



Livestock and Poultry Environmental (LPE) Learning Center.

Educational Webcast Series

<http://www.extension.org/animal+manure+management>

Prediction of Bioavailability of Phosphorus for Dairy Cattle

September 20, 2013

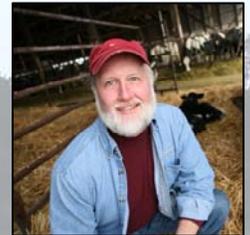
2:30 pm (eastern), 1:30 pm (central), 12:30 pm (mountain), 11:30 am (pacific)

Better management of nutrients in feed leads to more efficient use of those nutrients, therefore a decrease in excreted nutrients. Improved efficiency means increased profitability and the opportunity for incentive payments. This webcast will include presentations based on a project to enhance “Prediction of Bioavailability of Phosphorus for Dairy Cattle”. The project is an integrated approach to increase the adoption of “Precision Phosphorus Feeding” on dairy farms. *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.*



Dr. Katharine Knowlton is a Professor in the Department of Dairy Science at Virginia Tech with a research and teaching program focused on environmental issues affecting the dairy industry. Dr. Knowlton is an assistant coach of the Virginia Tech dairy judging team, she judges dairy shows across the US, and owns a small herd of Jersey cows. Her research has focused on Phosphorus intake and excretion in lactating cows, source and fate of endocrine disrupting chemicals in livestock wastes, as well as digestion and flow of phosphorus-containing compounds in feeds. She received her Ph.D. from the University of Maryland in Dairy Nutrition. Phone: (540) 231-5287; Email: kknowlto@vt.edu

Dr. Joe Harrison received his Ph.D. in Dairy Science from The Ohio State University. He joined the faculty at Washington State University in 1984. His research program has focused on forage management, protein and amino acids, mineral digestibility, and whole farm nutrient management. Recent outreach projects have focused on anaerobic digester technology, and integration of feed management and whole farm nutrient management. Phone: (253) 445-4638; Email: jhharrison@wsu.edu



Dr. Mark Hanigan received his Ph.D. in Nutrition from the University of California – Davis in 1991. After receiving his Ph.D., he worked as a research scientist at Purina Mills, Inc. where he worked on modeling metabolism in the lactating animal with emphasis on nitrogen metabolism. Dr. Hanigan joined Virginia Tech as an Associate Professor in the Dept. of Dairy Science in 2005 where he works on nitrogen metabolism and modeling problems. The long-term objective of the work is to improve animal efficiency and reduce nitrogen and phosphorus excretion to the environment. Phone: (540) 231-0967; Email: mhanigan@vt.edu

Dr. Bob James received his Ph.D. in Dairy Science at Virginia Polytechnic Institute and State (VPI&SU) in 1978. After receiving his Ph.D., he worked as an Extension Specialist at West Virginia University. In 1980 he joined VPI & SU in the Department of Dairy Science. Dr. James research interests are in the area of nutrition management of calves, nutritional management of pre- and post-partum dairy cows, and precision ration formulation and delivery to improve nutrient management of the dairy farm. Phone: (540) 231-4770; Email: jamesre@vt.edu



How Do I Participate?

On the day of the webcast, go to 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.

Links For More Information:

* Feed Management and Phosphorus Excretion in Dairy Cows <http://www.extension.org/59883>

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>.