



**AMERICAN PHYTOPATHOLOGICAL SOCIETY
98TH SOUTHERN DIVISION MEETING**

PROGRAM

**FEBRUARY 15-19, 2021
VIRTUAL MEETING**

2019 – 2020 SD-APS Officers

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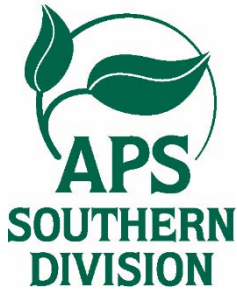
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AMERICAN PHYTOPATHOLOGICAL SOCIETY 98th SOUTHERN DIVISION MEETING PROGRAM

The 98th annual meeting of the American Phytopathological Society, Southern Division, is being held virtually from February 15-19, 2021. All meeting events for paid registrations will be accessible from the meeting webpage (APS log in will be required) unless otherwise noted in this program. *All times listed in this program are in Central Standard Time (CST).*

Photos (screen shots) may be taken during the meeting by SD-APS Executive Committee members or APS staff. As a meeting registrant and attendee, you agree to allow the SD-APS to use your photo in APS publications and on the SD-APS website and social media pages. As a courtesy to presenters, please *do not take photos or screenshots* of posters or presentation slides without presenter approval.

Join us on Facebook and Twitter! - “Like” and follow the [APS Southern Division](#) and the [APS Southern Division - Graduate Students](#) pages on Facebook and follow the [APS SouthernDivision](#) (@sd_aps) on Twitter! Document your experiences throughout the meeting and post your photos using #SDAPS2021.

Friday, February 12, 2021

1:00 - 2:00 PM Executive Committee Meeting

Monday, February 15, 2021

8:00 - 8:30 AM **Welcome**
Trey Price, SD-APS President
LSU AgCenter, Winnsboro, LA

Address to Attendees
William B. Richardson, Vice President for Agriculture
and Chalkley Family Endowed Chair and Dean of College of Agriculture
LSU AgCenter, Baton Rouge, LA

Graduate Student Research Competition (Session I), Moderator: Sean Toporek, SD-APS Graduate Student

8:30 - 8:45 AM Evaluating options for the control of Rhizopus soft rot on sweetpotato.
Waana Kaluwasha and Christopher Clark; Louisiana State University
AgCenter, Baton Rouge, LA.

Graduate Student Research Competition (Session I) *continued*

- 8:45 - 9:00 AM Identifying and evaluating vector competency of insect pests in North Carolina sweetpotato storage facilities for dispersal of *Ceratocystis fimbriata*. **Madison Stahr**¹, Amanda Lytle², Anders Huseth², Matt Bertone², and Lina M. Quesada-Ocampo³; ¹North Carolina State University, Cary, NC, ²North Carolina State University, Raleigh, NC, ³Department of Entomology and Plant Pathology, North Carolina State University, Raleigh, NC.
- 9:00 - 9:15 AM Draft genomes and comparative analyses of binucleate *Rhizoctonia* isolates. **Juanita Gil**¹, Marivi Colle², Timothy D. Miles², and Alejandro Rojas¹; ¹University of Arkansas, Fayetteville, AR, ²Michigan State University, East Lansing, MI.
- 9:15 - 9:30 AM Efficacy of fungicides, biofungicides, host plant defense inducers and fertilizer to manage Phytophthora root rot of dogwood under flooding condition. **Krishna Neupane** and Fulya Baysal-Gurel; Tennessee State University, McMinnville, TN.
- 9:30 - 9:45 AM Utilizing a population genetics approach to facilitate crop-specific management of the cucurbit downy mildew pathogen, *Pseudoperonospora cubensis*. **Kimberly D'Arcangelo**¹, Alamgir Rahman², Timothy D. Miles³, and Lina M. Quesada-Ocampo¹; ¹North Carolina State University, Raleigh, NC, ²Corteva, Carmel, IN, ³Michigan State University, East Lansing, MI.
- 9:45 - 10:00 AM Efficacy of sanitizers in reducing plant-to-plant transfer of *Calonectria pseudonaviculata* conidia on cutting tool blade. **Ravi Bika**¹, Fulya Baysal-Gurel¹, and Warren Copes²; ¹Tennessee State University, McMinnville, TN and ²USDA ARS, Poplarville, MS.
- 10:00 - 10:15 AM Management of Huanglongbing-affected citrus root function by irrigation pH regulation. **Sadikshya Sharma**, Tripti Vashisth, and Evan G. Johnson; University of Florida, Lake Alfred, FL.
- 10:15 - 10:30 AM BREAK

