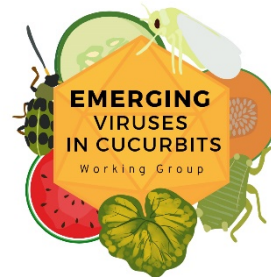




**AMERICAN PHYTOPATHOLOGICAL SOCIETY
100TH SOUTHERN DIVISION MEETING**

in conjunction with

**the Southern Plant Diagnostic Network and the
Emerging Viruses in Cucurbits Working Group**



PROGRAM

**FEBRUARY 13 – 16, 2023
IN-PERSON MEETING**

2022 – 2023 SD-APS Officers

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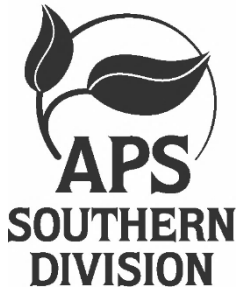
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AMERICAN PHYTOPATHOLOGICAL SOCIETY 100th SOUTHERN DIVISION MEETING PROGRAM

The 100th annual meeting of the American Phytopathological Society, Southern Division, is being held on February 13-16, 2023, in Durham, NC, at the Durham Convention Center. The meeting is in-person. Unless otherwise specified, all program events will take place at the Durham Convention Center. The main program will take place in Junior Ballroom B; any location changes for specific events are noted in the program event listing. Breakfast will be provided each morning during the specified hours. Heavy hors d'oeuvres and a cash bar will be available at the Welcome Reception and Poster Viewing Session on Tuesday evening. A cash bar will also be available during Awards Banquet. Additional details regarding transportation and meals are included in the program at the listing for each event. *All times listed in this program are in Eastern Time (ET).*

Photos may be taken during the meeting by SD-APS Executive Committee members. 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 #SDAPS2023.

Monday, February 13, 2023

8:00 AM - 12:00 PM **WORKSHOP: Southern Plant Diagnostic Network (SPDN) Core Accreditation Program**

Leader: **Carrie Harmon**, Co-Director, SPDN

Location: Meeting Room 2

12:00 - 5:00 PM **SPDN Regional Business Meeting**

Leaders: **Carrier Harmon**, Co-Director, SPDN; **Jeff Jones**, Co-Director, SPDN; **Matt Bertone**, Director – Plant Disease and Insect Clinic, North Carolina State University

Location: Meeting Room 2

Lunch provided for SPDN members.

3:00 - 4:30 PM **SD-APS Executive Committee Meeting**

Location: TBD

4:30 - 5:30 PM **Registration**

Location: Junior Ballroom Pre-Function Area

Tuesday, February 14, 2023

- 7:00 - 8:00 AM Breakfast
Location: Junior Ballroom Pre-Function Area
- 7:30 - 7:45 AM **Welcome**
Lindsey Thiessen, SD-APS President, USDA APHIS PPQ, Raleigh, NC
Carolyn Young, Professor and Department Head, Department of Entomology and Plant Pathology, North Carolina State University, Raleigh, NC
- Graduate Student Research Competition (Session I)**, *Moderators: Misbakhul Munir, SD-APS Postdoctoral Researcher, and Elias Zuchelli, SD-APS Graduate Student*
- 7:45 - 7:57 AM A nonpathogenic signal peptidase mutant of the maize anthracnose fungus *Colletotrichum graminicola* secretes cell wall degrading enzymes normally. **Renata Belisário**, Jamari Taylor, and Lisa J. Vaillancourt; University of Kentucky, Lexington, KY.
- 7:57 - 8:09 AM Cercospora leaf spot resistance of crapemyrtle cultivars in Tennessee, USA. **Madhav Parajuli**¹, Prabha Liyanapathiranage¹, Jacob Shreckhise², Donna Fare², Benjamin Moore², and Fulya Baysal-Gurel¹; ¹Tennessee State University, McMinnville, TN, ²U.S. Department of Agriculture, McMinnville, TN.
- 8:09 - 8:21 AM Effect of plasma activated water (PAW) in tomato seedlings biomass and control of bacterial spot caused by *Xanthomonas euvesicatoria* pv. *perforans*. **Andrea Karina Suazo Tejada**¹ and Gary E. Vallad²; ¹University of Florida, Wimauma, FL, ²Gulf Coast Research and Education Center, University of Florida, Wimauma, FL.
- 8:21 - 8:33 AM Roundworms and dead-man's fingers: parasitic nematodes of soybean and *Xylaria necrophora*. **Shelly Pate**¹, Heather M. Kelly¹, Ernest Bernard², and Lesley Schumacher³; ¹University of Tennessee, Jackson, TN, ²University of Tennessee, Entomology and Plant Pathology Department, Knoxville, TN, ³USDA-ARS, Jackson, TN.
- 8:33 - 8:45 AM Examining the role of effector XopJ2 on bacterial ingress and egress in tomato. **Garrett Giles**¹, Anuj Sharma², Erica M. Goss², Gary E. Vallad¹, and Jeffrey B. Jones²; ¹University of Florida, Gulf Coast Research and Education Center, Wimauma, FL, ²University of Florida, Gainesville, FL.
- 8:45 - 8:57 AM A statewide survey of *Fusarium* spp. associated with Fusarium head blight of hemp. **Henry S. Smith**, Edward W. Dixon, Misbakhul Munir, and Nicole A. Gauthier; University of Kentucky, Lexington, KY.

