



PennState

**AGRICULTURAL AND
BIOLOGICAL ENGINEERING**

“Manure Pit-Safety Ventilation Design Influence on H₂S Gas Contamination in Attached Barns”

Computational fluid dynamics simulations were performed to simulate indoor hydrogen sulfide gas levels in mechanically ventilated animal barns during pit-safety ventilation of underbarn manure pits with fully-slotted covers to determine extents of spatial contamination and areas which must be evacuated by personnel and animals.

Presented By Dan Hofstetter

Dan is an Agricultural Engineer and Researcher at Penn State University working in the area of Farm Animal Welfare and will complete his Ph.D. at the end of spring semester. His research includes experimental measurements and computer simulations of toxic gas emissions inside mechanically ventilated animal buildings located above confined-space manure pits.



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304 FOREST RESOURCES LAB