

Tuesday 24 th September 2024	
Time	MORNING-AFTERNOON
8:30	Registration
9:00	Conference opening
9:30	Keynote: " Meta-analysis of greenhouse gas and ammonia emissions from manure: results, perspectives and lessons " - Mélynda Hassouna (INRAE, France) and Tony Van der Weerden (AgResearch, New Zealand)
10:30	Coffee break
11:00	Session 1: On-farm emission measurement techniques and protocols
11:00	IoT device for the continuous monitoring of ammonia levels in livestock facilities Navarrete, E., Llobet, E., Domínguez-Púmar, M., Brown, P., Alon, T
11:15	Experimental investigation of a low-cost online monitoring tool to manage barn climate and emissions from livestock housing systems Janke, D., Sahu, H., Coorevits, K., Amon, T., Amon, B
11:30	CLEANR3 – Development of an innovative bioscrubber system with one third of the investment and operating costs Guingand, N., Rousselière, Y., Poisbeau, F., Carlo, T
11:45	Machine learning algorithms to simplify ammonia sampling strategy with wireless sensors on a naturally ventilated dairy farm Rosa, E., Rincon, L., Paino, N., Merino, P
12:00	Improving the dutch ammonia protocol for housing systems: positioning of sampling points and use of continuous measurements with sensors Mosquera, J., Hol, J.M.G., Ogink, N.W.M
12:15	Validation of the tracer gas (CO₂) ratio method for goat housing systems Mosquera, J., Hol, J.M.G., Ogink, N.W.M
12:30	Emission measurements in a naturally ventilated dairy barn using a direct method to determine ventilation rates: a pilot study Coorevits, K., Declerck, A., Laanen, L., Brusselman, E., Demeyer, P., Norton, T
12:45	Lunch
14:00	Keynote: " Potential of new sensing techniques to assess on-farm environmental performance "- Nico Ogink (Wageningen University Research). Followed by Open Discussion
15:00	Poster Session 1 and Poster Session 2
15:30	Coffee break
16:00	Session 2: Animal strategies to mitigate emissions: animal feeding and breeding.
16:00	Benzoic acid inclusion in fattener pig diets improves feed efficiency and reduces environmental impact as demonstrated by life cycle assessment Pérez Calvo, E., Lagadec, S., Drique, C., Marugan, C., Garcia, A
16:15	The impact of restricted grazing on the efficacy of Bovaer® Van De Gucht, T., Vandaele, L., Walker, N., Peiren, N.
16:30	From the feed to the field: Effect of the level of dietary protein and the use of a blend of feed additives on gaseous emissions from fatteners pig slurry Fuertes, E., Sarri, L., Cantero-Martínez, C., Fernández-Ortega, J., Pérez-Calvo, E., Calderón, A., Balcells, J., Seradj, A.R., de la Fuente, G
16:45	Effect of extruded linseed supplementation in dairy cow diets on methane emissions from naturally a naturally ventilated housing Schrade, S., Zeyer, K., Poteko, J., Mohn, J., Zähler, M
17:00	End of scientific activities

Wednesday 25 th September 2024	
Time	MORNING
9:00	Keynote: "EmiMin - Results of measures to reduce emissions from livestock buildings in Germany" - Brigitte Eurich-Menden (KTBL, Germany)
09:45	Session 3: Mitigating emissions from livestock buildings: facilities and management
09:45	Measurement campaign on ammonia emissions from traditional naturally ventilated dairy barns Declerck, A., Coorevits, K., Laanen, L., Brusselman, E
10:00	Chemical and biological surfactant treatments to mitigate methane emissions from manure pits in pig barns Ambrose, H.W., Dalby, F.R., Feilberg, A., Kofoed, M.V.W
10:15	The effect of daily manure draining on ammonia and methane emissions from a fattening pig barn Vandenbussche, C., Verfaillie, A., Brusselman, E.
10:30	Good engineering practices for evaluating indoor air quality and emissions in livestock housing using computational engineering techniques Izquierdo, S., Morales-Hernández, M., Montañés, C., Miana, M
10:45	Impact of three heating systems configurations on gas emissions in swine buildings Godbout, S., Palacios, J.H., Brassard, P., Mila Saavedram, L., Turgean, J.G., Ricard, M.A., Turcotte, S
11:00	Coffee break
11:45	Session 3: Mitigating emissions from livestock buildings: facilities and management
11:45	Ammonia emission mitigation by use of water in dairy housing van Dooren, H.J.C., Groot Wassink, J.K., Kamstra-Brouwer, H.R., Brandsma, J.
12:00	Effect of a complex of natural microorganisms added to slurry in pig housing on ammonia emissions Lagadec, S., Amin, K., Kolytcheff, N., Gardie, V., Travers, M., Martin, A., Robin, P
12:15	Greenhouse gas and ammonia emissions in Brazil swine production - A comparison between natural and mechanical ventilation in barns de Oliveira, P.A.V., Coldebella, A., Marcanzoni, C.B.Victoria., Tavares, J.M.R.
12:30	Poster Session 3
13:00	Lunch