Graduate Student Research Competition (Session I, *cont'd*)

- 8:57 - 9:09 AM Distribution of infrared thermal signaling observed on southern highbush blueberry leaves inoculated with *Xylella fastidiosa* subspecies multiplex. **Melinda Guzman Martinez** and Paul Severns; University of Georgia, Athens, GA.
- 9:09 - 9:21 AM Survey and characterization of *Xanthomonas* pathogens associated with bacterial spot of pepper in Southwest Florida. **Aastha Subedi**¹, Gerald V. Minsavage Jr.¹, Jeffrey B. Jones¹, Pamela D. Roberts², and Erica M. Goss^{1,3}; ¹Department of Plant Pathology, University of Florida, Gainesville, FL, ²Southwest Florida Research & Education Center, University of Florida, Immokalee, FL, ³Emerging Pathogens Institute, University of Florida, Gainesville, FL.
- 9:21 - 9:33 AM Development of a risk assessment index for the management of whitefly-transmitted viruses in squash. **Clarence Codod**¹, Alton N. Sparks Jr.¹, Andre L.B.R. da Silva², Paul Severns³, Joara Candian⁴, Rajagopalbabu Srinivasan⁵, Robert Kemerait⁶, and Bhabesh Dutta¹; ¹University of Georgia, Tifton, GA, ²Auburn University, Auburn, AL, ³University of Georgia, Athens, GA, ⁴Bejo Seeds Inc., GA, ⁵University of Georgia, Griffin, GA, ⁶Department of Plant Pathology, University of Georgia, Tifton, GA.
- 9:33 - 9:45 AM Development of a PMA-qPCR assay for detection of viable *Xanthomonas arboricola* pv. *pruni* cells in peach trees. **Milan Panth**¹, Enoch Noh¹, Guido Schnabel², and Hehe Wang¹; ¹Clemson University - EREC, Blackville, SC, ²Department of Plant and Environmental Sciences, Clemson University, Clemson, SC.
- 9:45 - 9:57 AM Calcite Dissolving Bacteria (CDB): a new sustainable future for peanut (*Arachis hypogaea*) production. **Alan Peper**¹, Li Yang¹, and Timothy B. Brenneman²; ¹University of Georgia, Athens, GA, ²University of Georgia, Tifton, GA.
- 9:57 - 10:12 AM BREAK: Networking

Graduate Student Research Competition (Session II), Moderators: Shelly Pate and Sarah Cochran, SD-APS Graduate Students

- 10:12 - 10:24 AM Sclerotial production and hyphal growth of *Phymatotrichopsis omnivora*, cause of cotton root rot, in different soil types. **Maxwell Sturdivant**, Thomas S. Isakeit, and Sanjay Antony-Babu; Texas A&M University, College Station, TX.

Graduate Student Research Competition (Session II, *cont'd*)

- 10:24 - 10:36 AM Monitoring for mutations related to oxathiapiprolin fungicide resistance in *Pseudoperonospora cubensis* populations. **Mariana Prieto Torres** and Lina M. Quesada-Ocampo; North Carolina State University, Department of Entomology and Plant Pathology and North Carolina Plant Sciences Initiative, Raleigh, NC.
- 10:36 - 10:48 AM Non-code deep learning models for tomato diseases classification using microscopic-magnified images. **Manoj Choudhary**¹, Jeffrey B. Jones¹, and Mathews L. Paret²; ¹Department of Plant Pathology, University of Florida, Gainesville, FL, ²University of Florida, Quincy, FL.
- 10:48 - 11:00 AM Standardizing diagnostic techniques and assessing fungicide sensitivity in *Elsinoë perseae*, an old foe of avocado production in south Florida. **Christ Mane Belizaire**¹, Lederson Gañán-Betancur¹; Jonathan H. Crane^{2,3}, and Romina Gazis^{1,2}; ¹University of Florida, Homestead, FL, ²University of Florida, Tropical Research and Education Center, Homestead, FL, ³University of Florida - Horticultural Sciences Department, Gainesville, FL.
- 11:00 - 11:12 AM Detection of fungicide resistance in populations of *Corynespora cassiicola* in Arkansas. **Rafael Zaia**¹, Travis R. Faske², Terry N. Spurlock³, and Alejandro Rojas¹; ¹University of Arkansas, Fayetteville, AR, ²University of Arkansas, Lonoke, AR, ³University of Arkansas System Division of Agriculture, Lonoke, AR.
- 11:12 - 11:24 AM To Bt, or not to Bt? Evaluating insecticidal protein and mycotoxigenic fungi interactions. **Autumn McLaughlin** and Heather M. Kelly; University of Tennessee, Jackson, TN.
- 11:24 - 11:36 AM Impacts of brown marmorated stink bugs on ear rots in Tennessee field corn. **Alexandra Nicole Crowder**, Heather M. Kelly, and Sebe Brown; University of Tennessee, West Tennessee Research and Education Center, Jackson, TN.
- 11:36 - 11:48 AM Response of selected commercial peanut cultivars to leaf spot under varying fungicide inputs. **Livleen Kaur**¹, Lee Campbell¹, Christopher Parker², Brad Miller¹, and Amanda Strayer-Scherer¹; ¹Auburn University, Auburn, AL, ²Wiregrass Research and Extension Center, Auburn University, Headland, AL.
- 11:48 AM - 12:00 PM Examining generational legacy and post-flowering drought stress impact on the wheat seed mycobiome. **Lindsey Elizabeth Becker** and Marc A. Cubeta; North Carolina State University, Raleigh, NC.

