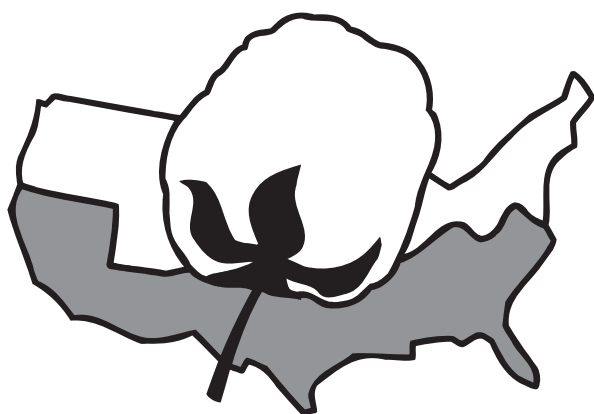


Beltwide Cotton Conferences



January 5-7, 2016
New Orleans Marriott Hotel
New Orleans, Louisiana

**National
Cotton
Council** 
OF AMERICA

Schedule of Events*

Tuesday, January 5		
7:00a– 24 hrs.	Speaker Practice Room	Rhythm Office (4th Floor)
7:30a-1:00p	Extension Cotton Specialist Meeting (by invitation only)	Studio 9
8:00a- 12:00p	USDA-ARS Cotton Scientists Meeting	Balconies L-M
9:00a– 6:00p	Internet Café	Preservation Hall Foyer
9:00a– 6:00p.	Wireless Hotspot	Preservation Hall Foyer
9:00a– 6:00p	Conference Registration	Preservation Hall Foyer
9:00a– 6:00p	Newsroom	Studio 5
9:00a– 6:00p	Confex Presentation Uploading Room for Speakers	Studio 10
12:00p- 1:00p	Consultants Conference Luncheon	Riverview I
12:00p- 1:30p	NCGA Safety Specialist Forum (by invitation only)	Studio 4
1:00p- 4:30p	Consultants Conference General Session	Salons A-D
3:00p– 3:30p	Consultants Coffee Break	Salon D Foyer
3:30p- 4:00p	National Cotton Variety Testing Committee Meeting (by invitation only)	Studios 7-8
4:00p- 5:30p	Cotton Germplasm Committee	Studios 7-8
5:30p- 6:15p	Regional Breeders Testing Network	Studios 7-8
6:00p– 7:00p	Welcome Reception for all attendees (sponsored by BASF)	Acadia
6:30p - 8:30p	Cotton Consultant of the Year (open to all Consultant attendees)	Riverview I

* The contents of this booklet are current as of early December. 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/beltwide/index.cfm>, or by using one of the BWCC scheduling tools referenced on page five of this booklet.

Schedule of Events*

Wednesday, January 6		
7:00a- 24 hrs.	Internet Café	Preservation Hall Foyer
7:00a- 24 hrs.	Wireless Hotspot	Preservation Hall Foyer
7:30a-8:00a	Coffee Break	Galerie 1 Foyer
7:30a- 5:00p	Speaker Practice Room	Rhythm Office (4th Floor)
7:30a- 6:00p	Conference Registration	Preservation Hall Foyer
7:30a- 6:00p	Newsroom	Studio 5
7:30a- 6:00p	Confex Presentation Uploading Room for Speakers	Studio 10
8:00a- 12:30p	Cotton Agronomy & Physiology Conference	Galerie 5
8:00a- 11:45a	Cotton Soil Management & Plant Nutrition Conference	Salon D
8:00a- 12:00p	Cotton Consultants Conference	Acadia
8:00a-10:00p	Poster Board Session	Salons E-H
8:30a- 4:30p	Cotton Improvement Conference	Studios 7-8
10:00a-10:30a	Coffee Break	2nd and 3rd Floor Foyers
10:00a - 3:00 p	Cotton Quality Measurements	Galerie 4
10:00a- 5:30p	Cotton Engineering-Systems Conference	Studio 4
10:30a- 5:45p	Cotton Disease Council	Galerie 1
11:00a-12:00p	Cotton Insect Research & Control Roundtable	Galerie 3
11:00a- 5:15p	Cotton Weed Science Research Conference	Salons A-C
1:30p- 5:00p	Cotton Economics and Marketing Conference	Studio 9
1:30p- 5:30p	Cotton Insect Research & Control Conference – Session B	Galerie 2
1:30p- 5:30p	Cotton Insect Research & Control Conference – Session A	Galerie 3
1:30p- 5:30p	Cotton Ginning Conference	Studios 2-3
3:15p- 4:00p	Coffee Break in Poster Board Session room	Salons E-H
6:00p- 7:00p	Cotton Industry Support Group Meeting	Studios 2-3
6:00p- 7:00p	Journal of Cotton Science Editorial Board	Lafayette
7:30p- 9:00p	Joint Cotton Breeding Committee	Napoleon