Wednesday 25th September 2024	
Time	AFTERNOON
14:00	Session 4: Emission mitigation from manure storage
14:00	Treatment of manure methane emission in full-scale biofilter Falk, J.M., Kjeldsen, P., Buck, C., Fredenslund, A.M., Scheutz, C
14:15	Reuterin based biological treatment to mitigate methane emissions from pig slurry storage Ambrose, H.W., Bambace, M.F., Marietou, A., Schwab, C., Kofoed, M.V.W., Feilberg, A
14:30	Emissions of ammonia and methane from farm-scale tent covered manure storage tanks Kasper, P.L., Holm, M
14:45	Ammonia and greenhouse gases emissions during storage of excreta from poultry fed with spirulina as alternative feed Fangueiro, D., Zangoli, C., Esteves, C., Chrysanthopoulos, S., Pocheville, S., Almeida, A.
15:00	Poster Session 4
15:30	Coffee break
16:15	Session 4: Emission mitigation from manure storage
16:15	Slurry storages with low methane emission Guldberg, L.B., Vazifekhoran, A.H., Lemes, M., Adamsen, A.P., Feilberg, A., Hansen, M.J.
16:30	Farm-scale emission measurements to determine emissions from slurry stores Kupper, T., Sintermann, J., Valach, A.C., Häni, C
16:45	A decade of on-farm measurements of emissions from manure storage in Canada VanderZaag, A., Baldé, H
17:00	Working Groups: Special issue on emissions from livestock farms- Biosystems Engineering and other initiatives
18:00	End of scientific activities
20:00	Gala Dinner

Thursday 26 th September 2024	
Time	MORNING-AFTERNOON
9:00	Keynote: " Best Available Techniques (BAT) for emission prevention and control in the livestock sector " - Francesco Presicce (JRC-European Commission, Spain)
09:45	<i>Round table: From Science to practice</i>
11:15	Coffee break
11:45	Session 5: Inventories, modelling and policy makers
11:45	Enhancing circular agriculture: Strategies and challenges in integrating livestock and crop production systems Lombardi, M., Dynes, R., Taylor, A., van der Weerden, T., Akkal-Corfini, N., Adjacin, J.S., Eugène, M., Hassouna, M
12:00	Evaluation of the performance of extant mathematical models predicting enteric methane from ruminant raised in pastoral systems Akinropo, T.F., Ricci, P., Faverin, C., Ciganda, V.S., Morgavi, D.P., Munoz, C., Rodriguez, R., Eugene, M.
12:15	Designing good TIER 2 and 3 emission inventory methodologies Hutchings, N.J., Amon, B
12:30	Strategies to improve the environmental sustainability in dairy farming systems Dinuccio, E., Dela Pierre, F., Rollè, L
12:45	Mechanistic modelling of ammonia emissions for fattening pig units associated to external storage pit Pardioleau, S., Guyot, T., Guingand, N., Robin, P., Espagnol, S
13:00	Poster Session 5
13:30	<i>Conclusions and closing ceremony</i>
13:45	Lunch

