



## Livestock and Poultry Environmental (LPE) Learning Center Educational Webcast Series

# Overview of Alternative Manure Treatment Systems: Matching the Treatment to the Environmental Concern

**October 19, 2007**

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

### **Robert Burns, Iowa State University**

Manure treatment systems have evolved dramatically in response to the need for livestock and poultry operations to address a wide variety of environmental concerns and regulations. Whether adding a new component to an existing system or starting from scratch, it is possible to combine different technologies in ways that best fit the needs of the operation and help minimize the impact on neighbors and the environment.



Dr. Robert Burns is an associate professor at Iowa State University. Dr. Burns' research and extension programs focus on the development and implementation of animal manure management systems that are economically, environmentally and socially sustainable. He received a PhD in civil engineering from the University of Tennessee. His current research programs focus on phosphorus reduction and recovery from animal manures, improvement of manure anaerobic digestion systems, development of alternative manure treatment systems for beef feedlot runoff control, measurement and mitigation of air pollutants from concentrated animal feeding operations. [rburns@iastate.edu](mailto:rburns@iastate.edu), 515/294-4203

### **Resources and Links:**

- Iowa State University Waste Management page <http://www.abe.iastate.edu/wastemgmt/>
- Smithfield project [http://www.cals.ncsu.edu/waste\\_mgt/smithfield\\_projects/smithfieldsite.htm](http://www.cals.ncsu.edu/waste_mgt/smithfield_projects/smithfieldsite.htm)
- Symposium on the State of the Science Animal Manure and Waste Management [http://www.cals.ncsu.edu/waste\\_mgt/natlcenter/sanantonio/proceedings.htm](http://www.cals.ncsu.edu/waste_mgt/natlcenter/sanantonio/proceedings.htm)
- LPE Learning Center Alternative Technologies information <http://lpe.unl.edu/alternative.html>
- Livestock and Poultry Environmental Stewardship Lesson 25, Manure Treatment Options [http://www.lpes.org/Lessons/Lesson25/25\\_Manure\\_Treatment.html](http://www.lpes.org/Lessons/Lesson25/25_Manure_Treatment.html)

### **How do I participate?**

Information about software requirements, testing your connection, and how to connect to the webcast are available at <http://lpe.unl.edu/webcast2.html>.

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>.