

# Improving Air Quality In and Around Livestock Facilities

APRIL 21, 2023

2:30 PM ET, 1:30 PM CT,  
12:30 PM MT, 11:30 AM PT

Air quality inside and around livestock and poultry barns can negatively impact animal and worker welfare and can be a challenge to overcome. This webinar will **discuss drivers of indoor emissions** as well as established and new **interventions to control** ammonia and dust levels inside barns. Since indoor air quality is only one piece of the air emissions puzzle, the webinar will also highlight **treatment methods that impact exhaust air from barns** to improve farmstead air quality.

*An application for continuing education credit for Certified Crop Advisors (CCAs) and members of the American Registry of Professional Animal Scientists (ARPAS) will be submitted.*

### More Information

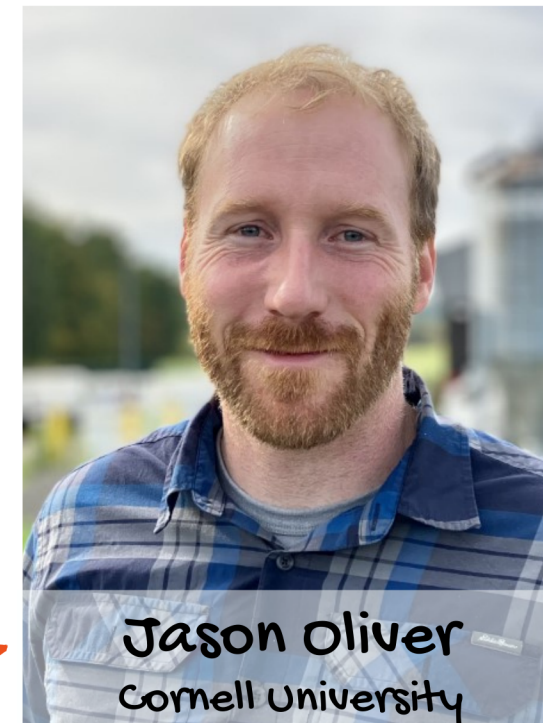
- Reducing Odor and Dust Emissions from Fan-Ventilated Swine Barns with a Combined Engineered Windbreak Wall-Vegetative Strip System  
<https://content.ces.ncsu.edu/reducing-odor-and-dust-emissions-from-fan-ventilated-swine-barns>
- Climate & Environment  
<https://cals.cornell.edu/pro-dairy/our-expertise/environmental-systems/climate-environment>



**Mahmoud Sharara**  
North Carolina State University

**Mahmoud Sharara** is an assistant professor and extension specialist at North Carolina State University, Biological and Agricultural Engineering Department. He received his M.S. and Ph.D. in Agricultural and Biological Engineering from the University of Arkansas. Sharara's research **focuses on sustainable management of agricultural waste and byproducts to generate value-added products and reduce agriculture-related impacts on ecosystems**. Mahmoud will also serve as the moderator for this webinar.  
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**Jason Oliver, PhD** is a Biosystems Engineer and Sr. Extensions Associate with the Cornell PRO-DAIRY - Dairy Environmental Systems program. His research interests include the **development of practical biotechnologies for the treatment of manure**, emissions, effluents and greenhouse gases from livestock facilities. He has conducted extensive on-farm, applied research and worked collaboratively with industry stakeholders to address emerging issues and regulatory considerations including manure management, water quality, odor, antimicrobial resistance, and climate change resiliency.  
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**Jason Oliver**  
Cornell University



**Sanjay Shah**  
North Carolina State University

**Sanjay Shah** is a Professor and Extension Specialist, where he teaches, does research and extension work. He **focuses on poultry waste management, ventilation, heat, and cooling of livestock structures**, and air quality associated with livestock production. He received his PhD from Virginia Tech and has 23 years of experience in the area of livestock engineering.  
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## How do I participate?

If it is your first time joining us for the LPELC webinar series, follow the steps at: [lpec.org/how-do-i-participate-in-a-webcast/](https://lpec.org/how-do-i-participate-in-a-webcast/)

If you are a returning viewer, go to [lpec.org/live](https://lpec.org/live) to download presentations and connect live.



## Livestock and Poultry Environmental Learning Community

The LPELC is a project dedicated to the vision that individuals involved in public policy issues, animal production, and delivery of technical services for confined animals systems should have on-demand access to the nation's best science-based resources. See our website at: [lpec.org](https://lpec.org)

