

Timetable
Training school 2018 April 17th – 18th
Agroscope Tänikon, Switzerland
**„Measurement methods to quantify ammonia and greenhouse
gases emissions at different scales and with different aims“**

April 17th

8:00-8:30	Registrations of participants	<i>Room “Messtechnik”</i>
8:30-11:00	General presentations (10 min presentation + 5 min discussion; resp. 20 min presentation + 10 min discussion)	
8:30	Welcome, presentation of trainees and trainers What are the wishes of the trainees?	Mélynda Hassouna, Sabine Schrade
8:45	The agricultural emissions quantification	Mélynda Hassouna
9:00	Concentration measurements	Julio Mosquera, Philippe van Overbeke
9:30	Using CO ₂ production of animals as tracer gas for emission estimation	Guoqiang Zhang
9:45	Tracer gas methods	Sabine Schrade
10:00	Coffee break	<i>Room “Messtechnik”</i>
10:30	Micrometeorological methods for measuring emissions from confined sources	Christof Ammann
10:45	Individual animal methods for methane	Andreas Münger
11:00-12:30	Exercises	<i>Room “Messtechnik”</i>
11:00	Two exercises on tracer gas measurement concerning average time interval and measurement location in a NV building	Guoqiang Zhang
	Mass balance Calculations	Mélynda Hassouna
12:30-13:30	Lunch	Staff restaurant Tänikon
13:30-17:30	Demonstrations, site visits, presentations	<i>Beginning in “Messtechnik”</i>
13:30	Open-path plume measurements and bLS source emission calculation a) Demonstration of open-path measurement system b) Application for farm-scale emissions	Christof Ammann, Marcel Bühler
14:30	GreenFeed measurements	Andreas Münger
15:30	Coffee break	<i>Experimental Dairy Housing</i>
16:00	Experimental dairy housing for emission measurements Validation measurements of the dual tracer gas method	Sabine Schrade Joachim Mohn, Kerstin Zeyer
19:00	Dinner	

April 18th

8:30-10:00	Presentations: measurement results 7 presentations around 15 min (10 min presentation + 5 min discussion)	Room: "Refenthal"
8:30-8:45	Validation of an electrochemical sensor for ammonia concentration measurements	Julio Mosquera
8:45-9:00	Measuring emissions by combining open path lasers and ultrasonic anemometers	Philippe van Overbeke
9:00-9:15	Assessment of bat combinations on the reduction of gas emitted by pig production	Mélynda Hassouna
9:15-9:30	Methane mitigation potential of different oilseed feeds in dairy cow rations	Andreas Münger
9:30-9:45	Micrometeorological measurements of NH ₃ grazing emissions	Christof Ammann
9:45-10:00	Comparative emission mitigation measurements: first results	Sabine Schrade
10:00-10:15	Lab investigations and measurements on emission process	Guoqiang Zhang
10:15-10:30	Coffee break	Foyer Refenthal
10:30-11:30	Poster session	trainees
11:30-12:30	Questions, discussion, synthesis	all
12:30	Lunch (soup and bread)	Foyer Refenthal