

14:45 – 16:00	Parallel sessions 11 May 2022 (Part I)		
DEDICATED SESSION (SYSTEMIC) Evaluation of nutrient recovery at large scale biogas demonstration plants I: Performance, agronomical aspects and practical experiences Chair: Oscar Schoumans (WUR)	DEDICATED SESSION (Nutri2cycle) Measures to optimize N, P and Organic Carbon recovery in animal husbandry Chair: Evi Michels (UGent)	DEDICATED SESSION (NL NEXT LEVEL MESTVERWAARDEN) Chair: Gert van Duinkerken (WUR)	SESSION T1A Fertilising with manure, digestate and derived products Chair: Bart Vandecasteele
De Deel	De Peel	Bevelanden	Rijk van Nijmegen
Welcome and introduction session Schoumans, O.F., WUR (NL)	Transition towards a more carbon and nutrient efficient agriculture in Europe – Introduction to Nutri2Cycle Akyol, Ç., Ghent University (BE)	Demand for processed manure products on dairy and arable farms Van Dijk, W., WUR (NL)	Stable isotopes of oxygen: the key to understand the soil fate and cycling of fertilizer phosphorus? Alvarez Salas, M., ETH Zürich (CH)
Nutrient recovery at large scale demonstration plants Meers, E., Ghent University (BE)			
Agronomical aspects and application of products in practice Sigurnjak, I., Ghent University (BE)	In the quest for sustainable management of liquid manure fractions- insights from a consequential life cycle assessment Ravi, R., Ghent University (BE)	Evaluation of the legal status of products from processed manure Postma, R., NMI (NL)	Agronomic assessment of first-year phosphorus bioavailability and crop yield performance of different agri-food processing recycling derived fertilisers (RDFs) compared to mineral phosphate fertiliser Forrestal, P., Teagasc (IE) CANCELLED
Web-based Business Development Package Verbeke, M., VCM (BE)	An economic assessment of researched promising innovations in Nutri2Cycle Bamelis, L., United Experts (BE)	What is the effect of regional manure treatment for veal and pig manure on nitrogen and greenhouse gas emissions? Casu, F., WUR (NL)	Production of bio-based fertilizers by blending animal manures and slurries: puzzling the effects of slurry treatment and animal species on their nutrients content Prado, J., Lisbon University (PT)
	Rapid socio and agri-environmental assessment of a technology developed to recover ammonia from pig slurry Bonmatí, A., Institute of Agrifood Research and Technology (ES)	Is a regional manure treatment plant an economic solution for pigs and veal calves? Gollenbeek, L., WUR (NL)	The effect of tailoring N:P ratios mixing manures with mineral fertilizers in their mineral N leaching potential Prado, J., Lisbon University (PT)
General discussion	Bio-acidification of animal manure: efficiency and mechanisms involved Regueiro-Carrera, I., University of Copenhagen (DK)		
	To feed or not to feed? Why we should (or shouldn't) feed agro-residues to insects. Insect breeding as alternative disposal route – an LCA perspective Beyers, M., University of Copenhagen, DK	Demand and supply manure market De Koeijer, T, WUR (NL) CANCELLED	

16:15 – 17:30	Parallel sessions 11 May 2022 (Part II)		
DEDICATED SESSION (SYSTEMIC) Evaluation of nutrient recovery at large scale biogas demonstration plants II: Impact assessment and legislative aspects Chair: Annabelle Williams (RISE)	DEDICATED SESSION (Nutri2cycle) Field experience on application of biobased mineral fertilisers in comparison to fossil-based mineral fertilizers Chair: Peter Parea (ZLTO)	DEDICATED SESSION (Betere Stal, Betere Mest, Betere Oogst) From innovative stables to better manure and improved crop yields Chair: John Verhoeven (WUR)	SESSION T4A Environmental impact of manure/digestate management and treatment Chair: Anna Bur (Izes)
De Deel	De Peel	Bevelanden	Rijk van Nijmegen
