

DASIM Conference Program - Tracing Denitrification

Time	March 12	Talk	Time	March 13	Speaker	Talk	Time	March 14	Speaker	Talk
			0830-1000			Session 1: Soil heterogeneity - a hard nut to crack in every respect	0830-1030			Session 4: The real world - N losses and mitigation strategies in agricultural ecosystems
			0830-0845	Talk 1-1	Steffen Schlüter	Physical constraints for respiration in microbial hotspots in soil and their importance for denitrification	0830-0845	Talk 4-1	Peter Dörsch	Mitigating N ₂ O emissions from soil: the role of soil pH management
			0845-0900	Talk 1-2	Xiaotong Song	Oxygen-regulated nitrous oxide production in an in situ upland agricultural soil	0845-0900	Talk 4-2	Magdalena Wallmann	Nitrous oxide emissions during one year from different fertilizer treatments in Swedish grain production
			0900-0915	Talk 1-3	Eugenio Diaz-Pines	Online measurements of nitrous oxide in the soil profile of a pre-alpine grassland subjected to extreme climatic manipulations	0900-0915	Talk 4-3	Carlo Lammirato	Nitrous oxide emissions from agricultural soil during a complete crop rotation: seasonal dynamics, nitrogen form effects and environmental drivers.
			0915-0930	Talk 1-4	Longlong Xia	Simultaneously quantifying gaseous N (N ₂ , NH ₃ and N ₂ O) emissions from a flooded paddy field under different N fertilization methods	0915-0930	Talk 4-4	Laurence Yeung	In situ quantification of biological N ₂ production using naturally occurring ¹⁵ N ¹⁵ N
			0930-0945	Talk 1-5	Xiaoyuan Yan	Exploring the national key influencing factors of denitrification rate in Chinese paddy soils	0930-0945	Talk 4-5	Marcus Zistl-Schlingmann	Dinitrogen emissions as an overlooked component of the N balance of montane grasslands
			0945-1000	Talk 1-6	Lena Rohe	Soil structure and saturation effects on denitrification and oxygen distribution	0945-1000	Talk 4-6	Kjell Rune Jonassen	Mitigating N ₂ O emissions from agricultural soils by fertilization with digestates enriched with N ₂ O reducing bacteria.
			1000-1030	Coffee break			1000-1015	Talk 4-7	Andreas Gättinger	The impact of long-term organic farming on soil-derived greenhouse gas emissions
			1030-1200			Session 2: What's new? Advances in methods, analytical tools and modeling at various scales	1015-1030	Talk 4-8	Sopie Zechmeister-Bolstenstern	N ₂ O emissions and NO ₃ - leaching from contrasting regions in Central Europe and influence of soil, crops and climate: a modelling approach
			1030-1045	Talk 2-1	Joachim Mohn	Comparison of N ₂ O isotope spectrometers for high-precision measurements in ambient air and incubation experiments	1030-1100	Coffee break		
			1045-1100	Talk 2-2	Longfei Yu	Partitioning N ₂ O sources with isotopes: from ground to atmosphere	1100-1200	Final talk	Tim Clough	Denitrification: what do we know and where to from here?
			1100-1115	Talk 2-3	Caroline Buchen	Using the N ₂ O isotopocule mapping approach to improve our understanding of N ₂ O processes in field studies	1200	Lunch and End of Conference		
			1115-1130	Talk 2-4	Benjamin Wolf	Using the isotopic composition of N cycle compounds to test process descriptions in biogeochemical models				
			1130-1145	Talk 2-5	Reinhard Well	A new look at N ₂ field fluxes by in situ He/O ₂ flushing and diffusion modelling.				
			1145-1200	Talk 2-6	Klaus Butterbach-Bahl	A new Helium soil core incubation system to directly quantify soil denitrification in presence of active plants				
1200	Start Registration		1200-1300	Lunch						
			1300-1430			Session 3a: Illuminating soil N transformation processes - drivers, effectors, interactions				
			1300-1315	Talk 3-1	Zucong Cai	N losses via the coupled nitrification/denitrification in paddy soils				
			1315-1330	Talk 3-2	Yi Zhang	The role of heterotrophic nitrification in the terrestrial nitrogen cycle				
			1330-1345	Talk 3-3	Sebastian Fiedler	Intercomparison of two isotopic methods for source differentiation of N ₂ O emissions from soils				
			1345-1400	Talk 3-4	Ronny Surey	Importance of organic matter fractions for denitrification in agricultural soils				
			1400-1415	Talk 3-5	Francois Malique	A review of plant effects on soil denitrification				
			1415-1430	Talk 3-6	Pauline Rummel	Effect of crop N uptake and rhizodeposition on denitrification				
			1430-1600	Coffee break & Poster Session B						
			1600-1730			Session 3b: Illuminating soil N transformation processes - drivers, effectors, interactions				
			1600-1615	Talk 3-7	Jing Wie	Identification of Main N ₂ O Production Pathways of a Novel Energy Neutral Nitrogen-Removal Process for Waste Water Treatment				
1600	Conference opening	Christoph Müller & Kristina Kleineidam	1615-1630	Talk 3-8	Yi Cheng	Soil pH is a good predictor of dominating N ₂ O production pathways under aerobic conditions				
		Peter Kämpfer, Vice President	1630-1645	Talk 3-9	Katharina Lenhart	Plants - another source of N ₂ O in terrestrial ecosystems				
1630-1730	Opening talk Lars Bakken	Denitrification - ecophysiology ruminations	1645-1700	Talk 3-10	Dianming Wu	Exchange of nitrous acid (HONO) between soil and atmosphere				
			1700-1715	Talk 3-11	Marcus A. Horn	Regulation of peatland denitrifiers - from ecosystems to single cells				
1730-2030	Poster Session A & Icebreaker Party		1715-1730	Talk 3-12	Zhijun Wie	Interaction effect of straw amendment and nitrogen fertilizer application controls the magnitude and sources of soil-borne N ₂ O and N ₂ fluxes				
			1830-1930			Experimental lecture at Liebig Museum www.liebig-museum.de				
						or Experimental lecture at Mathematikum www.mathematikum.de				
			1930-2130			Get together at Mathematikum				