Schedule of Events*

Thursday, January 7		
7:00a–12:00p	Speaker Practice Room	Rhythm Office (4th Floor)
7:00a- 1:00p	Internet Café	Preservation Hall Foyer
7:00a- 1:00p	Wireless Hotspot	Preservation Hall Foyer
7:30a-8:00a	Coffee Break	Preservation Hall Foyer
7:30a– 1:00p	Conference Registration	Preservation Hall Foyer
7:30a– 1:00p	Newsroom	Studio 5
CLOSED (Go to Meeting Room)	Confex Presentation Uploading Room for Speakers	
8:00a- 10:00a	Cotton Quality Measurements Conference	Galerie 4
8:00a-10:00a	Cotton Economics and Marketing Conference	Studio 9
8:00a–10:00a	Cotton Insect Research & Control Conference – Session B	Galerie 2
8:00a–11:00a	Cotton Insect Research & Control Conference – Session A	Galerie 3
8:00a–11:30a	Cotton Agronomy & Physiology Conference	Galerie 5
8:00a–12:00p	Poster Board Session	Salons E-H
8:00a- 12:00p	Cotton Disease Council	Galerie 1
8:00a–11:30a	Cotton Improvement Conference	Studios 7-8
8:15a-12:00p	Joint Session: Engineering-Systems & Ginning Conference	Studios 2-3
10:00a-10:30a	Coffee Break	Preservation Hall Foyer
10:30a- 12:00p	Joint Session: Cotton Utilization Conference: Cotton Fabric Chemistry, Nonwovens & Products and Cotton Quality Measurements Conference	Galerie 4

Blanket CEU Applications Discontinued

Providing blanket application of continuing education unit (CEUs) credits by Beltwide Cotton Conferences (BWCC) staff on attendees' behalf has been discontinued. The CEU application process has been tailored to each certifying entity's (state regulatory or association certifier) individual CEU requirements. Until recently, the application process across certifying entities was relatively uniform. However, the application process among the various states has diversified to the point that it is no longer feasible for BWCC staff to provide this service. (Go to 2016 Beltwide Details page, available from the BWCC website home page, <http://www.cotton.org/beltwide>).

Mobile Access/ Online Scheduler



To help with event planning/scheduling, BWCC attendees may use the Online Scheduler which contains the 2016 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

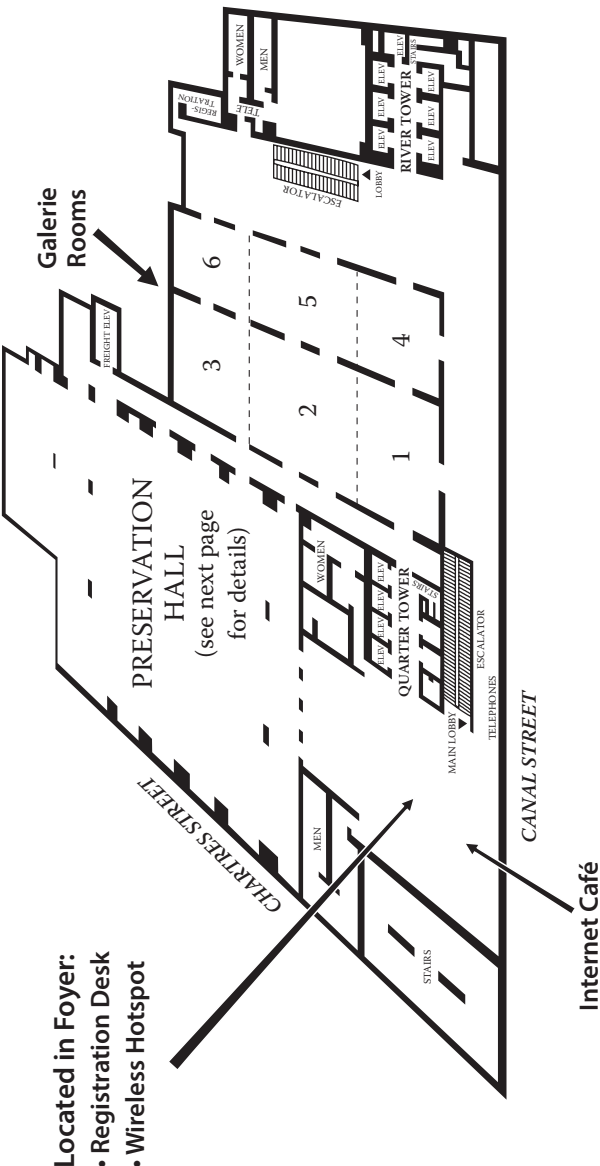
BWCC attendees may use the Personal Scheduler to plan their daily activities. Also available from the BWCC website (see URL above), the scheduler contains links that allow program browsing, searching for specific presenters/events of interest, and viewing abstracts/sessions/etc. The Beltwide's Personal 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 2016 BWCC Proceedings and recorded presentations is available in the back of this booklet.*