Graduate Student Research Competition (Session II), Moderator: Tariq Alam, SD-APS Graduate Student

- 10:30 - 10:45 AM Development of race specific primers to molecularly distinguish between Race 0 and Race 1 of *Phytophthora nicotianae*. **Sarah Michala Cochran**¹, Tyler Schappe¹, Savithri Purayannur¹, Lina M. Quesada-Ocampo², and Lindsey D. Thiessen¹; ¹North Carolina State University, Raleigh, NC, ²Department of Entomology and Plant Pathology, North Carolina State University, Raleigh, NC.

Graduate Student Research Competition (Session II) *continued*

- 10:45 - 11:00 AM Characterization of prothioconazole resistance in *Fusarium oxysporum* f. sp. *niveum* (FON) laboratory mutants. **Owen Hudson**, Emran Ali, and Pingsheng Ji; University of Georgia, Tifton, GA.
- 11:00 - 11:15 AM In vitro sensitivity of *Aspergillus flavus* isolated from peanut seeds in Georgia in response to a quinone outside inhibitor fungicide azoxystrobin. **Mackenzie Gunn**, Emran Ali, Tammy Lynn Stackhouse, Sumyya Waliullah, Albert K. Culbreath, and Timothy B. Brenneman; University of Georgia, Tifton, GA.
- 11:15 - 11:30 AM Dollar spot disease detection: PCR-RFLP for rapid identification of *Clariireedia jacksonii* and *C. monteithiana*. **Tammy Lynn Stackhouse**¹, Sumyya Waliullah¹, Bochra Amina Bahri², Alfredo D. Martinez-Espinoza², and Emran Ali¹; ¹University of Georgia, Tifton, GA, ²University of Georgia, Griffin, GA.
- 11:30 - 11:45 AM Exploring alternative management of plant pathogens of stevia in North Carolina, Mexico, and Paraguay. **Andres D. Sanabria**¹, Guillermo Enciso², Marco Maidana-Ojeda², Jose Francisco Diaz-Najera³, Lindsey D. Thiessen¹, and David Shew¹; ¹North Carolina State University, Raleigh, NC, ²Centro de Desarrollo e Innovación Tecnológica, Hohenau, Paraguay, ³Departamento de Fitotecnia, Colegio Superior Agropecuario del Estado de Guerrero, Guerrero, Mexico.
- 11:45 - 12:00 PM Foliar symptoms of taproot decline are caused by systemic secondary metabolites produced by *Xylaria necrophora*. **Teddy Garcia-Aroca**¹, Paul Price², David Galo¹, José Solórzano¹, Sophie Sheffield¹, and Vinson Doyle¹; ¹Department of Plant Pathology & Crop Physiology, Louisiana State University, Baton Rouge, LA, ²LSU AgCenter, Macon Ridge Research Station, Winnsboro, LA.
- 12:00 - 12:15 PM Phylogenetic analysis of *Pseudoperonospora cubensis*, the causal agent of cucurbit downy mildew in Eastern United States. **Allina Bennett**, Sumyya Waliullah, Pingsheng Ji, and Emran Ali; University of Georgia, Tifton, GA.
- 12:15 - 12:30 PM Spatial analysis of phony peach disease in commercial and research peach orchards in Georgia. **Kendall Johnson**¹, Clive H. Bock², and Phillip M. Brannen¹; ¹University of Georgia, Athens, GA, ²USDA ARS, Southeastern Fruit and Tree Nut Research Laboratory, Byron, GA.
- 12:30 - 4:00 PM *No scheduled SD-APS program activities*
- 4:00 - 5:00 PM **Graduate Student/Post-doc Networking Event: “Pitch Perfect”**
Organizers: Rebecca Melanson, SD-APS Secretary-Treasurer, and Teddy Aroca-Garcia and Hope Becton, SD-APS Graduate Student Representatives. Practice your elevator pitch as you meet fellow graduate students and post-docs from within the SD-APS.

