



**AMERICAN PHYTOPATHOLOGICAL SOCIETY
95TH SOUTHERN DIVISION MEETING**

PROGRAM

**FEBRUARY 16-18, 2018
FAYETTEVILLE, ARKANSAS**

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AMERICAN PHYTOPATHOLOGICAL SOCIETY

95th SOUTHERN DIVISION MEETING PROGRAM

The 95th annual meeting of the American Phytopathological Society, Southern Division, is being held February 16-18, 2018, in Fayetteville, AR, at The Chancellor Hotel (70 North East Avenue, Fayetteville, AR). The Awards Banquet will be at the University of Arkansas, Don Tyson Center for Agriculture Sciences. Unless otherwise specified, all program events will take place at The Chancellor Hotel. Hors d'oeuvres and a cash bar will be available at the Welcome Reception on Friday evening. Grab-and-go breakfast items (assortment of sausage biscuits, breakfast burritos, and yogurt parfaits) will be provided prior to the start of the scientific program on Saturday and Sunday. Snacks and refreshments will be provided during the morning and afternoon breaks on Saturday and Sunday. Transportation to and from the Don Tyson Center for Agriculture Sciences will be provided on Sunday evening. Additional details may be found in the daily schedule below.

Join us on Facebook! - "Like" and follow the **APS Southern Division** and the **APS Southern Division - Graduate Students** pages on Facebook! Document your experiences throughout the meeting and post your photos using **#SDAPS2018**.

Friday, February 16, 2018

- 12:00 PM - 4:00 PM Fayettechill Tour #Callingthehogs
Tour of the University of Arkansas Department of Plant Pathology
*Transportation to and from the university and The Chancellor Hotel will be provided. Meet in front of The Chancellor Hotel no later than 11:45 AM.
Lunch provided for pre-registrants.*
- 4:00 PM - 5:00 PM Executive Committee Meeting
The Chancellor Hotel (Room TBD)
- 5:30 PM – 7:30 PM Welcome Reception
The Chancellor Hotel (Atrium, across from Eureka Springs Ballroom)

Saturday, February 17, 2018

- 7:15 AM – 7:50 AM Registration, Breakfast, Poster Setup
The Chancellor Hotel (Eureka Springs Ballroom)
- 7:50 AM - 8:15 AM Welcome
Travis Faske, SD-APS President
Rick Cartwright, Associate Vice President for Agriculture - Extension
and Director of the University of Arkansas Cooperative Extension Service
The Chancellor Hotel (Eureka Springs Ballroom)

Graduate Student Research Competition (Session I), Moderator: Kelsey Andersen, SD-APS Graduate Student

- 8:15 to 8:30 AM Fungicide sensitivity profile of *Colletotrichum gloeosporioides* from strawberry to seven different fungicides. **M. Oliveira**, M. Marin, and N. Peres; University of Florida, Wimauma, FL.
- 8:30 to 8:45 AM Use of image analysis and photogrammetry as tools to quantify tomato spotted wilt virus symptom severity in peanuts. **S. Sanjel**¹, J. Clohessy¹, B. Tillman², G. K. O'Brien¹, D. Wright¹, and I. M. Small¹; (1) University of Florida, Quincy, FL, (2) University of Florida, Marianna, FL.
- 8:45 - 9:00 AM The distribution of taproot decline in Mississippi soybean. **H. Renfroe**¹, T. Wilkerson², T. W. Allen Jr.², and M. Tomaso-Peterson¹; (1) Mississippi State University, Mississippi State, MS, (2) Mississippi State University, Stoneville, MS.
- 9:00 - 9:15 AM Pathogenicity of *Leptographium terebrantis* to saplings of *Pinus taeda* L: efficacy of the toothpick inoculation approach. **J. Mensah**¹, M. A. Sword Sayer², R. Nadel¹, G. Matusick¹, Z. Fan¹, and L. G. Eckhardt¹; (1) School of Forestry and Wildlife Sciences, Auburn University, Auburn, AL, (2) Forest Service, Southern Research Station, Pineville, LA.
- 9:15 - 9:30 AM Integrated approaches to managing aphids and barley yellow dwarf in Tennessee wheat. **C. Perkins**, H. M. Kelly, and S. Stewart; University of Tennessee, Jackson, TN.
- 9:30 - 9:45 AM Root extracts from *Medicago truncatula* effectively inhibit rice blast (*Magnaporthe oryzae*) disease. **K. Haydon** and K. Korth; University of Arkansas, Fayetteville, AR.
- 9:45 - 10:00 AM *Colletotrichum* species causing fruit rots: is there evidence for cross-infection between apples and small fruits in Kentucky orchards? **M. McCulloch**, E. M. Nuckles, S. Edwards, N. A. Gauthier, and L. J. Vaillancourt; University of Kentucky, Lexington, KY.
- 10:00 - 10:15 AM BREAK: *Poster Viewing & Networking*