12:00 - 2:00 PM Lunch (on your own)

12:00 - 2:00 PM **Careers 101 Workshop: Networking** (Workshop)
Leader: **Nicole Gauthier**, SD-APS Divisional Forum Representative
Lunch provided for workshop pre-registrants.
Location: Junior Ballroom C.
Sponsored by Corteva Agriscience.

Graduate Student Research Competition (Session III), Moderators: Milan Panth, and Livleen Kaur, SD-APS Graduate Students

2:00 - 2:12 PM *Rhizoctonia solani* AG1-IA genetic variability in Arkansas, Louisiana and Texas. **Juanita Gil**¹, Kensy Rodriguez², Sara Thomas-Sharma³, Vanina Lilian Castroagudin⁴, Terry N. Spurlock⁵, James C. Correll¹, and Alejandro Rojas¹; ¹University of Arkansas, Fayetteville, AR, ²Cornell University, Ithaca, NY, ³Department of Plant Pathology & Crop Physiology, LSU AgCenter, Baton Rouge, LA, ⁴NMDBG Lab, USDA-ARS, Beltsville, MD, ⁵University of Arkansas System Division of Agriculture, Lonoke, AR.

2:12 - 2:24 PM Planting of rye cover crop contributes to soybean taproot decline disease progression caused by *Xylaria necrophora*. **Qiurong Fan**¹, Marcos Paulo Da Silva¹, Rafael Zaia¹, Terry N. Spurlock² and Alejandro Rojas¹; ¹University of Arkansas, Fayetteville, AR, ²University of Arkansas System Division of Agriculture, Lonoke, AR.

2:24 - 2:36 PM Survey of virus diversity in Texas wheat (*Triticum aestivum*) fields. **Ashrafou Ouro-Djobo**¹, Ken Obasa², John O. Oladokun³, and Olufemi J. Alabi³; ¹Texas A&M University, Mercedes, TX, ²Texas A&M University, Amarillo, TX, ³Texas A&M University, Weslaco, TX.

2:36 - 2:48 PM Polymorphic toxin arsenals in plant pathogenic bacteria. **Andrea Mariel Gómez**¹, Alejandra I. Huerta¹, Samah Ameen¹, and Jose C. Huguet-Tapia²; ¹North Carolina State University, Raleigh, NC, ²University of Florida, Gainesville, FL.

2:48 - 3:00 PM Fungicidal effects on soybeans in drought stress environments. **Jackson P. Adcock**¹, Heather M. Kelly², and Avat Shekoofa²; ¹The University of Tennessee, Knoxville, TN, ²University of Tennessee, Jackson, TN.

3:00 - 3:12 PM Changes in fungal and bacterial diversity over a peanut soil moisture gradient. **Laura Rodriguez**, Zachary A. Noel, and Kira L. Bowen; Auburn University, Auburn, AL.

Graduate Student Research Competition (Session III, *cont'd*)

- 3:12 - 3:24 PM Characterization of *Fusarium oxysporum* f.sp. *lycopersici* strain JY67, a potential novel race of Fusarium wilt on tomato in Florida. **Jingya Yang** and Gary E. Vallad; University of Florida, Gulf Coast Research and Education Center, Wimauma, FL.
- 3:24 - 3:36 PM First survey of pathogenic *Xanthomonas* on Florida brassicas identifies *X. euvesicatoria* pv. *perforans* strains causing black rot. **Renzo Ramirez** and Gary E. Vallad; University of Florida, Gulf Coast Research and Education Center, Wimauma, FL.
- 3:36 - 3:48 PM BREAK: Networking
- 3:48 - 4:00 PM Why so picky: gene profiles and evolutionary genomics provide insights into watermelon variety-specific virulence of *Fusarium oxysporum* f. sp. *niveum*. **Matthew Cullen**, Jose C. Huguet-Tapia, Jeremy Brawner, and Nicholas S. Dufault; University of Florida, Gainesville, FL.
- 4:00 - 4:12 PM Tracking *Colletotrichum camelliae* in the fruits and seeds of *Camellia sinensis* in Florida. **Kylee Soltez**¹, Caitlin Clarke², and Brantlee Spakes Richter³; ¹Department of Biology, University of Florida, Gainesville, FL, ²Horticultural Sciences Department, University of Florida, Gainesville, FL, ³Department of Plant Pathology, University of Florida, Gainesville, FL.

