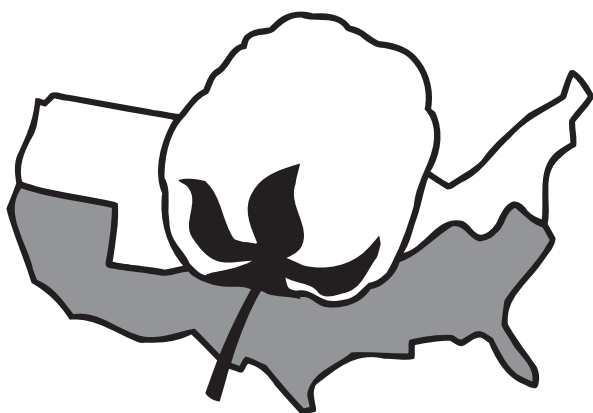


Beltwide Cotton Conferences



January 8-10, 2019
New Orleans Marriott Hotel
New Orleans, Louisiana

**National
Cotton
Council** 
OF AMERICA

Schedule of Events

<i>Tuesday, January 8</i>		
7:30a- 1:00p	Extension Cotton Specialist Meeting (By Invitation Only)	St. Charles (41 st Floor)
8:00a-11:00a	CottonGen Breeding Tools Training Workshop (By Invitation Only)	Balcony I
9:00a- 7:00p	Conference Registration (Sponsored by Bayer)	Preservation Hall Foyer
9:00a- 7:00p	Newsroom	Iberville
9:00a- 7:00p	Confex Presentation Uploading Room for Speakers	Studio 10
9:00a- 10:00p	Speaker Practice Room	Rhythm
9:00a- 10:00p	Internet Café (Sponsored by Farm Credit)	Preservation Hall Foyer
9:00a- 10:00p	Wireless Hotspot	Preservation Hall Foyer
11:00a-12:00p	Consultants Conference Luncheon (Sponsored by Bayer, Corteva, FMC, Syngenta)	Studio 3-4
12:00p- 5:30p	Consultants Conference General Session	Salon D
12:30p- 5:00p	Joint Symposium: Improvement/ Agronomy/Disease Conferences	Balconies I-J-K
1:30p- 3:00p	NCGA Safety and Labor Committee	Studio 8-9
3:00p- 3:30p	Coffee Break (Sponsored by Bayer)	Salon D Foyer
3:15p- 4:45p	NCGA Technology Com. – Air Quality Subcommittee	Studio 8-9
5:00p- 5:45p	National Cotton Variety Testing Com- mittee Meeting (By Invitation Only)	Salons AB
5:45p- 6:15p	Cotton Germplasm Committee (By Invitation Only)	Salons AB
6:00p- 7:00p	Welcome Reception for all attendees	Acadia
6:15p- 6:45p	Regional Breeders Test Meeting (By Invitation Only)	Salons AB

The contents of this booklet are current as of December 14, 2018. Changes to the Schedule of Events, BWCC Technical Conferences sessions or other BWCC activities that occurred after the booklet was printed can be found on the BWCC website, <http://www.cotton.org/belt-wide/index.cfm>, or by using one of the BWCC scheduling tools referenced on page five of this booklet.

Schedule of Events

<i>Wednesday, January 9</i>		
7:00a- 10:00p	Internet Café (Sponsored by Farm Credit)	Preservation Hall Foyer
7:00a- 10:00p	Wireless Hotspot	Preservation Hall Foyer
7:00a- 10:00p	Speaker Practice Room	Rhythm
7:30a- 8:00a	Coffee Break (Sponsored by Bayer)	2 nd Floor Foyer
7:30a- 5:00p	Conference Registration (Sponsored by Bayer)	Preservation Hall Foyer
7:30a- 5:00p	Newsroom	Iberville
7:30a- 5:00p	Confex Presentation Uploading Room for Speakers	Studio 10
8:00a- 11:00a	NCGA Technology Committee	Studio 9
8:00a- 12:00p	Cotton Engineering-Systems Conference - Cotton Sustainability Session	Studios 4-5
8:00a- 5:00p	Cotton Improvement Conference	Galerie 2
8:00a- 5:00p	Cotton Disease Council	Galerie 1
8:00a- 10:00p	Technical Conferences Poster Board Session	Salons E-H
8:15a- 4:45p	Cotton Agronomy, Physiology & Soils Conference 5:00-7:00p – Business Meeting	Galerie 5
8:25a- 2:30p	Cotton Weed Science Research Conference	Salons A-C
8:45a- 3:15p	Cotton Agronomy, Physiology & Soils Conference – MS Student Competition	Galerie 6
10:00a-10:30a	Coffee Break (Sponsored by Bayer)	2 nd & 3 rd Floor Foyers
10:30a-12:00p	Cotton Economic Outlook Symposium	Salon D
10:30a- 3:00p	Cotton Utilization Conference	Galerie 4
11:00a-12:00p	Cotton Insect Research & Control Roundtable	Galerie 3
1:00p- 5:00p	Cotton Engineering-Systems Conference	Studios 4-5
1:30p- 5:30p	Cotton Ginning Conference	Studio 2-3
1:30p- 5:30p	Cotton Insect Research & Control Conference – MS Student Paper Competition	Studios 7-8
1:30p- 5:00p	Cotton Economics and Marketing Conference	Salon D
1:30p- 5:30p	Cotton Insect Research & Control Conference – PhD Student Paper Competition	Galerie 3
3:15p- 4:00p	Coffee Break in Poster Board Session room (authors present)	Salons E-H
3:30p- 5:45p	Cotton Quality Measurements Conference	Galerie 4

Schedule of Events

<i>Wednesday, January 9 (cont.)</i>		
5:00p- 7:00p	Cotton Disease Council Business Meeting	Galerie 1
5:00p- 7:00p	Cotton Agronomy & Physiology Business Meeting	Galerie 5
5:45p- 7:00p	Cotton Insect Research & Control Business Meeting and Mixer (Sponsored by Bayer)	Galerie 3
6:00p- 7:00p	Cotton Industry Support Group Meeting	Studio 2-3
6:00p- 7:00p	Journal of Cotton Science Editorial Board	Lafayette (41 st Floor)
7:30p- 9:00p	Joint Cotton Breeding Committee	Napoleon (41 st Floor)
<i>Thursday, January 10</i>		
7:00a- 1:00p	Speaker Practice Room	Rhythm
7:00a- 1:00p	Internet Café (Sponsored by Farm Credit)	Preservation Hall Foyer
7:00a- 1:00p	Wireless Hotspot	Preservation Hall Foyer
7:30a- 8:00a	Coffee Break (Sponsored by Bayer)	2 nd & 3 rd Floor Foyers
7:30a- 12:00p	Confex Presentation Uploading Room (CLOSED ; speakers to go to meeting room to upload)	Studio 10
7:30a- 1:00p	Conference Registration (Sponsored by Bayer)	Preservation Hall Foyer
7:30a- 1:00p	Newsroom	Iberville
8:00a-10:30a	Cotton Economics and Marketing Conference	Salon D
8:00a-10:30a	Cotton Insect Research & Control Conf. – Session A	Galerie 3
8:00a-10:30a	Cotton Insect Research & Control Conf. – Session B	Studios 7-8
8:00a-11:30a	Cotton Improvement Conference 11:30a-12:30p – Business Meeting	Galerie 2
8:00a-12:00p	Technical Conferences Poster Board Session	Salons E-H
8:00a-12:00p	Cotton Disease Council	Galerie 1
8:15a-10:30a	Cotton Ginning Conference	Studio 2-3
9:00a-10:00a	Cotton Engineering Systems Conference	Studios 4-5
9:00a-10:30a	Cotton Agronomy, Physiology & Soils Conference—Awards Session	Galerie 5
9:30a-10:00a	Cotton Weed Science Research — Graduate Student Awards	Salons A-C
10:00a-10:30a	Coffee Break	2 nd & 3 rd Floor Foyers
12:00p- 5:00p	Precision Cotton Researchers Working Group (By Invitation Only)	Balcony J

Mobile Access/ Online Scheduler



To help with event planning/scheduling, BWCC attendees may use the Online Scheduler which contains the 2019 BWCC QR Code above. This QR Code can be scanned with a cell phone app so the online scheduler page can be accessed via the cell phone's browser. This Online Scheduler, also available from the BWCC website's home page, **www.cotton.org/beltwide**, requires no log-in. The Scheduler can be used to view session details and to search for topics or presenters in your field of interest.* Attendees who desire to save a schedule to their own computer/PDA or to print a hard copy should use the BWCC's Personal Scheduler.

Personal Scheduler

BWCC attendees may use the Personal Scheduler to plan their daily activities. Also available from the BWCC website (see URL above), the scheduler contains links that allow program browsing, searching for specific presenters/events of interest, and viewing abstracts/sessions/etc. The Beltwide's Personal Scheduler also can be used to track events/sessions the user may choose not to attend and/or to track unofficial meetings/engagements during the Conferences. Once an attendee builds a personal schedule, it may be saved to their own computer/PDA or print a hard copy.

**Information about the 2019 BWCC Proceedings and recorded presentations is available in the back of this booklet.*

Internet Café and Wi-Fi

Wi-Fi Address: 2019beltwide

CEU Information

BWCC attendees are encouraged to seek CEU credits from the appropriate agency based on an individual's level of participation in BWCC programs.

The CEU application process is now tailored to the CEU requirements of each certifying entity (state regulatory authority or association certifier). Until recently, the application process across entities was relatively uniform. However, application processes have diverged to the extent that it is no longer feasible for BWCC staff to provide blanket CEU application services. BWCC staff will submit the final BWCC program to those states and agencies listed below that may accept the BWCC Technical Conferences program for CEU evaluation. It is up to individuals to submit their application to their desired accreditation authority.

Accrediting Group or State
<p>Certified Crop Adviser (CCA) Program American Society of Agronomy (Soil Science Society of America), 5585 Guilford Road, Madison, WI 53711-5801 (National) Certification Representative--Certification Programs; Phone: 608-268-4953; Fax: 608-273-2081; Toll Free Number: 866-359-9161; Email: ledwardson@sciencesocieties.org</p>
<p>Alabama Department of Agriculture & Industries, Pesticide Management ~ Certification Unit; 1445 Federal Drive, Montgomery, AL 36107; Phone: 334-240-7240; Fax: 334-240-7168; Email: Barbara.gates@agi.alabama.gov</p>
<p>Arizona Department of Agriculture, Office of Pest Management; 1688 West Adams, Phoenix, AZ 85007; Phone: 602-255-3662; Email: rwalker@azda.gov</p>
<p>Arkansas Charles E. Denver, Denver Crop Consultants; P.O. Box 304, Watson, AR 71674; Phone: 870-866-2335; Fax: 870-644-3254; Email: cdagri@hotmail.com</p>
<p>California Department of Pesticide Regulation; P. O. Box 1379, Sacramento, CA 95812; Phone: 916-445-3914; Fax: 916-928-0705; Email: info4ce@cecpm.com</p>
<p>Georgia Department of Agriculture; 19 Martin Luther King, Jr. Dr., Room 410, Atlanta, GA 30334; Phone: 404-656-4960; Fax: 404-657-8378; Email: Adrean.Rhodes@agr.georgia.gov</p>
<p>Louisiana Department of Agriculture & Forestry, Office of Agricultural & Environmental Sciences; 5825 Florida Blvd. Ste. 3003, Baton Rouge, LA 70806-4259; Phone: 225-925-3763; Fax: 225-237-5725; Email: kevin_w@ldaf.state.la.us; Web: www.ldaf.state.la.us</p>
<p>Mississippi Department of Agriculture & Commerce, Bureau of Plant Industry, Pest Control Section; P.O. Box 5207, Mississippi State, MS 39762; Phone: 662-325-0522 or 662-325-7766; FAX: 662-325-0397; Email: russellk@mdac.ms.gov (or) AnnaA@mdac.ms.gov</p>
<p>New Mexico Department of Agriculture, Cert. & Training Specialist; 190 S. Espina, MSC 3AQ, Box 30005, Las Cruces, NM 88003-8005; Phone: 575-646-4837; FAX: 575-646-1540; Email: lthomen@nmda.nmsu.edu</p>
<p>North Carolina Pesticide Section, NCDA & CS; 1090 Mail Service Center, Raleigh, NC 27699-1090; Phone: 919-857-4133; FAX: 919-733-9796; Email: John.Feagans@ncagr.gov</p>

Oklahoma Pesticide Certification & Training Administrator, Agriculture, Food and Forestry, Consumer Protection Services;
2800 N. Lincoln Blvd., Oklahoma City, OK 73105;
Phone: 405-522-5993; Fax: 405-522-5986;
Email: ryan.williams@ag.ok.gov

South Carolina Special Programs Manager/Recertification Manager
Department of Pesticide Regulation
Division of Regulatory & Public Service Programs
511 Westinghouse Road, Pendleton, SC 29670;
Phone: 864-646-2150; Fax: 864-646-2179;
Email: thghslr@clemson.edu

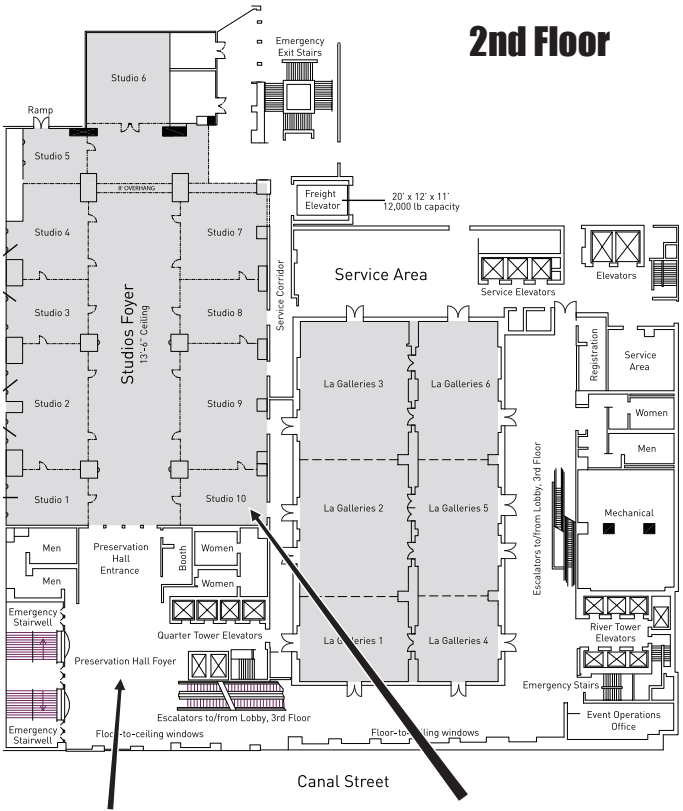
Tennessee Department of Agriculture, Ellington Ag. Center, Regulatory Services;
440 Hogan Road, Melrose Station, Nashville, TN 37204;
Phone: 615-837-5310; Fax: 615-837-5012;
Email: mary.borthick@tn.gov

Texas Department of Agriculture, Coordinator for Pesticide Certification and Compliance;
P.O. Box 12847, Austin, TX 78711;
Phone: 512-463-7692 or 800-835-5832; Fax: 888-216-9865;
(CEU inquiries) Email: recertcourses@texasagriculture.gov;
Phone: 512-463-8713

Marriott Hotel

Meeting Room Floor Plans

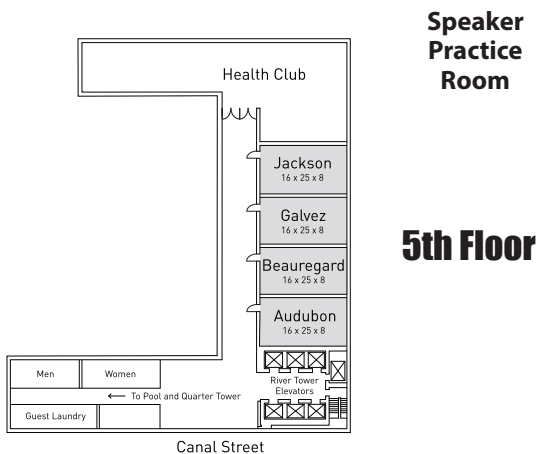
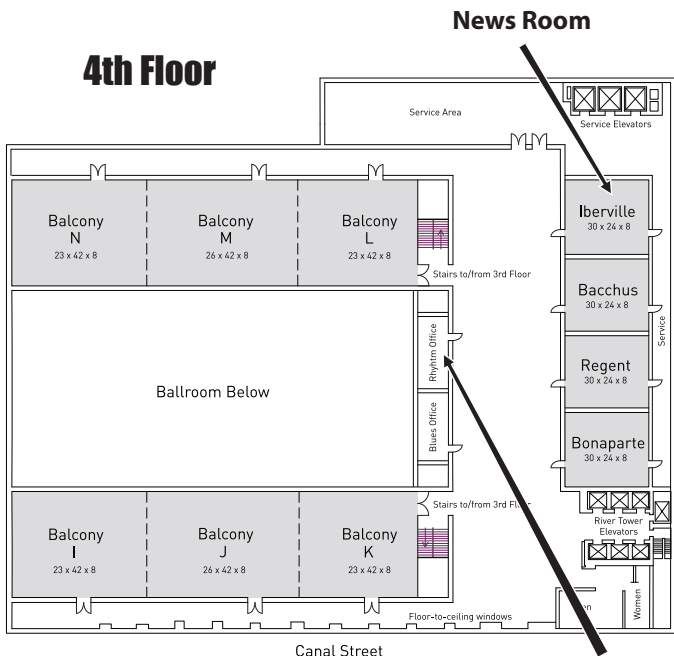
2nd Floor



- Beltwide Registration
- Wi-Fi
- Internet Café

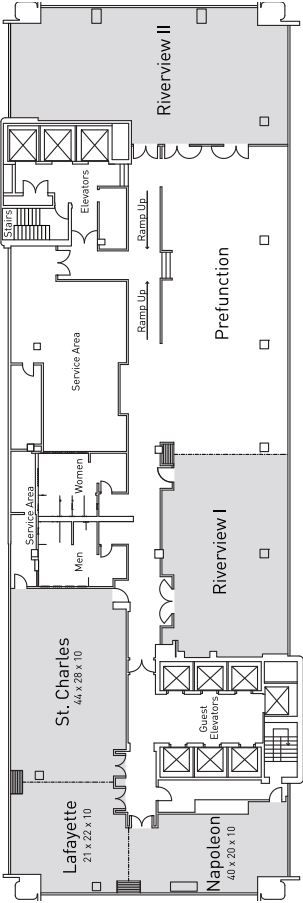
- Confex Speaker Presentation Uploading Room

Marriott Hotel ting Room Floor Plans



Marriott Hotel Meeting Room Floor Plans

41st Floor



Cotton Consultants Conference

Tuesday, January 8, 2019

CONSULTANTS CONFERENCE GENERAL SESSION

Mardi Gras Ballroom Salon D (New Orleans Marriott) - 12:00 PM-5:30 PM

12:00 PM Introduction and Acknowledgements

Hank Jones, RHJ Ag Services, LLC., Winnsboro, LA

12:05 PM Bayer

12:10 PM Phytogen

12:15 PM FMC

12:20 PM Syngenta

12:25 PM BASF

12:30 PM Bollworm Management Considerations and BT Resistance Update (A)

Rogers Leonard, Louisiana State University Ag Center, Baton Rouge, LA

12:45 PM Bollworm Management Considerations and BT Resistance Update (B)

David Kerns, Texas A&M University, College Station, TX

1:00 PM Bollworm Management Considerations and BT Resistance Update (C)

Jeff Gore, Mississippi State University, Stoneville, MS

1:15 PM Bollworm Management Considerations and BT Resistance Update (D)