Graduate Student Research Competition (Session II), Moderator: Madison McCulloch, SD-APS Graduate Student

- 10:15 – 10:30 AM Dormant fungicide, oil, and growth regulator sprays affect populations of *Exobasidium maculosum* and development of *Exobasidium* leaf spot on blueberry. **R. J. Ingram**¹, H. Scherm¹, and R. M. Allen²; (1) University of Georgia, Athens, GA, (2) UGA Extension, Alma, GA.

- 10:30 - 10:45 AM Touch-independent aflatoxin inhibition by atoxigenic *Aspergillus flavus* biocontrol strains. **R. R. Sweany**, C. DeRobertis, and K. E. Damann; Louisiana State University AgCenter, Baton Rouge, LA.
- 10:45 - 11:00 AM Quantifying inoculum densities of *Verticillium dahliae* from cotton fields in the United States and Australia. **S. Young**¹, S. Roser², K. Kirkby², and J. Woodward³; (1) Texas Tech University, Lubbock, TX, (2) Biosecurity and Food Safety, NSW Department Primary Industries, Narrabri, Australia, (3) Texas A&M AgriLife Extension Service, Lubbock, TX.
- 11:00 - 11:15 AM Phenotyping of stem rot and *Rhizoctonia* limb rot in an *Arachis hypogaea* RIL population. **R. Cui**¹, T. B. Brenneman¹, P. Ozias-Akins¹, Y. Chu, J. Clevenger², and C. Holbrook³; (1) University of Georgia, Tifton, GA, (2) USDA UGA, Athens, GA, (3) USDA-ARS, Tifton, GA.
- 11:15 - 11:30 AM Variability of peanut spotted wilt severity based on location in Georgia. **C. Codod**¹, R. C. Kemerait¹, A. K. Culbreath¹, M. Abney¹, and G. G. Kennedy²; (1) University of Georgia, Tifton, GA, (2) North Carolina State University, Raleigh, NC.
- 11:30 - 11:45 AM Crp1 drives pre-penetration infectious development via regulation of Frq1 in the maize pathogen *Cercospora zea-maydis*. **J. B. Ridenour** and B. H. Bluhm; University of Arkansas, Fayetteville, AR.
- 11:45 - 12:00 PM Screening of rose rosette virus PCR primers to identify the most effective and sensitive detection method and primer. **M. Shires**¹, J. Ueckert², and K. Ong². (1) Texas A&M University, College Station, TX, (2) Texas A&M AgriLife Extension Service, College Station, TX.
- 12:00 - 2:00 PM Student Workshop – “Careers 101 Workshop: Presentations 101”
Leader: **Nicole Gauthier**, University of Kentucky
The Chancellor Hotel (Eureka Springs Ballroom)
Workshop lunch sponsored by Dow AgroSciences.
- 12:00 - 2:00 PM Lunch (*See the SD-APS Meeting Website for a list of nearby restaurants*)

Graduate Student Research Competition (Session III), Moderator: *Shelby Marie Young, SD-APS Graduate Student*

- 2:00 - 2:15 PM Alternate hosts and inoculum sources determine potential spread of a new hemp disease. **D. Szarka**, B. F. Amsden, C. L. Schardl, and N. A. Gauthier; University of Kentucky, Lexington, KY.