Graduate Student Technical Session, Moderators: Bhawana Ghimire and Aastha Subedi, SD-APS Graduate Students

- 4:12 - 4:24 PM A diverse catalog of NLR genes in hexaploid sweetpotato cultivars. **Camilo H. Parada Rojas**¹, Kevin L. Childs², Monica Fernandez de Soto³, Andres Felipe Salcedo¹, Kenneth Pecota⁴, Craig Yencho⁴, Christie V. Almeyda¹, Mercy Kitavi⁵, C. Robin Buell⁶, Gavin Conant⁷, David Baltzegar⁸, and Lina Maria Quesada¹; ¹ North Carolina State University, Raleigh, NC, ²Department of Plant Biology, Michigan State University, East Lansing, MI, ³Genomics Sciences Laboratory, North Carolina State University, Raleigh, NC, ⁴Department of Horticulture, North Carolina State University, Raleigh, NC, ⁵Department of Crop & Soil Science, Athens, NC, ⁶Department of Crop & Soil Science, Athens, GA, ⁷Department of Biological Sciences, Raleigh, NC, ⁸Genomics Sciences Laboratory, North Carolina State University, Raleigh, NC.

Graduate Student Technical Session (cont'd)

4:24 - 4:36 PM Fungicides sensitivity of *Athelia rolfsii* causing southern blight of peanuts in Mississippi. **Subina Tripathi**¹, Alejandra Maria Jimenez Madrid¹, Tom Allen¹, Tessie H. Wilkerson¹, R. Alan Henn², and Adam Connor³; ¹Mississippi State University, Stoneville, MS, ²Mississippi State University Extension, Mississippi State, MS, ³Mississippi State University, Leland, MS.

4:36 - 4:48 PM Smoke 'em out: a survey of plant-parasitic nematode genera in North Carolina tobacco production. **Hannah Celine Bonyak**, Matthew Vann, and Adrienne M. Gorny; North Carolina State University, Raleigh, NC.

4:48 - 5:00 PM Characterization of *Phytophthora* species affecting floriculture crops in North Carolina. **Inga Meadows**¹, Ella Reeves², Cecelia Stokes¹, and Jean B. Ristaino²; ¹North Carolina State University, Waynesville, NC, ²North Carolina State University, Raleigh, NC.

5:00 - 5:12 PM Quantitative evaluation of fungicide efficacy and soybean cultivar susceptibility for control of southern blight of soybean. **Adam Connor**¹, Tom Allen², Alejandra Maria Jimenez Madrid², Nina Aboughanem-Sabanadzovic³, Trent Irby³, and Tessie H. Wilkerson²; ¹Mississippi State University, Leland, MS, ²Mississippi State University, Stoneville, MS, ³Mississippi State University, Mississippi State, MS.

5:12 - 5:24 PM Effects of root and slip fungicide applications on sweetpotato southern blight and pesticide residue levels postharvest. **Jack Mecklin Mascarenhas**¹, Lina M. Quesada-Ocampo², and Hunter Collins¹; ¹North Carolina State University, Raleigh, NC, ²North Carolina State University, Department of Entomology and Plant Pathology and North Carolina Plant Sciences Initiative, Raleigh, NC.

5:24 - 5:36 PM Plant water availability drives the endophytic or pathogenic fungal association of *Lasiodiplodia theobromae* with dieback symptoms of cacao. **Johnny Frias Balidion**^{1,2} and Marc A. Cubeta¹; ¹Department of Entomology and Plant Pathology, North Carolina State University, Raleigh, NC; ²IWEP-CAFS, University of the Philippines Los Baños, Los Baños, Philippines.

5:36 - 5:45 PM BREAK: Networking

See you next year in South Carolina!

- 5:45 – 6:45 PM **Graduate Student/Post-doc Business Meeting & Networking Event**
 Leaders: **Shelly Pate** and **Milan Panth**, SD-APS Graduate Student
 Representatives
Light snacks provided for pre-registrants.
Location: Junior Ballroom C.
- 7:00 - 9:00 PM **Welcome Reception and Poster Viewing**
Hors d'oeuvres provided for meeting attendees.
Location: Junior Ballroom C.