Tuesday, February 16, 2021

Technical Session I, Moderators: Kimberly D'Arcangelo, SD-APS Graduate Student, and Rufus Akinrinlola, SD-APS Graduate Student

- 8:30 - 8:45 AM Huanglongbing infection in sweet orange is associated with abnormal phloem callose deposition and carbohydrate transport dysfunction. Stacy Welker¹, Manjul Dutt², **Amit Levy**², and Christopher Vincent²; ¹University of Florida Plant Pathology Department, Auburndale, FL, ²University of Florida, Lake Alfred, FL.
- 8:45 - 9:00 AM No trespassing! Barrier zone in the sweetpotato storage root prevents expansion of *Ceratocystis fimbriata* infections. **Camilo H. Parada Rojas**¹, Anton Jansson², Kenneth Pecota³, Craig Yencho³, and Lina M. Quesada-Ocampo¹; ¹Department of Entomology and Plant Pathology, North Carolina State University, Raleigh, NC, ²Analytical Instrumentation Facility, North Carolina State University, Raleigh, NC, ³Department of Horticulture, North Carolina State University, Raleigh, NC.
- 9:00 - 9:15 AM Evaluation of potential biological control agents in reducing the impact of *Rhizoctonia solani* and *Fusarium graminearum* in controlled environments. **Sherif Adam Sharfadine**, Clemencia M. Rojas, and Alejandro Rojas; University of Arkansas, Fayetteville, AR.
- 9:15 - 9:30 AM Determining baseline fungicide sensitivity in *Cercospora* spp. with DMI and Qol inhibiting fungicides. **Amber Lyn Lancaster**¹, John C. Rupe², Travis R. Faske³, and Alejandro Rojas²; ¹University of Arkansas, Bella Vista, AR, ²University of Arkansas, Fayetteville, AR, ³University of Arkansas System Division of Agriculture Cooperative Extension, Lonoke, AR.
- 9:30 - 9:45 AM Development of a TaqMan assay for the detection of Groundnut Bud Necrosis Orthospovirus for quarantine screening. **Anushi Suwaneththiya Deraniyagala**¹, Hari Kishan Sudini², Shyamalrau Tallury³, Avijit Roy⁴, and Sudeep Bag¹; ¹University of Georgia, Tifton, GA, ²ICRISAT, Patancheru, Telangana, India, ³USDA ARS, Griffin, GA, ⁴USDA APHIS PPQ S&T CPHST, Beltsville, MD.
- 9:45 - 10:00 AM Survey of *Bipolaris* species causing foliar disease on weedy invasive grasses in Florida. **Ashish Adhikari**, Brett Robert Lane, Philip Harmon, and Erica M. Goss; University of Florida, Gainesville, FL.
- 10:00 - 10:15 AM Using fungal endophytes of a wild relative to control *Fusarium oxysporum* in cultivated lettuce. **Nicole Colon-Carrion**, Barry Pryor, and Elizabeth Arnold; University of Arizona, Tucson, AZ.
- 10:15 - 10:45 AM BREAK

Technical Session I *continued*

- 10:45 - 11:00 AM WITHDRAWN
- 11:00 - 11:15 AM Diversity and community structure of the Peruvian potato virome. **A Ricardo Ivan Alcala-Brise**^{1,2,3}, Segundo S. Fuentes⁴, Ana Perez⁴, Jan F. Kreuze⁵, and Karen A. Garrett^{1,2,6}; ¹Emerging Pathogens Institute, University of Florida, Gainesville, FL, ²Food Systems Institute, University of Florida, Gainesville, FL, ³University of Florida, Gainesville, FL, ⁴International Potato Center, Lima, Peru, ⁵CGIAR Research Program on Roots, Tubers and Banana, International Potato Center, Lima, Peru, ⁶Plant Pathology Department, University of Florida, Gainesville, FL.
- 11:15 - 11:30 AM Development and validation of *Peronospora belbahrii*-specific diagnostic markers. **Jeffrey R. Standish**¹, Megan Bowman², Kevin L. Childs³, Miaoying Tian⁴, and Lina M. Quesada-Ocampo¹; ¹Department of Entomology and Plant Pathology, North Carolina State University, Raleigh, NC, ²Ball Horticultural Company, West Chicago, IL, ³Department of Plant Biology, Michigan State University, East Lansing, MI, ⁴University of Hawaii at Manoa, Honolulu, HI.
- 11:30 - 11:45 AM Use of synthetic antifungal peptides to mitigate aflatoxin contamination. **Rebecca R. Sweany**, Kanniah Rajasekaran, and Jeffrey Cary; USDA Southern Regional Research Center, New Orleans, LA.
- 11:45 - 1:00 PM LUNCH BREAK
- 1:00 - 2:00 PM **Poster Session I: Graduate Student Poster Competition and Contributed Papers**, *Moderator: Afsha Tabassum, SD-APS Graduate Student*
Posters should be viewed prior to the poster session. However, during this session, presenters will have 3 minutes to provide a brief overview of their poster. Each presentation will be followed by 2 minutes for questions. Presenters will appear in the order listed below. Additional time for questions will follow the last presenter presentation and designated question period.
1. Response of different cover crops against *Phytophthora nicotianae*. **Milan Panth**^{1,2}, Anthony Witcher¹, and Fulya Baysal-Gurel¹; ¹Tennessee State University, McMinnville, TN, ²Clemson University, Blackville, SC.