- 2:15 - 2:30 PM Spatial distribution and impact of southern rust in corn. **J. Bailey** and T. N. Spurlock; University of Arkansas, Monticello, AR.
- 2:30 - 2:45 PM Use of spatial analysis to determine product efficacy and impact of foliar diseases on soybean. **M. Patterson**, T. N. Spurlock, and A. C. Tolbert; University of Arkansas, Monticello, AR.
- 2:45 - 3:00 PM Pre-harvest induction of plant defense and their influence on post-harvest diseases of tomato caused by *Colletotrichum* species. **E. A. Fealko**, W. Barlow, P. Kachroo, and E. E. Pfeufer; University of Kentucky, Lexington, KY.
- 3:00 - 3:15 PM *Pantoea ananatis*: genetic and biological analysis reveals plasmid localized accessory genes correlated with onion pathogenicity. **S. Stice**¹, B. Dutta², and B. Kvitko¹; (1) University of Georgia, Athens, GA, (2) University of Georgia, Tifton, GA.
- 3:15 - 3:30 PM Establishing residual activity of current fungicides against downy mildew on cucumber. **A. Shirley** and G. E. Vallad; Gulf Coast Research and Education Center, University of Florida, Wimauma, FL.
- 3:30 - 3:45 PM *In vitro* fungicide sensitivity of *Magnaporthe poae* isolates collected from cool-season turfgrasses. **W. J. Hutchens** and J. P. Kerns; Department of Entomology and Plant Pathology, North Carolina State University, Raleigh, NC.
- 3:45 - 4:00 PM BREAK: *Poster Viewing & Networking*

Graduate Student Research Competition (Session IV), Moderator: Erica Fealko, SD-APS Graduate Student

- 4:00 - 4:15 PM Multilocus analysis and fungicide sensitivity profiles of *Colletotrichum* spp. causing anthracnose on southern highbush blueberry in Florida. **M. Velez-Climent** and P. Harmon; Department of Plant Pathology, University of Florida, Gainesville, FL.
- 4:15 - 4:30 PM A forward genetic screen coupled with target-enrichment sequencing in *Cercospora zea-maydis* identifies novel genes regulating cercosporin production. **S. Sharma**, A. Zaccaron, and B. H. Bluhm; University of Arkansas, Fayetteville, AR
- 4:30 - 4:45 PM Use of single terminal spray applications to evaluate fungicide efficacy for control of pecan scab in commercial pecan orchards. **K. Herrington**, K. L. Stevenson, and T. B. Brenneman; University of Georgia, Tifton, GA.

- 4:45 - 5:00 PM A genetic screen for pathogenicity genes in the fungus *Diaporthe longicolla* causing *Phomopsis* seed decay of soybean. **F. Alshuwaili**, M. L. Zaccaron, S. Sharma, and B. H. Bluhm; University of Arkansas, Fayetteville, AR.
- 5:00 - 5:15 PM Modeling epidemics in seed systems to guide management strategies: the case of sweetpotato in northern Uganda. **K. F. Andersen**¹, C. Buddenhagen¹, R. Gibson², P. Rachkara³, S. Kalule⁵, D. Phillips², and K. A. Garrett¹. (1) Plant Pathology Department, Institute for Sustainable Food Systems, and Emerging Pathogens Institute, University of Florida, Gainesville, FL, (2) Natural Resource Institute, Greenwich, United Kingdom, (3) Department of Rural Development and Agribusiness, Gulu, Uganda.

5:15 - 5:30 PM BREAK: *Poster Viewing & Networking*

Graduate Student Research Competition (Session V), Moderator: *Maria Velez-Climent, SD-APS Graduate Student*

