



Pharmaceuticals in Animal Manure: Potential Environmental Impacts

March 28, 2008

**Note the change in date from previous announcements!*

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

This webcast addresses the potential impact of antibiotics and steroid hormones in the environment and their use in livestock production. This webcast will discuss how and why the drugs are used as well as their positive and negative effects. How do hormones work, and how can they disrupt animal physiology and behavior? What are the implications for humans? Speakers will also present information on the potential impact of antibiotics and antibiotic resistance genes in the environment, with a particular focus on human health impacts.



David Norris, Professor at the University of Colorado with a PhD from the University of Washington. For the past 45 years, Dr. Norris has studied how the environment interacts with the neuroendocrine system to influence thyroid, adrenal and gonadal functions that control development, reproduction, and aging in fishes and amphibians.

Amy Pruden, Assistant Professor in Environmental Engineering at Colorado State University with a PhD from the University of Cincinnati. Some of her current research includes the impact of antibiotics in the environment on the level of resistance in microbial populations and to develop simple strategies to minimize risk of antibiotic use to humans and the environments.



Paul Ebner is an assistant professor in the Department of Animal Sciences at Purdue University with a PhD. from the University of Tennessee. Dr. Ebner's research focuses on pre-harvest food safety issues associated with livestock production. He is currently working to develop new strategies to more safely reduce pathogen load in food animals prior to slaughter.

Links for more Information:

--www.epa.gov/ppcp This EPA website incorporates commonly asked questions about pharmaceuticals in the environment, and research bibliographies.

--http://toxics.usgs.gov/highlights/vet_meds.html This U.S. Geological Survey website addresses the state of knowledge about veterinary medicines in the environment.

--<http://e.hormone.tulane.edu/> e.hormone is your gateway to the environment and hormones.

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. More information is available at <http://lpe.unl.edu>.