Dominic Reisig, North Carolina State University, Plymouth, NC

1:30 PM FOV 4 in Texas

Thomas Isakeit, Texas A&M University, College Station, TX

2:00 PM Nematode Management in Cotton

Kathy S. Lawrence, Auburn University, Auburn, AL

2:30 PM Status of Boll Weevil Eradication in Texas: The U.S. Buffer

Larry Smith, Texas Boll Weevil Eradication Foundation, Abilene, TX

3:00 PM Break

3:30 PM Future of Auxin Crops: An EPA Perspective

Rick P. Keigwin, EPA, Washington, DC

4:00 PM Product Registration Update

Don Parker, National Cotton Council, Cordova, TN

4:30 PM Current State of IPM in Cotton

Gus Lorenz, The University of Arkansas, Lonoke, AR

5:00 PM Cover Crop Panel Discussions (A)

Don Cook, Mississippi State University, Stoneville, MS

5:10 PM Cover Crop Panel Discussions (B)

Bill Robertson, University of Arkansas, Newport, AR

5:20 PM Cover Crop Panel Discussions (C)

Larry Steckel, University of Tennessee, Jackson, TN

Cotton Agronomy, Physiology and Soil Conference

Wednesday, January 9, 2019

COTTON AGRONOMY, PHYSIOLOGY & SOIL - WEDNESDAY EARLY MORNING

Galerie 5 (New Orleans Marriott) - 8:15 AM-10:00 AM

8:15 AM Yield Component Contributions to Yield Loss and Fiber Quality Deterioration Under Drought Stress in Field-Grown Cotton

John L. Snider¹, Wei Hu¹, Haimiao Wang¹, Zhiguo Zhou², Daryl Chastain³, Jared R. Whitaker¹, Calvin Perry⁴ and Fred M. Bourland⁵, (1)University of Georgia, Tifton, GA, (2)Nanjing Agricultural University, Nanjing, China, (3) Mississippi State University Delta Research and Extension Center, Stoneville, MS, (4)University of Georgia, Camilla, GA, (5)University of Arkansas-NEREC, Keiser, AR

8:30 AM Comparison of Evapotranspiration Methods in the Cotton2K Model

Kelly R. Thorp¹, Gary W. Marek², Kendall C. DeJonge³, Steven R. Evett² and Robert J. Lascano⁴, (1)USDA-ARS, Maricopa, AZ, (2)USDA-ARS, Bushland, TX, (3)USDA-ARS, Fort Collins, CO, (4)USDA-ARS, Lubbock, TX

8:45 AM Identifying Contributing Factors of Evapotranspiration Drivers in US Mid-South Cotton Production

Michele L. Reba¹, Bryant N Fong¹, Tina Gray Teague², Benjamin R. K. Runkle³ and Kosana Suvočarev³, (1)USDA-ARS, Jonesboro, AR, (2)Ark State Univ / Univ Ark Exp Sta, State University, AR, (3)University of Arkansas, Fayetteville, AR

9:00 AM Comparison of Eddy Covariance Evapotranspiration Measurements to DSSAT and Remote Sensing Based Simulations in Dryland Cotton in East-Central Texas

Dorothy Menefee and Nithya Rajan, Texas A&M University, College Station, TX

9:15 AM Sub-Optimal Growth Temperature Alters Thermotolerance of Thylakoid Component Processes in Cotton Seedlings

John L. Snider¹, Wei Hu¹, Daryl Chastain², William Slaton³ and Viktor Tishchenko⁴, (1)University of Georgia, Tifton, GA, (2)Mississippi State University Delta Research and Extension Center, Stoneville, MS, (3)University of Central Arkansas, Conway, AR, (4)University of Georgia, Griffin, GA

9:30 AM Dynamics of CO₂ Exchange in US Mid-South Cotton Production

Benjamin R. K. Runkle¹, Michele L. Reba², Bryant N Fong², Tina Gray Teague³ and Kosana Suvočarev¹, (1)University of Arkansas, Fayetteville, AR, (2)USDA-ARS, Jonesboro, AR, (3)Ark State Univ / Univ Ark Exp Sta, State University, AR

9:45 AM Measuring Cotton Variability Using a Blob-Based Approach

Andrew Young, USDA-ARS, Lubbock, TX, Will Dodge, Texas Tech University, Lubbock, TX, Paxton Payton, United States Department of Agriculture, Lubbock, TX and James R. Mahan, USDA/ARS, Lubbock, TX

COTTON AGRONOMY, PHYSIOLOGY & SOIL - WEDNESDAY EARLY MORNING - M.S. STUDENT COMPETITION

Galerie 6 (New Orleans Marriott) - 8:45 AM-10:00 AM

8:45 AM Effects of Nitrogen and Potassium Rates and Timing on Cotton Yield and Fiber Quality

Blake L. Szilvay¹, Keith L. Edmisten¹, Guy D. Collins² and Randy Wells¹, (1) North Carolina State University, Raleigh, NC, (2)North Carolina State University, Rocky Mount, NC

9:00 AM Physiological Processes Contributing to Early Season Crop Vigor in Cotton

Gurpreet Virk, John L. Snider and Cristiane Pilon, University of Georgia, Tifton, GA

9:15 AM Effects of Legume and Small Grain Cover Crops with Precision Planted Tillage Radish on Nutrient Cycling and Cotton Performance in Southeastern Virginia

Sarah McClanahan, Hunter Frame, Mark Reiter, Charles Cahoon and Michael Flessner, Virginia Polytechnic Institute & State University, Blacksburg, VA

9:30 AM Stand Characterization of Rainfed Cotton Via Uav

Will Dodge, Texas Tech University, Lubbock, TX

9:45 AM Cotton Varietal Response to Potassium Application Rates Under Irrigated and Dryland Conditions

Savana Davis, Darrin M. Dodds, Lucas Xavier Franca, Bradley R. Wilson, Jacob P. McNeal, Bradley Norris and John J Williams, Mississippi State University, Mississippi State, MS

COTTON AGRONOMY, PHYSIOLOGY & SOIL - WEDNESDAY LATE MORNING

Galerie 5 (New Orleans Marriott) - 10:30 AM-11:45 AM

10:30 AM Evaluation of Irrigation and Fertilization Strategies to Improve Irrigation and Nitrogen Water Use Efficiencies in Cotton

George Vellidis¹, Stefano Gobbo¹, Matthew Gruver¹, Lorena Nunes Lacerda¹, Calvin Perry², Wesley M. Porter¹, Moukaram Tertuliano¹, Arianna Toffanin¹ and Bobby J. Washington², (1)University of Georgia, Tifton, GA, (2) University of Georgia, Camilla, GA

10:45 AM Leveraging Rainfall with Very Limited Irrigations in Texas High Plains Cotton Rotations

Jim Bordovsky, Texas A&M Agrilife, Lubbock, TX

11:00 AM Assessment of Deficit Irrigation Strategies for Cotton Production in the Texas High Plains

Sushil Kumar Himanshu, Texas A&M Agrilife Research, Vernon, TX, Srinivasulu Ale, Texas A&M AgriLife Research, Vernon, TX, Jim Bordovsky, Texas A&M Agrilife, Lubbock, TX and Edward M. Barnes, Cotton Incorporated, Cary, NC

11:15 AM Design and Implementation of a Rainfed Matrix Protocol for the Study of Rainfed Cotton Production

James R. Mahan, USDA/ARS, Lubbock, TX and Paxton Payton, United States Department of Agriculture, Lubbock, TX

11:30 AM Determining Ideal Irrigation Termination Dates Under Deficit Irrigation Strategies

Srinivasulu Ale, Texas A&M AgriLife Research, Vernon, TX, Sushil Kumar Himanshu, Texas A&M Agrilife Research, Vernon, TX, Nina Omani, Syngenta Crop Protection, LLC, Greensboro, NC, Jim Bordovsky, Texas A&M Agrilife, Lubbock, TX, Kelly R. Thorp, USDA-ARS, Maricopa, AZ and Edward M. Barnes, Cotton Incorporated, Cary, NC

COTTON AGRONOMY, PHYSIOLOGY & SOIL - WEDNESDAY EARLY AFTERNOON

Galerie 5 (New Orleans Marriott) - 1:00 PM-3:00 PM

1:00 PM Fertilizing Cotton with N, P and K by Yield Goal in Georgia

Glendon Harris, University of Georgia, Tifton, GA

1:15 PM Twenty Years of Nitrogen Management Research for Texas and Arizona Cotton: What We Have Learned

Kevin F. Bronson, USDA-ARS, Maricopa, AZ

1:30 PM Continued Field Evaluation of Nitrogen and Zinc Rates in a Cotton/Corn Rotation

Dr. M. Wayne Belhar and Richard E. Turner, Mississippi State University, Stoneville, MS

1:45 PM Cotton Yield Monitor Values Drift over Time

Rodrigo Goncalves Trevisan¹, Alexandre Ormiga Galvao Barbosa², Luciano Shozo Shiratsuchi³ and Nicolas Federico Martin¹, (1)University of Illinois at Urbana-Champaign, Urbana, IL, (2)University of Illinois at Urbana Champaign, Urbana, IL, (3)Louisiana State University Agricultural Center, Baton Rouge, LA

2:00 PM Potential Uses of Digital Twins for Cotton Research and Management

Juan Landivar¹, Jinha Jung², Akash Ashapure², Anjin Chang², Sungchan Oh², Murilo Maeda³, Javier Osorio⁴ and Thomas Gerik⁴, (1)Texas A&M AgriLife Research, Corpus Christi, TX, (2)Texas A&M University - Corpus Christi, Corpus Christi, TX, (3)Texas A&M AgriLife Extension, Lubbock, TX, (4)Texas A&M AgriLife, Temple, TX

2:15 PM Using Canepeo As a Tool for Measuring Early Season Vigor in Cotton Variety Trials

Mark Freeman, UGA, Statesboro, GA

2:30 PM Cotton Seeding Rate Effects on Plant Architecture and Lint Yield across Different Varieties in the Upper Southeast Coastal Plain

Hunter Frame, Virginia Polytechnic Institute & State University, Blacksburg, VA

2:45 PM Soil Compaction and Its Impact on Soil Properties and Cotton Yield

Gaylon Morgan¹, Haly Neely², Brady P. Arthur² and J. Alex Thomasson², (1) Texas A&M AgriLife Extension Service, College Station, TX, (2)Texas A&M University, College Station, TX

COTTON AGRONOMY, PHYSIOLOGY & SOIL - WEDNESDAY EARLY AFTERNOON - PHD STUDENT COMPETITION

Galerie 6 (New Orleans Marriott) - 1:00 PM-3:15 PM

1:00 PM Effect of Nematode Control Practices on Profitability of Cotton Production

Darrin M. Dodds¹, Seth A. Byrd², Savana Davis¹ and **Bradley R. Wilson**³, (1) Mississippi State University, Mississippi State, MS, (2)Oklahoma State University - Southwest Research and Extension Center, Stillwater, OK, (3)Oklahoma State University, Stillwater, OK

1:15 PM Evaluation of Phosphorus and Potassium Application Methods and Rates on Cotton Lint Yield and Fiber Quality

Amee Bumguardner, Texas Tech University, Lubbock, TX, Katie L. Lewis, Texas A&M AgriLife Research and Extension Center, Lubbock, TX and George LeGrande, Wilbur Ellis, Stephenville, TX

1:30 PM Impacts on Cotton Fiber Quality from Multi-Pickings Compared to Traditional Single Pass Harvest Systems

James A. Griffin, Texas A&M Cotton Extension, College Station, TX, Gaylon Morgan, Texas A&M AgriLife Extension Service, College Station, TX, Emi Kimura, Texas A&M AgriLife Research and Extension Service, Vernon, TX, John L. Snider, University of Georgia, Tifton, GA and Edward M. Barnes, Cotton Incorporated, Cary, NC

1:45 PM Proximal and Unmanned Aerial Remote Sensing for Monitoring Crop Growth and Stress

Jeff Siegfried and Nithya Rajan, Texas A&M University, College Station, TX

2:00 PM A Novel Evaluation of Soil Health in Semi-Arid Texas Cotton Production

Joseph Alan Burke, Texas A&M University, College Station, TX, Katie L. Lewis, Texas A&M AgriLife Research and Extension Center, Lubbock, TX and Paul DeLaune, Texas A&M AgriLife Research, Vernon, TX

2:15 PM Cotton (*Gossypium hirsutum*) Defoliation as Affected by Drop-let Size and Carrier Volume

Jacob P. McNeal¹, Darrin M. Dodds¹, Greg Kruger², Savana Davis¹, Lucas Xavier Franca¹, Bradley Norris¹ and John J Williams¹, (1)Mississippi State University, Mississippi State, MS, (2)University of Nebraska - Lincoln, North Platte, NE

2:30 PM Making the Replant Decision: Utilizing an Aerial Platform and Surface Regression Modeling

Shawn Butler¹, Tyson B Raper¹ and Michael Buschermohle², (1)University of Tennessee, Jackson, TN, (2)University of Tennessee, Knoxville, TN

2:45 PM Irrigation and Varietal Impacts on Cotton (*Gossypium hirsutum*) Fruit Partitioning

John J Williams, Darrin M. Dodds, Lucas Xavier Franca, Jacob P. McNeal, Savana Davis and Bradley Norris, Mississippi State University, Mississippi State, MS

3:00 PM Assessing Reniform Nematode Resistant Cotton Lines Using Classical Growth Analysis

Bhupinder Singh¹, Daryl Chastain¹, John L. Snider², K. Raja Reddy³, Jason Krutz¹ and Sally Stetina⁴, (1)Mississippi State University, Stoneville, MS, (2) University of Georgia, Tifton, GA, (3)Mississippi State University, Starkville, MS, (4)USDA-ARS, Stoneville, MS

COTTON AGRONOMY, PHYSIOLOGY & SOIL - WEDNESDAY LATE AFTERNOON

Galerie 5 (New Orleans Marriott) - 3:30 PM-4:45 PM

3:30 PM Mississippi's Centennial Rotation - 2004-2018

Dr. M. Wayne Ebelhar and Richard E. Turner, Mississippi State University, Stoneville, MS

3:45 PM Cover Crop and Crop Rotation Effects on Cotton Production

Paul DeLaune¹, Partson Mubvumba¹, Katie L. Lewis² and Charles Coufal¹, (1) Texas A&M AgriLife Research, Vernon, TX, (2)Texas A&M AgriLife Research and Extension Center, Lubbock, TX

4:00 PM Allelopathic Effect of Cover Crops on Germination and Early Seedling Growth of Cotton (*Gossypium hirsutum*)

Avat Shekoofa, Sara Safikhan, Tyson Raper and Shawn Butler, University of Tennessee, Jackson, TN

4:15 PM Chemical Stalk Destruction of 2,4-D Tolerant Cotton in South Texas

Josh McGinty¹, Gaylon Morgan² and Dale A. Mott², (1)Texas A&M AgriLife Extension Service, Corpus Christi, TX, (2)Texas A&M AgriLife Extension Service, College Station, TX

4:30 PM Effects of Various Rates and Application Timings of Pentia (PGR) on Multiple Cotton Varieties

Dale A. Mott¹, Gaylon Morgan¹, Brandon Ripple², Heath R Reeves³ and Richard R Minzenmayer⁴, (1)Texas A&M AgriLife Extension Service, College Station, TX, (2)Ripple Agricultural Research, Inc., San Angelo, TX, (3)BASF, Corpus Christi, TX, (4)BASF, Ballinger, TX

COTTON AGRONOMY, PHYSIOLOGY & SOIL - BUSINESS MEETING

Galerie 5 (New Orleans Marriott) - 5:00 PM-7:00 PM

Thursday, January 10, 2019

COTTON AGRONOMY, PHYSIOLOGY & SOIL - THURSDAY LATE MORNING - AWARDS SESSION

Galerie 5 (New Orleans Marriott) - 9:00 AM-10:30 AM

Cotton Disease Council

Wednesday, January 9, 2019

COTTON DISEASE COUNCIL - WEDNESDAY EARLY MORNING

Galerie 1 (New Orleans Marriott) - 8:00 AM-10:00 AM

8:00 AM The Past and Current Impact of *Fusarium Oxysporum* f. sp. *Vasinfectum* Race 4 on Cotton Production in California

Margaret L Ellis, California State University, Fresno, Fresno, CA, Josue Diaz, California State University Fresno, Fresno, CA, Robert B Hutmacher, University of California, Shafter Research & Extension Center, Five Points, CA and Mauricio Ulloa, USDA-ARS, Lubbock, TX

8:20 AM Long-Term Management Options and Observations with *Fusarium* Race 4 in California

Robert B Hutmacher, University of California, Shafter Research & Extension Center, Five Points, CA, Mauricio Ulloa, USDA-ARS, Lubbock, TX and Margaret L Ellis, California State University, Fresno, Fresno, CA

8:40 AM FOV4 in Texas: What's Happening Now and Looking Toward the Future

Thomas Isakeit, Texas A&M University, College Station, TX, Jason Woodward, Department of Plant and Soil Science, Texas Tech University, Lubbock, TX, Orlando Flores, Texas A&M AgriLife Extension, El Paso, TX, Mauricio Ulloa, USDA-ARS, Lubbock, TX, Terry A. Wheeler, Texas A&M AgriLife Research, Lubbock, TX and Robert L. Nichols, Cotton Incorporated, Cary, NC

9:00 AM Distribution, Detection, Evolutionary Relationship, and Pathogenicity of the Four Sub-Genotypes of Race 4 (VCG0114) of *Fusarium* Wilt Pathogen of Cotton

Jinggao Liu¹, Alois A. Bell², Aixing Gu³, Jim Olvey⁴, Tanya A. Wagner¹, Javlon Tashpulatov⁵, Sandria Prom⁶, Jose Quintana¹ and Robert L. Nichols⁷, (1) USDA-ARS, College Station, TX, (2)USDA-ARS ICCDRU, College Station, TX, (3)Xinjiang Agricultural University, Urumqi, China, (4)O&A Enterprises, Maricopa, AZ, (5)USDA ARS, Southern Plains Agricultural Research Center, College Station, TX, (6)Texas A&M University, College Station, TX, (7)Cotton Incorporated, Cary, NC

9:20 AM Dissecting the Disease Mechanism of *Fusarium Oxysporum* f. Sp. *Vasinfectum* Race 4 (Fov4) in Cotton

Libo Shan¹, Liang Kong¹, Zunyong Liu¹, Pierce Jamieson¹, Terry A. Wheeler², Jason Woodward³, Jane K Dever⁴, Steve Hague¹, Mauricio Ulloa⁵ and Ping He¹, (1)Texas A&M University, College Station, TX, (2)Texas A&M AgriLife Research, Lubbock, TX, (3)Department of Plant and Soil Science, Texas Tech University, Lubbock, TX, (4)Texas A&M AgriLife Research and Extension Center, Lubbock, TX, (5)USDA-ARS, Lubbock, TX

9:40 AM Experiences in Diagnosis of Symptoms and Progression of FOV4 in Pima and Upland Cotton

Mauricio Ulloa, USDA-ARS, Lubbock, TX, Robert B Hutmacher, University of California, Shafter Research & Extension Center, Five Points, CA, Margaret L Ellis, California State University, Fresno, Fresno, CA and Robert L. Nichols, Cotton Incorporated, Cary, NC

COTTON DISEASE COUNCIL - WEDNESDAY LATE MORNING

Galerie 1 (New Orleans Marriott) - 10:30 AM-12:00 PM

10:30 AM Aerial Remote Sensing Surveys of *Fusarium* Wilt of Cotton Near El Paso, Texas

Chenghai Yang, USDA-ARS, College Station, TX, Thomas Isakeit, Texas A&M University, College Station, TX and Robert L. Nichols, Cotton Incorporated, Cary, NC

10:50 AM Panel Discussion

11:20 AM Break

11:30 AM A Historical Review of the National Cottonseed Treatment Program: 1995-2017