- 5:30 - 5:45 PM Patterns of airborne inoculum dose exhibited by populations of *Podosphaera aphanis* in open fields and high tunnel production systems. **R. Borba Onofre**¹, R. Luis Vieira², D. M. Gadoury³, and N. Peres¹; (1) University of Florida, Gulf Coast Research and Education Center, Wimauma, FL, (2) Universidade de Passo Fundo, Passo Fundo, Brazil, (3) Cornell University, Geneva, NY.
- 5:45 - 6:00 PM Race determination in *Cercospora sojina*: from phenotypic traits to genotypic patterns. **W. Fagundes**, M. L. Zaccaron, and B. H. Bluhm; University of Arkansas, Fayetteville, AR.
- 6:00 - 6:15 PM Rapid development of co-dominant markers for transgenic maize events. **M. Zaccaron**, A. Zaccaron, M. P. Da Silva, S. Sharma, and B. H. Bluhm; University of Arkansas, Fayetteville, AR.
- 6:15 - 6:30 PM Identification of molecular biomarkers associated with reniform nematode (*Rotylenchulus reniformis*) resistance in soybean. **J. F. Wilkes**¹, J. D. Mueller², B. Fallen³, C. Saski¹, and P. A. Agudelo⁴; (1) Clemson University, Clemson, SC, (2) Edisto Research and Education Center, Blackville, SC, (3) Clemson University, Florence, SC, (4) Clemson University, Plant and Environmental Sciences Department, Clemson, SC.

7:00 - 9:00 PM Graduate Student/Post-doc Social/Meeting
Powerhouse Seafood & Grill (112 N. University Ave, Fayetteville, AR)
(Dinner provided for pre-registrants and sponsored by Erwin Keith Inc. / Progeny Ag.)

Sunday, February 18, 2018

7:15 - 8:00 AM Breakfast
The Chancellor Hotel (Eureka Springs Ballroom)

Symposium, “Recent Advances in Nematode Management”, Moderator: Travis Faske, SD-APS President

8:00 - 8:20 AM The Ups and Downs of Managing Root-Knot Nematodes with *Pasteuria penetrans*.
Patty Timper, USDA-ARS, Tifton, GA.

8:20 - 8:40 AM Importance of Reniform Nematode Management in Soybean.
Charlie Overstreet, Louisiana State University, Baton Rouge, LA.

8:40 - 9:00 AM Current Options for Nematode Management in Turfgrass.
Billy Crow, University of Florida, Gainesville, FL.

9:00 - 9:20 AM The 2nd Soybean Cyst Nematode Coalition: What’s in it for Farmers?
Kaitlyn Bissonnette, University of Missouri, Columbia, MO.

9:20 - 9:40 AM Changing Views on How to Manage Columbia Lance Nematode.
John Mueller, Clemson University, Blackville, SC.

9:40 - 10:00 AM Panel Discussion

10:00 - 10:30 AM BREAK: *Poster Viewing & Networking*

Technical Papers (Session I), Moderator: Shaker Kousik, SD-APS Vice President

10:30 - 10:45 AM Current status of boxwood dieback caused by *Colletotrichum theobromicola* in the United States. **R. Singh**¹, V. P. Doyle¹, K. N. Conner², M. Munster³, M. Williamson⁴, and J. L. Williams-Woodward; (1) Louisiana State University Agricultural Center, Baton Rouge, LA, (2) Auburn University, Auburn University, AL, (3) North Carolina State University, Raleigh, NC, (4) Clemson University Department of Plant Industry, Pendleton, SC, (5) University of Georgia - Department of Plant Pathology, Athens, GA.

- 10:45 - 11:00 AM Interaction of onion cultivar and growth stages on incidence of *Pantoea ananatis* bulb infection. S. Stumpf, **B. Dutta** and R. D. Gitaitis; University of Georgia, Tifton, GA.
- 11:00 - 11:15 AM Relative efficacy of commercial fungicides on *Magnaporthe oryzae* in Arkansas. **Y. A. Wamish**¹, C. Kelsey², and S. B. Belmar³; (1) Rice Research and Extension Center, Stuttgart, AR, and University of Arkansas Cooperative Extension Service, Little Rock, AR, (2) University of Arkansas, Little Rock, AR, (3) University of Arkansas, Stuttgart, AR.
- 11:15 - 11:30 AM Finding a balance in the force: Meeting producer needs and promotion metrics through extension education efforts. **J. E. Woodward**; Texas A&M AgriLife Extension Service, Lubbock, TX
- 11:30 - 11:50 AM APS Council's Update.
Kira Bowen, APS President-Elect, Auburn University
- 11:50 AM - 1:15 PM Lunch (provided)
The Chancellor Hotel (Atrium and Bella Vista Room)