Poster Session I *continued*

2. Cover crop usage for the sustainable management of soilborne diseases in woody ornamental nursery production system. **Madhav Parajuli¹**, Fulya Baysal-Gurel¹, and Milan Panth^{1,2}; ¹Tennessee State University, McMinnville, TN, ²Clemson University, Blackville, SC.
3. Evaluation of chemical and biocontrol products for the management of Fusarium root and crown rot of oakleaf hydrangea. **Sandhya Neupane** and Fulya Baysal-Gurel; Tennessee State University.
4. WITHDRAWN
5. Loblolly pine is dying due to defoliation: who is the culprit? **Debit Datta¹**, Scott A. Enebak¹, Jeffrey James Coleman¹, and Lori G. Eckhardt²; ¹Auburn University, Auburn, AL, ²School of Forestry and Wildlife Sciences, Auburn University, Auburn, AL.
6. Quantifying phloem callose formation in CTV-infected Citrus macrophylla trees. **Maryam Khalilzadeh¹**, Stacy Welker², and Amit Levy¹; ¹University of Florida, Lake Alfred, FL, ²University of Florida Plant Pathology Department, Auburndale, FL.
7. Stevia, in the quest of sweetness... plant diseases appear! Identifying priority diseases limiting stevia production in Paraguay. **Andres D. Sanabria¹**, Javier E. Barua², Alberto A. Cubilla-Rios³, Guillermo Enciso⁴, Marco Maidana-Ojeda⁴, David Shew¹, and Lindsey D. Thiessen¹; ¹North Carolina State University, Raleigh, NC, ²Universidad Nacional de Asuncion, Central, Paraguay, ³Facultad de Ciencias Químicas, Universidad Nacional de Asunción, Central, Paraguay, ⁴Centro de Desarrollo e Innovación Tecnológica, Hohenau, Paraguay.
8. Taken in plain sight: Fungal pathogens affecting watermelon production fields in Texas. **Brittnay Meyer^{1,2}**, Kimberly A. Cochran³, and Kevin Ong¹; ¹Texas A&M AgriLife Extension Service, College Station, TX, ²Texas A&M University, College Station, TX, ³Texas A&M University, Uvalde, TX.

2:00 - 4:00 PM

No scheduled SD-APS program activities

4:00 - 5:00 PM

Graduate Student/Post-doc Social/Meeting

Leaders: Teddy Aroca-Garcia and Hope Becton, SD-APS Graduate Student Representatives