Wednesday, February 15, 2023

- 7:30 - 8:30 AM Breakfast
Location: Junior Ballroom Pre-Function Area
- 8:00 - 9:05 AM **Symposium: 100 Years of Plant Pathology in the Southern U.S.**
Moderator: Lindsey Thiessen, SD-APS President
- 8:05 AM Celebrating 100 years: the people and events that have built the APS Southern
 Division. **Bob Kemerait**; University of Georgia, Tifton, GA.
- 8:25 AM Bacterial spot of pepper, unsung disease for its contributions to plant pathology
 – a perspective. **Dave Ritchie**; North Carolina State University, Raleigh, NC.
- 8:45 AM Rose rosette disease: a historical perspective of the understanding of this
 disease in North America. **Kevin Ong**; Texas A&M University, College
 Station, TX.
- 9:05 - 9:10 AM BREAK
- 9:10 - 10:20 AM **Symposium: Industry Sponsors**
Moderator: Lindsey Thiessen, SD-APS President
- Vijay Choppakatla**, *Director of Research and Development, Biosafe
 Systems, LLC, East Harford, CT*
Traven Bentley, *Pathologist, Sakata Seed America, Inc., Fort Myers, FL,*
Kenny Seebold, *Product Development Management – Seed Treatments,
 Valent U.S.A., LLC, Lexington, KY*
Marty Wiglesworth, *Agronomy Services Manager, South & East Coast
 Commercial Unit, Syngenta Crop Protection, Greensboro, NC*
Ben McInnes, *Product Development Representative, Nichino America, Inc.,
 Raleigh, NC,* and **Scott Croxton**, *Product Development Representative,
 Nichino America, Inc., LaBelle, FL*

10:20 - 10:30 AM BREAK: Networking

Oral Technical Session I, Moderator: Ziaur Pintu, Graduate Student

10:30 - 10:45 AM How does soil salinity impact on vegetable diseases? **Yi Huang**¹, Qingchun Liu², and Shouan Zhang²; ¹University of Florida, Cutler Bay, FL, ²University of Florida, Tropical Research and Education Center, Homestead, FL.

10:45 - 11:00 AM Comparative transcriptomics reveals gene expression pattern differences in near isogenic tomato lines differing in Verticillium wilt resistance. **Yeon Yee Oh**¹, Ralph A. Dean¹, Frank J. Louws¹, Tika Adhikari¹, Thomas W. Ingram¹, and Reza Shekaste Band²; ¹North Carolina State University, Raleigh, NC, ²North Carolina State University, Mills River, NC.

11:00 - 11:15 AM Detection of early infection of *Fusarium graminearum* on field hemp. **Misbakhul Munir**, Henry Smith, and Nicole A. Gauthier; University of Kentucky, Lexington, KY.

11:15 - 11:30 AM Management solutions and microbiome dynamics in North Carolina strawberry systems. **Tika Adhikari**, Andres D. Sanabria, and Frank J. Louws; North Carolina State University, Raleigh, NC.

11:30 AM - 1:30 PM **Lunch and Business Meeting**
Leaders: SD-APS Executive Committee
All SD-APS members are encouraged to attend and participate.
Location: Junior Ballroom C
Lunch provided for all meeting registrants.

1:30 - 2:00 PM BREAK: Networking

2023 SD-APS Meeting Planning Committee

Lindsey Thiessen, SD-APS President
Dan Anco, SD-APS President-Elect
Gary Vallad, SD-APS Vice President
Rebecca A. Melanson, SD-APS Secretary-Treasurer and EVCWG Co-Chair
Shelly Pate, SD-APS Graduate Student Representative
Milan Panth, SD-APS Graduate Student Representative
Fulya Baysal-Gurel, SD-APS Immediate Past President
Terry Spurlock, SD-APS Divisional Forum Representative
Carrie Harmon, Co-Director, SPDN
Matt Bertone, Local Arrangements
Lina Quesada-Ocampo, Local Arrangements
Andres Sanabria-Velazquez, Local Arrangements

Oral Technical Session II, Moderators: Shelly Pate and Milan Panth, SD-APS Graduate Students

- 2:00 - 2:15 PM Soil fungal community and response of fungal isolates to copper oxide and zinc oxide nanoparticles. Jonathan Jaime Guerrero¹, **Teresita Dalisay**², Nolissa Organo³, Pattavipha Songkumarn⁴, and Ireneo Pangga²; ¹University of the Philippines College of Medicine, Manila, Philippines; ²University of the Philippines, Los Baños, Laguna, Philippines, ³Institute of Crop Science, University of the Philippines, Los Baños, Laguna, Philippines; ⁴Kasetsart University, Bangkok, Thailand.
- 2:15 - 2:30 PM Factors associated with spring dead spot epidemics on bermudagrass. Mr. **Wendell Joseph Hutchens**¹, Caleb Henderson¹, Chase Straw², Mike Goatley¹, James Patrick Kerns³, Mizuho Nita⁴, Dana Sullivan⁵, and David S. McCall¹; ¹Virginia Tech, Blacksburg, VA, ²Texas A&M, TX, ³North Carolina State University, Raleigh, NC, ⁴Virginia Tech, Winchester, VA, ⁵TurfScout, Greensboro, NC.
- 2:30 - 2:45 PM Industrial hemp (*Cannabis sativa* L.) in Kentucky: generating data to improve grain production. **Maria Magdalena Ricciardi**, Henry Smith, Desiree Szarka, Misbakhul Munir, Edward W. Dixon, Nicole A. Gauthier, and Robert Pearce; University of Kentucky, Lexington, KY.
- 2:45 - 3:00 PM Recent outbreaks of cucurbit anthracnose and fungicide sensitivity to QoI fungicide in Georgia. **Navjot Kaur** and Bhabesh Dutta; University of Georgia, Tifton, GA.
- 3:00 - 3:15 PM Addressing emerging viruses in cucurbits through a working group and stakeholder education. **Rebecca A. Melanson**¹ and William M. Wintermantel²; ¹Mississippi State University, Central Mississippi Research and Extension Center, Raymond, MS, ²USDA-ARS, Salinas, CA.
- 3:15 - 3:30 PM Competitiveness of whitefly-transmitted yellowing viruses can influence virus dominance in cucurbits. **William M. Wintermantel** and Shaonpius Mondal; USDA-ARS, Salinas, CA.
- 3:30 - 3:45 PM BREAK: Networking
- 3:45 - 4:00 PM Characterizing genetic mechanisms underlying susceptibility to bacteriophages in *Xanthomonas arboricola* pv. *pruni* strains from South America. **Katherine D'Amico-Willman**¹, Amber M. Smith², David F. Ritchie¹, and Alejandra I. Huerta¹; ¹North Carolina State University, Raleigh, NC, ²AgBiome, Research Triangle Park, NC.