Poster programme

Tuesday 24 th September 2024	
Time	MORNING-AFTERNOON
15:00	Session 1: On-farm emission measurement techniques and protocols
	Custom made calibration set-up for open path lasers Declerck, A., Laanen, L., Brusselman, E
	PROJECT EMIMOD: "Advancing techniques for measurement, modeling, and evaluation of emissions in livestock buildings" Wolf, U., Wagner, K., Horlacher, D., Christ, F., Eurich-Menden, B
	Insights on UAV-based methods for dust and gas emissions measurement: sensing technologies and protocols in the perspective of rapid on-farm assessments Becciolini, V., Mattia, A., Merlini, M., Rossi, G., Barbari, M., Conti, L
	Performance of low cost ammonia sensors in barn environment during a short time exposure test Verfaillie, A., Maertens, H., Coorevits, K., Laanen, L., Brusselman, E
	Methodology for quantification of emissions from pig slurry storage systems and application plots Terrero, M.A., Oumaima, E.B., Gómez, M., Faz, A
	Methodologies to estimate GHG and NH₃ emissions at farm scale in mediterranean areas Perea-Cachero, A., Mateo-Marín, N., Friuli, M., Dela Pierre, F., Rollè, L., Clavería, I., Guillén, M., Quílez, D., Daudén, A., Dinuccio, E., Herrero, E
	How to estimate GHG and NH₃ emission factors in open livestock building? Improvement of the "simplified method" Vergé, X., Robin, P
15:00	Session 2: Animal strategies to mitigate emissions: animal feeding and breeding.
	Potential contribution of feed spillage in pig barns to slurry methane emission Dalby, F.R., Wang, R., Hansen, M.J
	Effects of restricting intake on manure greenhouse gas emissions of feedlot steers De Bernardi, M., Thompson, L., Cibils, A
	The use of alternative protein and energy sources in pig feeds might reduce ammonia emission from slurry Piquer, L., Pérez, J.F., Calvet, S., López, E.S., Cano, C., Belloumi, D., Martínez, M., Kaikat, I., Solá-Oriol, D., Cersuelo, A.
	The inclusion of brewers spent grains in pig diets modifies slurry characteristics and gaseous emissions Piquer, L., Calvet, S., García-Rebollar, P., Piquer, O., Cano, C., Belloumi, D., Martínez, M., Cersuelo, A
	Impact of dairy cows diet on ammonia emissions from slurry after application to soil Santiago, C., Arejacy Silva, A., Costa, E., Báez, D., García-Pomar, M.J., Esteves, C., Fanguero, D
	Developing a smartfeeders system to monitor feed intake behaviour in kid goats after weaning Gómez, A, Yáñez-Ruiz, D.R., Rivelli, I, Ortíz Hurtado, B.Y., Rosillo, J.A., Martín-García, A.I., Romero-Huelva, M

Wednesday 25th September 2024	
Time	MORNING
12:30	Session 3: Mitigating emissions from livestock buildings: facilities and management
	A novel design based on gas-permeable membranes for the reduction of ammonia emission in livestock houses Molinuevo-Salces, B., García González, M.C., Calvo de Diego, P., Riaño, B., Buzón-Durán, L., Gómez Sobrino, E., Sánchez-Báscones, M
	Worker exposure to ammonia and particles: Update on prevention and protection measures Guingand, N., Lagadec, S., Amin, K., Bellanger, D., Boulestreau-Boulay, A.L., Delaqueze, C., Depoudent, C., Gabriel, L., Koulete, E., Le Gall, V., Lecarguille, P., Leroux, L., Manach, G., Ruch, M
	The use of zeolites as an ammonia emission reduction strategy for straw bedded cattle barns Goossens, K., Vandicke, J., Peiren, N
	Evaluation of strategies to reduce GHG and NH₃ emissions in swine building Palacios, J.H., Mila Saavedra, L.D., Brassard, P., Cloutier, L., Turcotte, S., Godbout, S
	Ammonia and greenhouse gas emissions in pig production in Brazil-The use of automated systems to control de environment de Oliveira, P.A.V., Coldebella, A., Marcanzoni, C.B.Victoria., Tavares, J.M.R.
	Continuous measurement of methane and ammonia emission from dairy housing van Dooren, H.J.C., Schep, C.A., Mosquera, J., Ogink, N.W.M., von Well, E.A.P., Keuskamp, J.A
	Use of treated solid fraction of dairy slurry as bedding material: Impact of on GHG and ammonia emissions Pires, A., Esteves, C., Oliveira, M., Bexiga, R., Fangueiro, D.
	Ammonia emission reduction with heat exchanger in a broiler house Häni, C., Gfeller, S., Bowald, S., Valach, A.C., Häni, C., Kupper, T