Marriott Hotel

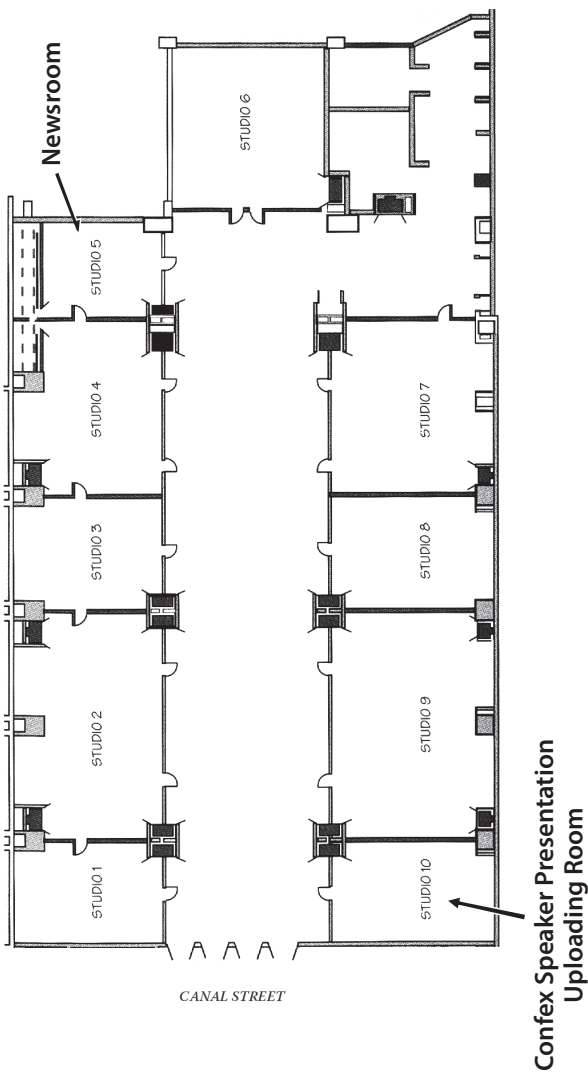
Meeting Room Floor Plans

2nd Floor



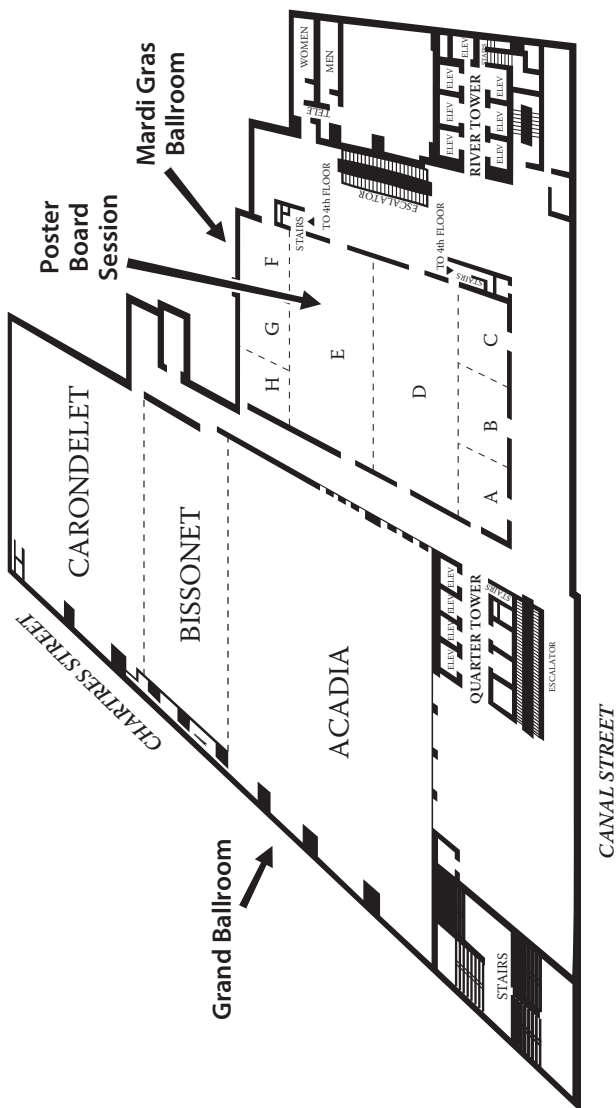
Marriott Hotel Meeting Room Floor Plans

Marriott Hotel Preservation Hall 2nd Floor



Marriott Hotel Meeting Room Floor Plans

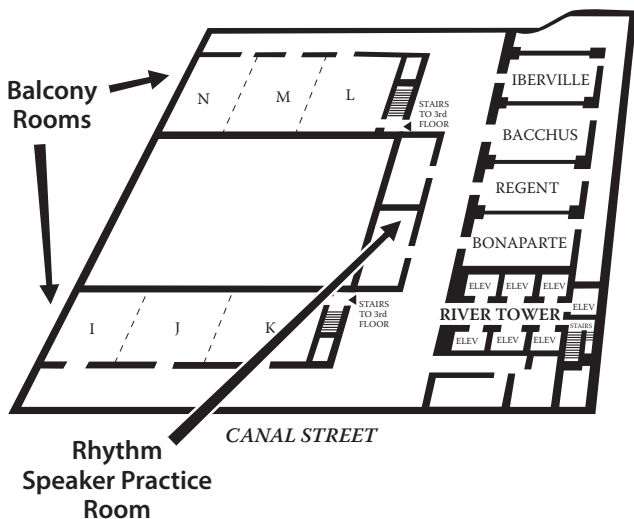
3rd Floor



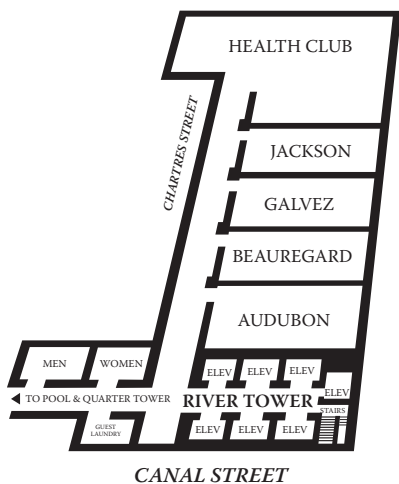
Marriott Hotel

Meeting Room Floor Plans

4th Floor



5th Floor



41st Floor Rooms

River Tower Elevator

**St. Charles,
Lafayette
and
Napoleon**

Cotton Consultants Conference

Tuesday, January 5, 2016

COTTON CONSULTANTS CONFERENCE - UPDATE FROM SPONSORS

Mardi Gras Ballroom Salons A, B, C & D (New Orleans Marriott) - 1:00 PM-1:40 PM

NEW DEVELOPMENTS FROM INDUSTRY - CONSULTANTS SESSION

Mardi Gras Ballroom Salons A, B, C & D (New Orleans Marriott) - 1:40 PM-4:30 PM

1:40 PM Take Off Technology Use and Timings in Cotton Production
Todd Alan Carpenter, Verdesian Life Sciences, Weatherford, TX

1:50 PM Brake® Herbicide: A New Mode of Action for Weed Control in Cotton
Kyle Briscoe, SePRO Corporation, Whitakers, NC

2:00 PM Three New Nexgen Xtendflex Cotton Varieties for Texas
Thomas Brooks, Americot, Inc., Lubbock, TX

2:10 PM NG3522 B2XF: A New Xtendflex Variety for the Cotton Belt
Thomas Brooks, Americot, Inc., Lubbock, TX

