



WORKSHOP: Fundamentals of Emissions from Animal Houses, Measurement Methods, Mitigation Strategies and Inventories

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*Datas: **5, 8 e 9 de Julho***

*Local: **DEA - UFV***

*Inscrições até: **21/06***

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Content:

1. Motivation: Emission from Intensive Animal Production Systems
 - Impacts of different Emission Components the Environment and Health;
 - When and where is animal production conflicting with the environment?

2. Measurement Methods and Sampling Strategies
 - Basics of emission measurements: mechanically ventilated buildings;
 - Measuring ventilation rates;
 - Measuring ammonia, GHGs concentrations, PM, bioaerosols and odours;
 - The case of naturally ventilated buildings;
 - Statistical considerations in samplings;
 - Assessment of emissions uncertainty;

3. Mitigation Techniques
 - Basic principles in poultry, swine and cattle production;
 - Mitigation technology in poultry, swine and cattle production systems;
 - Air cleaning technology;
 - Feed and management measures

4. Emission inventories and relevance in Brazil
 - The mineral cycle approach in inventories;
 - Is environmental impact of animal production a concern in Brazil?