Rachel R. Guyer¹, Thomas W. Allen², J. D. Barham³, William Barnett⁴, M. B. Bayles⁵, Alan Beach⁶, Jacobo Caceres², P. D. Colyer⁷, T. Kelley⁵, Robert C. Kemerait⁸, Gary W. Lawrence⁹, Kathy S. Lawrence¹⁰, Hillary L. Mehl¹¹, Melvin A. Newman¹, Guy Padgett¹², Patrick M. Phipps¹³, Paul Price¹⁴, Craig Rothrock¹⁵, Greta Schuster¹⁶, Gabe Sciumbato², Terry Spurlock¹⁷, R. Thacker⁵, Laval M. Verhalen⁵, Scott Winters¹⁵, Jason Woodward¹⁸ and Heather Kelly¹, (1)University of Tennessee, Jackson, TN, (2)Mississippi State University, Stoneville, MS, (3)University of Arkansas Division of Agriculture, Hope, AR, (4)NEREC - University of Arkansas Division of Agriculture, Little Rock, AR, (5)Oklahoma State University, Stillwater, OK, (6)University of Arkansas, Newport, AR, (7)LSU AgCenter, Bossier City, LA, (8)University of Georgia, Tifton, GA, (9) Mississippi State University, Starkville, MS, (10)Auburn University, Auburn, AL, (11)Virginia Tech Tidewater AREC, Suffolk, VA, (12)Louisiana State University, Alexandria, LA, (13)Virginia Tech, Blacksburg, VA, (14)Louisiana State University, Winnsboro, LA, (15)University of Arkansas, Fayetteville, AR, (16) Texas A&M University Kingsville, Kingsville, TX, (17)University of Arkansas, Monticello, AR, (18)Department of Plant and Soil Science, Texas Tech University, Lubbock, TX

11:45 AM Current Methods of the National Cottonseed Treatment Program and Proposed Changes in Protocol

Shelly Neill Pate¹, Heather Kelly¹, Rachel R. Guyer¹, Kathy S. Lawrence², Thomas W. Allen³, M. B. Bayles⁴, P. D. Colyer⁵, Hillary Mehl⁶, Paul Price⁷, Terry Spurlock⁸ and Jason Woodward⁹, (1)University of Tennessee, Jackson, TN, (2) Auburn University, Auburn, AL, (3)Mississippi State University, Stoneville, MS, (4)Oklahoma State University, Stillwater, OK, (5)LSU AgCenter, Bossier City, LA, (6)Virginia Tech, Suffolk, VA, (7)Louisiana State University, Winnsboro, LA, (8)University of Arkansas, Monticello, AR, (9)Department of Plant and Soil Science, Texas Tech University, Lubbock, TX

COTTON DISEASE COUNCIL - STUDENT PAPER COMPETITION

Galerie 1 (New Orleans Marriott) - 2:00 PM-3:30 PM

2:00 PM Systemic Response Stimulated by Bacillus Sp. Can Manage Meloidogyne Incognita Population Density in Gossypium hirsutum
Kaitlin Gattoni, Ni Xiang, Bisho Ram Lawaju, Kathy S. Lawrence and Joseph Kloepper, Auburn University, Auburn, AL

2:15 PM In vitro Effect of Fungicides on Corynespora cassiicola Isolates from Cotton and Soybean in Alabama
Marina Nunes Rondon, Bisho Ram Lawaju and Kathy Lawrence, Auburn University, Auburn, AL

2:30 PM Yield Response of Cotton Cultivars to Root-Knot and Reniform Nematodes in Alabama
Will Groover, David R Dyer and Kathy Lawrence, Auburn University, Auburn, AL

2:45 PM Evaluation of the Temporal and Spatial Occurrence of Fusarium Oxysporum f. Sp. Vasinfectum (FOV) Races as Influenced by Selected Cotton Genotypes in the National Cotton Fusarium Wilt Evaluation Field in Alabama
David R Dyer and Kathy S. Lawrence, Auburn University, Auburn, AL

3:00 PM Assessment of Cotton Root Protection by Fluopyram-Treated Seed Against Meloidogyne Incognita
Tracy E Hawk, University of Arkansas, Fayetteville, AR and Travis R. Fasje, University of Arkansas Division of Agriculture, Lonoke, AR

COTTON DISEASE COUNCIL - WEDNESDAY LATE AFTERNOON

Galerie 1 (New Orleans Marriott) - 4:00 PM-5:00 PM

4:00 PM Discovery of the Exotic Cotton Leaf Roll Dwarf Virus, Causal Agent of Blue Disease in the Southeastern US
Judith K Brown, University of Arizona, Tucson, AZ

4:15 PM Cotton Blue Disease Caused by Cotton Leafroll Dwarf Virus Identification, Symptomology and Occurrence in Alabama

Kathy S. Lawrence¹, Austin Hagan¹, Edward Sikora¹, Kassie Conner¹, Drew Schrimsher², Alana Lynn Jacobson¹, Jenny Koebernick¹ and Judith K Brown³, (1)Auburn University, Auburn, AL, (2)Agri-AFC, Slocomb, AL, (3)University of Arizona, Tucson, AZ

4:30 PM Survey of Cotton Viruses in Mid-Southern States

Akhtar Ali, Department of Biological Science, The University of Tulsa, Tulsa, OK

COTTON DISEASE COUNCIL BUSINESS MEETING

Galerie 1 (New Orleans Marriott) - 5:00 PM-7:00 PM

5:00 PM Bacterial Blight Report for the U.S. in 2018

Terry A. Wheeler, Texas A&M AgriLife Research, Lubbock, TX

Thursday, January 10, 2019

COTTON DISEASE COUNCIL - THURSDAY EARLY MORNING

Galerie 1 (New Orleans Marriott) - 8:00 AM-10:00 AM

8:00 AM Managing Fusarium Wilt in Georgia: Comparative Efficacy of Three Nematicides

Robert C. Kemerait¹, Robert L. Nichols², D. Scott Carlson³ and Justin Hand¹, (1)University of Georgia, Tifton, GA, (2)Cotton Incorporated, Cary, NC, (3)UGA Cooperative Extension Service - Tift County, Tifton, GA

8:15 AM Beltwide Nematode Research and Education Committee Report on Field Performance of Seed-Applied and Soil-Applied Nematicides, 2018

Travis R. Fasje, University of Arkansas Division of Agriculture, Lonoke, AR, Thomas W. Allen, Mississippi State University, Delta Research and Extension Center, Stoneville, MS, Z. Grabau, University of Florida, Quincy, FL, Robert C. Kemerait, University of Georgia, Tifton, GA, Kathy S. Lawrence, Auburn University, Auburn, AL, Hillary L. Mehl, Virginia Tech Tidewater AREC, Suffolk, VA, Charlie Overstreet, Louisiana State University, Baton Rouge, LA, Lindsey D. Thiessen, NC State University, Raleigh, NC and Terry A. Wheeler, Texas A&M AgriLife Research, Lubbock, TX

8:30 AM Evaluating Strategies for Managing Southern Root Knot Nematode in Colquitt County, Georgia

Jeremy M. Kichler, University of Georgia Cooperative Extension, Moultrie, GA and Robert C. Kemerait, University of Georgia, Tifton, GA

8:45 AM Impacts of Winter Brassica Carinata and Summer Crop Rotation on Nematode Management

Zane J. Grabau¹, Ramdeo Seepaul², David L. Wright² and Ian Small², (1)University of Florida, Gainesville, FL, (2)University of Florida, Quincy, FL

9:00 AM A Novel Variant of Gh_D02G0276 Is Required for Root-Knot Nematode Resistance on Chromosome 14 (D02) in Upland Cotton

Martin Wubben¹, Gregory N. Thyssen², Franklin E. Callahan³, David D. Fang², Dewayne D. Deng³, Jack C. McCarty³, Ping Li², Md S Islam⁴ and Johnie N. Jenkins³, (1)USDA ARS, Mississippi State, MS, (2)Cotton Fiber Bioscience Research Unit, USDA-ARS-SRRC, New Orleans, LA, (3)USDA-ARS, Mississippi State, MS, (4)USDA ARS, Canal Point, FL

9:15 AM Phenotypic and Genotypic Evaluation of Gossypium hirsutum Accessions Previously Identified in the Literature as Resistant to Root-Knot or Reniform Nematode

Amanda Gaudin¹, Martin Wubben², Franklin E. Callahan³, Dewayne D. Deng³, Jack C. McCarty³ and Johnie N. Jenkins³, (1)USDA-ARS, Crop Science Research Laboratory, Mississippi State, MS, (2)USDA ARS, Mississippi State, MS, (3)USDA-ARS, Mississippi State, MS

9:30 AM Effect of Verticillium Wilt and Bacterial Blight on Commercial Cotton Varieties in 2018

Terry A. Wheeler and Jane K Dever, Texas A&M AgriLife Research, Lubbock, TX

9:45 AM Reaction of Cotton Cultivars and Breeding Lines to Areolate Mildew in Alabama

Austin Hagan¹, Kira L. Bowen¹, Katherine Burch¹, H. Brad Miller², Don Moore³ and Larry Wells⁴, (1)Auburn University, Auburn, AL, (2)Brewton Agricultural Research Unit, Brewton, AL, (3)Prattville Agricultural Research Unit, Prattville, AL, (4)Wiregrass Research and Extension Center, Headland, AL

COTTON DISEASE COUNCIL - THURSDAY LATE MORNING

Galerie 1 (New Orleans Marriott) - 10:30 AM-12:00 PM

10:30 AM Reaction of Cotton Cultivars and Breeding Lines to Target Spot in Alabama

Kira L. Bowen¹, Austin Hagan¹, Katherine Burch¹, H. Brad Miller², Don Moore³ and Larry Wells⁴, (1)Auburn University, Auburn, AL, (2)Brewton Agricultural Research Unit, Brewton, AL, (3)Prattville Agricultural Research Unit, Prattville, AL, (4)Wiregrass Research and Extension Center, Headland, AL

10:45 AM Challenges in Working with *Corynespora Cassiicola*, to Develop Phenotyping Protocols

Jenny Koebernick, Carly Moore, Kira L. Bowen and Austin Hagan, Auburn University, Auburn, AL

11:00 AM Efficacy and Yield Protection to Fungicide Inputs for the Control of Foliar Diseases in Cotton

Austin Hagan¹, Kira L. Bowen¹, Katherine Burch¹, Malcomb Pegues², Jarrod R. Jones² and H. Brad Miller³, (1)Auburn University, Auburn, AL, (2)Gulf Coast Research and Extension Center, Fairhope, AL, (3)Brewton Agricultural Research Unit, Brewton, AL

11:15 AM Management of Target Spot in Georgia with Fungicide Selection and Chemigation

Robert C. Kemerait¹, Calvin Perry², Bobby J. Washington² and Ma. Katrina Laurel³, (1)University of Georgia, Tifton, GA, (2)University of Georgia, Camilla, GA, (3)Department of Plant Pathology, the University of Georgia, Tifton, GA

11:30 AM Overview of PhytoGen Cotton Breeding Traits

Jason Woodward¹, Russell C Nuti², Steven M Brown³, Ken Lege¹, Ben Benton¹, Sterling Brooks Blanche⁴, Chad Brewer¹, Jennifer Crawford¹, Thomas Eubank¹, Scott W Fuchs⁵, Robert Lemon⁶, Chris L Main⁷, Mustafa McPherson⁸ and Jacob Rieff¹, (1)Corteva Agriscience, Indianapolis, IN, (2)PhytoGen Seed Company, Shellman, GA, (3)PhytoGen Cottonseed, Tifton, GA, (4)Phytogen Cottonseed, Saint Joseph, LA, (5)PhytoGen Seed, LLC, San Angelo, TX, (6)PhytoGen Seed Company, Caldwell, TX, (7)PhytoGen, Medina, TN, (8)PhytoGen Seed Company, Leland, MS

Cotton Economics and Marketing Conference

Wednesday, January 9, 2019

COTTON ECONOMIC OUTLOOK SYMPOSIUM

Mardi Gras Ballroom Salon D (New Orleans Marriott) - 10:30 AM-12:00 PM

10:30 AM Farm Policy Update

Jody Campiche, National Cotton Council of America, Cordova, TN

11:00 AM Global Cotton Outlook

Stephen A. MacDonald, World Agricultural Outlook Board, USDA, Washington, DC

11:30 AM Cotton - the Tariff Market

O. A. Cleveland, Mississippi State, Starkville, MS

COTTON ECONOMICS AND MARKETING - WEDNESDAY EARLY AFTERNOON

Mardi Gras Ballroom Salon D (New Orleans Marriott) - 1:30 PM-3:15 PM

1:30 PM Prevented Planting Provision Influence on Cotton Producers' Late Planting Decision

Chris Boyer¹, **Aaron Smith**¹, **Kevin Adkins**² and **Tyson Raper**³, (1)University of Tennessee, Knoxville, TN, (2)University of Tennessee, Knoxville, Cedar Hill, TN, (3)University of Tennessee, Jackson, TN

1:50 PM Forecasting the U.S. Upland Cotton Season-Average Farm Price: An Application of a Futures Price-Based Model

Leslie A. Meyer and **Linwood A. Hoffman**, USDA-ERS, Washington, DC

2:10 PM Estimating the Impact of Price Loss Coverage (PLC) for Texas Cotton Producers

William Thompson, Texas A&M AgriLife Extension Service, San Angelo, TX

2:30 PM Crop Condition, Progress, & Yield

Jon Devine, Cotton Incorporated, Cary, NC, **Liu Bing, Liu**, Texas Tech Department of Agricultural and Applied Economics, Lubbock, TX and **Darren Hudson**, Texas Tech University, Lubbock, TX

COTTON ECONOMICS AND MARKETING - POSTERS

Mardi Gras Ballroom Salon D (New Orleans Marriott) - 1:30 PM-5:00 PM

1. Panhandle Model Farms - 2018 Case Studies of Texas High Plains Agriculture

DeDe L. Jones, Texas A&M AgriLife Extension, Amarillo, TX and **Will Keeling**, Texas A&M AgriLife Extension, Lubbock, TX

2. Generic Base Acre Reallocation: Incorporating Risk Management Strategies into Farm Decision Tools

Michael A. Deliberto and **Brian Hilbun**, LSU AgCenter, Baton Rouge, LA

3. Premier Cotton Education -- Marketing and Risk Management

Danny J Nusser, Texas A&M AgriLife Extension, Amarillo, TX

4. Evaluating the Current Production Practices to Improve the Efficiency in Cotton Production

Yangxuan Liu, University of Georgia, Tifton, GA and **Mark Freeman**, UGA, Statesboro, GA

5. Economic Analysis on Cover Crops in the Southern High Plains

Jeff Pate¹, **Donna McCallister**² and **Will Keeling**¹, (1)Texas A&M AgriLife Extension, Lubbock, TX, (2)Texas Tech University, Lubbock, TX

COTTON ECONOMICS AND MARKETING - WEDNESDAY LATE AFTERNOON

Mardi Gras Ballroom Salon D (New Orleans Marriott) - 4:00 PM-5:00 PM

4:00 PM Estimated Impacts of Increasing Indian Cotton Minimum Support Price in 2018/19 on the U.S. and Indian Cotton Markets
Darren Hudson and Bing Liu, Texas Tech University, Lubbock, TX

4:20 PM Effects of China's Cotton Tariff on the World Cotton Trade
Darren Hudson and Bing Liu, Texas Tech University, Lubbock, TX

4:40 PM Evaluating Cotton Production Economics in Azerbaijan
John R.C. Robinson¹, Dean A. McCorkle² and Daniel D. Hanselka², (1)Texas A&M University, College Station, TX, (2)Texas A&M AgriLife Extension Service, College Station, TX

Thursday, January 10, 2019

COTTON ECONOMICS AND MARKETING - THURSDAY EARLY MORNING

Mardi Gras Ballroom Salon D (New Orleans Marriott) - 8:00 AM-10:30 AM

8:00 AM Optimal Robotic Utilization for Cotton Production
Terry W Griffin and Gregory Ibendahl, Kansas State University, Manhattan, KS

8:20 AM Economic Analysis of Irrigation Scheduling Method on Cotton Production in Georgia and North Carolina
Yangxuan Liu¹, Anukul Bhattarai², John L. Snider¹ and Guy D. Collins³, (1) University of Georgia, Tifton, GA, (2)University of Georgia, Athens, GA, (3) North Carolina State University, Rocky Mount, NC

8:40 AM Economic Comparison of Cover Crop Use in Texas High Plains Cotton
Katie L. Lewis¹, J. Wayne Keeling¹, Donna McCallister², Paul DeLaune³, Joseph A. Burke⁴ and **Will Keeling**⁵, (1)Texas A&M AgriLife Research and Extension Center, Lubbock, TX, (2)Texas Tech University, Lubbock, TX, (3) Texas A&M AgriLife Research, Vernon, TX, (4)Department of Plant and Soil Science, Texas Tech University, Lubbock, TX, (5)Texas A&M AgriLife Extension, Lubbock, TX

9:00 AM Examining Cotton Yields Resulting from the Use of Various Irrigation Systems in the Texas South Plains Using Propensity-Score Matching
Jorge Romero-Habeych, Darren Hudson and Phil Johnson, Texas Tech University, Lubbock, TX

9:20 AM Impact of Using Guar as a Rotation Crop on Cotton Production in American Southwest
Ram N Acharya, Kulbhushan Grover, Paul H Gutierrez and Joram Robbs, New Mexico State University, Las Cruces, NM

9:40 AM Economic Analysis of Seeding Rate and Planter Downforce in Singulated and Hill-Drop Planted Cotton
Yangxuan Liu, Simerjeet S. Virk, Wesley M. Porter, Jared R. Whitaker and John L. Snider, University of Georgia, Tifton, GA

10:00 AM A Fieldprint Calculator Analysis of Resource and Cost Efficiencies in the Southern High Plains
Donna McCallister and Phil Johnson, Texas Tech University, Lubbock, TX

Cotton Engineering-Systems Conference

Wednesday, January 9, 2019

COTTON SUSTAINABILITY SESSION - WEDNESDAY MORNING

Preservation Hall Studio 4 (New Orleans Marriott) - 8:00 AM-12:00 PM

8:00 AM Sustainability Task Force

Ted Schneider, Grower, Cordova, TN

8:20 AM US Cotton Sustainability Goals

Jesse Daystar, Cotton Incorporated, Cary, NC

8:40 AM US Cotton Industry Sustainability Program

Gary Adams, National Cotton Council, Cordova, TN

9:00 AM Field to Market and the Fieldprint Platform

Lexi Clark, Field to Market, Washington, DC

9:20 AM Integrating Sustainability into Extension

Lori Duncan, University of Tennessee, Knoxville, TN

9:40 AM Metrics for Improving Water Efficiency

Wesley M. Porter, University of Georgia, Tifton, GA

10:00 AM Break

10:15 AM Economics of Cotton Sustainability

Adam Rabinowitz, University of Georgia, Tifton, Tifton, GA

10:35 AM Our Experience with the Fieldprint Platform

Rachel Lee, NRCS, Winnsboro, LA and Kellon Lee, Grower, Winnsboro, LA

11:00 AM Panel Discussion: Sustainability and the Cotton Supply Chain -- perspectives from growers, brands, and retailers

COTTON ENGINEERING-SYSTEMS - WEDNESDAY EARLY AFTERNOON

Preservation Hall Studio 4 (New Orleans Marriott) - 1:00 PM-3:15 PM

1:00 PM A Comparative Study of RGB and Multispectral Sensor Based Cotton Canopy Cover Modelling Using Multi-Temporal UAS Data

Akash Ashapure¹, **Jinha Jung¹**, **Murilo Maeda²**, **Anjin Chang¹**, **Sungchan Oh³**, **Juan Landivar⁴**, **Steve Hague⁵** and **C. Wayne Smith⁵**, (1)Texas A&M University - Corpus Christi, Corpus Christi, TX, (2)Texas A&M AgriLife Extension, Lubbock, TX, (3)Texas A&M University - Corpus Christi, Corpus Chisti, TX, (4) Texas A&M AgriLife Research, Corpus Christi, TX, (5)Texas A&M University, College Station, TX

1:15 PM Using an Unmanned Aerial System to Collect Mid-Season Multispectral Data for Estimation of Plant Nitrogen Status in Cotton

David W Daughtry, Wesley M. Porter, Glendon Harris, John L. Snider and Reagan L Noland, University of Georgia, Tifton, GA

