Modification of Pig gut microbiota and enhancement of phytate utilization	6-7
10	3.3	Kea Purwing	Recovery of phosphorus and nitrogen from biogas digestate	6-7
11	3.4	Leiddi Leal	Hydrothermal conversion of biomass to carbon materials with phosphate recovery	6-7
	Subject area 4) Economic evaluation and synthesis			
12	4.1	Pascal Wendel	Economic and Environmental Impact of Fertilizer Price Shocks on German Agriculture with a Highlight on Crop Rotations: A Modeling Approach	6-7
13	4.3	Mamadou Jallow	Phosphorus depletion and food security: evaluating the strength and weaknesses of current modelling approaches	6-7