Wednesday, February 17, 2021

- 8:00 - 9:45 AM** **Symposium: “Louisiana Extension Perspectives”**
Moderator: Trey Price, SD-APS President
- 8:00 AM Welcome and Speaker Introduction
Trey Price, LSU AgCenter
- 8:05 AM Sugarcane in Louisiana - should we be growing a tropical crop?
Kenneth Gravois, Sugar Research Station, LSU AgCenter.
- 8:25 AM Bollworm resistance to Bt in transgenic field crops
Sebe Brown, Field Crops Extension Entomologist, LSU AgCenter.
- 8:45 AM Weed management in Louisiana: they just keep coming
Daniel Stephenson, Professor/Specialist – Weed Science, LSU AgCenter.
- 9:05 AM Top five challenges Louisiana fruit and vegetable growers face
Kathryn Fontenot, School of Plant, Environmental and Soil Sciences, LSU AgCenter.
- 9:25 AM Medical miracle plant with many plant health problems
Raj Singh, Associate Professor/Horticulture Pathology Extension Specialist & Director, Plant Diagnostic Center, LSU AgCenter.
- 9:45 - 10:00 AM BREAK
- 10:00 - 11:30 AM** **Symposium: “Industry Sponsors”**
Moderator: Trey Price, SD-APS President
Bond McInnes, Technical Service Manager, AgBiome, Hahira, GA
Kishor K. Bhattarai, Research Manager – Pathology Trait, HM Clause, Inc., Davis, CA
Shine Taylor, Southeast Field Development Representative, Gowan USA, Bradenton, FL
Kenny Seebold, Product Development Manager, Valent USA, Lexington, KY
Alvin Rhodes, Technical Service Representative, BASF Corporation, Madison, MS
Mason Newark, Product Development Specialist, AMVAC, Gainesville, FL
Karla Medina, Field Development Manager, Southeast Territory
Randy Myers, Agronomic Solutions Manager, Bayer, Chesterfield, MO
- 11:30 AM - 4:00 PM *No scheduled SD-APS program activities*

Wednesday, February 17, 2021 continued

4:00 - 5:00 PM

Networking Event: “Talk to an Expert”

Organizers: Rebecca Melanson, SD-APS Secretary-Treasurer, and Teddy Aroca-Garcia and Hope Becton, SD-APS Graduate Student Representatives. Graduate students and post-docs are encouraged to participate in this networking event to meet with and learn from “experts” with experience in various career sectors or volunteering with APS or who are in the early stage of their careers. Event participants will be able to “come and go” to dedicated break out rooms (listed below) to visit with experts. Short bios of each expert are available on the SD-APS Virtual Meeting webpage (login required).

APS Leadership/Volunteering Rooms
Ashok Chanda and Guy Boyd Padgett
Lawrence Datnoff and Katy Stevenson

Early Career Rooms
Jeff Standish and Jon Richards
Braham Dhillon and Tessie Wilkerson

Extension Rooms
Travis Faske and Rebecca Melanson
Nicole Gauthier and Ed Sikora

Industry Rooms
Tyler Harp and Mason Newark
Sierra Hartney and Kenny Seebold

USDA Rooms
Jason Hong and Bill Wintermantel
Shaker Kousik and Rebecca Sweany

Thursday, February 18, 2021

Technical Session II, *Moderators: Hope Becton, SD-APS Graduate Student Representative, and Teddy Garcia-Aroca, SD-APS Graduate Student Representative*

8:30 - 8:45 AM

Mixtures of inpyrfluxam and elemental sulfur for management of late leaf spot of peanut. **Albert K. Culbreath**¹, Timothy B. Brenneman¹, Robert Kemerait¹, Hunt Sanders², and Kenneth W. Seebold, Jr.³; ¹University of Georgia, Tifton, GA, ²Valent USA, Tifton, GA, ³Valent USA LLC, Lexington, KY.

Technical Session II *continued*

- 8:45 - 9:00 AM Determining the efficacy of fungicides in the control of dragon fruit stem and fruit canker. **Tiago De Paula Lelis**¹, Jonathan H. Crane¹, Shouan Zhang¹, and Romina Gazis²; ¹University of Florida - Tropical Research and Education Center, Homestead, FL, ²University of Florida, Homestead, FL.
- 9:00 - 9:15 AM LAMP assay as a robust, field deployable diagnostic tool for detection of cucurbit leaf crumple virus. **Sumyya Waliullah**¹, Kai-shu Ling², Elizabeth Cieniewicz³, Jonathan E. Oliver¹, Pingsheng Ji¹, and Emran Ali¹; ¹University of Georgia, Tifton, GA, ²USDA ARS, Charleston, SC, ³Clemson University, Clemson, SC.
- 9:15 - 9:30 AM In vitro and in field application efficacy of local *Trichoderma* strains against Fusarium wilt of tomato. **Joseph D. Carrillo**¹, Li Yang², and Gary E. Vallad¹; ¹Gulf Coast Research and Education Center, University of Florida, Wimauma, FL, ²China Agricultural University, Beijing, Haidian, China.
- 9:30 - 9:45 AM Variability in survival of grafted tomato plants exposed to the bacterial wilt pathogen in the field. **John Spafford**, Ella Reeves, and Inga Meadows; North Carolina State University, Waynesville, NC.
- 9:45 - 10:00 AM Automated reporting of on-farm foliar fungicide trials in Arkansas with potential expansion to a regional project. **Terry N. Spurlock**¹ and Robert Hoyle²; ¹University of Arkansas System Division of Agriculture, Lonoke, AR and, ²University of Arkansas System Division of Agriculture, Monticello, AR.
- 10:00 - 10:30 AM BREAK
- 10:30 - 10:45 AM Approaching laurel wilt of avocado through different angles: From early and rapid diagnosis to building baseline knowledge for breeding programs. **Pedro Pablo Parra Giraldo**¹, Jonathan H. Crane², Bruce Schaffer¹, and Romina Gazis¹; ¹University of Florida, Homestead, FL, ²University of Florida - Tropical Research and Education Center, Homestead, FL.
- 10:45 - 11:00 AM WITHDRAWN
- 11:00 - 11:15 AM Examining interactions between Thimet® and early and late leaf spot on peanut, a surprising finding. **Mason J. Newark**¹, Scott Ludwig², and Peter Porpiglia³; ¹AMVAC, Gainesville, FL, ²AMVAC, Arp, TX, ³AMVAC, Newport Beach, CA.

