



Targeted Feeding Strategies to Reduce Animal Air Emissions

January 16, 2008

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

Is it possible to reduce air emissions from animal manure by altering feed rations? Which emissions? How much can they be reduced? Does a reduction in one area result in increases in another? For answers to these questions, join us for the first webcast of 2009 on targeted feeding strategies to reduce air emissions for beef, dairy and swine operations. Speakers will highlight feeding strategies for each species and the general concepts behind each strategy. Research data from field trials will be presented along with a discussion on the implications related to each strategy. Available economic data will also be included. *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.*



Andy Cole is a Research Animal Scientist/Lead Scientist in the Renewable Energy and Manure Management Research Unit at the USDA-ARS Conservation and Production Research Laboratory at Bushland, Texas. His research focuses on the effects of diet and management on nutrient excretion, ammonia emissions, and methane emissions of finishing beef cattle. He received his MS and PhD from Oklahoma State University. He has received the Animal Management Research Award from the American Society of Animal Science. Phone: 806-356-5748; Email: andy.cole@ars.usda.gov. Phone: (806) 356-5748 Email: Andy.Cole@ars.usda.gov

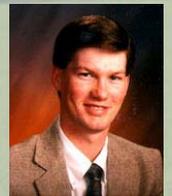
Mark Hannigan is an Associate Professor with the Department of Dairy Science at Virginia Tech University. His research interest is the regulation of energy and nitrogen metabolism in the ruminant and to improve the efficiency of nitrogen use with goal of reducing ammonia emissions from manure through reduced urinary nitrogen output. He received his Ph.D. from the University of California-Davis. Phone: 540-231-0967; Email: mhanigan@vt.edu



Alex Hristov, is an Associate Professor of Dairy Nutrition at Pennsylvania State University. His research focus is on improving the efficiency of N utilization in dairy cows. He received his Ph.D. from the Academy of Agricultural Science in Bulgaria. Phone: 814-863-3669 Email: anh13@psu.edu

Scott Carter is an Associate Professor in the Department of Animal Science at Oklahoma State University. His expertise is in swine nutrition. He received his Ph.D.

from the University of Kentucky. Phone: (405) 744-8869 Email: scott.carter@okstate.edu



How Do I Participate?

On the day of the webcast, go to http://www.extension.org/pages/Live_Webcast_Information to download the speaker's power point presentations and connect to the virtual meeting room. First time viewers should also follow the steps at: http://www.extension.org/pages/How_Do_I_Participate_in_a_Webcast%3F.

Links For More Information:

* Cole, N. A., 2006. Update on recent protein research for finishing beef cattle fed steam flaked corn-based diets. Proceedings Southwest Nutrition and Management Conference. Feb. 23-24, 2006. Tempe, AZ. pg 67-87.

<http://animal.cals.arizona.edu/swnmc/2006/proceedings.php>

* A review of ammonia emission mitigation techniques for concentrated animal feeding operations.

http://pubwiki.extension.org/mediawiki/files/d/d8/Hristov_Ammonia_Review_Paper-published.pdf

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>.

The Air Quality Education in Animal Agriculture project is collaboration of national experts from across the U.S. working to enhance learning opportunities in air quality issues related to animal agriculture. In addition to educational webcasts, the project will develop an air quality curriculum that will be made available for classroom or extension use and conduct regional workshops.