



## Clearing the Air on Biofilters

December 7, 2012

2:30 pm (eastern), 1:30 pm (central), 12:30 pm (mountain), 11:30 am (pacific)

Biofilters have been widely adopted to filter gas, odor and particulate matter from livestock facilities. However, the science behind “how they work” and the configurations that are in practice are continually evolving. This webinar will discuss past and present applications of biofilters, on-going research to better design and manage biofilters, and how to incorporate biofilters as part of an environment control system. *An application for continuing education credit for Certified Crop Advisors (CCAs) and members of the American Registry of Professional Animal Scientists (ARPAS) has been submitted.*



**Larry Jacobson's** appointment in the Bioproducts and Biosystems Engineering Department at the University of Minnesota is divided between extension and research. Research topics that Dr. Jacobson has lead include: development of manure management practices for the Minnesota pork industry, evaluation of the indoor air quality concerns, energy conservation and lighting efficiencies in dairy and pig facilities, and evaluation of odor control technologies and the development of an odor ratings systems. Since 2001, Dr. Jacobson has been project leader for a six-state air emission monitoring project that measured gases, dust, and odor from commercial pig and poultry buildings. He received his Ph.D. from the University of Minnesota. Phone: (612) 625-8288; E-mail: [jacob007@umn.edu](mailto:jacob007@umn.edu)

**Rich Gates** is a professor in the Agricultural & Biological Engineering Department at the University of Illinois. His research is focused on controlled environment systems, with emphasis on biological and physiological responses and interactions between occupants and environment. He received his Ph.D in biological engineering from Cornell University.

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**Teng Lim** is an assistant professor at the University of Missouri. His research focuses on the assessment and mitigation of dust, odor and gas emissions of agriculture facilities, and monitoring and performance of ventilation system. Dr. Lim was involved in the NAEMS Study and development of interactive odor-setback and emission models for livestock production facilities. He has also characterized the effectiveness and practicality of large-scale mitigation methodologies applied by the livestock industries, including biofilters at commercial swine operation. He received his Ph.D. from Purdue University. Phone: (573) 882-9519; E-mail: [limt@missouri.edu](mailto:limt@missouri.edu)

**Erin Cortus** is an assistant professor and environmental quality engineer at South Dakota State University. She is a graduate of the University of Saskatchewan, where she earned a Ph.D. and B.E. in Agricultural and Bioresource Engineering. At SDSU she teaches agricultural waste management. Her research responsibilities include gas and dust emission measurement from livestock facilities, modeling gas production in livestock facilities and air quality environment in livestock facilities. Her extension program is focused on nutrient management. Phone: (605) 688-5144; E-mail: [Erin.Cortus@sdstate.edu](mailto:Erin.Cortus@sdstate.edu)



### How Do I Participate?

On the day of the webcast, go to [www.extension.org/58813](http://www.extension.org/58813) to download the speaker's power point presentations and connect to the virtual meeting room. First time viewers should also follow the steps at: [www.extension.org/8924](http://www.extension.org/8924).

### Links For More Information:

\* Biofilters for Animal Agriculture Air Quality Curriculum [www.extension.org/62171](http://www.extension.org/62171)

\* Biofilter and Scrubber Technologies for Mitigating Air Emissions from Animal Agriculture [www.extension.org/23994](http://www.extension.org/23994)

The LPE Learning Center is a project dedicated to the vision that individuals involved in public policy issues, animal production, and delivery of technical services for confined animal systems should have on-demand access to the nation's best science-based resources. See our website at: [http://www.extension.org/animal\\_manure\\_management](http://www.extension.org/animal_manure_management).