Oral Technical Session (Session II, cont'd)

- 4:00 - 4:15 PM Field detection of rose rosette virus using recombinase polymerase amplification in a lateral flow test. **Amirudeen Abdul Kader Jailani** and Mathews L. Paret; University of Florida, Quincy, FL.
- 4:15 - 4:30 PM Quantifying peanut disease defoliation with an unmanned airborne system multispectral model. **Rebecca Barocco**¹, James Clohessy², G. Kelly O'Brien², Nicholas S. Dufault³, David Wright⁴, and Ian M. Small²; ¹North Florida Research & Education Center, University of Florida, Quincy, FL, ²North Florida Research & Education Center, University of Florida, Plant Pathology, Quincy, FL, ³University of Florida, Plant Pathology, Gainesville, FL, ⁴North Florida Research & Education Center, University of Florida, Agronomy, Quincy, FL.
- 4:30 - 4:45 PM Identification of Xoo TALEs using in-house Nanopore long-read sequencing. **Peiqi Zhang**, Jose C. Huguet-Tapia, and Frank F. White; University of Florida, Gainesville, FL.
- 4:45 - 5:00 PM Bacterial leaf spot-like symptoms caused by *Xanthomonas* spp. on sesame in North Carolina. **Kimberly Montalban**, Katherine D'Amico-Willman, David F. Ritchie, and Alejandra I. Huerta; North Carolina State University, Raleigh, NC.
- 5:00 - 5:15 PM Characterization of nine *Pseudomonas* species associated with foliar disease of cucurbits. **Kiersten R. Bushong**¹, Michelle Pena², Jeffrey B. Jones¹, Mathews L. Paret³, Neha Potnis², Erica M. Goss^{1,4}, Fanny B. Iriarte³, and Aleksa Obradovic⁵; ¹University of Florida, Gainesville, FL, ²Auburn University, Auburn, AL, ³University of Florida, Quincy, FL, ⁴Department of Plant Pathology, University of Florida, Gainesville, FL, ⁵Univeristy of Belgrade, Faculty of Agriculture, Belgrade-Zemun, Republic of Serbia.
- 5:15 - 6:00 PM BREAK: Networking
- 6:00 - 9:00 PM **Awards Banquet**
Dinner provided with meeting registration or guest ticket.
Location: Junior Ballroom C.

Thursday, February 16, 2023

8:00 AM - 5:00 PM

Research Triangle Park Excursion

Transportation by shuttle will be provided by the North Carolina State University motor pool. Tour participants must meet in front of the Durham Convention Center by 7:45 AM. The tour will depart the Durham Convention Center at 8:00 AM and will return to the Durham Convention Center by 5:00 PM. Tour participants will travel to all tour stops; alternate arrangements to join or exist the tour late or early will not be made. Breakfast and lunch will be provided for tour participants. Pre-registration required.

10:00 AM - 3:00 PM

Emerging Viruses in Cucurbits Working Group Meeting

Leaders: **Rebecca A. Melanson**, EVCWG Co-Chair, and **Bill Wintermantel**, EVCWG Co-Chair

This meeting is open to EVCWG members only. Lunch will be provided for pre-registrants.

Location: Boardroom I.

NOTES

Contributed Papers (Posters)

Posters will be displayed in TBD.

