

Southern Division of the American Phytopathological Society
86th Annual Meeting Program
February 1-2, 2009
Westin Peachtree Plaza, Atlanta, GA

Sunday afternoon: February 1, 2008

8:00-4:00 Registration (International Room B)

9:00-9:10 Welcome – Kenny Seebold, SDAPS President (International Room B)

SYMPOSIUM: Not to Be Ignored: New and Emerging Rust Diseases Threatening Crop Production – Robert Kemerait presiding (International Room B)

9:10-9:35 "Recent advances in systematics, taxonomy, and evolution of rust fungi (Pucciniales) and their relatives." M. Catherine Aime, Assistant Professor, Dept. of Plant Pathology and Crop Physiology, Louisiana State University AgCenter, Baton Rouge, LA 70803.

9:35-10:00 "Asian soybean rust 4 years later: Is the disease a nonstarter or are we still at risk?" Raymond Schneider, Professor, Dept. of Plant Pathology and Crop Physiology, Louisiana State University AgCenter, Baton Rouge, LA 70803.

10:00-10:25 "The impact of rust diseases on the ornamental industry." James Buck, Associate Professor, Dept. of Plant Pathology, University of Georgia, Griffin, GA, 30223.

10:25-10:40 **Break**

10:40-11:05 "Update on southern rust caused by *Puccinia polysora*." William Dolezal, Research Fellow - Plant Pathology, Pioneer Hi-Bred International, Inc., Johnston, IA 50131, J.K. Pataky, Dept. of Crop Sciences, University of Illinois, Urbana, IL 61801, R.C. Kemerait, Dept. of Plant Pathology, University of Georgia, Tifton, GA 31793.

11:05-11:30 "The threat of Ug99 stem rust and efforts towards breeding for resistance in wheat and barley germplasm." David Marshall, Location Coordinator and research Leader, USDA/ARS, Raleigh, NC 27695-7616.

11:30-12:00 Discussion

12:00-1:00 **Lunch** (on your own)

Student presentations,– Chris Clark, SDAPS Past-President, presiding
(International Room B)

- 1:00-1:15 Pathogenicity evaluations of nematophagous fungi to control the reniform nematode (*Rotylenchulus reniformis*) under microplot conditions. J.D. CASTILLO and K.S. Lawrence, Auburn University, Entomology and Plant Pathology Department, Auburn, AL.
- 1:15-1:30 Real-time PCR-based detection and quantification of *Cercospora kikuchii* in soybean plants. A.K. CHANDA, Z. Chen, and R.W. Schneider, Louisiana State University Agricultural Center, Baton Rouge, LA.
- 1:30-1:45 Efficacy of brassica amendments for cotton disease management. K.A. COCHRAN and C.S. Rothrock, University of Arkansas, Fayetteville, AR.
- 1:45-2:00 Epidemiological relevance of seed detection assay to seedling transmission threshold for bacterial fruit blotch in watermelon. B. DUTTA, L. Genzlinger, and R. Walcott, Dept. of Plant Pathology, University of Georgia, Athens, GA.
- 2:00-2:15 Comparative analysis of copper tolerance testing methods in *Xanthomonas axonopodis* pv. *vesicatoria*. J.E. GARTON, D.B. Langston, and F.H. Sanders, University of Georgia, Coastal Plain Expt. Station, Tifton, GA.
- 2:15-2:30 Characterization of cucurbit powdery mildew in north Florida. G.S. MAIA and A.J. Gevens, University of Florida, Dept. of Plant Pathology Gainesville, FL.
- 2:30-2:45 The affect of *Pythium* spp. and cold storage on the survival of longleaf pine seedlings after outplanting. D. JACKSON, S.A. Enebak, and D.B. South, School of Forestry and Wildlife Sciences, Southern Forest Nursery Management Cooperative, Auburn University, AL.
- 2:45-3:00 Biological control of bacterial fruit blotch pathogen on watermelon seed and blossoms using an *Acidovorax avenae* subsp. *citrulli* type three secretion mutant. K.L. JOHNSON (2), J. Minsavage (1), T. Le (2), and R. Walcott (2), (1) University of Florida, Dept. of Plant Pathology, Gainesville, FL and (2) University of Georgia, Dept. of Plant Pathology, Athens, GA.