Wednesday 25th September 2024	
Time	AFTERNOON
15:00	Session 4: Emission mitigation from manure storage
	Adjusting the pH value of slurry for sanitization purposes can mitigate greenhouse gas emissions during storage Chrysanthopoulos, S., Esteves, C., Pocheville, S., Coutinho, J., Brito, L., Fangueiro, D
	Methane emission in slurry tanks as influenced by spatial and temporal temperature and slurry organic matter composition Dalby, F.R., Hafner, S.D., Kamp, J.N., Feilberg, A
	Developing a commercial model for ammonia recovery from manure: Life Green Ammonia Riaño, B., Gil, B., evo-Salces, B., García-González, M.C., Sánchez-Bascones, M
	Mitigating ammonia, methane, and carbon dioxide emissions from stored pig slurry using chemical and biological additives Oumaima, E.B., Terrero, M.A., Gómez, M., Faz, A
	Ammonia emission reduction during pig slurry storage: full-scale evaluation of a floating cover Faz, A., Terrero, M.A., Gómez, M., Oumaima, E.B
	Reduction of the environmental footprint in intensive swine farms through digitalization of emissions and integral valorization of by-products treated with biofilters. DIGIBIOPORC Project. Gómez, M., Terrero, M.A., Oumaima, E.B., Fernández, I.M., Faz, A
	Learnings about estimating ammonia and methane fluxes from a pig slurry lagoon Mateo-Marín, N., Perea-Cachero, A., Clavería, I., Guillén, M., Quílez, D., Daudén, A., Herrero, E
	Gas emissions from the manure pile generated from the feed alley in the compost-bedded pack system: in vitro approach Fuertes, E., Presa, G., Balcells, J., de la Fuente, G., Seradi, A.R
	Cattle manure composting at comercial scale: Strategies for reduce GHG emissions Mirá-Urios, M.A., Sáez-Tovar, J.A., Orden, L., Rubio, R., Pérez-Espinosa, A., Andreu, J., Martínez-Sabater, E., Agulló, E., García-Rández, A., Sanchís, E., Calvet, S., Moral, R
	On-farm cattle manure composting: strategies to improve the process Mirá-Urios, M.A., Rubio, R., Pérez-Espinosa, A., Sáez-Tovar, J.A., Andreu, J., Martínez-Sabater, E., Agulló, E., Orden, L., García-Rández, A., Sanchís, E., Calvet, S., Moral, R
	Evaluation of acidification as an emission reduction technique in pig slurry management Sanchis, E., Jarque, M., Gil, E., Fajardo, B., Díaz de Otálora, X., Calvet, S.
	Laboratory evaluation of additives for methane mitigation from liquid manure VanderZaag, A., Matos, F., Parker, C., Laniel, M., Gordon, R., Wagner-Riddle, C., Baldé, H

Thursday 26 th September 2024	
Time	MORNING
13:00	Session 5: Inventories, modelling and policy makers
	Chemical odorants measured downwind from pig production facilities Hansen, M.J., Kasper, P.L., Brandt, P., Holm, M
	Mitigation and adaptation strategies withing the Climate Farm Demo project Díez Córdova, L., Jiménez, R., Moro, M
	Greenhouse gas and ammonia emissions from naturally ventilated dairy barns in Denmark Bühler, M., Kai, P., Adamsen, A.P.S
	A simple spreadsheet model for estimation of methane emission from pig and dairy cow barns and external storage of manure Adamsen, A.P.A., Kai, P., Dalby, F.R., Hansen, M.J
	Measuring ammonia and greenhouse gas emissions of dairy cattle house in 60 farms over eight countries Robin, P., Vergé, X., Becciolini, V., Cieslak, A., Edouard, N., Fehmer, L., Galama, P., Hargreaves, P., Juskiene, V., Kadziene, G., Schilder, H., Leso, L., Lissy, A, S., Priekulis, J., Rees, B., Ruska, D., Szumacher-Strabel, M
	Experimental facility to study climate-house-animal-manure interactions Robin, P., Lecomte, M., Le Roy, P., Hassouna, M
	On gaseous emissions distribution from livestock housing for milk production at regional scale D'Urso, P.R., Arcidiacono, C., Vitaliano, S., Cascone, G
	Evaluation of swine manure types and spreading practices on greenhouse gas and ammonia emissions Mila Saavedra, L., Brassard, P., Palacios, J.H., Godbout, S
	Simulation of ammonia emissions for diversified fattening pig units and external storage with contrasting climatic scenarios Pardioleau, S., Guyot, T., Guingand, N., Espagnol, S
	Uncertainties in the estimation of ammonia and methane emissions using CO₂ mass balancing method Balzan, S., Sahu, H., Hempel, S., Amon, T., Amon, B., Janke, D
	Knowledge cycle for GHG emission mitigation: The cases of climate care cattle farms in the EU Naglis-Liepa, K., Ruska, D., Hargreaves, P., Kuiper, A., Becciolini, V., Ciešlak, A., Eory, V., Galama, P., Kadziene, G., Juškiene, V., Fehmer, L., Sölzer, N., Xavier, V., Evrat-Georgel, C., Lenerts, A
	Estimation of soil capacity to mitigate methane emissions by cattle in a silvopastoral systems with Pinus Radiata De Benardi, M., Priano, M.E., Fernández, M.E., Gyenge, J., Juliarena, P
	Emission estimations in the frame of the living lab project Fitas da Cruz, V., Moreira, O.C., Correia, A., Mendes, F.C., Coelho, D.R., Madeira, R