Technical Session II *continued*

- 11:15 - 11:30 AM A machine learning tool for smartphone-based rapid detection of tomato diseases. **Sruthi Sentil**, Manoj Choudhary, and Mathews L. Paret; University of Florida, Quincy, FL.
- 11:30 - 11:45 AM Identification and expression profiling of effectors in the hop downy mildew pathogen *Pseudoperonospora humuli*. **Savithri Purayannur**¹, Liliana M. Cano^{2,3}, Megan Bowman^{4,5}, Kevin L. Childs⁵, David H. Gent⁶, and Lina M. Quesada-Ocampo³; ¹North Carolina State University, Raleigh, NC, ²University of Florida - Fort Pierce, FL, Fort Pierce, FL, ³Department of Entomology and Plant Pathology, North Carolina State University, Raleigh, NC, ⁴Ball Horticultural Company, West Chicago, IL, ⁵Department of Plant Biology, Michigan State University, East Lansing, MI, ⁶USDA ARS, Corvallis, OR.
- 11:45 AM - 1:00 PM LUNCH BREAK
- 1:00 - 2:00 PM **Poster Session II: Poster Technical Session and Contributed Papers**,
Moderator: Marcio Zaccaron, SD-APS Early Career Member
Posters should be viewed prior to the poster session. However, during this session, presenters will have 3 minutes to provide a brief overview of their poster. Each presentation will be followed by 2 minutes for questions. Presenters will appear in the order listed below. Additional time for questions will follow the last presenter presentation and designated question period.
1. Classical, molecular, and high-throughput sequencing techniques to screen new sweetpotato germplasm imported into the United States. **Michelle E. Marks**, Xiaojun Hu, Benjamin Atha, Joseph A. Foster, and Ronald D. French-Monar; USDA APHIS PPQ FO PGQP, Laurel, MD.
 2. Mango and avocado anthracnose: A major challenge for organic fruit production in south Florida. **Thais Egreja**¹, Jonathan H. Crane², Bruce Schaffer³, Ali Sarkhosh⁴, and Romina Gazis²; University of Florida - Tropical Research and Education Center, Homestead, FL.
 3. Evaluation of in-furrow treatments to manage invasive root knot nematode (*Meloidogyne enterolobii*) in North Carolina Cotton. **Yara Ivelisse Rosado Rivera**, Ashley Joyce, and Lindsey D. Thiessen; North Carolina State University, Raleigh, NC.
 4. In-season survey of soybean taproot decline incidence and severity on selected Mississippi delta farms. **William Kingery**; Mississippi State University, Starkville, MS.