*Indicates student poster competition paper

- 1.* Elucidating the function of proteins encoded by cotton leafroll dwarf virus isolated in Alabama. **Mary Funmilayo Akinyuwa**, Karamjit Kaur Baryah, and Sung Hwan Kang; Auburn University, Auburn, AL.
- 2.* Evaluation of fungicides for the management of powdery mildew in *Hydrangea macrophylla* under greenhouse and shadehouse conditions. **Christina Jennings**, Prabha Liyanapathiranga, Terri Simmons, and Fulya Baysal-Gurel; Tennessee State University, McMinnville, TN.
- 3.* Evolution of historic effectors of *Phytophthora infestans* and host R genes from 1845 to 1954. **Allison Coomber**, Amanda C. Saville, and Jean B. Ristaino; North Carolina State University, Raleigh, NC.
- 4.* Anthracnose caused by *Colletotrichum theobromicola* on *Cyclamen persicum* in South Carolina, USA. **Jordan Marshall**¹, Kimberly Whitlock², Glenn C. Colburn³, and Dr. Xiao Yang⁴; ¹Clemson University, Seneca, SC, ²Clemson University, Clemson, SC, ³Clemson University, Pendleton, SC, ⁴Clemson University - Plant & Pest Diagnostic Clinic, Pendleton, SC.
- 5.* Microbiome dynamics of *Ralstonia solanacearum* infested tomato fields across North Carolina microclimates. **Roshni Panwala**¹, Anisa Guedira², and Dr. Alejandra I. Huerta²; ¹University of Florida, Gainesville, FL, ²North Carolina State University, Raleigh, NC.
- 6.* Characterization of a *Peregrinus maidis* host protein which interacts with a viral glycoprotein. **Hao Wei Teh**¹, Marcé Lorenzen¹, Cesar Augusto Diniz Xavier², Dorith Rotenberg², and Anna E. Whitfield²; ¹North Carolina State University, Raleigh, NC, ²North Carolina State University, Department of Entomology and Plant Pathology, Raleigh, NC.
- 7.* Monitoring emerging *Phytophthora ramorum* and *P. kernoviae* in Rhododendron. **Amanda Mainello**, Amanda C. Saville, Jyotsna NA Acharya, Rajesh Paul, Qingshan Wei, and Jean B. Ristaino; North Carolina State University, Raleigh, NC.
- 8.* Comparison of microbial DNA extraction techniques of *Rhizoctonia* spp. for qPCR confirmation from symptomatic plant tissues. **Pratima Subedi**, Madhav Parajuli, Farhat Avin, and Fulya Baysal-Gurel; Tennessee State University, McMinnville, TN.
- 9.* Effects of plant growth-promoting rhizobacteria and nitrogen fertilizer on forage biomass and quality and soil health in bermudagrass hay fields. **Kayla Sullins**¹, Amanda Strayer-Scherer¹, and David Held²; ¹Auburn University, Auburn, AL, ²Entomology and Plant Pathology, Auburn University, Auburn, AL.

Contributed Papers (Posters) (cont'd)

Posters will be displayed in TBD.

*Indicates student poster competition paper

- 10.* Dispersal of *Ramularia areola* in Tennessee. Heather M. Kelly¹, **Elias Zuchelli**¹, and Allyson Sisco²; ¹University of Tennessee, Jackson, TN, ²University of Tennessee, Martin, TN.
- 11.* Investigating the growers' perceptions on boxwood blight disease management in the U.S. nursery industry. **Bhawana Ghimire**¹, Kumuditha Hikkaduwa Epa Liyanage¹, Charles Hall², and Fulya Baysal-Gurel¹; ¹Tennessee State University, McMinnville, TN, ²Texas A&M University, College Station, TX.
12. Evaluation of cultural and chemical methods to manage tobacco diseases. **Ashton Kate Turner**, Mitchell Richmond, and Zachariah R. Hansen; University of Tennessee, Knoxville, TN.
13. Characterization of unusual xanthomonad strains isolated from tomato seedlots. **Mousami Poudel**; University of Florida, Gainesville, FL.
14. Competition between strains of the bacterial plant pathogen *Xylella fastidiosa*. **Noel Armando Claudio-Soto** and Leonardo De La Fuente; Auburn University, Auburn, AL.
15. Secretion of effectors by a signal peptidase mutant of the maize anthracnose pathogen *Colletotrichum graminicola*. Renata Belisário, **Jamari Taylor**, and Lisa J. Vaillancourt; University of Kentucky, Lexington, KY.
16. Detection of latent infection of *Fusarium sporothrichioides* on field hemp across planting date and plant age. **Asha Nabi**, Henry Smith, Nicole A. Gauthier, and Misbakhul Munir; University of Kentucky, Lexington, KY.
17. *Phytophthora nicotianae* shows host specificity for tobacco and tomato in Tennessee. Taylor Miller, Alyssa Counce, and **Zachariah R. Hansen**; University of Tennessee, Knoxville, TN.
18. Evaluation of fungicides for management of post-harvest *Rhizopus* soft rot and black rot of sweetpotato in domestic and export markets. **Hunter Collins**¹ and Lina M. Quesada-Ocampo²; ¹North Carolina State University, Raleigh, NC ²North Carolina State University, Department of Entomology and Plant Pathology and North Carolina Plant Sciences Initiative, Raleigh, NC.

Contributed Papers (Posters) (cont'd)

Posters will be displayed in TBD.