1:30 PM A Plant-By-Plant Level Remote Sensing Classification Method for Cotton Root Rot Based on Uav Platform

Tianyi Wang, Texas A&M University, College Station Texas, TX and J. Alex Thomasson, Texas A&M University, College Station, TX

1:45 PM Considerations for Planter Downforce and Seeding Rate for Maximizing Emergence in Singulated Versus Hill-Drop Planted Cotton

Simerjeet S. Virk, Wesley M. Porter, Jared R. Whitaker and John L. Snider, University of Georgia, Tifton, GA

2:00 PM Visual Row Detection Using Pixel-Based Algorithm and Stereo Camera for Cotton Picking Robot

Kadeghe Goodluck Fue, Wesley M. Porter and Glen C. Rains, University of Georgia, Tifton, GA

2:15 PM Visual Inverse Kinematics for Cotton Picking Robot
Kadeghe Goodluck Fue, Wesley M. Porter and Glen C. Rains, University of Georgia, Tifton, GA

2:30 PM Update on Calibrated Cotton Yield Monitor
Jianing He, Texas A&M University, College Station Texas, TX, J. Alex Thomasson, Texas A&M University, College Station, TX, John D. Wanjura, USDA-ARS Cotton Production and Processing Research Unit, Lubbock, TX and Mathew G. Pelletier, USDA ARS CPPRU, Lubbock, TX

2:45 PM An Initial Look at Robotics in Cotton Harvesting
Hussein Gharakhani and J. Alex Thomasson, Texas A&M University, College Station, TX

COTTON ENGINEERING-SYSTEMS - WEDNESDAY LATE AFTERNOON

Preservation Hall Studio 4 (New Orleans Marriott) - 4:00 PM-5:00 PM

4:00 PM Initial Possibilities for Robotic Cotton Harvest
Edward M. Barnes¹, Kater Hake¹, Terry W Griffin², Glen C. Rains³, Joe Mari J. Maja⁴, J. Alex Thomasson⁵, James A. Griffin⁶, Mathew G. Pelletier⁷, Marlowe Edgar C. Bruce⁴, Kadeghe Goodluck Fue³, Emi Kimura⁸, Gaylon Morgan⁹, Jon Devine¹, Gregory Ibendahl² and Brian G. Ayre¹⁰, (1)Cotton Incorporated, Cary, NC, (2)Kansas State University, Manhattan, KS, (3)University of Georgia, Tifton, GA, (4)Clemson University, Blackville, SC, (5)Texas A&M University, College Station, TX, (6)Texas A&M Cotton Extension, College Station, TX, (7) USDA-ARS Cotton Production and Processing Research Unit, Lubbock, TX, (8)Texas A&M AgriLife Research and Extension Service, Vernon, TX, (9)Texas A&M AgriLife Extension Service, College Station, TX, (10)University of North Texas, Denton, TX

4:15 PM Adaption of Mobile Robot Platform for Cotton Harvesting
Marlowe Edgar C. Burce¹, Joe Mari J. Maja¹ and Edward M. Barnes², (1) Clemson University, Blackville, SC, (2)Cotton Incorporated, Cary, NC

4:30 PM Directed Rx: A New Method for Variable Rate Nitrogen Prescription in Cotton
Kendall R. Kirk and Michael T. Plumblee, Clemson University, Blackville, SC

4:45 PM Fiber Cohesion Effects on Energy Use during Processing and Fiber and Yarn Quality
Robert G. Hardin, Texas A&M University, College Station, TX, Christopher D. Delhom, USDA-ARS Southern Regional Research Center, New Orleans, LA and Efreem Bechere, USDA-ARS, Stoneville, MS

Thursday, January 10, 2019

COTTON ENGINEERING-SYSTEMS - THURSDAY EARLY MORNING

Preservation Hall Studio 4 (New Orleans Marriott) - 9:00 AM-10:00 AM

9:00 AM Phenotyping Cotton Water Use with Multispectral Drone Imagery and Geospatial FAO-56 Methods

Kelly R. Thorp¹, Alison L. Thompson¹, Sara J. Harders¹, Andrew N. French¹ and Rick W. Ward², (1)USDA-ARS, Maricopa, AZ, (2)University of Arizona, Maricopa, AZ

9:15 AM High Throughput Phenotyping (HTP) for Single Plant Using Unmanned Aerial System (UAS) Data in Cotton

Anjin Chang¹, Jinha Jung¹, Sungchan Oh¹, Akash Ashapure¹, Murilo Maeda², Juan Landivar³, C. Wayne Smith⁴ and Steve Hague⁴, (1)Texas A&M University - Corpus Christi, Corpus Christi, TX, (2)Texas A&M AgriLife Extension, Lubbock, TX, (3)Texas A&M AgriLife Research, Corpus Christi, TX, (4)Texas A&M University, College Station, TX

9:30 AM Artificial Neural Network Based Cotton Yield Estimation Using Unmanned Aerial System Data

Jinha Jung¹, Akash Ashapure¹, Anjin Chang¹, Sungchan Oh², Murilo Maeda³, Juan Landivar⁴, Steve Hague⁵ and C. Wayne Smith⁵, (1)Texas A&M University - Corpus Christi, Corpus Christi, TX, (2)Texas A&M University - Corpus Christi, Corpus Chisti, TX, (3)Texas A&M AgriLife Extension, Lubbock, TX, (4)Texas A&M AgriLife Research, Corpus Christi, TX, (5)Texas A&M University, College Station, TX

9:45 AM Estimation of Open Boll Count from Number of Cotton Sprout Using Unmanned Aerial System Images and Yolo, a Deep Learning Framework

Sungchan Oh¹, Anjin Chang¹, Akash Ashapure¹, Jinha Jung¹, Murilo Maeda², Juan Landivar³, Steve Hague⁴ and C. Wayne Smith⁴, (1)Texas A&M University - Corpus Christi, Corpus Christi, TX, (2)Texas A&M AgriLife Extension, Lubbock, TX, (3)Texas A&M AgriLife Research, Corpus Christi, TX, (4)Texas A&M University, College Station, TX

Cotton Ginning Conference

Wednesday, January 9, 2019

COTTON GINNING - WEDNESDAY EARLY AFTERNOON

Preservation Hall Studios 2 - 3 (New Orleans Marriott) - 1:30 PM-3:15 PM

1:30 PM Quality of the 2018 Cotton Crop

Robbie L Seals, USDA, AMS Cotton and Tobacco Program, Memphis, TN

1:45 PM Field Evaluation of Lummus Gin Machinery - 2018

Ross D. Rutherford¹, David L. Arthur¹, Mark D. Cory² and Joe W. Thomas², (1) Lummus Corporation, Lubbock, TX, (2) Lummus Corporation, Savannah, GA

2:00 PM Maximizing Ginning System Efficiencies

Michael Greene, Cherokee Fabrication, Salem, AL

2:15 PM New Product Developments from Lummus

Mark D. Cory¹, Joe W. Thomas¹ and Ross D. Rutherford², (1) Lummus Corporation, Savannah, GA, (2) Lummus Corporation, Lubbock, TX

2:30 PM Gin Utilization of RFID Technology

Rene G Garcia, Edcot COOP Gin, Robstown, TX

2:45 PM Update on the Development of a System for Tracking Modules Using RFID Technology

John D. Wanjura, Greg A. Holt and Mathew G. Pelletier, USDA ARS CPPRU, Lubbock, TX

3:00 PM Round Cotton Module Handling Efficiency

Robert G. Hardin, Texas A&M University, College Station, TX and Tianyi Wang, Texas A&M University, College Station Texas, TX

COTTON GINNING - WEDNESDAY LATE AFTERNOON

Preservation Hall Studios 2 - 3 (New Orleans Marriott) - 3:30 PM-5:30 PM

3:30 PM Preserve Your Profits Quality Seed Management

Michael Prachar, Tri-States Grain Conditioning, Spirit Lake, IA

3:45 PM Testing of a Plastic Detection and Removal System for Round Module Wrap on the Gin Stand Feeder Apron

Mathew G. Pelletier¹, **Gregory A. Holt**², John D. Wanjura¹, Derek P. Whitelock³, Paul A. Funk³, Carlos B. Armijo³, Marcus Gray², Juan Garcia², Ivan Bader² and Kevin Tran², (1) USDA-ARS Cotton Production and Processing Research Unit, Lubbock, TX, (2) USDA-ARS, Lubbock, TX, (3) USDA-ARS Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM

4:00 PM Bringing Optical Sorting Options to the Cotton Industry

Jeff Smith and Steve Travis, Bratney Companies, Des Moines, IA

4:15 PM Experience from Installation and Operation of Plastic Detection/Removal Systems in Two Commercial Gins

Mathew G. Pelletier¹, Gregory A. Holt², John D. Wanjura¹, Derek P. Whitelock³, Carlos B. Armijo³, Paul A. Funk³, Kevin Tran², Ivan Bader², Juan Garcia² and Marcus Gray², (1) USDA-ARS Cotton Production and Processing Research Unit, Lubbock, TX, (2) USDA ARS, Lubbock, TX, (3) USDA-ARS Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM

4:30 PM Tama USA

Mike Bieber, Tama USA, Boonville, MO

4:45 PM Cotton Sort -- Proof of Concept

Ruixiu Sui and Tim Hayes, USDA-ARS, Stoneville, MS

5:00 PM On-Gin Detection of Plastic Contaminants in Seed Cotton Using Hybrid Color and Laser-Scattering Images

Jue Hou¹, Wenbin Wenbin¹, **Bugao Xu**¹ and Mathew G. Pelletier², (1)University of North Texas, Denton, TX, (2)USDA-ARS Cotton Production and Processing Research Unit, Lubbock, TX

5:15 PM Preparing for Wet Cotton

Bill Lipsey, Lipsey GinTech, Inc., Indianola, MS

Thursday, January 10, 2019

COTTON GINNING - THURSDAY EARLY MORNING

Preservation Hall Studios 2 - 3 (New Orleans Marriott) - 8:15 AM-11:30 AM

8:15 AM An Update on Seed Size and Hull Strength Issues

Michael K. Dowd¹, Christopher D. Delhom¹ and Scott M Pelitire², (1)US-DA-ARS Southern Regional Research Center, New Orleans, LA, (2)USDA-ARS, New Orleans, LA

8:30 AM Seed Size Considerations in Cotton Variety Development

Jane K Dever, Texas A&M AgriLife Research, Lubbock, TX

8:45 AM Panel Discussion - Cottonseed Size for Better or Worse

Greg A. Holt, USDA ARS CPPRU, Lubbock, TX

9:00 AM Panel Discussion - Cottonseed Size for Better or Worse - Producer/Ginner

Richard Kelley, Burlison Gin, Burlison, TN

9:10 AM Panel Discussion - Cottonseed Size for Better or Worse - Oil Mill

Robert Lacy, PYCO Industries, Inc., Lubbock, TX

9:20 AM Panel Discussion - Cottonseed Size for Better or Worse - Whole Cottonseed Buyer

Nigel Adcock, Cottonseed LLC - Cottonseed to Cows, La Crosse, WI

9:30 AM Panel Discussion - Cottonseed Size for Better or Worse - Gin Equipment Manufacturer

Joe W. Thomas, Lummus Corporation, Savannah, GA

9:40 AM Panel Discussion - Cottonseed Size for Better or Worse - TAMU

Jane K Dever, Texas A&M AgriLife Research and Extension Center, Lubbock, TX

9:50 AM Panel Discussion - Cottonseed Size for Better or Worse - USDA/ARS

Michael K. Dowd, USDA-ARS Southern Regional Research Center, New Orleans, LA

10:00 AM Evaluation of Prototype High-Capacity Roller-Gin Reclaimers

Derek P. Whitelock¹, Carlos B. Armijo¹, Paul A. Funk¹ and Joe W. Thomas², (1) USDA-ARS Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM, (2)Lummus Corporation, Savannah, GA

10:15 AM Saving Energy in Cotton Gins

Paul Funk, USDA-ARS-SW Cotton Gin Research Lab, Mesilla Park, NM, Robert G Hardin IV, Texas A&M University, College Station, TX, Albert Terrazas, USDA-ARS Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM and Kathleen M. Yeater, USDA-ARS, Fort Collins, CO

10:30 AM Variable Speed Belt - an Efficient Method to Controlling Incoming Feed

Mike Gvili, Advanced Sensing and Controls, Hudson, MA

10:45 AM Development of Stoneville Air-Bar Cotton Lint Cleaner

Ruixiu Sui, USDA-ARS, Stoneville, MS

11:00 AM Student Paper Awards

Robert G. Hardin, Texas A&M University, College Station, TX

Cotton Improvement Conference

Tuesday, January 8, 2019

EMERGING TOPICS IN COTTON - A JOINT SYMPOSIUM BY IMPROVEMENT, AGRONOMY AND DISEASE CONFERENCES

Balconies I, J & K (New Orleans Marriott) - 12:30 PM-5:00 PM

Presiding: Ramesh Buyyarapu

12:30 PM Introductory Remarks

12:40 PM Genetic and Environmental Contributions to Cotton Yield and Fiber Quality in the Midsouth

Tyson B Raper¹, John L. Snider², Darrin M. Dodds³, Andrea S. Jones⁴, Bill Robertson⁵, Dan D. Fromme⁶, Tyler Sandlin⁷, Trey Cutts⁸ and Ryan Blair¹, (1) University of Tennessee, Jackson, TN, (2)University of Georgia, Tifton, GA, (3) Mississippi State University, Mississippi State, MS, (4)University of Missouri, Portageville, MO, (5)University of Arkansas, Newport, AR, (6)LSU AgCenter, Alexandria, LA, (7)Auburn University, Belle Mina, AL, (8)Yara North America, Inc., Tampa, FL

1:10 PM Impacts of Nitrogen and Sulfur Management across Commonly Grown Cotton Varieties

Hunter Frame, Virginia Polytechnic Institute & State University, Blacksburg, VA

1:40 PM Trends in U.S. Commercial Cotton Variety Phenotypes and Impact on Crop Physiology and Management

David W Albers, Bayer Crop Science, St. Louis, MO

2:10 PM Break

2:30 PM The Past and Current Impact of *Fusarium Oxysporum f. Sp. Vasinfectum* Race 4 on Cotton Production in California

Margaret L Ellis, California State University, Fresno, Fresno, CA, Josue Diaz, California State University Fresno, Fresno, CA, Robert B Hutmacher, University of California, Shafter Research & Extension Center, Five Points, CA and Mauricio Ulloa, USDA-ARS, Lubbock, TX

3:00 PM Fusarium Race 4 Upland Screening and Evaluation

Mike Olvey and Jim Olvey, O&A Enterprises, Maricopa, AZ

3:30 PM Breeding for Fusarium Wilt Race 4 Resistance in Cotton

Ramesh Buyyarapu¹, Mustafa McPherson², Timothy Anderson³, Joel Mahill³, Kelly Parliament¹ and John Pellow³, (1)Corteva Agriscience, Johnston, IA, (2)PhytoGen Seed Company, Leland, MS, (3)PhytoGen Seed Company, Corcoran, CA

4:00 PM Panel Discussion

4:55 PM Concluding Remarks

Wednesday, January 9, 2019

COTTON IMPROVEMENT - WEDNESDAY MORNING PLENARY LECTURE

Galerie 2 (New Orleans Marriott) - 8:00 AM-8:35 AM

Presiding: Ramesh Buyyarapu

8:00 AM Introductory Remarks

8:05 AM Domestication and Genetic Diversity of Cultivated Cotton (*G. hirsutum* L.)

Josh Udall¹, Doajun Yuan¹, Lori Hinze², Justin L Conover¹, Corrinne E Gover¹ and Jonathan Wendel¹, (1)Iowa State University, Ames, IA, (2)USDA-ARS, College Station, TX

COTTON IMPROVEMENT - WEDNESDAY EARLY MORNING GERMPASM SESSION

Galerie 2 (New Orleans Marriott) - 8:35 AM-10:00 AM

Presiding: Ramesh Buyyarapu

8:35 AM Upcoming Nexgen Varieties

Douglas J. Jost, Americot, Garden City, TX and Brad Littlefield, Americot, Franklin, TN

8:50 AM Long Term Yield and Fiber Quality Trends in Deltapine Varieties Released from 1980 to 2018

David W Albers, Bayer Crop Science, St. Louis, MO

9:05 AM New Cotton Variety Introductions from BASF

Kenny Melton, BASF, Lubbock, TX

9:20 AM UA212ne: A New Nectariless Cotton Variety

Fred M. Bourland, University of Arkansas-NEREC, Keiser, AR

COTTON IMPROVEMENT - LIGHTNING TALKS STUDENT COMPETITION

Galerie 2 (New Orleans Marriott) - 10:30 AM-12:00 PM

Presiding: Jenny Koebernick

10:30 AM Introductory Remarks

10:35 AM Exploring Variation in AFIS Length Distribution of 8 F2 Populations (LT)

Zach Hinds, Brendan Kelly and Eric F. Hequet, Texas Tech University, Lubbock, TX

10:40 AM Using the HVI Fibrogram to Explain Variation in Yarn Quality (LT)

Md Abu Sayeed, Brendan Kelly and Eric F. Hequet, Texas Tech University, Lubbock, TX

10:45 AM Evaluation of Cotton Fibers Propensity to Break in F3 Breeding Lines (LT)

Joao Paulo Saraiva Morais¹, Brendan Kelly² and Eric F. Hequet², (1)Embrapa Algodao, Campina Grande, Brazil, (2)Texas Tech University, Lubbock, TX

10:50 AM Enhancing US Cotton Classing with Varietal Data (LT)

Jacob W. James, Brendan Kelly and Eric F. Hequet, Texas Tech University, Lubbock, TX

10:55 AM Proof of Concept: Gene Based Breeding Vs Field Based Breeding (LT)

Drutdaman Bhangu, Texas A&M, College Station, TX

11:00 AM High-Throughput Phenotyping That Improves the Efficiency of a Cotton Plant Breeding System (LT)

Wenzhuo Wu, Texas A&M University, College Station, TX

11:05 AM Utilization of Novel Alleles Found in Obsolete Germplasm for the Improvement of Upland Cotton (LT)

Alexandra P Ullrich, TAMU Cotton Improvement Lab, Huntsville, TX

11:10 AM Development and Characterization of Chromosome Segment Substitution Lines (LT)

Christian Hitzelberger, Texas A&M University, College Station, TX

11:15 AM Genome-Wide Spaced Simplex SNP Assays for Marker-Based Interspecific Germplasm Introgression and Genetic Manipulation in Cotton (LT)

Selfnaz Kubra Velioglu, Texas A&M University, College Station, TX

11:20 AM Recombination Rates in Interspecific and Intraspecific Cotton Mapping Populations (LT)

Luis M De Santiago, Interdisciplinary Program in Genetics, Texas A&M University, College Station, TX, Yu-Ming Lin, Texas A&M University, College Station, TX, Mauricio Ulloa, USDA-ARS, Lubbock, TX and David M. Stelly, Texas A&M University System, College Station, TX

11:25 AM A Genome-Wide Association Study of Resistance to Fusarium Wilt and Bacterial Blight in US Upland Cotton Germplasm (LT)

Hanan Elassbli¹, Abdelraheem Abdelraheem¹, Vasu Kuraparthy², David M. Stelly³, Lori Hinze⁴, Soum Sanogo¹, Terry A. Wheeler⁵, Tom Wedegaertner⁶ and Jinfa Zhang¹, (1)New Mexico State University, Las Cruces, NM, (2)North Carolina State University, Raleigh, NC, (3)Texas A&M University System, College Station, TX, (4)USDA-ARS, College Station, TX, (5)Texas A&M AgriLife Research, Lubbock, TX, (6)Cotton Incorporated, Cary, NC

11:30 AM Pathogenicity Test of Fusarium Wilt and Screening Germplasm Lines for Fusarium Wilt Resistance in Cotton (LT)

Yi Zhu¹, Abdelraheem Abdelraheem¹, Soum Sanogo¹, Tom Wedegaertner² and Jinfa Zhang¹, (1)New Mexico State University, Las Cruces, NM, (2)Cotton Incorporated, Cary, NC

COTTON IMPROVEMENT - WEDNESDAY AFTERNOON PLENARY LECTURE

Galerie 2 (New Orleans Marriott) - 1:25 PM-2:00 PM

Presiding: Ramesh Buyyarapu

1:25 PM Introductory Remarks

1:30 PM The Importance of Cotton Production Research to Meet the 10-year US Sustainability Goals

Jesse Daystar, Cotton Inc, Cary, NC

COTTON IMPROVEMENT - WEDNESDAY EARLY AFTERNOON GENETICS SESSION

Galerie 2 (New Orleans Marriott) - 2:00 PM-3:00 PM

Presiding: Ramesh Buyyarapu

2:00 PM An Early Cotton Breeding Giant: Jacob Osborne Ware (1888-1977)

Fred M. Bourland, University of Arkansas-NEREC, Keiser, AR

2:15 PM History and Success of the Regional Breeder Testing Network (RBTN)

Ted Wallace, Mississippi State University, Mississippi State, MS, Don Jones, Cotton Incorporated, Cary, NC and Gerald Myers, LSU Agricultural Center, Baton Rouge, LA

2:30 PM A Multi-Parent Advanced Generation Inter-Cross Population for Genetic Study of Fiber Length Trait in Cotton (*Gossypium hirsutum* L.)

