

Training School “Ammonia, greenhouse gas, and aerosol transmission from livestock systems: An interdisciplinary approach on measuring, modelling and mitigation”

September 17th – 20th, 2019

Venue:

CIRCLE (Center for Innovation, Research and Communication in a Circular BioEconomy) at Leibniz Institute for Agricultural Engineering and Bioeconomy, Max-Eyth-Allee 100, 14469 Potsdam, Germany ([map](#))

Timetable (as of September 2nd, 2019)

Monday, 16 th Sept 2019 +++ 5 th COST meeting livAGE +++			
		Arrival of training school participants	Hotels

Tuesday, 17 th Sept 2019 +++ 5 th COST meeting livAGE & Training School +++			
09:00-09:30	30'	Welcome Address / A. Prochnow Introduction to Training School Program / G. Zhang, T. Amon	CIRCLE
09:45-10:15	30'	Departure Excursion	Bus
10:15-11:45	90'	Dairy barn, naturally ventilated ¹⁾	LVAT Groß Kreuz
	30'	Lunch	Packed Lunch
12:15-12:45	30'	Innovative Software solutions	LVAT Groß Kreuz
	30'	Transfer	Bus
13:15-15:15	120'	Overview of ongoing projects in Germany: - EmiMin & EmiDat / Prof. Dr. E. Gallmann - SOARiAL & Infections'21 / Prof. Dr. Nübel; Prof. Dr. Schaible - Reduce / Prof. Dr. E. Hartung - BeLuVa (CFD) / Dr. S. Hempel	CIRCLE
15:15-16:00		Coffee Break	
16:00-19:30	210'	Training "Communication in interdisciplinary teams"	CIRCLE
19:30-21:00		Dinner	CIRCLE/ATB

Wednesday, 18 th Sept 2019 +++ Training School +++			
09:00-10:30	60'	Poster Tour (PhD projects), Expectations of Participants	CIRCLE
10:30-11:50	90'	Introduction: 'Topic Cafe'-topics 'Data Collection', 'Evaluation Strategies', 'Empirical Modeling', 'Mechanistic Modeling')	CIRCLE
11:50-12:35	45'	1 st round: 'Topic Cafe'	
12:35-13:35	60'	Lunch	CIRCLE
13:35-14:20	120'	2 nd round 'Topic Cafe' - continued	CIRCLE
14:20-15:00	40'	Short "best-practice fact sheets" as outcome of four topic cafés, by trainers	
15:00-16:00	60'	Guided Tour ATB	ATB
16:00-18:30	210'	Parallel Training sessions I “Empirical Modeling” a) Classical statistics b) Machine Learning	CIRCLE
18:30-19:00	30'	Summary of Sessions	CIRCLE
19:30-22:00		Dinner	CIRCLE/ATB

Thursday, 19th Sept 2019 +++ Training School +++			
09:00-12:00	180'	Parallel Training sessions II "Mechanistic Modeling" a) 'Computational Fluid Dynamics Modeling' b) 'Reaction Kinetics Modeling'	CIRCLE
12:00-13:00	60'	Lunch	Catering/ CIRCLE
13:00-14:00	60'	Lecture: Windtunnel Experiments	Wind tunnel
13:00-15:00	90'	Training session II -continued 'incl. Validation Process'	CIRCLE
16:15-17:15	60'	Team-Building/Speed-Dating (Identification of future collaboration (research stays; STM; joint publications; joint proposals...))	CIRCLE
17:15-17:45	30'	Plenary (Feedback 'Blitzlicht' of participants; Summary organizers)	CIRCLE
18:00-20:00		Dinner	CIRCLE

Friday, 20th Sept 2019 +++ Training School (special focus on Bio-Aerosols) +++			
09:00-09:45	45'	Introduction 'Relevance of bio-aerosols for animal husbandry' (Dr. Marcus Clauß/Stefan Linke Thuenen-Institute)	CIRCLE
9:45-10:45	60'	Demonstration in Lab Measurement and monitoring of bio-aerosol from animal housing (Clauß/Linke/Pfrommer) - Impinger, impactor, dust sampler	Laboratory
11:00-11:30	30'	Mitigation of bio-aerosols and transmission processes and risk assessment and risk assessment	CIRCLE
11:30-12:45	15'	Closing of Training School and Farewell	
12:00-13:00	60'	Farewell Lunch (optional)	Canteen/ CIRCLE
		End of Training School - Departure	