- 3:00-3:15 Evaluation of commercially available plant growth-promoting rhizobacteria (PGPR) and plant extracts on sheath blight disease of rice caused by *Rhizoctonia solani*. K.K. KUMAR (2), S. Raju (1), M. Reddy (2), K.S. Lawrence (2), and J.W. Kloepper (2), (1) Andhra Pradesh Rice Research Institute, Maruteru, India and (2) Auburn University, Entomology and Plant Pathology Dept., Auburn, AL.
- 3:15-3:00 **Break**
- 3:30-3:45 The virulence of four root-inhabiting blue-stain fungi to southern pine seedlings. G. MATUSICK and L.G. Eckhardt, School of Forestry and Wildlife Sciences, Auburn University, Auburn, AL.
- 3:45-4:00 Optimal timing of preventative fungicide applications for fairy ring caused by *Vascellum pretense* in creeping bentgrass putting greens. G.L. MILLER and L.P. Tredway, Dept. of Plant Pathology, North Carolina State University, Raleigh, NC.
- 4:00-4:15 Effects of soil types on the reproduction of *Rotylenchulus reniformis* in cotton. S.R. MOORE and K.S. Lawrence, Auburn University, Entomology and Plant Pathology Dept., Auburn, AL.
- 4:15- 4:30 Changes in chrysanthemum rhizosphere bacteria related to steam treatment and reduced plant growth. C. RAMÍREZ (1), A. Suárez, M. Ramírez (2), J. Pérez (2), N. Cardona (2), and J. Calle (2), (1) Auburn University, Entomology and Plant Pathology Dept., Auburn, AL. and (2) Universidad de Antioquia, Medellín, Colombia.
- 4:30-4:45 FAME Analysis as an alternative means for distinguishing *Meloidogyne* species and races. N.S. SEKORA (2), K.S. Lawrence (2), P. Agudelo (3), E. Van Santen (1), and J.A. Mcinroy (2). (1) Auburn University Department of Agronomy and Soils, Auburn, AL; (2) Auburn University Department of Entomology and Plant Pathology, Auburn, AL; and Clemson University Department of Entomology, Soils, and Plant Sciences, Clemson, SC.
- 4:45-5:00 Detection limits and relative abundance of *Aspergillus flavus* in microbial communities of peanut soils. H. SUDINI, R.N. Huettel, K. Bowen, and C. Arias, Auburn University, Entomology and Plant Pathology Dept., Auburn, AL.
- 5:00-5:15 Efficacy of endophytes in the management of leaf blight disease of amaranth, plant growth promotion and in inducing systemic resistance. S. UPPALA (1), B. Saralamma (2), K. L. Bowen (1), and M. Ch. (2), (1) Auburn University, Entomology and Plant

Pathology Dept., Auburn, AL. and (2) Kerala Agricultural University, Thrissur, Kerala, India.

- 5:15-5:30 Uredinia of Asian soybean rust as a unique niche for other fungi. N. WARD, R. Schneider, and M.C. Aime, LSU AgCenter, Baton Rouge, LA.
- 5:30-5:45 Improving deposition and control of peanut diseases with early morning and evening fungicide sprays. J. AUGUSTO (1) , T.B. Brenneman (1), P. Sumner (2), A.K. Culbreath (1), A.S. Csinos (1). (1) Dept. Plant Pathology and (2) Dept. Biological and Agricultural Engineering, University of Georgia, Tifton, GA 31793.
- 6:00-7:00 **SDAPS Executive Committee Meeting** (Boardroom)
- 3:30-5:00 **SAAS Opening and General Session** (Vinings I & 2)
- 5:00–10:00 **SAAS Reception** (Peachtree Ballroom)

Monday, February 4, 2008

8:00-11:30 Registration (International Room B)

8:30 Announcements – Kenny Seebold, SDAPS President (International Room B)

Contributed papers – Boyd Padgett presiding (International Room B)

8:30-8:45 Applications of Benlate systemic fungicide on banana reduce plant growth and increase endophytic bacteria. J.W. KLOEPPER and C. Ramírez, Auburn University, Entomology and Plant Pathology Dept., Auburn, AL.

8:45-9:00 Treatment of leatherleaf fern with Benlate systemic fungicide increases populations of total and alleopathic endophytic bacteria. J.W. KLOEPPER and J.A. Mcinroy, Auburn University, Entomology and Plant Pathology Dept., Auburn, AL.

9:00-9:15 Association of fern distortion syndrome with endophytic bacteria and the use of Benlate. J.W. Kloepper and J.A. Mcinroy, Auburn University, Entomology and Plant Pathology Dept., Auburn, AL.

9:15-9:30 Control of forest nursery seedling diseases of *Pinus* spp. with Proline 480 SC. T.E. STARKEY and S.A. Enebak, School of Forestry and Wildlife Sciences, Southern Forest Nursery Management Cooperative, Auburn University, AL.

9:30-9:45 Measurement of numbers of starch grains and cambial cells in roots of loblolly pines. C.H. WALKINSHAW, Emeritus, USDA Forest Service, Pineville, LA.

9:45-10:00 **BREAK**

10:00-10:15 Effects of fumigants and in-furrow fungicides on Verticillium wilt development in peanut. J. E. WOODWARD (1), T. A. Wheeler (2), S. A. Russell (1), M. G. Cattaneo (1), and T. A. Baughman (1). (1) Texas AgriLife Extension Service; (2) Texas AgriLife Research, Texas A&M System, Lubbock, TX 79403.

