

- 11:10 Impact of Early Season Management Decisions on Soybean Yield. **J. North**, A. Catchot, J. Gore, D. Cook, T. Irby, J. Orlowski.
- 11:15 Plant Growth and Nutrient Uptake Effects from Humic and Fluvic Substances in Lignite. **M. Natras** and B. S. Baldwin.
- 11:20 Effects of Plant Population on Mississippi Soybean Defoliation Thresholds. **B. C. Thrash**, A. Catchot, J. Gore, D. Cook, F. Musser, T. Irby, and J. Krutz.
- 11:25 Phenotyping Weedy Rice (*Oryza sativa*) for the Discovery of Drought and Submergence Tolerance for the Improvement of Cultivated Rice. **S. Stallworth** and T. M. Tseng.
- 11:30 : Influence of Cover Crops and Early Season Control Strategies on Insect Pests in Mississippi Soybean. **A. Whalen**, A. Catchot, J. Gore, and D. Cook.
- 11:35 Nutrient Uptake, Partition, and Relocation in Mid-South Soybean Production Across Herbicide Cropping Systems. **B. Pieralisi**, B. R. Golden, and J. A. Bond.
- 11:50 **Lunch/Awards Reception**

5th Annual

Future of Agriculture Graduate Student Competition

February 9, 2017

The Future Needs Your Attention..
Our crops depend on it.



MISSISSIPPI STATE
UNIVERSITY™

Bost Extension Center
Mississippi State University

2017 Future of Agriculture Graduate Student Competition

8:00 Introduction

Master's Competition I

- 8:10 Emergence Variability in Corn. **A. Pettit**, E. Larson, B. Henry, T. Irby, A. Catchot, and M. Cox.
- 8:15 Screening for Herbicide Tolerance Among Diverse Germplasm of Tomato. **G. Sharma**, and T. M. Tseng.
- 8:20 Kudzu Bug: A New Pest in Mississippi Soybeans? **B. McRight**, F. Musser, A. Catchot, J. Gore, D. Cook, and N. Bateman.
- 8:25 Performance Evaluation of Cattle Grazing Diploid and Tetraploid Annual Ryegrass. **S. Montgomery**, B. S. Baldwin, B. B. Karisch, J. I. Morrison, and J. A. Parrish.
- 8:30 Effect of Bacterial Blight Inoculation Timing on Cotton Yield. **B. Wilson**, D. M. Dodds, C. A. Samples, M. T. Plumblee, A. B. Denton, S. S. Davis, and L. X. Franca.
- 8:35 The Effects of Thrips and Tarnished Plant Bug Injury on Mississippi Cotton Maturity and Yield. **J. Moor**, J. Gore, D. Cook, A. Catchot, and D. Dodds.
- 8:40 Alternative N Management Strategies in Mid-South Rice Production. **R. Turner**, B. R. Golden, J. A. Bond, J. Gore, and T. Irby.
- 8:45 Optimizing Warrant™ Herbicide Placement for Control of Glyphosate-Resistant Pigweed (*Amaranthus spp*) in RoundupReady2 Xtend Soybean Production Systems. **J. T. Buol**, D. B. Reynolds, and J. A. Mills.

8:50 **Break**

Master's Competition II

- 9:05 Irrigation Scheduling with Soil Moisture Sensors. **H. Buka**, A. Linhoss, and M. L. Tagert .
- 9:10 Efficacy of Insecticide Seed Treatments in Hybrid Rice. **R. Kelly**, J. Gore, D. Cook, A. Adams, T. Walker, G. Awuni, and A. Catchot.
- 9:15 Assessment of Native Warm Season Grasses for Post Mining Reclamation. **M. Parker**, B. Baldwin, J. Morrison, and R. McGrew.
- 9:20 Evaluating Fall Armyworm Thresholds in Whorl Stage Corn. **K. Croom**, A. Catchot, D. Cook, J. Gore, and W. B. Henry.
- 9:25 Development of Narrow Row, Furrow Irrigated Soybean in Mississippi. **R. M. Smith** and J. Orłowski.
- 9:30 Controlling Tarnished Plant Bug through a Transgenic Approach. **J. Corbin**, A. Catchot, J. Gore, D. Cook, and D. Dodds

9:35 Evaluation of Row Spacing, Planting Date, and Seeding Rate for Dryland Soybean (*Glycine max*) Production. **C. A. Floyd**, J. T. Irby, S. M. Carver, A. B. Scholtes and S. G. Flint.

9:40 Evaluating the Impact of Canopy Defoliation at Two Critical Timings in Peanut. **C. Abbott**, J. Sarver, J. Gore, A. Henn, and J. Krutz.

9:45 **Break**

Master's Competition III

- 10:00 Influence of Planting Population on Sugarcane Aphid Densities in Grain Sorghum. **B. Lipsey**, A. Catchot, J. Gore, D. Cook, F. Musser, and E. Larson.
- 10:05 Evaluation of Multiple Agronomic Considerations with Harvest Aid Usage in Mid-South Soybean (*Glycine max*) Production. **J. W. Smith**, J. M. Orłowski, J. T. Irby, and H. Sullivan.
- 10:10 Cotton Varietal Response to Potassium Application Rates Under Irrigated and Dryland Conditions. **S. Davis**, D. M. Dodds, C. A. Samples, A. B. Denton, M. T. Plumblee, L. X. Franca, and B. W. Wilson.
- 10:15 Identification and Characterization of Competitive Traits among Weedy Rice Germplasm. **S. Shrestha** and T. M. Tseng.
- 10:20 Cover Crop Mixture and Seeding Rate Evaluations for Furrow-Irrigated Soybean Production in the Mid-Southern United States. **K. Lassiter** and J. Orłowski.
- 10:25 Influence of Cultural Practices on Soybean Nectar Production. **T. Smith**, A. Catchot, J. Harris, N. Krishnan, J. Gore, and D. Cook.
- 10:30 Evaluation of Replant Methods for Maximizing Yield in Suboptimal Soybean (*Glycine max*) Populations. **S. M. Carver**, J. T. Irby, D. M. Dodds, A. L. Catchot Jr., D. B. Reynolds, J. M. Orłowski, A. B. Scholtes and S. G. Flint.
- 10:35 Landscape Level Contributions of Corn Earworm in Corn in MS. **T. Towles**, A. Catchot, J. Gore, D. Cook, and M. Caprio.
- 10:40 **Break**

Ph.D. Competition

- 10:55 Impact of Planting Date and Maturity Group on Mid-South Soybean Production. **W. Wood**, J. Krutz, T. Irby, J. Orłowski, and B. Henry.
- 11:00 Sugarcane Aphids, *Melanaphis sacchari*, and Grain Sorghum: Implications of Honey Bees, *Apis mellifera*. **W. D. Crow**, A. L. Catchot, J. Gore, S. D. Stewart, and S. Steckel.
- 11:05 Breeding of Annual Ryegrass for Improved Heat Tolerance. **E. Billman**, J. I. Morrison, and B. S. Baldwin.