



ECOMETA

Invitation to a webinar on mitigation and monitoring of gas emissions from animal production

Tuesday 14 December 2021. 9:00 – 12:00

Intensive animal production is associated with adverse impacts on environment and climate, which cause needs for 1) new cost-effective mitigation technologies, 2) reference measurement methods for documentation and regulation, and 3) in-situ online sensors for process control.

The R&D project ECOMETA (Emission Control: Methods and Technologies for Agriculture) addresses all three needs by developing a highly efficient scrubber technology as well as a range of measurement methods and sensors that are essential for the development of a more sustainable livestock production.

The focus of ECOMETA has been on ammonia and odor emissions, but some of the results also have implications for greenhouse gas emissions.

At the webinar, participating partners will present main results and experiences.



Innovation Fund Denmark

DTU Fotonik
Department of Photonics Engineering



PRELIMINARY PROGRAM

- Introduction to the ECOMETA project: Objectives and overview of outcomes. Anders Feilberg, AU
- Development, optimization and full scale test of a new air cleaning technology for livestock production. Pernille Kasper, SEGES
- A low-cost fluorescence sensor for ammonia detection. Jesper N Kamp, AU
- Photonic gas sensing applied to detection of ammonia in agricultural emissions. Martijn Heck, AU/
Eindhoven University of Technology
- Estimating nitrogen emissions from cattle barns using mass balances and NMR-evaluation of nitrogen and an internal tracer. Peter Kai, AU

Break 15 min.

- Using low-field NMR for quantification of N, P and Na in manure, feed and milk. Morten Kjærulff Sørensen, Nanonord A/S
- A chemical method for measuring odor from livestock production based on odorant additivity. Michael J Hansen, AU
- Application of PTR-TOF-MS and wind tunnels for measuring odorant emissions from field application of manure. Johanna M Pedersen, AU
- Measuring ammonia emissions from open fields. Jesper N Kamp, AU
- Integration of technologies in a hybrid ventilation farm concept. Erling Friis Pedersen, Agrifarm

REGISTRATION: <https://events.au.dk/ecometa>

A zoom link will be send to registered participants immediately before meeting

FURTHER INFORMATION

About program

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About registration

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