*Indicates student poster competition paper

19. Insights into the diversity of the fungal community associated with American ginseng (*Panax quinquefolius* L.). **Cansu Oksel**¹, Prabha Liyanapathirana¹, Farhat Avin¹, Ethan Swiggart², Ying Gao³, and Fulya Baysal-Gurel¹; ¹Tennessee State University, McMinnville, TN, ²Middle Tennessee State University, Murfreesboro, TN, ³Middle Tennessee State University, International Ginseng Institute, Murfreesboro, TN.
20. Comparative evaluation of treatments for the management of Hydrangea rust. **Prabha Liyanapathirana**, Cansu Oksel, Christina Jennings, Terri Simmons, and Fulya Baysal-Gurel; Tennessee State University, McMinnville, TN.
21. Anaerobic soil disinfestation using locally available carbon sources reduces *Verticillium dahliae* microsclerotia viability in NC tomato fields. **Andres D. Sanabria**, Thomas W. Ingram, Tika Adhikari, and Frank J. Louws, North Carolina State University, Raleigh, NC.
22. Breeding for resistance to *Tomato spotted wilt virus* in *Arachis hypogaea*. **Sydney Webb**¹, Ye Chu¹, Josh Clevenger², Walid Korani², Corley Holbrook³, Baozhu Guo⁴, Albert K. Culbreath¹, and Peggy Ozias-Akins¹; ¹University of Georgia, Tifton, GA, ²HudsonAlpha Institute for Biotechnology, Huntsville, AL, ³USDA-ARS, Tifton, GA, ⁴USDA-ARS CPMRU, Tifton, GA.
23. Characterization of the *Alternaria* Species Causing Early Blight of Tomato in Kentucky. **Megan Johnston**, Margaret Gillum, Caleb Gooden, Simon Aaronson, Cassidy Bauer, Henry S. Smith, Robert Louis Hirsch, and Nicole A. Gauthier; University of Kentucky, Lexington, KY.
24. Fusarium yellows: a new race threatening celery production in South Florida. Vitor Moura, Larissa Carvalho Ferreira, Anna Meszaros, and **Katia Xavier**; University of Florida, Belle Glade, FL.
25. Development of a LAMP/Cas12a assay to specifically detect the California strain of resistance breaking (RB) *Tomato spotted wilt virus* (TSWV) in tomato. **Tatsiana Shymanovich**, Amanda C. Saville, Noor Mohammad, Qingshan Wei, Dorith Rotenberg, Anna E. Whitfield, and Jean B. Ristaino; North Carolina State University, Raleigh.

Contributed Papers (Posters) (cont'd)

Posters will be displayed in Junior Ballroom C.

*Indicates student poster competition paper

26. Monitoring cotton for the presence of important, potentially yield-limiting plant pathogens through the National Predictive Modeling Tool Initiative. Akhtar Ali¹, Tom Allen², Kaitlyn Bissonnette³, Robert Kemerait⁴, Kathy S. Lawrence⁵, Cecilia Monclova-Santana⁶, John D. Mueller⁷, Paul Price⁸, Ian M. Small⁹, **Terry N. Spurlock**¹⁰, and Heather M. Kelly¹¹; ¹University of Tulsa, Tulsa, OK, ²Mississippi State University, Stoneville, MS, ³Cotton Incorporated, Cary, NC, ⁴Department of Plant Pathology, University of Georgia, Tifton, GA, ⁵Entomology and Plant Pathology, Auburn University, Auburn, AL, ⁶Texas A&M AgriLife Extension and Research Service, Lubbock, TX, ⁷Edisto Research & Education Center, Blackville, SC, ⁸Macon Ridge Research Station, LSU AgCenter, Winnsboro, LA, ⁹University of Florida, Quincy, FL, ¹⁰University of Arkansas System Division of Agriculture, Lonoke, AR, ¹¹University of Tennessee, Jackson, TN.
27. Determining the regional distribution and relationship between target spot and *Corynespora cassiicola* inoculum through spore trapping. **Terry N. Spurlock**¹, Tom Allen², Heather M. Kelly³, Ian M. Small⁴, Kaitlyn Bissonnette⁵, Paul Price⁶, Robert Kemerait⁷, John D. Mueller⁸, Akhtar Ali⁹, Cecilia Monclova Santana¹⁰, and Kathy S. Lawrence¹¹; ¹University of Arkansas System Division of Agriculture, Lonoke, AR, ²Delta Research and Extension Center, Mississippi State University, Stoneville, MS, ³University of Tennessee, Jackson, TN, ⁴University of Florida, Quincy, FL, ⁵Cotton Incorporated, Cary, NC, ⁶Macon Ridge Research Station, LSU AgCenter, Winnsboro, LA, ⁷Department of Plant Pathology, University of Georgia, Tifton, GA, ⁸Edisto Res & Ed Ctr, Blackville, SC, ⁹Univ of Tulsa, Tulsa, OK, ¹⁰Texas A&M AgriLife Extension and Research Service, Lubbock, TX, ¹¹Entomology and Plant Pathology, Auburn University, Auburn, AL.
28. Bacteriophages that lyse xanthomonads from diseased crape myrtle and nandina. **Izabela Duin**, Prasanna Joglekar, David F. Ritchie, and Jennie Fagen; North Carolina State University, Raleigh, NC.

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