



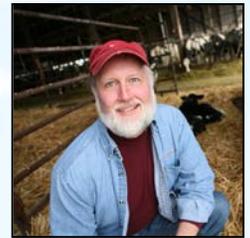
Capturing Valuable Nutrients from Manure

November 15, 2013

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

Matching the nitrogen and phosphorus content of manure to crops needs can be a challenge. Due to the volatile nature of nitrogen in manure, often times the N:P ratio is not aligned with crop needs. Applying manure to meet the nitrogen needs often results in excess phosphorus application. This webcast is the first in a series of 3 webcasts that will provide information on: the need to capture nutrients for recycling off-farm, global phosphorus supplies, and technologies that are being used on-farm to capture nitrogen and phosphorus from manure. *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. Joe Harrison is a faculty member of the Department of Animal Sciences at Washington State University and has been conducting research and demonstration projects related to anaerobic digester technology since 2005. His projects include: fate and transport of bacteria from anaerobically digested manure (including the impact on surface water quality), utilization of nutrients in AD effluent for production of grass forage, production of a phosphorus based fertilizer (struvite) from anaerobically digested manure, development of an economic decision aid tool for predicting the financial risks associated with community based ADs that utilize pre-consumer food-wastes, and the effect of AD on odor and gaseous emissions. Phone: (253) 445-4638; Email: jhharrison@wsu.edu



Dr. Paul Fixen is Senior Vice President of the International Plant Nutrition Institute where his primary responsibilities are coordination of the Institute's programs in the Americas and Australia. He also serves as director of the Institute's global research efforts. His work has emphasized the science of nutrient stewardship and how soil fertility and fertilizer use fit into the overall scheme of crop production systems and the environment. He served in faculty positions at the University of Wisconsin and South Dakota State University prior to joining the Institute and is a Fellow in the American Society of Agronomy, the Soil Science Society of America, the American Association for the Advancement of Science, and the Fluid Fertilizer Foundation. Phone: (605) 692-6280; Email: pfixen@ipni.net

Dr. Dana Kirk is a faculty member in the Department of Biosystems and Agricultural Engineering at Michigan State University and a licensed professional engineer in the State of Michigan. He is the manager of the MSU Anaerobic Digester Research and Education Center (ADREC). The ADREC is collaborative effort between the University and a private foundation to provide a continuum of research, professional development and outreach support for waste-to-energy systems. In addition to managing the ADREC, he also oversees design, construction and operation activities of the universities two commercial scale anaerobic digesters. Phone: 517.432.6530, Email: kirkdana@msu.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:

- * AgSTAR <http://www.epa.gov/agstar/index.html>
- * World Reserves of Phosphate Rock... a Dynamic and Unfolding Story <http://www.ipni.net/publication/bettercrops.nsf/issue/BC-2013-3>