Poster Session II *continued*

5. Reducing losses associated with poor grain quality using advanced soybean germplasm in Mississippi. **Janis Fomba**¹, Maria Tomaso-Peterson², Donald Cook¹, Thomas W. Allen¹, Ames R. Smith¹, and Tessie H. Wilkerson¹; ¹Mississippi State University, Stoneville, MS, Mississippi State University, Starkville, MS.
6. Incorporating cropland connectivity as a new standard feature of geographic risk assessment and surveillance strategies. **Yanru Xing**^{1,2,3}, Aaron Isaí Plex Sulá^{2,3}, and Karen A. Garrett^{1,2,3}; ¹Emerging Pathogens Institute, University of Florida, Gainesville, FL, ²Plant Pathology Department, University of Florida, Gainesville, FL, ³Food Systems Institute, University of Florida, Gainesville, FL.
7. Tools for evaluating and improving seed systems and seed health in roots, tubers and bananas. **Cindy Cox**^{1,2,3}, Ethan Weinrich^{1,2,3}, Jorge L. Andrade-Piedra⁴, Margaret McEwan⁵, Conny Almekinders⁶, and Karen A. Garrett^{1,2,3}; ¹Plant Pathology Department, University of Florida, Gainesville, FL, ²Food Systems Institute, University of Florida, Gainesville, FL, ³Emerging Pathogens Institute, University of Florida, Gainesville, FL, ⁴International Potato Center (CIP), Lima, Peru, ⁵International Potato Center, Nairobi, Kenya, ⁶Wageningen University & Research, Wageningen, Netherlands.
8. Isolation of three strains of *Slafractonia leguminicola* and attempts at pathogenicity tests on red clover (*Trifolium pratense* L.). **Isabelle Kagan**; USDA ARS, Lexington, KY.
9. Assessment of fungicide efficacy for hemp leaf spot and powdery mildew in Tennessee. **Rufus Akinrinlola** and Zachariah R. Hansen; University of Tennessee Knoxville, Jackson, TN.
10. Regional management strategies for avocado laurel wilt: understanding the effects of farmer decision-making on epidemics. B. Etherton^{1,2,3}, R. A. Choudhury^{1,2,3}, Y. Xing^{1,2,3}, J. Crane^{5,7}, D. Carrillo^{4,5}, E. Evans^{5,6}, J. Wasielewski⁸, L. Stelinski^{4,9}, R. C. Ploetz^{2,5}, K. A. Grogan⁶, R. I. Alcalá-Briseño^{1,2,3}, and K. A. Garrett^{1,2,3}. ¹University of Florida Plant Pathology Department, ²University of Florida Food Systems Institute, ³University of Florida Emerging Pathogens Institute, ⁴University of Florida Entomology and Nematology Department, ⁵University of Florida Tropical Research and Education Center, ⁶University of Florida Department of Food and Resource Economics, ⁷University of Florida Horticultural Sciences Department, ⁸University of Florida/IFAS Extension Miami-Dade County, and ⁹University of Florida Citrus Research and Education Center

Thursday, February 18, 2021 continued

- 2:00 - 5:00 PM **Workshop: “Genomic Approaches to Plant Pathology: Bioinformatics as A Powerful Tool”**
Moderator: Teddy Garcia-Aroca, SD-APS Graduate Student Representative
Additional workshop details and presenter bios are available on the SD-APS Virtual Meeting webpage (login required).
- 2:00 PM Presentation: Analysis of population data in R
Niklaus J. Grünwald, *USDA ARS and Oregon State University*, and
Nicholas Carleson, *Oregon State University*
- 3:00 PM Presentation: Introduction to association mapping in microbial organisms
Jonathan K. Richards, *Louisiana State University*
- 4:00 PM Presentation: Introduction to microbiome data: using the DADA2 pipeline
Sharifa Crandall, *Pennsylvania State University*

Friday, February 19, 2021

- 8:00 - 10:00 AM **Workshop: “Careers 101: CVs”**
Leader: Nicole Gauthier, SD-APS Divisional Forum Representative
Pre-registration for this workshop was required. Registration for this workshop is currently closed. Workshop registrants will receive an email one day before the workshop from Nicole Gauthier with instructions and a link to join this workshop.
- 10:00 – 10:15 AM BREAK
- 10:15 AM - 12:00 PM **SD-APS Business Meeting, APS Update, and Awards Ceremony**

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See you next year (hopefully) in Chattanooga, TN!

2021 SD-APS Meeting Planning Committee

Trey Price, SD-APS President
Fulya Baysal-Gurel, SD-APS President-Elect
Lindsey Thiessen, SD-APS Vice President
Rebecca A. Melanson, SD-APS Secretary-Treasurer
Hope Becton, SD-APS Graduate Student Representative
Teddy Garcia-Aroca, SD-APS Graduate Student Representative
Chandrasekar (Shaker) Kousik, SD-APS Immediate Past President
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