

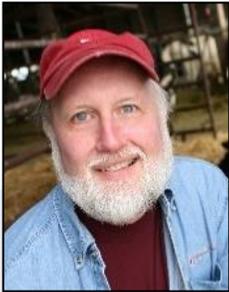


Construction and Maintenance of a Manure Pond– Part 1

January 22, 2016

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

Manure ponds have gained much attention recently with regard to their being protective of the environment. In January 2016 we will begin a 2-part series on manure pond liners, case study of installation of synthetic liners, a system to detect seepage rate from manure ponds, and a system to detect leaks in manure ponds. *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 livestock nutrient management, including feeding management. 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, effect of AD on odor and gaseous emissions, reduction in nitrogen import to dairy farms in feeds by precision ration balancing, extraction of phosphorus from liquid dairy manure for off farm

use as a fertilizer, relationship of manure application to ground water nitrate content, and potassium nutrition of the early lactation dairy cow. Phone: (253) 445-4638; Email: jhharrison@wsu.edu

Bill Reck, P.E. is the USDA Natural Resources Conservation Service, National Environmental Engineer. Bill has over 25 years' experience in wetland restoration, design and evaluation of conservation practices, and extensive experience in the area of animal waste management structural design and evaluation of existing structures. Currently, Bill has national responsibility for NRCS's 20 environmental engineering conservation practice standards. Phone: (202) 720-4485. Email:

bill.reck@wdc.usda.gov



Stephen D. Reinsch, P.E. is the Co-Director NRCS-NDCSMC-Soil Mechanics Laboratory. He graduated from the University of Nebraska with a B.S. in Civil Engineering and has 32 years of experience working for the NRCS and the Army Corps of Engineers in various positions. Mr. Reinsch has managed the agencies Soil Mechanics Laboratories since 1997. He has prepared designs and soil mechanics reports for over 200 earth dam projects and over 300 animal waste storage sites. He has prepared course material and presented training for over 30 courses on topics such as field compaction control, compacted soil liners, shear strength, slope stability analysis, and filter design. Mr. Reinsch has assisted in geologic investigations and consulted on construction problems on numerous large, complex earthen embankments, channel, and waste storage projects. He has participated in numerous forensic site investigations involving problems and failures of various types of engineering structures. Phone: (402) 437-5337. Email: steve.reinsch@lin.usda.gov

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.

For More Information

* NRCS national conservation practice standards webpage:

<http://www.nrcs.usda.gov/wps/portal/nrcs/main/national/technical/cp/ncps/>