10:15-10:30 Application of flutriafol and other fungicides via drip irrigation for control of cotton root rot caused by *Phymatotrichopsis omnivora*. T. ISAKEIT (1), R. Minzenmayer (2), and C. Sansone (3), (1) Dept. of Plant Pathology, Texas A&M University, College Station, TX and Texas AgriLife Extension (2) Ballinger, TX and (3) San Angelo, TX

- 10:30-10:45 Efficacy of *Bacillus mycooides* isolate J on pecan scab. T. B. BRENNEMAN. Department of Plant Pathology, University of Georgia, Tifton, GA 31794.
- 10:45-11:00 Impact of plant-parasitic nematodes on corn in Georgia. R.C. KEMERAIT (1), H. Sanders (1), M. Toews (2), R. Ethredge (3), W.E. Harrison (4), B. Mitchell (4) and T. Flanders (5), (1) Univ. of Georgia, Dept. of Plant Pathology, Tifton, GA; (2) Univ. of Georgia, Dept. of Entomology, Tifton, GA; (3) UGA Cooperative Extension, Donalsonville, GA; (4) UGA Cooperative Extension, Camilla, GA; (5) UGA Cooperative Extension, Nashville, GA.
- 11:00-11:15 Modeling acibenzolar-S-methyl field application for TSWV management in tobacco. A.S. CSINOS, S.W. Mullis, and L. Hickman, University of Georgia, Coastal Plain Expt. Station, Tifton, GA.
- 11:15-11:30 Effect of seeding rate on spotted wilt incidence in new peanut cultivars and breeding lines. A. CULBREATH (4), W. Branch (3), C. Holbrook (1), and B.L. Tillman (2), (1) USDA Crop Genetics & Breeding, Coastal Plain Expt. Station, Tifton, GA; (2) Univ. of Florida, North Florida REC, Marianna, FL; (3) Univ. of Georgia, Crop & Soil Science Dept., Tifton, GA; (4) Univ. of Georgia, Dept. of Plant Pathology, Tifton, GA.
- 11:30-11:45 Soil fertility related to *Tomato spotted wilt virus* in tobacco. R. GITAITIS (1), C. Nischwitz (1), S.W. Mullis (1), A. Csinos (1), D. Burrell (2), and M. Pearce (2), (1) Dept. of Plant Pathology, Coastal Plain Expt. Station, University of Georgia, Tifton, GA and (3) National Onion Labs, Inc, Collins, GA
- 11:45-1:15 **Lunch** (on your own)
- 11:45-1:15 **Graduate Student Luncheon** by invitation only (Location to be announced)

Contributed papers – Jason Woodward, presiding (International Room B)

- 1:15-1:30 First report of tomato yellow leaf curl virus in Kentucky. K.W. SEEBOLD (1), P. De Sa (2), and P. Vincelli (1), University of Kentucky (1) Plant Pathology Dept. and (2) Dept. of Plant and Soil Science, Lexington, KY.
- 1:30-1:45 Characterization of developmental mutants of *Fusarium graminearum*. S.M. CATLETT, K.M. Gerberich, S.H. Johnson, and J.E. Flaherty, Coker College, Hartsville, SC.

- 1:45-2:00 Determination and compatibility of putatively hypovirulent and virulent isolates of *Cryphonectria parasitica* collected from the Great Smoky Mountains National Park. D.F. MCNEILL, Mississippi State University, Starkville, MS.
- 2:00-2:15 Taxonomy of the pecan scab fungus based on the cytochrome b gene sequence. M. Seyran (1), C. Nischwitz (2), K. Lewis (1), R. GITAITIS (1), K. Stevenson (1), and T. Brenneman (1), (1) Dept. of Plant Pathology, University of Georgia, Coastal Plain Experiment Station, Tifton, GA and (2) Department of Plant Sciences, Division of Plant Pathology and Microbiology, University of Arizona, Tucson, AZ.
- 2:15-2:30 Genetic structure of *Sclerotinia homoeocarpa* populations from turfgrasses in North America, Asia and Europe. T.A. TAYLOR, I. Carbone, and L.P. Tredway, North Carolina State University, Dept. of Plant Pathology, Raleigh, NC.
- 2:30-2:45 Molecular and biochemical characterization of two PR10 proteins from *Zea mays*. Y. XIE (1), Z. Chen (1), R. Brown (2), and T. Cleveland (2), (1) Louisiana State University, Baton Rouge, LA, USA and (2) Southern Regional Research Center, USDA-ARS, New Orleans, LA.
- 3:15-3:45 APS Update. Dr. James Moyer, APS president, Dept. of Plant Pathology, North Carolina State University, Raleigh, NC
- 4:00-5:00 **SDAPS Business Meeting**, Kenny Seebold, SDAPS President, presiding (International Room B)
- 6:00-9:00 **SDAPS Social (cash bar) and Southern Division deBary Bowl** (Plaza Ballroom)