Technical Papers (Session II), Moderator: Kevin Ong, SD-APS Immediate Past President

- 1:15 - 1:30 PM Relative susceptibility of commercial watermelon varieties to powdery mildew. **C. Kousik**¹, J. Ikerd¹, and M. K. Mandal²; (1) U.S. Vegetable Laboratory, USDA, ARS, Charleston, SC, (2) ORISE participant, U.S. Vegetable Laboratory, USDA, ARS, Charleston, SC.
- 1:30 - 1:45 PM Efficacy of fungicide-based management of blueberry rust in commercial production in southern Georgia for 2016 and 2017. **S. Curry**¹, R. J. Ingram², P. M. Brannen², M. Slusher³, and W. Lovett⁴; (1) University of Georgia, Baxley, GA, (2) University of Georgia, Athens, GA, (3) University of Georgia Extension, Waycross, GA, (4) University of Georgia Extension, Alma, GA.
- 1:45 - 2:00 PM Flutianil: a new mode of action for powdery mildew control. **S. Croxton**¹, J. C. Adams², S. Ludwig³, John Aigner², J. Gutierrez², P. Hernandez², and T. Miyata⁴; (1) Nichino America, LaBelle, FL, (2) Nichino America, Wilmington, DE, (3) Nichino America, Arp, TX, (4) OAT Agrio, Tokyo, Japan.
- 2:00 - 2:15 PM Evaluation of the impact of water-use efficient irrigation strategies on peanut disease management. **R. Barocco**¹, S. Sanjel¹, J. Clohessy¹, C. Barrett², P. Troy², D. Wright¹, N. S. Dufault³, and I. M. Small¹; (1) University of Florida, Quincy, FL, (2) University of Florida, Live Oak, FL, (3) University of Florida, Gainesville, FL.

- 2:15 - 2:30 PM Cotton yield response to nematicide applications across spatially variable soil textures in NE Arkansas. **K. D. Wilson**¹, T. G. Teague¹, and T. R. Faske²; (1) University of Arkansas, Fayetteville, AR, (2) University of Arkansas, Lonoke, AR.
- 2:30 - 2:45 PM BREAK: *Poster Viewing & Networking*
- 2:45 - 4:00 PM SD-APS Business Meeting

Poster Session (Contributed Papers)

- 4:00 - 5:00 PM *All authors present.
The Chancellor Hotel (Eureka Springs Ballroom)*
- 5:00 - 5:15 PM Poster Breakdown
- 5:30 PM *Vans leave for Don Tyson Center for Agricultural Sciences Building*
- 5:45 - 9:00 PM Social and Awards Banquet
Don Tyson Center for Agricultural Sciences Building (1371 W. Altheimer Dr., Fayetteville, AR)

2018 SD-APS Meeting Planning Committee

Travis R. Faske, SD-APS President
Nicholas S. Dufault, SD-APS President-Elect
Shaker S. Kousik, SD-APS Vice President
Rebecca A. Melanson, SD-APS Secretary-Treasurer
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Michelle Souza Oliveira, SD-APS Graduate Student Representative
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Albert Culbreath, SD-APS Divisional Forum Representative
Nicole Gauthier, University of Kentucky

Local Arrangements

Travis R. Faske, University of Arkansas
Cindy Kay Morley, University of Arkansas
Terea Stetina, University of Arkansas
Michael Emerson, University of Arkansas
Ioannis Tzanetakis, University of Arkansas

Contributed Papers (Posters)

*Indicates Student Presenter

Poster No.