Marina Naoumkina¹, Gregory N. Thyssen¹, David D. Fang¹, Johnnie N. Jenkins², Jack C. McCarty² and Christopher Florane¹, (1)Cotton Fiber Bioscience Research Unit, USDA-ARS-SRRC, New Orleans, LA, (2)USDA-ARS, Mississippi State, MS

2:45 PM Mapping-By-Sequencing the Genetic Locus of Short Fiber Mutant Ligon Lintless-y (liy)

David D. Fang¹, Marina Naoumkina¹, Gregory N. Thyssen², Efrem Bechere³ and Ping Li¹, (1)Cotton Fiber Bioscience Research Unit, USDA-ARS-SRRC, New Orleans, LA, (2)Cotton Chemistry and Utilization Research Unit, USDA-ARS-SRRC, New Orleans, LA, (3)USDA-ARS, Stoneville, MS

COTTON IMPROVEMENT - WEDNESDAY AFTERNOON DISEASE SESSION

Galerie 2 (New Orleans Marriott) - 3:30 PM-5:00 PM

Presiding: Jenny Koebernick

3:30 PM Introductory Remarks

3:35 PM Impact of Verticillium Wilt on Fiber Quality of Greenhouse-Grown Cotton (*Gossypium hirsutum* L.) Breeding Lines

Addisu G Ayele, Terry Wheeler and Jane K Dever, Texas A&M AgriLife Research and Extension Center, Lubbock, TX

3:50 PM Evaluation and Quantitative Trait Locus Mapping for Fusarium Wilt and Verticillium Wilt Resistance in an Integressed MAGIC Population Derived from Intermating between Chromosome Substitution Lines and Upland Cotton

Abdelraheem Abdelraheem¹, Yi Zhu¹, Gregory N. Thyssen², David D. Fang², Johnie N. Jenkins³, Jack C. McCarty³, Tom Wedegaertner⁴ and Jinfa Zhang¹, (1)New Mexico State University, Las Cruces, NM, (2)Cotton Fiber Bioscience Research Unit, USDA-ARS-SRRC, New Orleans, LA, (3)USDA-ARS, Mississippi State, MS, (4)Cotton Incorporated, Cary, NC

4:05 PM Screening Cotton Germplasm for Fusarium Wilt Resistance in Georgia

Edward Beasley¹, Peng Chee², Robert C. Kemerait² and Nelson Dias Suassuna³, (1)UGA, Tifton, GA, (2)University of Georgia, Tifton, GA, (3)Brazilian Agricultural Research Corporation - EMBRAPA, Santo Antonio de Goias - GO, Brazil

4:20 PM A Genome-Wide Association Study of Fusarium Wilt Resistance in a MAGIC Population of Upland Cotton

Jinfa Zhang¹, Yi Zhu¹, Abdelraheem Abdelraheem¹, Zhonghua Teng¹, David D. Fang², Gregory N. Thyssen², Johnie N. Jenkins³, Jack C. McCarty³ and Tom Wedegaertner⁴, (1)New Mexico State University, Las Cruces, NM, (2)Cotton Fiber Bioscience Research Unit, USDA-ARS-SRRC, New Orleans, LA, (3)USDA-ARS, Mississippi State, MS, (4)Cotton Incorporated, Cary, NC

4:35 PM Experiences in Breeding for FOV4 Resistance/Tolerance in Upland and Molecular Breeding Opportunities

Mauricio Ulloa, USDA-ARS, Lubbock, TX

Thursday, January 10, 2019

COTTON IMPROVEMENT - THURSDAY MORNING PLENARY LECTURE

Galerie 2 (New Orleans Marriott) - 8:00 AM-8:35 AM

Presiding: Jenny Koebernick

8:00 AM Introductory Remarks

8:05 AM Leveraging Genomics and Phenomics to Unravel Stress-Adaptive Traits in Cotton

Duke Pauli, University of Arizona, Tucson, AZ

COTTON IMPROVEMENT - THURSDAY EARLY MORNING OMICS SESSION

Galerie 2 (New Orleans Marriott) - 8:35 AM-10:00 AM

Presiding: Jenny Koebernick

8:35 AM Using the Cottongen Breeding Information Management System for Cotton Improvement

Jing Yu¹, Taein Lee¹, Sook Jung¹, Don Jones², B. Todd Campbell³, Ksenija Gasic⁴, Jodi Humann¹ and Dorrie Main¹, (1)Washington State University, Pullman, WA, (2)Cotton Incorporated, Cary, NC, (3)USDA-ARS, Florence, SC, (4)Clemson University, Clemson, SC

8:50 AM Reference-Grade Genome Assemblies Facilitate Exploitation of Favorable Genetic Variations Underlying the Development of Superior Cotton Fibers

Maojun Wang, USDA-ARS-SRRC, New Orleans, LA

9:05 AM Dissecting Quantitative Variation Introgressed into Upland Cotton Using QTL-Stacked Segregating Populations

Sameer Khanal¹, Peng Chee¹ and Andrew Paterson², (1)University of Georgia, Tifton, GA, (2)College of Agricultural and Environmental Sciences, The University of Georgia, Athens, GA

9:20 AM Characterization of Pentatricopeptide Repeat (PPR) Gene That Linked to Immature Fiber Phenotype

Hee Jin Kim¹, Marina Naoumkina², Gregory N. Thyssen², David D. Fang², Christopher Florane², Ping Li² and Christopher D. Delhom³, (1)USDA-ARS, Southern Regional Research Center, New Orleans, LA, (2)Cotton Fiber Bioscience Research Unit, USDA-ARS-SRRC, New Orleans, LA, (3)USDA-ARS Southern Regional Research Center, New Orleans, LA

9:35 AM Quantification of Leaf Wax and Cutin Compounds for Improved Drought Tolerance in Upland and Pima Cotton

Alison L. Thompson, USDA-ARS, Maricopa, AZ, Pernell Tomasi, USDA-ARS-ALARC, Maricopa, AZ and Matthew Jenks, University of Arizona, Tucson, AZ

COTTON GENETICS AWARD LECTURE

Galerie 2 (New Orleans Marriott) - 10:30 AM-11:00 AM

Presiding: Ramesh Buyyarapu

10:30 AM Introductory Remarks

10:35 AM Cotton - An Incredible, All Natural, and Sustainable Fiber
B. Todd Campbell, USDA-ARS, Florence, SC

COTTON IMPROVEMENT - AWARDS AND BUSINESS MEETING

Galerie 2(New Orleans Marriott) - 11:05 AM-12:00 PM

Presiding: Ramesh Buyyarapu

11:05 AM Introductory Remarks

11:10 AM Graduate Student Awards

11:20 AM 2019 Cotton Genetics Award

11:30 AM Business Meeting

Cotton Insect Research and Control Conference

Wednesday, January 9, 2019

COTTON INSECT RESEARCH & CONTROL ROUNDTABLE

Galerie 3 (New Orleans Marriott) - 11:00 AM-12:00 PM

Presidings: Nathan S. Little

Jeff Gore

COTTON INSECT RESEARCH & CONTROL - WEDNESDAY EARLY AFTERNOON - MS STUDENT PAPER COMPETITION

Preservation Hall Studios 7 - 8 (New Orleans Marriott) - 1:30 PM-3:15 PM

Presiding: Sebe Brown

1:30 PM Linking Cotton Fleahopper Spring Emergence to Local Environmental Factors

Kristin Lea Hamons¹, Gregory A. Sword², Charles P.-C. Suh³ and Thomas M. Chappell¹, (1)Texas A&M University, College Station, TX, (2)Texas A&M University, Dept. of Entomology, College Station, TX, (3)USDA-ARS ICCDRU, College Station, TX

1:45 PM Potential Insect Deterrence on Tri-Species Cotton Hybrids

Raven S. Allison¹, David Kerns¹, Charles P.-C. Suh² and Alois A. Bell², (1)Texas A&M University, College Station, TX, (2)USDA-ARS ICCDRU, College Station, TX

2:00 PM Brown Stink Bug, *Euschistus servus*, Management Thresholds for Seedling and Grain Developing Maize in Southeastern Virginia

Tim Bryant¹, Sally Taylor¹ and Roger Schurch², (1)Virginia Tech, Suffolk, VA, (2)Virginia Tech, Blacksburg, VA

2:15 PM Effects of Bt Expression on Bollworm Distribution in the Cotton Canopy

Dawson Kerns and Scott D. Stewart, The University of Tennessee, Jackson, TN

2:30 PM Refinement and Validation of Soybean Looper Threshold in Mississippi Soybeans

Mary K. Huff¹, Don Cook¹, Jeff Gore¹, Angus Catchot², Fred Musser² and Trent Irby², (1)Mississippi State University, Stoneville, MS, (2)Mississippi State University, Mississippi State, MS

2:45 PM Bollworm Damage and Behavior in Bt Cotton

Russ Godbold¹, Jeff Gore², Fred Musser³, Don Cook² and Angus Catchot³, (1)Mississippi State University, Department of Biochemistry, Molecular Biology, Entomology, and Plant Pathology, Starkville, MS, (2)Mississippi State University, Stoneville, MS, (3)Mississippi State University, Mississippi State, MS

3:00 PM Susceptibility of Fall Armyworm Genotypes Carrying Vip3A Resistant Alleles, to Bt Plants and Purified Bt Proteins

Tyler Gilreath¹, David Kerns¹, Fei Yang¹ and Shannon Morsello², (1)Texas A&M University, College Station, TX, (2)North Carolina State University, Raleigh, NC

COTTON INSECT RESEARCH & CONTROL - WEDNESDAY EARLY AFTERNOON - PHD STUDENT PAPER COMPETITION

Galerie 3 (New Orleans Marriott) - 1:30 PM-3:15 PM

Presiding: Benjamin C Thrash

1:30 PM Relating Rice Stink Bug, Oebalus Pugnax, Sampling to Direct and Indirect Yield Loss in Rice

Aaron Cato¹, **Gus Lorenz**², Nick R. Bateman³, Jarrod Hardke⁴, Benjamin C Thrash⁵, Tara Clayton⁴, Nichole Taillon⁶, Andrew Plummer⁶, Kevin McPherson⁵ and Layton D McCullars¹, (1)University of Arkansas, Fayetteville, AR, (2) The University of Arkansas, Lonoke, AR, (3)University of Arkansas - RREC, Stuttgart, AR, (4)University of Arkansas-RREC, Stuttgart, AR, (5)University of Arkansas, Lonoke, AR, (6)University of Arkansas CES, Lonoke, AR

1:45 PM Landscape and Climatic Factors Affecting Tarnished Plant Bug (*Lygus lineolaris*) Infestations in Mid-Atlantic Cotton Systems

Seth Dorman¹, Sally Taylor¹ and Roger Schuerch², (1)Virginia Tech, Suffolk, VA, (2)Virginia Polytechnic Institute and State University, Blacksburg, VA

2:00 PM Interplay between Cotton, Native Bees, and the Surrounding Landscape: Reciprocal Benefits to Cotton and Bee Pollinators

Isaac L. Esquivel¹, Karen W. Wright², Michael J. Brewer¹ and Robert Coulson³, (1)Texas A&M AgriLife Research, Department of Entomology, Corpus Christi, TX, (2)Texas A&M University Insect Collection, College Station, TX, (3) Texas A&M University, College Station, TX

2:15 PM Rearing Climate Can Alter Predator Foraging Rates in Novel Environments

Cori Speights¹, Angus Catchot² and Brandon Barton², (1)Mississippi State University, Department of Biochemistry, Molecular Biology, Entomology, and Plant Pathology, Starkville, MS, (2)Mississippi State University, Mississippi State, MS

2:30 PM Identification of Resistance Alleles to Bt Proteins in *Helicoverpa Zea*

Jose C. Santiago Gonzalez, Texas A&M University-Entomology. Dr. David Kerns Entomology Research Program, College Station, TX

2:45 PM Landscape Level Contributions of *Helicoverpa Zea* in Mississippi Corn

Tyler B Towles¹, Angus Catchot², Jeff Gore³, Don Cook³, Mike Caprio¹ and Chris Daves⁴, (1)Mississippi State University, Starkville, MS, (2)Mississippi State University, Mississippi State, MS, (3)Mississippi State University, Stoneville, MS, (4)Monsanto, Coila, MS

3:00 PM Fungal Endophyte Seed Treatments Enhance Defensive Volatile Emissions and Alter Stink Bug Olfactory Preference

Cody Gale, Texas A&M University, College Station, TX, Charles P.-C. Suh, USDA-ARS ICCDRU, College Station, TX, Michael V Kolomiets, Texas A&M Plant Pathology Department, College Station, TX and Gregory A. Sword, Texas A&M University, Dept. of Entomology, College Station, TX

COTTON INSECT RESEARCH & CONTROL - WEDNESDAY

LATE AFTERNOON - MS STUDENT PAPER COMPETITION (CONTINUED)

Preservation Hall Studios 7 - 8 (New Orleans Marriott) - 4:00 PM-5:30 PM

Presiding: Kerry Clint Allen

4:00 PM The Impact of Brown Stink Bug, *Euschistus Servus*, Damage on Early Vegetative Stage Field Corn Yield

William Hardman¹, Don Cook¹, Jeff Gore¹, Angus Catchot² and Brien Henry², (1)Mississippi State University, Stoneville, MS, (2)Mississippi State University, Mississippi State, MS

4:15 PM The Impact of Fall Armyworm, *Spodoptera Frugiperda*, on Growth and Yield of Rice

Layton D McCullars¹, Gus Lorenz², Nick R. Bateman³, Jarrod Hardke⁴, Aaron Cato¹, Benjamin C Thrash⁵, Nichole Taillon⁶, Kevin McPherson⁵, Tara Clayton⁴, Andrew Plummer⁶ and Garrett Felts⁷, (1)University of Arkansas, Fayetteville, AR, (2)The University of Arkansas, Lonoke, AR, (3)University of Arkansas - RREC, Stuttgart, AR, (4)University of Arkansas-RREC, Stuttgart, AR, (5) University of Arkansas, Lonoke, AR, (6)University of Arkansas CES, Lonoke, AR, (7)University of Arkansas- RREC, Stuttgart, AR

4:30 PM Evaluation of the Rainfastness of Selected Insecticides in Cotton

Sara Barrett¹, Jeff Gore², Angus Catchot³ and Don Cook², (1)Mississippi State University, Department of Biochemistry, Molecular Biology, Entomology, and Plant Pathology, Starkville, MS, (2)Mississippi State University, Stoneville, MS, (3)Mississippi State University, Mississippi State, MS

4:45 PM Dancing Bees Communicate Foraging Preferences in Row Crop Production Systems

Mary Silliman¹, Sally Taylor², Roger Schuerch¹ and Margaret Couvillon¹, (1) Virginia Polytechnic Institute and State University, Blacksburg, VA, (2)Virginia Tech, Suffolk, VA

5:00 PM Defining Bee Pollinator Community Composition Found in Tennessee Soybean

Andrew L Lawson, University of Tennessee, Knoxville, TN, Scott D. Stewart, The University of Tennessee, Jackson, TN and Katherine A. Parys, USDA-ARS SIMRU, Stoneville, MS

5:15 PM Impact of Novaluron on Ovarian Development and Maturation in the Tarnished Plant Bug

Beverly D. Catchot¹, Fred Musser¹, Jeff Gore², Ryan Jackson³ and Natraj Krishnan¹, (1)Mississippi State University, Mississippi State, MS, (2)Mississippi State University, Stoneville, MS, (3)Syngenta, Greensboro, NC

COTTON INSECT RESEARCH & CONTROL - WEDNESDAY LATE AFTERNOON - PHD STUDENT PAPER COMPETITION (CONTINUED)

Galerie 3 (New Orleans Marriott) - 4:00 PM-5:30 PM

Presiding: Fred Musser

4:00 PM Evaluating Thresholds for Caterpillar Pests of Peanut

Brittany E. Lipsey¹, Jeff Gore², Angus Catchot¹, Don Cook², Jason Sarver¹ and Jason A. Bond³, (1)Mississippi State University, Mississippi State, MS, (2) Mississippi State University, Stoneville, MS, (3)Mississippi State, Stoneville, MS

4:15 PM Photoperiod-Specific within-Cotton Distribution of the Green Stink Bug (*Hemiptera: Pentatomidae*): Implications for Detection and Sampling

James P. Glover¹, Michael J. Brewer¹, Gregory A. Sword² and Micky D. Eubanks², (1)Texas A&M AgriLife Research, Department of Entomology, Corpus Christi, TX, (2)Texas A&M University, Dept. of Entomology, College Station, TX

4:30 PM Arizona Pink Bollworm Eradication Program 2018 Update

Leighton R. Liesner, Donna Fairchild and Joahna Brengle, Arizona Cotton Research and Protection Council, Phoenix, AZ

4:45 PM Boll Injury Caused by Leaffooted Bug in Late-Season Cotton

Michael J. Brewer and James P. Glover, Texas A&M AgriLife Research, Department of Entomology, Corpus Christi, TX

5:00 PM Pest Management Considerations in Midsouth Cotton Production Systems That Incorporate Soil & Water Conservation Practices

Tina Gray Teague, Arkansas State University / University of Arkansas Experiment Station, State University, AR

COTTON INSECT RESEARCH & CONTROL BUSINESS MEETING AND MIXER

Galerie 3 (New Orleans Marriott) - 5:45 PM-7:00 PM

Presidings: Jeff Gore

Nathan S. Little

Thursday, January 10, 2019

COTTON INSECT RESEARCH & CONTROL - THURSDAY EARLY MORNING - SESSION A

Galerie 3 (New Orleans Marriott) - 8:00 AM-10:30 AM

Presiding: Cori Speights

8:00 AM Temporal Distribution and Abundance of Whiteflies in Georgia

Apurba K Barman, Phillip M. Roberts, Alton N Sparks and Michael D. Toews, University of Georgia, Tifton, GA

8:15 AM Early-Season Insect Management in Dryland Cotton in the Texas High Plains

Abdul Hakeem¹, Megha N. Parajulee², Katie L. Lewis² and Suhas Vyavhare³, (1)Texas A&M AgriLife Research, Department of Entomology, Lubbock, TX, (2)Texas A&M AgriLife Research and Extension Center, Lubbock, TX, (3)Texas A&M AgriLife Extension Service, Lubbock, TX

8:30 AM Influence of Nozzle Type on Thrips Control with Selected Insecticides

Phillip M. Roberts, Trey Portier, Mark Abney and Michael D. Toews, University of Georgia, Tifton, GA