2:20 PM Deltapine Class of 16 Bollgard II with Xtendflex Cotton Varieties for Texas
David W Albers, Monsanto, St. Louis, MO

2:30 PM Early Maturing Deltapine Class of 16 Bollgard II with Xtendflex Cotton Varieties
David W Albers, Monsanto, St. Louis, MO

2:40 PM Mid to Full Maturity Deltapine Class of 16 Bollgard II with Xtendflex Cotton Varieties
David W Albers, Monsanto, St. Louis, MO

2:50 PM New GlyTol® LibertyLink® TwinLink® Varieties from Bayer CropScience for the Southwest
Tim Culpepper, Bayer CropScience, Lubbock, TX

3:00 PM Break

3:30 PM New GlyTol® LibertyLink® TwinLink® Varieties from Bayer CropScience for the Delta
Lucas Owen, Bayer CropScience, Milan, TN

3:40 PM New GlyTol® LibertyLink® TwinLink® and GlyTol® LibertyLink® TwinLink® Plus Varieties from Bayer CropScience for the Southeast and Mid-Atlantic
Josh Mayfield, Bayer CropScience, Tifton, GA

3:50 PM The 642E Three-Point Broadcast Hooded Sprayer with Over Center Fold
Steve Claussen, Willmar Fabrication, LLC, Willmar, MN

4:00 PM The Value of Drones in Extension Education
Scott D. Stewart¹, **Scott Hester Graham**¹, Jeremy K Greene² and Heather M Kelly³, (1)The University of Tennessee, Jackson, TN, (2)Clemson University, Blackville, SC, (3)University of Tennessee, Jackson, TN

4:10 PM A Smartphone App for Scheduling Irrigation in Cotton
George Vellidis, University of Georgia, Tifton, GA

4:20 PM Smartphone App for Monitoring Nodes above White Flower (NAWF)
Bill Robertson, University of Arkansas, Newport, AR

Wednesday, January 6, 2016

COTTON INSECT RESEARCH AND CONTROL - CONSULTANTS SESSION

Acadia (New Orleans Marriott) - 8:00 AM-9:00 AM

8:00 AM Managing Bollworms in Bt Cotton in the Midsouth

Jeff Gore¹, Gus Lorenz², Scott D. Stewart³, Angus Catchot⁴, Glenn Studebaker⁵, Nick Seiter⁶, Don Cook¹ and David Kerns⁷, (1)Mississippi State University, Stoneville, MS, (2)The University of Arkansas, Lonoke, AR, (3) The University of Tennessee, Jackson, TN, (4)Mississippi State University, Mississippi State, MS, (5)University of Arkansas, Keiser, AR, (6)University of Arkansas, Monticello, AR, (7)LSU AgCenter, Winnsboro, LA

8:15 AM Managing Bollworms in Bt Cotton in the Southeast

Dominic Reisig, North Carolina State University, Plymouth, NC, Jeremy K Greene, Clemson University, Blackville, SC and Francis Reay-Jones, Clemson University, Florence, SC

8:30 AM Tobacco Thrips - Seed Treatments and Alternatives in the Southeast

Phillip M. Roberts¹, Ames Herbert², Dominic Reisig³, Jeremy K Greene⁴, Francis Reay-Jones⁵, Mike Toews¹ and Ron Smith⁶, (1)University of Georgia, Tifton, GA, (2)Virginia Tech, Suffolk, VA, (3)North Carolina State University, Plymouth, NC, (4)Clemson University, Blackville, SC, (5)Clemson University, Florence, SC, (6)Auburn University, Auburn, AL

8:45 AM Tobacco Thrips - Seed Treatments and Alternatives in the Midsouth

Angus Catchot¹, Jeff Gore², Gus Lorenz³, Don Cook², David Kerns⁴, Glenn Studebaker⁵, Nick Seiter⁶ and Scott D. Stewart⁷, (1)Mississippi State University, Mississippi State, MS, (2)Mississippi State University, Stoneville, MS, (3)The University of Arkansas, Lonoke, AR, (4)LSU AgCenter, Winnsboro, LA, (5)University of Arkansas, Keiser, AR, (6)University of Arkansas, Monticello, AR, (7)The University of Tennessee, Jackson, TN

COTTON WEED SCIENCE RESEARCH - CONSULTANTS SESSION

Acadia (New Orleans Marriott) - 9:00 AM-10:00 AM

9:00 AM Cover Crop Value in Managing Palmer Amaranth Now and in the Future

Larry Steckel, University of Tennessee, Jackson, TN and A. Stanley Culpepper, University of Georgia, Tifton, GA