- 01 Control of Botrytis blight of hydrangea with isofetamid, a new succinate dehydrogenase inhibitor fungicide. **F. Baysal-Gurel** and T. Simmons; Tennessee State University, McMinnville, TN.
- 02 Development of fungicide rotation program for the control of powdery mildew of crapemyrtle. **F. Baysal-Gurel** and T. Simmons; Tennessee State University, McMinnville, TN.
- 03* Prospecting for biological control agents against *Burkholderia glumae*, the causal agent of bacterial panicle blight of rice. **K. Wilkinson*** and C. M. Rojas; University of Arkansas, Fayetteville, AR.
- 04 Influence of nitrogen rate and timing, application method, and simulated rainfall after fungicide application on brown patch severity in tall fescue. **E. Lee Butler**; North Carolina State University, Raleigh, NC.
- 05* Perennial ornamental enables virus spread across the United States. **C. Shaffer**^{1*}, D. Michener², N. B. Vlasava³, and I. E. Tzanetakis¹; (1) University of Arkansas, Fayetteville, AR, (2) University of Michigan, Ann Arbor, MI, (3) Central Botanical Gardens NAS, Minsk, Belarus.
- 06 Field performance of several maturity group IV and V soybean cultivars in a root-knot nematode infested field. **M. Emerson**, K. M. Brown, and T. R. Faske; University of Arkansas, Lonoke Extension Center, Lonoke, AR.
- 07* A functional genomic screen for defense genes in *Glycine max* as it relates to parasitism by the plant parasitic nematode *Heterodera glycines*. **P. M. Niraula**^{1*}, B. R. Lawaju²; B. T. McNeece¹, S. R. Pant^{1,3}, K. Sharma¹, W. A. R. Aljaafri^{2,4}, D. H. Long⁵, K. S. Lawrence⁶, G. W. Lawrence², and V. P. Klink¹; (1) Department of Biological Sciences, Mississippi State University, Mississippi State, MS; (2) Department of Biochemistry, Molecular Biology, Entomology, and Plant Pathology, Mississippi State University, Mississippi State, MS, (3) Department of Plant Pathology and Microbiology, Texas A&M AgriLife Research and Extension, Weslaco, TX, (4) University of Kufa, College of Agriculture, Najaf, Iraq, (5) Albaugh, LLC, Olive Branch, MS, (6) Department of Entomology and Plant Pathology, Auburn University, Auburn AL.

Contributed Papers (Posters, continued)

- 08* A new alternative host sustains systemic infection of Soybean vein necrosis virus. **J. Zhou***¹, N. Aboughanem-Sabanadzovic², S. Sabanadzovic³, and I. E. Tzanetakis¹; (1) University of Arkansas, Fayetteville, AR, (2) Institute for Genomics, Biocomputing and Biotechnology, Mississippi State University, Mississippi State, MS, (3) Department of Biochemistry, Molecular Biology, Entomology, and Plant Pathology, Mississippi State University, Mississippi State, MS.
- 09 Liquid in-furrow fungicide, insecticide and fertilizer application combinations for disease prevention and yield enhancement in Mississippi dent corn. **T. Wilkerson** and T. W. Allen, Jr.; Mississippi State University, Stoneville, MS.
- 10 Reproduction of *Rotylenchulus reniformis* on cotton cultivars in greenhouse and field studies. **T. Wright**¹ and J. E. Woodward²; (1) Texas Tech University, Lubbock, TX, (2) Texas A&M AgriLife Extension Service, Lubbock, TX.
- 11 Performance of a new fungicide premixture for managing soybeans infested with frogeye leaf spot. **N. M. French II**¹, R. Porter², and L. Bednarski³; AMVAC Chemical Corporation, Little Rock, AR, (2) AMVAC Chemical Corporation, Ankeny, IA, (3) AMVAC Chemical Corporation, Snohomish, WA.
- 12 Differences in fumonisin levels associated with commercial corn hybrids and advanced breeding lines. **M. L. Cartwright**¹, W. Xu², C. Vavra², J. Bell³, and J. E. Woodward⁴; (1) Texas A&M University, Lubbock, TX, (2) Texas A&M AgriLife Research, Lubbock, TX, (3) Texas A&M AgriLife Extension, Amarillo, TX, (4) Texas A&M AgriLife Extension Service, Lubbock, TX.

Past and Future Meeting Locations

2010	Orlando, Florida	2016	Wimauma, Florida
2011	Corpus Christi, Texas	2017	College Station, Texas
2012	Birmingham, Alabama	2018	Fayetteville, Arkansas
2013	Baton Rouge, Louisiana	2019	Gainesville, Florida
2014	Dallas, Texas	2020	Charleston, South Carolina
2015	Atlanta, Georgia	2021	TBD, Louisiana

See you next year in Gainesville!

NOTES



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