8:45 AM Controlling Thrips in Arkansas Cotton

Nichole Taillon¹, Gus Lorenz², Benjamin C Thrash³, Nick R. Bateman⁴, Andrew Plummer¹, Kevin McPherson³ and Aaron Cato⁵, (1)University of Arkansas CES, Lonoke, AR, (2)The University of Arkansas, Lonoke, AR, (3)University of Arkansas, Lonoke, AR, (4)University of Arkansas - RREC, Stuttgart, AR, (5) University of Arkansas, Fayetteville, AR

9:00 AM Thrips Management in Mid-South Cotton

Don Cook¹, Scott D. Stewart², Jeff Gore¹, Gus Lorenz³, Angus Catchot⁴, David Kerns⁵, Sebe Brown⁶, Glenn Studebaker⁷ and Nick R. Bateman⁸, (1)Mississippi State University, Stoneville, MS, (2)The University of Tennessee, Jackson, TN, (3)The University of Arkansas, Lonoke, AR, (4)Mississippi State University, Mississippi State, MS, (5)Texas A&M University, College Station, TX, (6)LSU AgCenter, Winnsboro, LA, (7)University of Arkansas, Keiser, AR, (8)University of Arkansas - RREC, Stuttgart, AR

9:15 AM Global Overview of Isoclast Performance in Cotton

Jesse Richardson, Corteva Agriscience, Indianapolis, IN, Robert Annetts, Corteva Agriscience, Frenchs Forest, NSW, Australia, Aris Chloridis, Corteva Agriscience, Thessaloniki, Greece, Ramesh Kaliaperumal, Corteva Agriscience, Coimbatore -Tamali Nadu, India, Carlos Vassallo, Corteva Agriscience, Buenos Aires, Argentina, Larry C Walton, Corteva Agriscience, Tupelo, MS and Shine Taylor, Corteva Agriscience, Bradenton, FL

9:30 AM Changes in Plant Bug Insecticide Efficacy over 14 Years in Arkansas

Benjamin C Thrash¹, Gus Lorenz², Nick R. Bateman³, Nichole Taillon⁴, Andrew Plummer⁴, Kevin McPherson¹ and Aaron Cato⁵, (1)University of Arkansas, Lonoke, AR, (2)The University of Arkansas, Lonoke, AR, (3)University of Arkansas - RREC, Stuttgart, AR, (4)University of Arkansas CES, Lonoke, AR, (5)University of Arkansas, Fayetteville, AR

9:45 AM Evaluation of Insecticide Application Intervals to Optimize Tarnished Plant Bug Control

Jeff Gore¹, Scott D. Stewart², Angus Catchot³, Gus Lorenz⁴, Sebe Brown⁵, Glenn Studebaker⁶, Don Cook¹, Nick R. Bateman⁷ and Benjamin C Thrash⁸, (1)Mississippi State University, Stoneville, MS, (2)The University of Tennessee, Jackson, TN, (3)Mississippi State University, Mississippi State, MS, (4)The University of Arkansas, Lonoke, AR, (5)LSU AgCenter, Winnsboro, LA, (6)University of Arkansas, Keiser, AR, (7)University of Arkansas - RREC, Stuttgart, AR, (8)University of Arkansas, Lonoke, AR

10:00 AM Biology, Ecology, and Management of the Cotton Aphid in the Southeastern U.S. and Status as a Vector of Cotton Blue Disease

Alana Lynn Jacobson, Auburn University, Auburn, AL

10:15 AM Remote Sensing of Woolly Croton Using Manned and Unmanned Aerial Imaging Systems

Chenghai Yang¹, Charles P.-C. Suh², Ritchie S. Eyster² and Kristin Lea Hamons³, (1)USDA-ARS, College Station, TX, (2)USDA-ARS ICCDRU, College Station, TX, (3)Texas A&M University, College Station, TX

COTTON INSECT RESEARCH & CONTROL - THURSDAY EARLY MORNING - SESSION B

Preservation Hall Studios 7 - 8 (New Orleans Marriott) - 8:00 AM-10:30 AM

Presiding: Brittany E. Lipsey

8:00 AM Survival of *Pectinophora Gossypiella* (Saunders) on Transgenic Cotton Crop in Pakistan. Is It Resistance Development, Impact of High Temperature or Mixture of Non Bt. Cotton?

Shafqat Saeed, Rao Shamraiz, Muhammad Nasir and Muhammad Ishtiaq, MNS University of Agriculture, Multan, Pakistan

8:15 AM Efficacy of Selected Insecticides for Control of *Helicoverpa Zea* in Non-Bt Cotton

Andrew Plummer¹, Gus Lorenz², Benjamin C Thrash³, Nichole Taillon¹, Nick R. Bateman⁴, Kevin McPherson³ and Aaron Cato⁵, (1)University of Arkansas CES, Lonoke, AR, (2)The University of Arkansas, Lonoke, AR, (3)University of Arkansas, Lonoke, AR, (4)University of Arkansas - RREC, Stuttgart, AR, (5)University of Arkansas, Fayetteville, AR

8:30 AM Response of *Helicoverpa Zea* to Diet-Overlay Bt Toxins and Cotton Bt Traits Field Performance in Texas and the Mid-South

David Kerns¹, Fei Yang¹, Jeff Gore², Scott D. Stewart³, Angus Catchot⁴, Gus Lorenz⁵, Sebe Brown⁶ and Don Cook², (1)Texas A&M University, College Station, TX, (2)Mississippi State University, Stoneville, MS, (3)The University of Tennessee, Jackson, TN, (4)Mississippi State University, Mississippi State, MS, (5)The University of Arkansas, Lonoke, AR, (6)LSU AgCenter, Winnsboro, LA

8:45 AM Performance of Field Populations of *Helicoverpa Zea* Against Pyramided Bt Corn and Purified Vip3Aa1 Protein

Fei Yang and David Kerns, Texas A&M University, College Station, TX

9:00 AM Cotton Bollworm Control with Bt Cotton

Stephen Biles, Texas A&M Agrilife Extension Service, Port Lavaca, TX, Kate Harrell, Texas A&M AgriLife Extension Service, Wharton, TX, David Kerns, Texas A&M University, College Station, TX, David R. Drake, Texas A&M AgriLife Extension Service, Commerce, TX, D. Tyler Mays, Texas A&M AgriLife Extension Service, Brownfield, TX and Jane Pierce, New Mexico State University, Las Cruces, NM

9:15 AM Efficacy and Field Performance of Bt Cotton in Louisiana

Sebe Brown¹, Wade Walker¹, Cory Lee Cole² and David Kerns³, (1)LSU AgCenter, Winnsboro, LA, (2)LSU AgCenter, Kenner, LA, (3)Texas A&M University, College Station, TX

9:30 AM Caterpillar Microbiome in Conventional Versus Widestrike Cotton

R. Michael Roe¹, Jean Marcel Deguenon¹, Nicholas V. Travanty¹, Anirudh Dhammi¹, Loganathan Ponnusamy¹, Dan Mott¹, Dominic Reisig² and Ryan W Kurtz³, (1)North Carolina State University, Raleigh, NC, (2)North Carolina State University, Plymouth, NC, (3)Cotton Incorporated, Cary, NC

9:45 AM The Moving Target of Managing Bt Resistant Bollworm in Cotton

Dominic Reisig, North Carolina State University, Plymouth, NC, Jeremy K. Greene, Clemson University, Blackville, SC and Phillip M. Roberts, University of Georgia, Tifton, GA

10:00 AM Laboratory Susceptibilities of Bollworm and Tobacco Budworm Populations from the Mississippi Delta to Diamide Insecticides

Kerry Clint Allen and Nathan S. Little, USDA-ARS SIMRU, Stoneville, MS

10:15 AM Insecticide Resistance Monitoring Update: Bollworms, Loopers, and Tarnished Plant Bugs

Fred Musser and Beverly D. Catchot, Mississippi State University, Mississippi State, MS

Cotton Quality Measurements Conference

Wednesday, January 9, 2019

COTTON QUALITY MEASUREMENTS - WEDNESDAY LATE AFTERNOON

Galerie 4 (New Orleans Marriott) - 3:30 PM-5:45 PM

3:30 PM HVI Elongation: Laying the Foundations for a New Fiber Quality Measurement

Brendan Kelly and Eric F. Hequet, Texas Tech University, Lubbock, TX

3:45 PM HVI Elongation Round Trial Results

Christopher D. Delhom¹, Eric F. Hequet², Brendan Kelly² and Vikki B. Martin³, (1)USDA-ARS Southern Regional Research Center, New Orleans, LA, (2) Texas Tech University, Lubbock, TX, (3)Cotton Incorporated, Cary, NC

4:00 PM Analysis of Results from the National Cotton Variety Testing Program

Devron P. Thibodeaux¹, Christopher D. Delhom² and Michael K. Dowd², (1) Fiber Physics, LLC, Pickens, SC, (2)USDA-ARS Southern Regional Research Center, New Orleans, LA

4:15 PM Validation of Dual-Beard Fibrography for Cotton Length Distribution Measurement

Bugao Xu, Jinfeng Zhou and Jinliang Wei, University of North Texas, Denton, TX

4:30 PM Calibration of the High Volume Instrument with the Whole Fibrogram

Md Abu Sayeed, **Brendan Kelly** and Eric F. Hequet, Texas Tech University, Lubbock, TX

4:45 PM Preliminary Results of How Conventional and Experimental Lint Cleaning Processes Affect Fiber Length Uniformity Index

Carlos B. Armijo¹, Christopher D. Delhom², Derek P. Whitelock¹, Paul A. Funk¹, John D. Wanjura³, Gregory A. Holt⁴, Ruixiu Sui⁵, Vikki B. Martin⁶ and Neha Kothari⁶, (1)USDA-ARS Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM, (2)USDA-ARS Southern Regional Research Center, New Orleans, LA, (3)USDA-ARS Cotton Production and Processing Research Unit, Lubbock, TX, (4)USDA ARS, Lubbock, TX, (5)USDA-ARS, Stoneville, MS, (6)Cotton Incorporated, Cary, NC

5:00 PM Differentiation of Immature Fiber Mutant and Texas Marker-1 Cotton Fibers by the Use of ATR FT-IR Spectroscopy

Yongliang Liu, USDA-ARS, New Orleans, LA and Hee Jin Kim, USDA-ARS, Southern Regional Research Center, New Orleans, LA

5:15 PM Calculating Infrared Maturity Indexes for Cotton Using a Focal Plane Array Detector

Michael Santiago Cintron, USDA, New Orleans, LA and Terri Von Hoven, USDA-ARS-SRRC, New Orleans, LA

5:30 PM Relationships between Upland Cotton HVI and AFIS Measurements Versus Fiber Surface Amino Acid Content and +b Values

Donna V. Peralta, ARS-USDA, New Orleans, LA

Cotton Utilization Conference

Wednesday, January 9, 2019

COTTON UTILIZATION

Galerie 4 (New Orleans Marriott) - 10:30 AM-12:00 PM

Official: Mourad Krifa

10:30 AM Cotton-Containing Nonwoven Wipes for Use in Specialty Applications and Enhanced Cleaning Efficiency

Rebecca Hron¹, Doug Hinchliffe¹, Brian D Condon¹, Chris Mattison¹, Michael Santiago Cintron², Terri Von Hoven¹, Crista Madison³ and Michael Reynolds¹, (1)USDA-ARS-SRRC, New Orleans, LA, (2)USDA, New Orleans, LA, (3)Cotton Chemistry and Utilization Research Unit, USDA ARS, New Orleans, LA

10:45 AM Developing Nonwoven Cotton Materials As Prolonged Battlefield Care Dressings

J. Vincent Edwards, Graves Elena and Nicolette Prevost, SRRC, New Orleans, LA

11:00 AM Characterization of Defatted Cottonseed Meal-Based Biochar and Bio-Oil

Zhongqi He, USDA-ARS-SRRC, New Orleans, LA and Mingxin Guo, Dept. of Agriculture & Natural Resources, Dover, DE

11:15 AM Bioactive Compounds from Glanded and Glandless Cottonseeds

Heping Cao and Kandan Sethumadhavan, USDA-ARS-SRRC, New Orleans, LA

11:30 AM Surface-Enhanced Raman Spectroscopy for Quantifying Silver Nanoparticles in Cotton Textiles

Matthew B Hillyer¹, Sunghyun Nam¹, Brian D Condon¹, Huiyuan Guo², Lili He² and Michael Reynolds¹, (1)USDA-ARS-SRRC, New Orleans, LA, (2)University of Massachusetts Amherst, Amherst, MA

PERSPECTIVES ON COTTON COMPETITIVENESS

Galerie 4 (New Orleans Marriott) - 1:30 PM-3:00 PM

Officials: Mourad Krifa

Christopher D. Delhom

1:30 PM Introductory Remarks

1:40 PM From the Laundry to the Ocean: A Study on Fabric Shedding and Fiber Degradation

Marielis Zambrano¹, Richard Venditti¹, Joel Pawlak¹, **Mary Ankeny**², Jesse Daystar² and Jay Cheng¹, (1)North Carolina State University, Raleigh, NC, (2) Cotton Incorporated, Cary, NC

2:10 PM Cotton Utilization in Nano-Enhanced Textiles

Mourad Krifa, Kent State University, Kent, OH

2:30 PM Durability of Silver Nanoparticles Dispersed into Cotton Fiber during Consecutive Laundering

Sunghyun Nam, Matthew B Hillyer, Brian D Condon and Michael Reynolds, USDA-ARS-SRRC, New Orleans, LA

Cotton Weed Science Research Conference

Wednesday, January 9, 2019

COTTON WEED SCIENCE RESEARCH - WEDNESDAY EARLY MORNING

Mardi Gras Ballroom Salons A - C (New Orleans Marriott) - 8:25 AM-10:00 AM

8:25 AM Welcoming Remarks

8:30 AM Tolerance of XtendFlex and Enlist Cotton Varieties to Inter-moc

Hannah Wright¹, Jason Norsworthy¹, Jacob T. Richburg¹ and Tom Barber², (1)University of Arkansas, Fayetteville, AR, (2)University of Arkansas-Extension, Lonoke, AR

8:45 AM Non-Dicamba Tolerant Cotton Response to Low Rates of Dicamba

Kyle Russell, Texas A&M AgriLife Research, Lubbock, TX, Peter A. Dotray, Texas Tech University, Texas A&M AgriLife Research and Extension Service, Lubbock, TX and Glen Ritchie, Texas Tech University, Lubbock, TX

9:00 AM Weed Management in Conventional and Conservation Tillage Systems with Bollgard II Xtendflex Cotton

C.D. Ray White, Texas A&M AgriLife Research, Lubbock, TX, J. Wayne Keeling, Texas A&M AgriLife Research and Extension Center, Lubbock, TX and Peter A. Dotray, Texas Tech University, Texas A&M AgriLife Research and Extension Service, Lubbock, TX

9:15 AM Evaluation of Brake in Combination with Cotoran or Reflex in Cotton

Jacob T. Richburg¹, Jason K Norsworthy¹, Mason Castner¹, Zachary D. Lancaster¹ and Tom Barber², (1)University of Arkansas, Fayetteville, AR, (2) University of Arkansas-Extension, Lonoke, AR

9:30 AM Does See and Spray Technology Reduce Off-Target Movement of Dicamba?

Zachary D. Lancaster¹, Jason K Norsworthy¹, Jacob T. Richburg¹, Michael Houston¹ and Tom Barber², (1)University of Arkansas, Fayetteville, AR, (2) University of Arkansas-Extension, Lonoke, AR

9:45 AM Cotton Weed Control Is Impacted By Interval between Sequential Glufosinate Applications

Taylor M Randell, Lavesta C Hand, Jenna C Vance and A. Stanley Culpepper, University of Georgia, Tifton, GA

COTTON WEED SCIENCE RESEARCH - WEDNESDAY LATE MORNING

Mardi Gras Ballroom Salons A - C (New Orleans Marriott) - 10:30 AM-12:00 PM

10:30 AM Is Volatility of Enlist One a Likely Cause of Injury to Non-Enlist Cotton?

Lawson Priess¹, Jason Norsworthy¹, Tom Barber², Zachary D. Lancaster¹ and Thomas C Mueller³, (1)University of Arkansas, Fayetteville, AR, (2)University of Arkansas-Extension, Lonoke, AR, (3)University of Tennessee, Knoxville, TN, TN

10:45 AM Comparison of Early-Season Weed Control Programs in Xtendflex Cotton

Jake A Patterson¹, Jason Norsworthy¹, Zachary D. Lancaster¹, Jacob T. Richburg¹ and Tom Barber², (1)University of Arkansas, Fayetteville, AR, (2) University of Arkansas-Extension, Lonoke, AR

11:00 AM Droplet Size Impact on Acifluorfen and Lactofen Efficacy for Palmer Amaranth (*Amaranthus palmeri*) Control

Lucas Xavier Franca¹, Darrin M. Dodds¹, Greg Kruger², Thomas Butts³, Jacob P. McNeal¹, Savana Davis¹, Bradley Norris¹ and John J Williams¹, (1)Mississippi State University, Mississippi State, MS, (2)University of Nebraska, North Platte, NE, (3)University of Nebraska-Lincoln, North Platte, NE

11:15 AM Options for Controlling PPO-Resistant Palmer Amaranth Preemergence in Cotton

Wyatt Coffman¹, Tom Barber², Jason Norsworthy¹, Lawson Priess¹ and Hannah Wright¹, (1)University of Arkansas, Fayetteville, AR, (2)University of Arkansas-Extension, Lonoke, AR

11:30 AM Efficacy of Brake Applied Alone and in Combination with Other Residual Herbicides in Cotton

Mason Castner¹, Jason K Norsworthy¹, Zachary D. Lancaster¹, Jacob T. Richburg¹ and Tom Barber², (1)University of Arkansas, Fayetteville, AR, (2) University of Arkansas-Extension, Lonoke, AR

COTTON WEED SCIENCE RESEARCH - WEDNESDAY EARLY AFTER-NOON

Mardi Gras Ballroom Salons A - C (New Orleans Marriott) - 1:00 PM-2:30 PM

Official: Seth A. Byrd

1:00 PM Response of Cotton to Low Rates of Engenia at Different Growth Stages

John W Seale, Taghi Bararpour, Ralph R. Hale, Jeff Gore and Don Cook, Mississippi State University, Stoneville, MS

1:15 PM Cotton Tolerance to Metribuzin

Jeremy M. Kichler, University of Georgia Cooperative Extension, Moultrie, GA and A. Stanley Culpepper, University of Georgia, Tifton, GA

1:30 PM Effect of Nozzle Selection on Weed Control and Yield in Mississippi Cotton

Connor Ferguson¹, Pedro Urach Ferreira¹, Michael Wesley¹, Luke Merritt¹, Zach Treadway¹, Kayla Broster¹ and Nick Fleitz², (1)Mississippi State University, Mississippi State, MS, (2)Pentair-Hypro, New Brighton, MN

1:45 PM Reducing Spray Drift and Increasing Spray Days with Redball-Hooded Sprayers - a Drift Comparison of a Redball-Hooded Boom Versus an Open Boom, and an Overview of Available Legal Spray Days in 2018

Steve Claussen, Willmar Fabrication, LLC, Benson, MN

2:00 PM Plant-Back Interval for Elevore and Quelex Prior to Planting Cotton

Charlie Cahoon, North Carolina State University, Raleigh, NC, Alan York, NC State University, Raleigh, NC, Carter Askew, Virginia Tech, Painter, VA and Michael Flessner, Virginia Polytechnic Institute & State University, Blacksburg, VA

2:15 PM Optimizing Chloroacetamide Placement in Dicamba-Resistant Cotton Production Systems

John T. Buol¹, Lucas Xavier Franca¹, Daniel B. Reynolds¹, Darrin M. Dodds¹ and J. Anthony Mills², (1)Mississippi State University, Mississippi State, MS, (2)Bayer U.S., Collierville, TN