9:30 AM Auxin-Tolerant Cotton: Managing Both Weeds and Off-Target Movement

A. Stanley Culpepper, University of Georgia, Tifton, GA and Larry Steckel, University of Tennessee, Jackson, TN

COTTON AGRONOMY & PHYSIOLOGY - CONSULTANTS SESSION

Acadia (New Orleans Marriott) - 10:30 AM-11:30 AM

10:30 AM Beltwide Summary on the Impact of Potassium Applications on Cotton Yield

Gaylon D. Morgan, Texas A&M AgriLife Extension Service, College Station, TX, Hunter Frame, Virginia Tech, Suffolk, VA, Katie Lewis, Department of Plant and Soil Science, Texas Tech University, Lubbock, TX, Dan D Fromme, LSU AgCenter, Alexandria, LA, Bill Robertson, University of Arkansas, Newport, AR, Andrea S. Jones, University of Missouri, Portageville, MO, Darrin M. Dodds, Mississippi State University, Starkville, MS, Tyson Raper, University of Tennessee, Jackson, TN, Randy Norton, University of Arizona, Solomon, AZ, Randy Boman, Oklahoma State University, Altus, OK, Keith L. Edmisten, NC State University, Raleigh, NC, Austin Hagan, Auburn University, Auburn, AL, Robert L. Nichols, Cotton Incorporated, Cary, NC and Dennis P. Delaney, Auburn University, Auburn University, AL

10:45 AM Beltwide Evaluation of the Effect of 2,4-D Drift on Cotton
Seth A. Byrd¹, Guy D. Collins², A. Stanley Culpepper³, Keith L. Edmisten⁴, Darrin M. Dodds⁵, David L. Wright⁶, Gaylon D. Morgan⁷, Paul A. Baumann⁸, Peter A. Dotray⁹, Andrea S. Jones¹⁰, Misha R. Manuchehri⁹, Tim L. Grey³, Theodore M. Webster¹¹, Jerry W. Davis¹², Jared R. Whitaker¹³, John L. Snider³, Phillip M. Roberts³, Wesley M. Porter³ and Robert L. Nichols¹⁴, (1)Texas A&M University, Lubbock, TX, (2)NC State University, Rocky Mount, NC, (3) University of Georgia, Tifton, GA, (4)NC State University, Raleigh, NC, (5) Mississippi State University, Starkville, MS, (6)University of Florida, Quincy, FL, (7)Texas A&M AgriLife Extension Service, College Station, TX, (8)Texas A&M University, College Station, TX, (9)Texas Tech University, Lubbock, TX, (10)University of Missouri, Portageville, MO, (11)USDA-ARS, Tifton, GA, (12) University of Georgia, Griffin, GA, (13)University of Georgia, Statesboro, GA, (14)Cotton Incorporated, Cary, NC

11:00 AM 2015 Beltwide On-Farm Cotton Variety Performance
Guy D. Collins¹, Ryan Blair², Randy Boman³, Seth A. Byrd⁴, Dennis P. Delaney⁵, Darrin M. Dodds⁶, Stewart Duncan⁷, Keith L. Edmisten⁸, Hunter Frame⁹, Dan D. Fromme¹⁰, Andrea S. Jones¹¹, Mike Jones¹², Mark Kelley¹³, Kristie Keys¹⁴, Josh McGinty¹⁵, Gaylon D. Morgan¹⁶, Randy Norton¹⁷, Tyson Raper², Bill Robertson¹⁸, Jared R. Whitaker¹⁹, David L. Wright²⁰ and Robert L. Nichols²¹, (1)NC State University, Rocky Mount, NC, (2)University of Tennessee, Jackson, TN, (3)Oklahoma State University, Altus, OK, (4)Texas A&M University, Lubbock, TX, (5)Auburn University, Auburn University, AL, (6)Mississippi State University, Starkville, MS, (7)Kansas State University, Manhattan, KS, (8)NC State University, Raleigh, NC, (9)Virginia Tech, Suffolk, VA, (10)LSU AgCenter, Alexandria, LA, (11)University of Missouri, Portageville, MO, (12)Clemson University, Florence, SC, (13)Texas AgriLife Extension Service, Lubbock, TX, (14)Texas A&M AgriLife Extension Service, Lubbock, TX, (15)Texas A&M University, College Station, TX, (16)Texas A&M AgriLife Extension Service, College Station, TX, (17)University of Arizona, Solomon, AZ, (18)University of Arkansas, Newport, AR, (19)University of Georgia, Statesboro, GA, (20)University of Florida, Quincy, FL, (21)Cotton Incorporated, Cary, NC