Welcome and introduction session Williams, A., RISE (BE) Business Case Evaluation, KPIs and Business Models Hermann, L., Proman (AU)	Low temperature vacuum stripping field pilot plant for ammonia recovery from pig slurry Cerrillo, M., Institute of Agrifood Research and Technology (ES)	BSMO project overview: From innovative stables to better manure and improved crop yields Verhoeven, J., WUR (NL)	Improved biogas potential and reduced greenhouse gas emissions from stored pig slurry using a novel methanogenic inhibitor Nolan, S., GlasPort Bio (IE)
Environmental Impact (EIA) and Life Cycle Assessment (LCA) Schoumans, O., WUR (NL) and Hermann, R., Proman (AU)	An evaluation of agricultural value and environmental impact of the use of recycling-derived fertilizers van de Sande, T., Inagro (BE)	Future cow barn in relation to manure quality Galama, P., WUR (NL)	How the anaerobic digestion, separation and acidification change ammonia and GHG emissions of cattle slurry management Moscatelli, G., CRPA (IT)
Legal aspects and incentives to stimulate market developments Hermann, L., Proman (AU)	Laboratory and field assessment on the nitrogen value of manure-derived biobased products Luo, H., Ghent University (BE)	Manure processing for commercial manure products Gollenbeek, L., WUR (NL)	How do precision feeding and mechanical stirring affect ammonia and GHG emissions during manure storage in dairy cattle farms? Morey, S.L., IRTA (ES)
SYSTEMIC's roadmap: main conclusions and policy sound messages Schoumans, O., WUR, (NL)	Assessment of animal manures application as partial substitutes of mineral fertilizers in an apple orchard Esteves, C., Lisbon University (PT)	The use of slurry versus separated manure products in crop production Van Dijk, W., WUR (NL)	Can digestates alone or together with biochar improve nitrogen availability and decrease greenhouse gas emissions in organic farming? Bünemann, E., Research Institute of Organic Agriculture (CH)
	Analysis on which bio-based fertiliser refinement level enhances circular potato growing most Hendriks, C.M.J., WUR (NL)	General discussion	Manure biochar as a potential promising adsorbent for Cd-polluted soil remediation Lataf, A., University of Hasselt (BE)

14:30 – 15:45	Parallel sessions 12 May 2022 (Part I)		
DEDICATED SESSION (Fertimanure) European nutrient balance landscape and market opportunities for closing nutrient loops Chair: Laia Llenas Argelaguet (BETA)	SESSION T4B Environmental impact of manure/digestate management and treatment Chair: Rembert van Noort (NCM)	SESSION T3A Process innovations in manure & digestate treatment Chair: Marie-Line Daumer (INRAE)	SESSION T1B Fertilising with manure, digestate and derived products Chair: Lars Stoumann Jensen (UC)
De Deel	De Peel	Bevelanden	Rijk van Nijmegen
Opening of the session Llenas Argelaguet, L., BETA (ES)	Higher nitrate leaching under cattle slurry than under mineral fertilizer, but soil N as major source of leached nitrate Bünemann, E., Research Institute of Organic Agriculture (CH)	Influence of CO₂ concentration on ammonia recovery during gas-liquid stripping of anaerobic digestate Palakodeti, A., KU Leuven (BE)	Effect of recycling-derived fertilisers and tailor-made blends as a synthetic N fertiliser substitute tested under controlled laboratory conditions Saju, A., Ghent University (BE)
Current situation of manure production and management in EU. Nutrient imbalance analysis in six European countries Zilio, M. University of Milan (IT)	Plasma-based nitrogen-fixation can reduce ammonia and methane emissions from livestock manure Nyvold, M., N2 Applied (NO)	Technological evaluation of membrane-based manure treatment installations – Pre-treatment, membrane filtration, fouling, cleaning and performance Nijmeijer, K., Eindhoven University of Technology (NL)	A nitrogen loss monitor for slurry application Toft Madsen, C., Biocover (DK)
