



## Manure Application Risk Management Tools and Advisory Systems January 25, 2013

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

Many areas in the U.S. are looking for new ways to address poor water quality contributed in part by agricultural runoff. Application of manure during inopportune times can lead to runoff from fields and pollution of adjacent waterways. In order to help farmers identify times of low and high risk for manure application, various States are coming up with tools to help farmers make better decisions. These tools are visual, easy to use, and provide a first line of defense against poor application timing. This webcast will highlight three states working on unique and innovative ways to help farmers reduce the risk associated with manure application. Come and learn how these tools are working in the real-world and how you can adopt them to protect water quality in your State or on your farm. *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. Nichole M. Embertson** is a Nutrient Management and Air Quality Specialist with the Whatcom Conservation District and adjunct professor at Washington State University. She received her Ph.D. from Colorado State University in Environmental Management of Livestock. She conducts research and works with livestock producers on nutrient and waste management issues, air and water quality improvement projects, and development and identification of effective best management practices (BMP). She is currently working on the development of manure application risk management tools for farmers including a real-time manure advisory, application risk management decision support tool, and on-line nutrient management planning. Phone: (360) 483-8595; Email: [nembertson@whatcomcd.org](mailto:nembertson@whatcomcd.org)

**Kevan Klingberg** received his M.S. in Professional Agriculture from Iowa State University. He has been an ARCPACS Certified Professional Agronomist since 1990. In 2001, Kevan became a UW-Extension Outreach Specialist within the Discovery Farms program. Discovery Farms conducts on-farm research to determine the economic and environmental effects of best management decisions on a diverse set of commercial farms. Kevan is active in educating farmers, private sector ag professionals and agency staff about soil and water conservation, nutrient management and agricultural environmental stewardship. Phone: (715) 983-2240; Email: [kevan.klingberg@ces.uwex.edu](mailto:kevan.klingberg@ces.uwex.edu)



**Sara Walling** is the Resource Planning and Water Quality Section Chief at Wisconsin Dept of Agriculture. She is responsible for directing the department's statewide programs for protection of groundwater and surface water from contamination resulting from soil erosion and the use of nutrients including manure. Sara serves as the Land and Water Resource Bureau's lead contact with county land conservation committees and departments, university researchers and staff, federal and state agency partners, and external organizations to provide technical, scientific and other assistance related to conservation programming. She directs the implementation of the Wisconsin Manure Advisory System that is

designed to greatly assist farmers and agricultural professionals when making decisions about when to land apply manure or other nutrients based on risk factors such as landscape, soil and weather characteristics.

Phone: 608-224-4501; Email: [Sara.Walling@wisconsin.gov](mailto:Sara.Walling@wisconsin.gov)

**Dr. Kleinman** is the Research Leader and **Dr. Buda** is Research Hydrologist of the USDA-ARS Pasture Systems and Watershed Management Research Unit in State College, PA. Their collaborative research explores interactions between land management and landscape processes that control the transfer of nutrients from land to water. Their research spans the major regions of the Chesapeake Bay watershed, from poultry dominated systems in the Atlantic Coastal Plain to integrated crop-livestock operations in the Appalachian Mountains.



Dr. Kleinman Phone: (814) 865-3184; Email: [peter.kleinman@ars.usda.gov](mailto:peter.kleinman@ars.usda.gov)

Dr. Buda Phone: (814) 865-6623; Email: [Anthony.Buda@ars.usda.gov](mailto:Anthony.Buda@ars.usda.gov)



### How Do I Participate?

On the day of the webcast, go to [www.extension.org/58813](http://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](http://www.extension.org/8924).

### Links For More Information:

\* Manure Advisory System: <http://www.manureadvisorysystem.wi.gov/>

\* Application Risk Management Manure Advisory: <http://whatcomcd.org/manure-spreading-advisory>

\* Fertilizer Forecast from Penn State Extension: <http://extension.psu.edu/aec/webinars-presentations/modeling-and-decision-support-tool-forum/fertilizer-forecaster-and-web-2.0-approaches-to-dss-and-environmental-modeling>

\* Fertilizer Forecast from USDA-ARS <http://www.ars.usda.gov/is/pr/2010/100818.htm>

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