Thursday, January 10, 2019

COTTON WEED SCIENCE RESEARCH - GRADUATE STUDENT AWARDS

Mardi Gras Ballroom Salons A - C (New Orleans Marriott) - 9:30 AM-10:00 AM

Technical Conferences Poster Board Session

Wednesday, January 9, 2019, 8:00 AM - 10:00 PM

Thursday, January 10, 2019, 8:00 AM - 12:00 PM

Mardi Gras Ballroom Salons E - H

POSTERS WILL BE ON DISPLAY IN MARDI GRAS BALLROOM
SALONS E-H FOR THE FOLLOWING:

Cotton Agronomy, Physiology & Soil Conference Posters

- Varietal Mixture in Cotton with Emphasis on Yield and Economic Stability**
Blake L. Szilvay¹, Keith L. Edmisten¹, Guy D. Collins², Jared R. Whitaker³ and Randy Wells¹, (1)North Carolina State University, Raleigh, NC, (2)North Carolina State University, Rocky Mount, NC, (3) University of Georgia, Tifton, GA
- Cotton Seedling Vigor as Affected by First True Leaf Physiology Under Different Field Conditions**
Gurpreet Virk, John L. Snider and Cristiane Pilon, University of Georgia, Tifton, GA
- Effect of Various Cover Crop Species on Water Infiltration and Bulk Density**
Savana Davis, Darrin M. Dodds, Lucas Xavier Franca, Bradley R. Wilson, Jacob P. McNeal, Bradley Norris and John J Williams, Mississippi State University, Mississippi State, MS
- Days and DD60s to Key Growth Stages in Modern Cultivars of Varying Maturities**
Cheyenne Williams, Tyson B Raper and Shawn Butler, University of Tennessee, Jackson, TN
- Evaluation of Planter Attachments to Maximize the Likelihood of Establishing Profitable Cotton Stands in High Biomass Cover Crops**
Freeman Brown, Tyson B Raper and Shawn Butler, University of Tennessee, Jackson, TN
- Managing Small Grain Cover Crops in Texas High Plains Cotton**
C.D. Ray White¹, Katie L. Lewis² and J. Wayne Keeling², (1)Texas A&M AgriLife Research, Lubbock, TX, (2)Texas A&M AgriLife Research and Extension Center, Lubbock, TX
- Efficacy of Recovery Sprays to Auxin Injury**
James A. Griffin, Texas A&M Cotton Extension, College Station, TX, Gaylon Morgan, Texas A&M AgriLife Extension Service, College Station, TX, Seth A. Byrd, Oklahoma State University - Southwest Research and Extension Center, Stillwater, OK and Glen Ritchie, Texas Tech University, Lubbock, TX
- Evaluating Winter Cover Crops on Cotton Performance**
Dorothy Menefee and Nithya Rajan, Texas A&M University, College Station, TX
- Rapid a-Ci Response (RACiR) of Two Gossypium Species Under Drought Conditions**
Bhupinder Singh¹, Daryl Chastain¹ and John L. Snider², (1)Mississippi State University, Stoneville, MS, (2)University of Georgia, Tifton, GA

10. **Effect of Nitrogen Fertilizer Rates on Cotton (*Gossypium hirsutum*) Variety Performance**
John J Williams¹, Darrin M. Dodds¹, Sterling Brooks Blanche², Lucas Xavier Franca¹, Jacob P. McNeal¹, Savana Davis¹ and Bradley Norris¹, (1)Mississippi State University, Mississippi State, MS, (2)Phytogen Cottonseed, Saint Joseph, LA
11. **Comparison of Soil and Foliar Applied Potassium Fertilizer in Cotton**
Ciera Ware, Texas A&M Research, Lubbock, TX, Katie L. Lewis, Texas A&M AgriLife Research and Extension Center, Lubbock, TX, Ameer Bumguardner, Texas Tech University, Lubbock, TX, Dustin Kelley, Texas A&M AgriLife Research, Lubbock, TX and Tommy Roach, Nachurs Alpine Solutions, Marion, OH
12. **Cotton and Sorghum Intercropping**
Kirby Luth and Glen Ritchie, Texas Tech University, Lubbock, TX
13. **Impact of Variety Selection and PGR Strategy on Cotton Performance in the Texas High Plains**
Robert Wright¹, Seth A. Byrd², Ameer Bumguardner¹ and John D. Wanjura³, (1)Texas Tech University, Lubbock, TX, (2)Oklahoma State University - Southwest Research and Extension Center, Stillwater, OK, (3)USDA-ARS Cotton Production and Processing Research Unit, Lubbock, TX
14. **Chlorophyll Fluorescence Parameters as Rapid Indicators of Cotton Seedling Vigor Under Contrasting Growth Temperature Regimes**
John L. Snider¹, Nuengsap Thangthong¹, Cristiane Pilon¹, Gurpreet Virk¹ and Viktor Tishchenko², (1)University of Georgia, Tifton, GA, (2) University of Georgia, Griffin, GA
15. **Influence of Bollworm Management on Variety Selection in NC**
Guy D. Collins¹, Dominic Reisig², Anders S. Huseth³, Keith L. Edmisten³ and Blake L. Szilvay³, (1)NC State University, Rocky Mount, NC, (2)North Carolina State University, Plymouth, NC, (3)North Carolina State University, Raleigh, NC
16. **Screening and Verification of Cotton (*Gossypium hirsutum* L.) Cultivars for Low-Phosphorus and the Critical Phosphorus Rate**
Zhiguo Zhou and Huijie Li, Nanjing Agricultural University, Nanjing, China
17. **Using NDVI for Variable Rate Irrigation Prescriptions**
Philip J. Bauer and Kenneth C. Stone, USDA-ARS, Florence, SC
18. **Premier Cotton Education -- Varieties and Pre-Plant Considerations**
Danny J Nusser, Texas A&M AgriLife Extension, Amarillo, TX
19. **Evaluation of NemaStrike for Control of Nematodes in NC Cotton**
Craig Ellison, NC State University, Jackson, NC, Guy D. Collins, NC State University, Rocky Mount, NC, Lindsey D. Thiessen, NC State University, Raleigh, NC and Keith L. Edmisten, North Carolina State University, Raleigh, NC
20. **Evaluation of Fungicide Applications for Control of Target Spot in NC**
Tim Britton, NC State University, Smithfield, NC, Guy D. Collins, NC State University, Rocky Mount, NC, Lindsey D. Thiessen, NC State University, Raleigh, NC and Keith L. Edmisten, North Carolina State University, Raleigh, NC
21. **Comparison of the Water Use Dynamics of Cotton Grown with Sorghum Under Deficit Irrigation**
Irish Lorraine B Pabuayon, Sukhbir Singh and Glen Ritchie, Texas Tech University, Lubbock, TX

22. **Evaluation of Root-Knot Nematode Resistant Cotton Varieties in East Georgia**
Mark Freeman, UGA, Statesboro, GA, Peyton Sapp, University of Georgia Cooperative Extension, Waynesboro, GA and Katie Burch, UGA Extension Burke County, Waynesboro, GA
23. **Changes in Boll Development, Yield, and Fiber Quality of Commercial Cotton Varieties over Time Based on Date of Release**
Michael A. Jones, Clemson University, Florence, SC and Randy Wells, North Carolina State University, Raleigh, NC
24. **Evaluation of a Next Generation Humic Acid Formulation**
Benjamin Wiggins, Helena Agri Enterprises LLC, Memphis, TN
25. **Evaluating Seeding Rates of Cotton Planted in 30" Rows in Georgia**
Mark Freeman, UGA, Statesboro, GA and Brent Allen, University of Georgia, Sandersville, GA
26. **Evaluation of New Variety Response to PGR Management**
Mark Freeman, UGA, Statesboro, GA and Jared R. Whitaker, University of Georgia, Tifton, GA
27. **Cotton Harvest Timing Impacts on Yield and Quality**
Mark Freeman, UGA, Statesboro, GA and Jared R. Whitaker, University of Georgia, Tifton, GA
28. **2018 Texas Upper Gulf Coast Replicated Agronomic Cotton Evaluation (RACE) - Trial Summary**
Dale A. Mott and Gaylon Morgan, Texas A&M AgriLife Extension Service, College Station, TX
29. **Cover Crop Impacts on Soil Microbial Properties in Cotton Cropping Systems**
Partson Mubvumba, Paul DeLaune, Charles Coufal and Anthony Pennartz, Texas A&M AgriLife Research, Vernon, TX
30. **Re-Assessment of the Nutrient Accumulation and Requirements of Modern Cotton Cultivar in Southern High Plains**
Irish Lorraine B Pabuayan¹, Katie L. Lewis² and Glen Ritchie¹, (1)Texas Tech University, Lubbock, TX, (2)Texas A&M AgriLife Research and Extension Center, Lubbock, TX
31. **Runoff Water Dynamics in Conservation Cotton Systems**
Charles Coufal, Paul DeLaune, Partson Mubvumba and Anthony Pennartz, Texas A&M AgriLife Research, Vernon, TX
32. **Cotton Cultivar Performance in Missouri for the 2018 Growing Season**
Calvin D Meeks, University of Missouri, Portageville, MO
33. **Evaluating Cotton Seedling Vigor in the Missouri Bootheel for 2018**
Calvin D Meeks, University of Missouri, Portageville, MO
34. **Evaluating Various Soil Moisture Sensor Thresholds in Cotton in South Carolina**
Michael T. Plumblee, Gilbert A. Miller and Kendall R. Kirk, Clemson University, Blackville, SC
35. **Replicated Agronomic Cotton Evaluation (RACE) Trial in the Rolling Plains of Texas-2018**
Jonathan H. Ramirez¹, T. Royer¹, Emi Kimura¹, Paul DeLaune² and Gaylon Morgan³, (1)Texas A&M AgriLife Research and Extension Service, Vernon, TX, (2)Texas A&M AgriLife Research, Vernon, TX, (3) Texas A&M AgriLife Extension Service, College Station, TX
36. **Polyhalite for Cotton Production in Texas**
Carson R Wade, Texas A&M University, College Station, TX, Gaylon Morgan, Texas A&M AgriLife Extension Service, College Station, TX and Julie A. Howe, Texas AgriLife Research, College Station, TX

37. **Factors Impacting the Success of Cotton Harvest Aids**
Seth A. Byrd¹, Bradley R. Wilson¹ and Robert Wright², (1)Oklahoma State University, Stillwater, OK, (2)Texas Tech University, Lubbock, TX
38. **Impact of Nitrogen Fertilizer and Irrigation on Cotton (*Gossypium hirsutum*) Defoliation**
Bradley Norris, Darrin M. Dodds, Lucas Xavier Franca, Jacob P. McNeal, Savana Davis and John J Williams, Mississippi State University, Mississippi State, MS
39. **Effects of Cover Crops on Corn and Cotton Yields in Tennessee**
Jake Mallard¹, Matt Griggs², Tyson B Raper¹ and Shawn Butler¹, (1) University of Tennessee, Jackson, TN, (2)Griggs Farm, Humboldt, TN
40. **Impact of Cover Crop Termination on Soil Health and Lint Yield of Cotton**
Bill Robertson, Amanda Free, Cheyenne Manuel and Christian Smith, University of Arkansas, Newport, AR
41. **Evaluation of Cotton in Large-Plot on-Farm Variety Testing in Arkansas for 2018**
Bill Robertson¹, Amanda Free¹, Cheyenne Manuel¹ and Robert L. Nichols², (1)University of Arkansas, Newport, AR, (2)Cotton Incorporated, Cary, NC
42. **Economics and Sustainability Overview of Arkansas Cotton Research and Sustainability Program**
Amanda Free¹, Bill Robertson¹, Mike Daniels² and Breana Watkins², (1)University of Arkansas, Newport, AR, (2)University of Arkansas, Little Rock, AR
43. **Seeding Rate and Winter Cover Crop Effects on Maturity and Yield of Arkansas Cotton**
Tina Gray Teague¹, Kyle D Wilson², Haylee H Campbell², N. Ray Benson³ and Bill Robertson⁴, (1)Ark State Univ / Univ Ark Exp Sta, State University, AR, (2)University of Arkansas Division of Agriculture, State University, AR, (3)University of Arkansas, Blytheville, AR, (4) University of Arkansas, Newport, AR
44. **Can Urea and Potassium Fertilizer (23-0-30) Applied during Bloom Increase Yield and Quality of Cotton Grown on a Sharkey Clay Soil**
Josh T Copes, Owen Clark, Melanie Netterville and Ana P Campos, LSU AgCenter, Saint Joseph, LA
45. **Influence of Tillage Practices on Lint Yield, Water Quality of Surface Runoff and Soil N in Cotton Production**
R Woodruff¹, M.a.a. Adviento-Borbe¹, Michele L. Reba¹, Joseph Massey¹ and Tina Gray Teague², (1)USDA-ARS, Jonesboro, AR, (2)Ark State Univ / Univ Ark Exp Sta, State University, AR
46. **Irrigation Water Use Efficiency of Cotton Cultivars in Different Cropping Systems in the Texas High Plains**
Murilo Maeda, Texas A&M AgriLife Extension, Lubbock, TX
47. **Cotton Yield and Fiber Quality in Relation to Leaf and Canopy Traits Under Different Irrigation Regimes in Southwest Texas**
Xuejun Dong¹, Shane Sieckenius², Ben Peng³, Gaylon Morgan⁴ and Vijay Joshi², (1)Texas A&M AgriLife Research, Uvalde, TX, (2) Texas A&M Agrilife Research, Uvalde, TX, (3)Yancheng Institute of Technology, Uvalde, TX, (4)Texas A&M AgriLife Extension Service, College Station, TX

Cotton Disease Council Posters

48. **Screening for Cotton Resistance to *Corynespora Cassiicola***
Carly Moore, Jenny Koebernick, Kira L. Bowen and Austin Hagan, Auburn University, Auburn, AL

49. **Areolate Mildew, *Ramularia Gossypii*, Observations in Alabama in 2018**
Matthew Stinson, Austin Hagan, Kira L. Bowen and Jenny Koebernick, Auburn University, Auburn, AL
50. **Cotton Disease Loss Estimate Committee Report, 2018**
Kathy S. Lawrence¹, Austin Hagan¹, Randy Norton², Jiahuai Hu³, Travis R. Faske⁴, Robert B. Hutmacher⁵, John Muller⁶, Ian Small⁷, Zane J. Grabau⁸, Robert C. Kemerait⁹, Paul Price¹⁰, Tom W. Allen¹¹, Sam Atwell¹², John Idowu¹³, Lindsey D. Thiessen¹⁴, Randy Bowman¹⁵, Heather Young¹⁶, Terry A. Wheeler¹⁷ and Hillary L. Mehl¹⁸, (1)Auburn University, Auburn, AL, (2)University of Arizona, Safford, AZ, (3) University of Arizona, Tucson, AZ, (4)University of Arkansas Division of Agriculture, Lonoke, AR, (5)University of California, Five Points, CA, (6)Clemson University, Blackville,, SC, (7)University of Florida, Quincy, FL, (8)University of Florida, Gainesville, FL, (9)University of Georgia, Tifton, GA, (10)Louisiana State University, Winnsboro, LA, (11)Mississippi State University, Delta Research and Extension Center, Stoneville, MS, (12)University of Missouri, New Madrid, MO, (13)New Mexico State University, Las Cruces, NM, (14)NC State University, Raleigh, NC, (15)Oklahoma State University, Altus, OK, (16)University of Tennessee, Jackson, TN, (17)Texas A&M AgriLife Research, Lubbock, TX, (18)Virginia Tech Tidewater AREC, Suffolk, VA
51. **Variety Response to Inoculation with *Xanthomonas Citri Pv. Malvacearum* in Mississippi**
Thomas W. Allen, Mississippi State University, Delta Research and Extension Center, Stoneville, MS
52. **Premier Cotton Education - Disease and Nematodes**
Danny J Nusser, Texas A&M AgriLife Extension, Amarillo, TX
53. **Cotton Cultivar Disease Incidence, Severity, and Yields When Challenged with *Verticillium Wilt* in the Tennessee Valley Region, 2018**
Kathy S. Lawrence¹, Tyler Sandlin², Tyson B Raper³, Heather Kelly³ and Brad Meyer⁴, (1)Auburn University, Auburn, AL, (2)Auburn University, Belle Mina, AL, (3)University of Tennessee, Jackson, TN, (4)Agri-AFC, Decatur, AL
54. **Fusarium Species and Fusarium Wilt Pathogens Associated with Roots of Cottons in Arizona**
Jiahuai Hu and Yizhou Mao, University of Arizona, Tucson, AZ
55. **Piramiding Resistance to Main Cotton Diseases in Brazil**
Nelson Dias Suassuna¹, Carina Mariane L. Lopes², Fabiano J. Perina¹, Joao Luis da Silva Filho¹, Camilo de Lelis Morello¹ and Regina M. D. G. Carneiro², (1)Brazilian Agricultural Research Corporation - EMBRAPA, Santo Antonio de Goias - GO, Brazil, (2)Brazilian Agricultural Research Corporation - EMBRAPA, Brasilia - DF, Brazil
56. **Phylogen Variety and Seed Treatment Product Evaluations in Reniform Nematode Infested Silt Loam Soils in Mississippi**
Tessie H. Wilkerson, Mississippi State University, Stoneville, MS
57. **2018 National Cottonseed Treatment Program**
Heather Kelly¹, Rachel R. Guyer¹, Shelly Neill Pate¹, Thomas W. Allen², M. B. Bayles³, P. D. Colyer⁴, Kathy S. Lawrence⁵, Hillary Mehl⁶, Paul Price⁷, Terry Spurlock⁸ and Jason Woodward⁹, (1)University of Tennessee, Jackson, TN, (2)Mississippi State University, Stoneville, MS, (3)Oklahoma State University, Stillwater, OK, (4)LSU AgCenter, Bossier City, LA, (5)Auburn University, Auburn, AL, (6)Virginia Tech, Suffolk, VA, (7)Louisiana State University, Winnsboro, LA, (8) University of Arkansas, Monticello, AR, (9)Department of Plant and Soil Science, Texas Tech University, Lubbock, TX
58. **Vertical Distribution and Population Dynamics of Nematodes as Influenced by Crop Rotation and Irrigation**
Lesley A Schumacher, University of Florida, Gainesville, FL

59. **Evaluation of the Nematicide Velum Total's Impact on Various Cotton Cultivar Performances in Reniform Nematode Infested Environments**
Taylor M. Wright, Texas Tech University, Department of Plant and Soil Science, Lubbock, TX, Jason Woodward, Department of Plant and Soil Science, Texas Tech University, Lubbock, TX, Katie L. Lewis, Texas A&M AgriLife Research and Extension Center, Lubbock, TX and Gaylon Morgan, Texas A&M AgriLife Extension Service, College Station, TX
60. **Distributions of Plant Parasitic Nematodes in Cotton Production Areas of Virginia**
Hillary L. Mehl, Saleh Ahmed and Linda Byrd-Masters, Virginia Tech Tidewater AREC, Suffolk, VA
61. **Preliminary Screening of Cotton Germplasm for Resistance to Target Spot and Areolate Mildew**
Shreya Shanbhag and Peng Chee, University of Georgia, Tifton, GA
62. **Efficacy of Biost Nematicide on Corn, Cotton, and Soybean Crops Grown in Reniform and Root Knot Fields**
Windi Sanchez, Bisho Ram Lawaju and Kathy S. Lawrence, Auburn University, Auburn, AL
63. **Use of a Liquid Fertilizer (AgraLi) to Reduce *Rotylenchulus Reniformis* Population Density and Increase Cotton Yields**
David R Dyer and Kathy S. Lawrence, Auburn University, Auburn, AL

Cotton Engineering-Systems Conference Posters

64. **Evaluation of a Novel Thermal Imaging System for the Detection of Crop Water Status in Field-Grown Cotton**
John L. Snider¹, Stefano Gobbo¹, George Vellidis¹, Yafit Cohen², Vasileios Liakos¹ and Lorena Nunes Lacerda¹, (1)University of Georgia, Tifton, GA, (2)Agricultural Research Organization (ARO), Bet-Dagan, Israel

Cotton Improvement Conference Posters (General)