Market landscape analysis of bio-based fertilizing products Špicnagel Ćurko, A.M., IPS Konzalting (HR)	Factors affecting GHG and ammonia emissions in maize fields irrigated with the liquid fraction of pig manure. Noguerol, J., IRTA (ES)	Reducing the chemical consumption in manure and digestate treatment by optimizing process configurations Smith, G., Nijhuis Saur Industries (NL)	Quality assurance using near-infrared spectroscopy (NIRS) on board of tank trailers for the determination of the nutrient content of slurry Derikx, P., WUR (NL)
FERTIMANURE fertilizing products – Agronomic performance and competitiveness in the market Meers, E. Ghent University (BE)	Acid activation increases plant P availability from P-rich biochars and ashes Kopp, C., University of Copenhagen (DK) Quantifying copper and zinc flows in pig production: effect of composting Gourlez, E., Animine (FR)	Impact of digestate origin on the growth of green microalgae for the circular bioeconomy Fernandes de Souza, M., Ghent University (BE)	Yield and nutritional quality of lettuce as affected by bio-based fertilizers application in peri-urban agriculture Kebalo Lelenda, F., INRAE (FR)

16:00 – 17:15	Parallel sessions 12 May 2022 (Part II)		
DEDICATED SESSION (Fertimanure) Innovative manure processing plants for the production of marketable bio-based fertilisers Chair: Joan Colón (BETA)	SESSION T1C Fertilising with manure, digestate and derived products Chair: Sander Vandendriessche (Inagro)	DEDICATED SESSION (NITROMAN) Ammonium salts and mineral concentrates from manure in Flanders and The Netherlands Chair: Inès Verleden (Inagro)	SESSION T3B Process innovations in manure & digestate treatment Chair: Victor Riau (IRTA)
De Deel	De Peel	Bevelanden	Rijk van Nijmegen
Opening of the session Colón, J., University of Milan (IT)	Nitrogen availability in an apple orchard fertilized with manures: a laboratory experiment Esteves, C., University of Lisboa (PT)	Ammonium salts and mineral concentrates from manure in Flanders and The Netherlands Verleden, I., Inagro (BE)	Iron zero-valent nanoparticles addition to enrich methane in pig slurry thermophilic and mesophilic anaerobic digestion Cerrillo, M., IRTA (ES)
On-farm biorefinery for bio-based fertilisers production as an innovative technological solution for pig slurry valorisation Guerra, N., BETA (ES)	Ammonia abatement costs for the application of acidified liquid organic fertilizers in winter wheat and grassland Jorissen, T., Hochschule Osnabrück (DE)	Fertilisation opportunities on forage crops Adriaens, A., Universiteit Gent (BE)	Screening N adsorption capacity of biochars to reduce NH3 emissions during manure storage, anaerobic digestion and composting Viaene, J., ILVO (BE)
Nutrient recovery from cattle manure through a novel thermo-chemical conversion process Schönfeld, S., Fraunhofer Institute UMSICHT (DE)	Microfiltered Digestate to Fertigation, an integrated system to improve nutrient upcycling, use efficiency and reduce emissions Moscatelli, G., CRPA (IT)	Fertilisation opportunities on vegetables De Nies, J., PSKW (BE)	Configuration design and performance of separation systems to valorize the digestate in maize fertigation Finzi, A., University of Milan (IT)
Producing bio-based fertilisers from co-digested dairy cattle slurry at the on-farm APF pilot plant in the Netherlands Schoumans, O., WUR (NL)	Effects of row-injected cattle slurry on yields of silage maize Hansen, M. N., SEGES (DK)	Environmental impact Verleden, I., Inagro (BE)	Ductor technology: Turning high N waste into single feedstock for biogas and renewable fertilizer production. Mannheim, T. Ductor AG (CH)