



## Coupling Manure Application and Cover Crops: Can it Work and What are the Benefits?

**January 15, 2010**

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

Combining cover crops and manure becomes a winning combination to capture and recycle nutrients, protect the soil from erosion, and add organic matter, while decreasing the environmental risks with liquid manure applications. Slurry seeding is an integrated process that incorporates low-disturbance tillage, manure application, and seeding of forages and cover crops in one efficient trip over the field. *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.*

**Jeremy Singer** is a Research Agronomist with the USDA Agricultural Research Service located in Ames, Iowa at the National Laboratory for Agriculture and the Environment. He earned his B.S., M.S., and Ph.D. degrees from Cornell University. Dr. Singer's research quantifies water and radiation interactions on plant ecology in systems with varying tillage intensity, organic amendments, and cover crops. Phone: 515-294-5502  
Email: [jeremy.singer@ars.usda.gov](mailto:jeremy.singer@ars.usda.gov)



**Tim Harrigan** is an Associate Professor of Bio Systems and Agricultural Engineering at Michigan State University. His research and Extension programs focus on mitigating adverse farming systems impacts on the environment and creating sustainable agroecosystems. His research includes the development of an innovative process that combines low-disturbance tillage, the seeding of forage and cover crops, and manure land application in one sustainable operation. Currently, he is evaluating effects of the die-off and regrowth of root systems on the fate and transport of manure contaminants in the soil. Harrigan received his BS degree in Dairy science, MS and PhD in Bio Systems and Agricultural Engineering all from Michigan State University. Phone: 517-353-0767  
Email: [harriga1@msu.edu](mailto:harriga1@msu.edu)

### How Do I Participate?

On the day of the webcast, go to [http://www.extension.org/pages/Live\\_Webcast\\_Information](http://www.extension.org/pages/Live_Webcast_Information) to download the speaker's power point presentations and connect to the virtual meeting room. First time viewers should also follow the steps at: [http://www.extension.org/pages/How\\_Do\\_I\\_Participate\\_in\\_a\\_Webcast%3F](http://www.extension.org/pages/How_Do_I_Participate_in_a_Webcast%3F).

### Links For More Information:

- \* Cereal Rye: Manure and Livestock's New Best Friend <http://www.animalagteam.msu.edu/Portals/0/cerealrye.pdf>
- \* Slurry Seeding <http://www.animalagteam.msu.edu/LandApplication/SlurrySeeding/tabid/217/Default.aspx>
- \* Small Grain Cover Crops for Corn and Soybean  
[http://pubwiki.extension.org/mediawiki/files/f/f7/Small\\_Grain\\_Cover\\_Crops\\_for\\_Corn\\_and\\_Soybean.pdf](http://pubwiki.extension.org/mediawiki/files/f/f7/Small_Grain_Cover_Crops_for_Corn_and_Soybean.pdf)
- \* Manure Slurry-Enriched Micro-Site Seeding of Biosuppressive Covers  
[http://pubwiki.extension.org/mediawiki/files/a/ad/Slurry\\_seeding\\_of\\_biosuppressive\\_cover\\_crops.pdf](http://pubwiki.extension.org/mediawiki/files/a/ad/Slurry_seeding_of_biosuppressive_cover_crops.pdf)
- \* The N Game <http://beefmagazine.com/natural-beef/1001-capturing-nitrogen-payback/>
- \* Cover crop effects on the fate of N following soil application of swine manure  
<http://www.springerlink.com/content/t7w6356906157624/fulltext.pdf>