

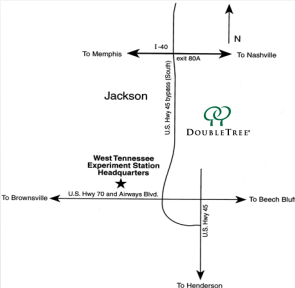
POSTER SESSION

- 1. **Effect of poultry litter on *Heterodera glycines* reproduction** - Pat Donald, *Philip Allen, Karmat Sistani, Don Tyler, Haile Tewolde*, USDA-ARS CGRU/AWMRU/GPARU, University of Tennessee
- 2. **Influence of elevated atmospheric CO₂ and tillage practices on rain-fall simulation** - Stephen A Prior, *Dexter B. Watts, Francisco J. Arriaga, G. Brett Runion, H. Allen Torbert, Hugo H. Rogers*, USDA-ARS, NSDL
- 3. **The impact of long-term conventional and no-tillage management on field hydrology and groundwater recharge** - R. Louis Baumhardt, *Bridget Scanlon, Robert Schwartz*, USDA-ARS SWMRU, TX Bureau of Economic Geology
- 4. **Increasing fertilizer use efficiency for vegetable crops** - Mark S. Reiter, Virginia Tech
- 5. **Assessing photosynthetic leaf area of corn under different tillage systems and soil zones** - Pawel Wiatrak, Clemson University
- 6. **Long-term tillage and poultry litter application impacts on crop production in Northeastern Alabama** - Dexter B. Watts, *H. Allen Torbert*, USDA-ARS NSDL
- 7. **FGD gypsum use as a soil amendment to reduce soluble P in soil** - Dexter B. Watts, *H. Allen Torbert, Paul Pier*, USDA-ARS, NSDL, Tennessee Valley Authority
- 8. **Demonstrating use of high-residue , cover-crop conservation tillage systems to control glyphosate-resistant Palmer Amaranth** - Andrew J. Price, *C. Dale Monks, Jessica A. Kelton, Michael G. Patterson, Kipling S. Balkom, Andrew S. Culpepper, Chris Main, Larry Steckel, M.W. Marshall, R.L. Nichols*, USDA-ARS NSDL, Auburn University, University of Georgia, University of Tennessee, Clemson University, Cotton, Inc.
- 9. **Potential use of FGD gypsum in agriculture** - Fred Rhoton, *Normie Buehring, Michael E. Essington, Daniel S. McChesney, Don Tyler*, USDA-ARS NSDL, Mississippi State University, University of Tennessee
- 10. **Conservation tillage improves soil physical properties on different landscape positions of a Coastal Plain soil** - Francisco Arriaga, *Andre Biscaro, Kipling S. Balkom, Joey N. Shaw, Edzard van Santen, Ted S. Kornecki*, USDA-ARS NSDL, University of California-Extension, Auburn University

POSTER SESSION - Cont.

- 11. **Weed control efficacy and lint yield of herbicide resistant cotton technologies under different tillage systems and row spacing** - Jatinder Aulakh, *Andrew J. Price, Kipling S. Balkcom, Francisco J. Arriaga, Dennis P. Delaney*, Auburn University, USDA-ARS NSDL
- 12. **Effects of rolling/crimping with different herbicide types and rates on rye and clover on their termination rate, cotton population, and yield in a no-till system** - Ted S. Kornecki, *Andrew J. Price*, USDA-ARS NSDL
- 13. **Changes in total soil organic carbon as affected by cropping sequence and bio-covers under no-till production** - Fred Allen, *Jason Wight, Don Tyler*, University of Tennessee, Texas A&M

DIRECTIONS



Research & Education Center at Milan
6205 Ellington Drive
Milan, TN 38358
Phone: 731-686-7362

West Tennessee Research & Education Center
605 Airways Blvd.
Jackson, TN 38301
Phone: 731-424-1643



Point Sign-Up Recertification for Restricted-Use Pesticides

3 Points in each category

C1	C4	C10	C12
----	----	-----	-----

Certified Crop Adviser Program Continuing Education Units

Nutrient Management (NM)	1.5
Soil and Water Management (SW)	1.5
Pest Management (PM)	0.5
Crop Management (CM)	1.5
Professional Development (PD)	0.5

SCASC

Southern Conservation Agricultural Systems Conference



32nd Southern Conservation Agricultural Systems Conference

July 20-22, 2010

Jackson, Tennessee



AGENDA

July 20, 2010

4:00 P.M.—6:00 P.M.