65. **Evaluation of Mechanical Cotton Seed Delinter for Breeders**
Joel Arce¹, Jane Dever², Terry A. Wheeler², Gregory A. Holt³ and Steve Hague¹, (1)Texas A&M University, College Station, TX, (2)Texas A&M AgriLife Research, Lubbock, TX, (3)USDA ARS, Lubbock, TX
66. **The US National Cotton Germplasm Collection**
James Frelichowski, Janna Love and Lori Hinze, USDA-ARS, College Station, TX
67. **Deltapine Class of 19 Varieties: Performance and Descriptions**
David W Albers, Bayer Crop Science, St. Louis, MO, Keylon Gholston, Bayer Crop Science, Baldwin, MS, Darren Jones, Bayer Crop Science, Lubbock, TX and Dawn Fraser, Bayer Crop Science, Mount Olive, NC
68. **Localization of Vitamin E Constituents in Transgenic Cotton (*Gossypium hirsutum* L.) Embryos**
Shanmukh S. Salimath¹, Trevor Romsdahl¹, Edgar B Cahoon² and Kent D. Chapman¹, (1)University of North Texas, Denton, TX, (2) University of Nebraska, Lincoln, NE
69. **Comparative Transcriptome Analysis of Near Isogenic Lines for Root-Knot Resistance QTLs, Qmi-C11 and Qmi-C14**
Sameer Khanal¹, Richard Davis² and Peng Chee¹, (1)University of Georgia, Tifton, GA, (2)USDA-ARS, Tifton, GA
70. **Trends in Phenotypic Diversity in Public Cotton Breeding Programs**
Gerald Myers, LSU Agricultural Center, Baton Rouge, LA and Ted Wallace, Mississippi State University, Mississippi State, MS

Cotton Improvement Conference Posters (Student Competition)

71. **Exploring Variation in AFIS Length Distribution of 8 F2 Populations**
Zach Hinds, Brendan Kelly and Eric F. Hequet, Texas Tech University, Lubbock, TX
72. **Enhancing US Cotton Classing with Varietal Data**
Jacob W. James, Brendan Kelly and Eric F. Hequet, Texas Tech University, Lubbock, TX
73. **Using the HVI Fibrogram to Explain Variation in Yarn Quality**
Md Abu Sayeed, Brendan Kelly and Eric F. Hequet, Texas Tech University, Lubbock, TX
74. **Evaluation of Cotton Fibers Propensity to Break in F3 Breeding Lines**
Joao Paulo Saraiva Morais¹, Brendan Kelly² and Eric F. Hequet², (1) Embrapa Algodao, Campina Grande, Brazil, (2) Texas Tech University, Lubbock, TX
75. **Utilization of Novel Alleles Found in Obsolete Germplasm for the Improvement of Upland Cotton**
Alexandra P Ullrich, Texas A&M University Cotton Improvement Lab, Huntsville, TX
76. **Recombination Rates in Interspecific and Intraspecific Cotton Mapping Populations**
Luis M De Santiago, Interdisciplinary Program in Genetics, Texas A&M University, College Station, TX, Yu-Ming Lin, Texas A&M University, College Station, TX, Mauricio Ulloa, USDA-ARS, Lubbock, TX and David M. Stelly, Texas A&M University, College Station, TX
77. **Genome-Wide Spaced Simplex SNP Assays for Marker-Based Interspecific Germplasm Introgression and Genetic Manipulation in Cotton**
Selfinaz Kubra Velioglu, Texas A&M University, College Station, TX
78. **Development and Characterization of Chromosome Segment Substitution Lines**
Christian Hitzelberger, Texas A&M University, College Station, TX
79. **High-Throughput Phenotyping That Improves the Efficiency of a Cotton Plant Breeding System**
Wenzhuo Wu, Texas A&M University, College Station, TX
80. **Proof of Concept: Gene Based Breeding vs Field Based Breeding**
Drutdaman Bhangu, Texas A&M University, College Station, TX
81. **Pathogenicity Test of Fusarium Wilt and Screening Germplasm Lines for Fusarium Wilt Resistance in Cotton**
Yi Zhu¹, Abdelraheem Abdelraheem¹, Soum Sanogo¹, Tom Wedegaertner² and Jinfa Zhang¹, (1) New Mexico State University, Las Cruces, NM, (2) Cotton Incorporated, Cary, NC
82. **A Genome-Wide Association Study of Resistance to Fusarium Wilt and Bacterial Blight in US Upland Cotton Germplasm**
Hanan Elassbli¹, Abdelraheem Abdelraheem¹, Vasu Kuraparthi², David M. Stelly³, Lori Hinze⁴, Soum Sanogo¹, Terry A. Wheeler⁵, Tom Wedegaertner⁶ and Jinfa Zhang¹, (1) New Mexico State University, Las Cruces, NM, (2) North Carolina State University, Raleigh, NC, (3) Texas A&M University, College Station, TX, (4) USDA-ARS, College Station, TX, (5) Texas A&M AgriLife Research, Lubbock, TX, (6) Cotton Incorporated, Cary, NC

Cotton Insect Research and Control Conference Posters

83. **Evaluating Efficacy and Economic Profitability of Preventive Insecticidal Seed Treatments in Cotton**
Suhas Vyavhare¹, Megha N. Parajulee², David Kerns³, Blayne Reed⁴, John David Gonzales⁵, Michael J. Brewer⁶, Danielle Sekula⁷, Tyler Mays⁸, Tommy Doederlein⁹, Abdul Hakeem¹⁰, Jane Pierce¹¹ and Adam Kesheimer¹, (1)Texas A&M AgriLife Extension Service, Lubbock, TX, (2)Texas A&M AgriLife Research and Extension Center, Lubbock, TX, (3)Texas A&M University, College Station, TX, (4)Texas A&M AgriLife Extension, Plainview, TX, (5)Texas A&M AgriLife Extension Service, Muleshoe, TX, (6)Texas A&M AgriLife Research, Department of Entomology, Corpus Christi, TX, (7)Texas A&M AgriLife Extension Service, Weslaco, TX, (8)Texas A&M AgriLife Extension, Lubbock, TX, (9)Texas A&M AgriLife Extension, Lamesa, TX, (10)Texas A&M AgriLife Research, Department of Entomology, Lubbock, TX, (11)New Mexico State University, Las Cruces, NM
84. **Assessing the Impact of Wireworms on Stand Establishment and Yield in Cotton**
D. Tyler Mays, Texas A&M AgriLife Extension Service, Brownfield, TX and Suhas Vyavhare, Texas A&M AgriLife Extension Service, Lubbock, TX
85. **Assessment of DNA Integrity from Trap-Captured Boll Weevils for Use in Pending Diagnostic Tool**
Lindsey C Perkin¹, Charles P.-C. Suh¹ and Brenda S Oppert², (1)USDA-ARS ICCDRU, College Station, TX, (2)USDA-ARS SPIERU, Manhattan, KS
86. **Genetic Diversity and Genetic Structure in Bollworm Populations**
Omaththage P. Perera, USDA-ARS SIMRU, Stoneville, MS
87. **Comparison of Bt Technologies, with and without Diamide Applications, for Control of Helicoverpa Zea in Arkansas Cotton**
Kevin McPherson¹, Gus Lorenz², Benjamin C Thrash¹, Nichole Taillon³, Nick R. Bateman⁴, Andrew Plummer³ and Aaron Cato⁵, (1) University of Arkansas, Lonoke, AR, (2)The University of Arkansas, Lonoke, AR, (3)University of Arkansas CES, Lonoke, AR, (4)University of Arkansas - RREC, Stuttgart, AR, (5)University of Arkansas, Fayetteville, AR
88. **Characterization of Cotton Crop Response to Western Flower Thrips Injury and Its Management in Texas High Plains Cotton**
Abdul Hakeem¹, Megha N. Parajulee² and Jane K Dever², (1)Texas A&M AgriLife Research, Department of Entomology, Lubbock, TX, (2) Texas A&M AgriLife Research and Extension Center, Lubbock, TX
89. **Variation in Plant Injury and Yield by Lepidopterous Pests in Selected Cultivars of Bt Cottons in New Mexico**
Jane Pierce and Patricia Monk, New Mexico State University, Las Cruces, NM
90. **Standardized Insecticide Trial for Control of Tarnished Plant Bugs across the Mid-South 2017 - 2018**
Scott D. Stewart¹, Gus Lorenz², Glenn Studebaker³, Sebe Brown⁴, Angus Catchot⁵, Jeff Gore⁶, Nick R. Bateman⁷, Matthew Williams⁸ and Sandy Steckel¹, (1)The University of Tennessee, Jackson, TN, (2) The University of Arkansas, Lonoke, AR, (3)University of Arkansas, Keiser, AR, (4)LSU AgCenter, Winnsboro, LA, (5)Mississippi State University, Mississippi State, MS, (6)Mississippi State University, Stoneville, MS, (7)University of Arkansas - RREC, Stuttgart, AR, (8) University of Tennessee, Jackson, TN
91. **Efficacy of Insecticides for Management of Whiteflies in Cotton**
David Griffin, Apurba K Barman, Phillip M. Roberts and Michael D. Toews, University of Georgia, Tifton, GA

92. **Evaluation of Pheromone Lures and Trap Types for Monitoring *Helicoverpa armigera* in Texas**
Megha N. Parajulee, Stanley C. Carroll and Abdul Hakeem, Texas A&M AgriLife Research, Department of Entomology, Lubbock, TX
93. **Native Pollinators (Hymenoptera: Apoidea) in Mississippi Delta Cotton**
Katherine A. Parys, USDA-ARS SIMRU, Stoneville, MS and Terry Griswold, USDA-ARS Pollinating Insects Research Unit, Logan, UT
94. **Impacts of Decreased Measurements of Laboratory Susceptibility to Cry1Ac on Bollworm Survival and Damage to Dual- and Multi-Gene Cottons in Large Field Cages**
Nathan S. Little, Blake H. Elkins, Michelle Mullen, Omaththage P. Perera, Katherine A. Parys and Kerry Clint Allen, USDA-ARS SIMRU, Stoneville, MS
95. **Monitoring Bollworm Populations in Arkansas Using Arcmap**
Courtney J Spinks and Glenn Studebaker, University of Arkansas, Keiser, AR
96. **Chemotypic Variation of Caryophyllene Derivatives in Cotton Germplasm Lines**
Jose L. Perez, Charles P.-C. Suh and Alois A. Bell, USDA-ARS ICCDRU, College Station, TX
97. **Monitoring Tarnished Plant Bug Resistance in Cotton Varieties**
Glenn Studebaker¹, Fred M. Bourland² and Courtney J Spinks¹, (1) University of Arkansas, Keiser, AR, (2)University of Arkansas-NEREC, Keiser, AR
98. **Citrus Thrips (*Scirtothrips citri*), an Emerging Pest of Mid to Late Season Cotton in the Low Desert**
Michael D. Rethwisch and Kassandra W. Allan, University of California Cooperative Extension, Blythe, CA
99. **Kurtomathrips Morrilli: An Occasional Pest of Cotton on Texas South Plains**
D. Tyler Mays, Texas A&M AgriLife Extension Service, Brownfield, TX and Suhas Vyavhare, Texas A&M AgriLife Extension Service, Lubbock, TX
100. **Evaluation of the Strider Field Scouting Technology in Northeast Texas Cotton Production**
David R. Drake, Texas A&M AgriLife Extension Service, Commerce, TX and Allen E. Knutson, Texas A&M AgriLife Extension, Dallas, TX
101. **Mid-Season Management of Cotton Aphid and Silverleaf Whitefly in Pima Cotton**
Ian M Grettenberger, University of California-Davis, Davis, CA, CA and Treanna Pierce, UC Cooperative Extension, Shafter, CA
102. **Evaluation of the Ecoshield AG-100 Insecticide Application Technology in Northeast Texas Cotton and Forage Sorghum Production 2017 and 2018**
David R. Drake, Texas A&M AgriLife Extension Service, Commerce, TX
103. **Activity of Insecticides on the Cotton Boll Weevil Control, *Anthonomus grandis* and the Effects on the Imbalance of Cotton Aphid, *Aphis Gossypii***
Geraldo Papa¹, Joao Antonio Zanardi Junior¹, Marcos William Pedroso Menghini² and Vinicius de Matos Jacomassi², (1)Unesp - Ilha Solteira/SP, Ilha Solteira/SP/Brazil, Brazil, (2)Unesp - Ilha Solteira/SP, Ilha Solteira, Brazil
104. **2018 Estimates of Susceptibility of Bollworm Larvae (*Helicoverpa zea*) to Bt Proteins**
Greg Payne¹, Bridget Piatt², Timothy Dennehy³ and Chris Sansone³, (1)University of West Georgia, Carrollton, GA, (2)University of West Georgia, Dept. of Biology, Carrollton, GA, (3)BASF Agricultural Solutions, Research Triangle Park, NC

105. **Compatibility of *Beauveria bassiana* Spores with a Sprayable Bioplastic Formulation for Application in the Biocontrol of Tarnished Plant Bug in Cotton**
Maribel Portilla¹, Hamed Abbas², C. Accinelli² and Randall G. Luttrell³, (1)USDA, Stoneville, MS, (2)USDA-ARS, Stoneville, MS, (3) USDA-ARS SIMRU, Stoneville, MS

Cotton Utilization Conference Posters

106. **Bioactive Peptides from Glanded and Glandless Cottonseeds**
Kandan Sethumadhavan, Heping Cao, Zhongqi He and H.N. Cheng, USDA-ARS-SRRC, New Orleans, LA

Cotton Weed Science Research Conference Posters

107. **A Systems Approach to Weed Management in Enlist Cotton**
Hannah Wright¹, Jason Norsworthy¹, Jacob T. Richburg¹ and Tom Barber², (1)University of Arkansas, Fayetteville, AR, (2)University of Arkansas-Extension, Lonoke, AR
108. **Efficacy of Enlist, Xtend and Liberty Based Weed Control Systems in Cotton**
Rohith Vulchi¹, Scott Nolte¹, Matthew Matocha¹, Gaylon Morgan² and Josh McGinty³, (1)Texas A&M University, College Station, College Station, TX, (2)Texas A&M AgriLife Extension Service, College Station, TX, (3)Texas A&M AgriLife Extension Service, Corpus Christi, TX
109. **Importance of Residual Herbicides in Xtendflex and Enlist Cotton**
Kyle Russell, Texas A&M AgriLife Research, Lubbock, TX, Peter A. Dotray, Texas Tech University, Texas A&M AgriLife Research and Extension Service, Lubbock, TX and J. Wayne Keeling, Texas A&M AgriLife Research and Extension Center, Lubbock, TX
110. **Evaluation of Weed Control Programs in HPPD-Tolerant Cotton**
Jacob T. Richburg, Jason K Norsworthy, Jake A Patterson and Hannah Wright, University of Arkansas, Fayetteville, AR
111. **Interactions between Sequential Applications of Dicamba and Glufosinate**
Lawson Priess¹, Jason Norsworthy¹, Mason Castner¹ and Tom Barber², (1)University of Arkansas, Fayetteville, AR, (2)University of Arkansas-Extension, Lonoke, AR
112. **Assessment of Interline Mixtures in Enlist Cotton**
Jake A Patterson¹, Jason K Norsworthy¹, Zachary D. Lancaster¹ and Tom Barber², (1)University of Arkansas, Fayetteville, AR, (2)University of Arkansas-Extension, Lonoke, AR
113. **Managing Palmer Amaranth with Xtendimax and Liberty with and without Warrant**
Grace K. Flusche Ogden, Texas A&M AgriLife Research, Lubbock, TX, Peter A. Dotray, Texas Tech University, Texas A&M AgriLife Research and Extension Service, Lubbock, TX and John Everitt, Bayer Cropsience, Shallowater, TX
114. **Weed Management and Economics in Bollgard II Xtendflex Cotton Systems**
Brice M. DeLong, Texas A&M AgriLife, Lubbock, TX, J. Wayne Keeling, Texas A&M AgriLife Research and Extension Center, Lubbock, TX, Peter A. Dotray, Texas Tech University, Texas A&M AgriLife Research and Extension Service, Lubbock, TX and John Everitt, Bayer Cropsience, Shallowater, TX
115. **Postemergence Control of PPO-Resistant Palmer Amaranth in Cotton**
Wyatt Coffman¹, Tom Barber², Jason Norsworthy¹ and Mason Castner¹, (1)University of Arkansas, Fayetteville, AR, (2)University of Arkansas-Extension, Lonoke, AR

116. **Volatility of Xtendimax When Preceded by Glufosinate or As a Mixture on Bareground and over-the-Top Applications in Xtendflex Cotton**
Mason Castner¹, Jason K Norsworthy¹, Maria L Zaccaro², Lawson Priess¹, Chad B Brabham² and Tom Barber³, (1)University of Arkansas, Fayetteville, AR, (2)Weed Science, Fayetteville, AR, (3)University of Arkansas-Extension, Lonoke, AR
117. **Effect of Flooding Period and Seed Burial Depth on Palmer Amaranth Seed Germination**
Lucas Xavier Franca, Darrin M. Dodds, Savana Davis, Jacob P. McNeal, Bradley Norris and John J Williams, Mississippi State University, Mississippi State, MS
118. **Examining the Sensitivity of Palmer Amaranth to Chloroacetamide Herbicides**
Zachary D. Lancaster¹, Jason K Norsworthy¹, Michael Houston¹ and Tom Barber², (1)University of Arkansas, Fayetteville, AR, (2)University of Arkansas-Extension, Lonoke, AR
119. **Palmer Amaranth (*Amaranthus palmeri*) and Thrips (*Thrips sp.*) Control with Various Dicamba + Insecticide Tank-Mixes in Cotton (*Gossypium hirsutum*)**
Jacob P. McNeal, Darrin M. Dodds, Angus Catchot, Savana Davis, Lucas Xavier Franca, John J Williams and Bradley Norris, Mississippi State University, Mississippi State, MS
120. **Premier Cotton Education -- Weed Management**
Danny J Nusser, Texas A&M AgriLife Extension, Amarillo, TX
121. **Impact of Reduced Rates of Isoxaflutole on Cotton Growth and Yield**
Donnie Miller, LSU AgCenter, St. Joseph, LA and Daniel O Stephenson IV, LSU AgCenter, Alexandria, LA
122. **Impact of Reduced Rates of Mesotrione on Cotton Growth and Yield**
Donnie Miller, LSU AgCenter, St. Joseph, LA and Daniel O Stephenson IV, LSU AgCenter, Alexandria, LA
123. **Effect of Advanced Herbicide Technologies in System Based Approaches**
Emi Kimura, Jonathan H. Ramirez and T. Royer, Texas A&M AgriLife Research and Extension Service, Vernon, TX
124. **Response of Cotton to Low Rates of Clarity at Different Growth Stages**
Ralph R. Hale, Taghi Bararpour, John W Seale, Jeff Gore, Don Cook and Bhupinder Singh, Mississippi State University, Stoneville, MS
125. **Field Evaluation of 2,4-D and Dicamba Formulations on Cotton Response**
John T. Buol and Daniel B. Reynolds, Mississippi State University, Mississippi State, MS
126. **Response of Cotton to Low Rates of Enlist Duo at Different Growth Stages**
Taghi Bararpour, Ralph R. Hale, Jeff Gore, John W Seale, Gurpreet Kaur and Daryl Chastain, Mississippi State University, Stoneville, MS

Recorded Presentations

The Beltwide Cotton Conferences (BWCC) continue the tradition of putting leading edge information and innovations into attendees' hands to help with decision-making. The full 2019 BWCC Proceedings are scheduled to be mailed in May to attendees who purchase them. However, many of the forum's reports - gleaned from the Confex Podium presentation management/ recording service - are available online.*

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Internet Café and Wi-Fi

Wi-Fi Address: 2019beltwide

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An aerial, black and white photograph of Austin, Texas. The top half shows a dense urban skyline with several prominent skyscrapers, including the JW Marriott Austin Hotel. Below the skyline is a lush green park area with a winding river. In the foreground, there is a stone bridge over a small pond or stream, surrounded by trees and a building with a covered outdoor area.

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