Registration* (\$70) at Doubletree Hotel
Jackson, TN

6:00 P.M.—9:00 P.M.

Welcoming Reception at Doubletree Hotel
Heavy Hors d'oeuvres and Cash Bar
Jackson, TN

7:30 P.M.

Steering Committee Meeting at Doubletree Hotel

July 21, 2010

7:00 A.M.

Registration* (\$70) and Coffee on Site at
West TN Research & Education Center
Jackson, TN

8:00 A.M. - 5:00 P.M.

Southern Conservation Agricultural Systems
Conference

July 22, 2010

7:00 A.M. - 3:00 P.M.

Milan No-till Field Day
Milan, Tennessee

**Registration includes Reception, Breaks, and Lunch*

ORAL PRESENTATIONS

July 21, 2010 - 8:00 A.M.

Welcome & Introductions

- 8:45 A.M.
Prospects for monitoring cotton crop maturity with NDVI - Owen Gwathmey, *Don Tyler, Xinhua (Frank) Yin* - University of Tennessee
- 9:05 A.M.
Using NDVI as a predictor of cotton plant height for real-time sensor-based variable rate application of growth regulators - Randy Taylor, *Owen Gwathmey, Shane Osborne, Chris Main, and J C Banks*—University of Tennessee, Oklahoma State University
- 9:25 A.M.
Impact of Glyphosate-resistant weeds on no-till row crop production - Larry Steckel, University of Tennessee
- 9:45 A.M. - Break
- 10:00 A.M.
Effects of prolonged storage on survival and growth of out-planted bottomland oak seedlings - David Mercker, *David Buckley*, University of Tennessee
- 10:20 A.M.
Propagule densities of *Macrophomina phaseolina* in soybean tissue and soil - Alemu Mengistu, USDA-ARS CGRU
- 10:40 A.M.
Effects of conservation tillage on crop yields as influenced by crop, region and environmental factors - Dustin Toliver, *James Larson, Burton English, Roland Roberts, and Daniel de la Torre Ugarte*, University of Tennessee
- 11:00 A.M.
Tillage and nutrient source effects on nitrogen availability in a Southern Piedmont soil - Harry Schomberg, *Dinku Endale, Michael Jenkins, and Dwight Fisher*, USDA - ARS NRCC

ORAL PRESENTATIONS - Cont.

- 11:20 A.M.
Spring forage yields and quality of plots fertilized with broiler litter, exceptional quality biosolids - Shawn Hawkins, *Forbes Walker*, University of Tennessee
- 11:40 A.M.
Annual nutrient removal from harvesting Vaughn's hybrid bermudagrass - Hubert Savoy, University of Tennessee
- 12:00 P.M - 1:00 P.M. - **Lunch and Keynote Speaker - Building a biomass energy industry in Tennessee** - Dr. Kelly Tiller, President and CEO, Genera Energy
- **1:00 P.M - 2:30 P.M - POSTER SESSION** (listed on back)
- 2:30 P.M.
Rye cover crop as a source of biomass feedstock: An economic perspective - Leah M. Duzy, *Francisco J. Arriaga, Kipling S. Balkcom*, USDA-ARS NSDL
- 2:50 P.M.
Economic comparison of four winter covers for no-till cotton cropping rotations under risk - James Larson, *Roland Roberts, Fred Allen, Daniel Mooney*, University of Tennessee
- 3:10 P.M.
Curve numbers from a long-term no-till crop field in the GA Piedmont - Dinku Endale, *Harry Schomberg, Dwight Fisher, Michael Jenkins*, USDA-ARS NRCC
- 3:30 P.M.
Peanut response to starter fertilizer across tillage systems - Kipling S. Balcom, *R. Scott Tubbs*, USDA-ARS NSDL, University of Georgia
- 3:50 P.M.
Developing organic no-till crop production systems for Tennessee - Forbes Walker, *Neal Eash*, , University of Tennessee
- 4:10 P.M.
Conservation tillage for Burley tobacco - Paul Denton, *Justin Bryant, John Morrison*, University of Tennessee, Tennessee Department of Agriculture