11:15 AM Best Management Practices for Irrigating Cotton
Wesley M. Porter, University of Georgia, Tifton, GA and Tyson Raper, University of Tennessee, Jackson, TN

COTTON SOIL MANAGEMENT AND PLANT NUTRITION - CONSULTANTS SESSION

Acadia (New Orleans Marriott) - 11:30 AM-12:00 PM

11:30 AM Sulfur Management on Coastal Plain Soils
Hunter Frame, Virginia Tech, Suffolk, VA

11:45 AM The Value of Rotations - Lessons Learned from the First 12 Years of the Mississippi Centennial Rotation
Dr. M. Wayne Ebelhar, Mississippi State University, Stoneville, MS and Lawrence L. Falconer, Mississippi State University Extension Service, Stoneville, MS

Cotton Agronomy & Physiology Conference

Wednesday, January 6, 2016

COTTON AGRONOMY & PHYSIOLOGY - WEDNESDAY EARLY MORNING

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

8:00 AM Welcoming Remarks

8:05 AM Field to Market Fieldprints for Cotton Production in Georgia
Shannon A Parrish, George Vellidis, Wesley M. Porter and Amanda Smith,
University of Georgia, Tifton, GA

8:20 AM Predicting Heat Stress in Cotton Using Probabilistic Canopy Temperature Forecasts

Emily Christ¹, Peter Webster¹, John L. Snider², Violeta Toma¹, Derrick Oosterhuis³ and Daryl Chastain⁴, (1)Georgia Institute of Technology, Atlanta, GA, (2)University of Georgia, Tifton, GA, (3)University of Arkansas, Fayetteville, AR, (4)Mississippi State University Delta Research and Extension Center, Stoneville, MS

8:35 AM A Soil Moisture Sensor Approach to Scheduling Irrigation in Cotton in Mississippi

Michael T. Plumblee¹, Darrin M. Dodds¹, Jason Krutz², Chase A. Samples¹ and Drew B. Denton¹, (1)Mississippi State University, Starkville, MS, (2)Mississippi State University, Stoneville, MS

8:50 AM Potential Value of Irrigation to Cotton Producers in North Carolina and the Upper Southeast

Todd A Spivey¹, Gail Wilkerson¹, David L Jordan¹, Joshua Heitman¹, Randy Wells¹, Guy D. Collins², Hunter Frame³ and Keith L. Edmisten¹, (1)NC State University, Raleigh, NC, (2)NC State University, Rocky Mount, NC, (3)Virginia Tech, Suffolk, VA

9:05 AM Break

9:15 AM Performance of Harvest Aid Programs in Different Cotton Cultivars

Lucas Xavier Franca, Darrin M. Dodds, Drew B. Denton, Michael T. Plumblee and Chase A. Samples, Mississippi State University, Starkville, MS

9:30 AM Assessing an Unmanned Aerial System Equipped for Aerial RGB Photography Collection and Chlorophyll a Fluorescence for Detecting Water-Induced Differences in Canopy Development and Yield in Cotton

Calvin Meeks¹, John L. Snider¹, Wesley M. Porter¹, George Vellidis¹, A. Stanley Culpepper¹, Glen Ritchie², Guy D. Collins³, Glen Rains¹ and Gary L. Hawkins¹, (1)University of Georgia, Tifton, GA, (2)Texas Tech University, Lubbock, TX, (3)NC State University, Rocky Mount, NC

9:45 AM Deep Placement of K and N Fertilizers to Prevent Late-Season K Deficiencies

Christopher Brice Maners¹, **Tyson Raper**² and **Xinhua (Frank) Yin**², (1)University of Tennessee, Knoxville, TN, (2)University of Tennessee, Jackson, TN

10:00 AM Impact of Soil Applied Potassium on Cotton Yield, Quality, and Plant Growth in Texas

Chase L Vasbinder¹, Gaylon D. Morgan², Dale A Mott², Tony Provin², Dennis Coker², Ryan Collett³ and Corrie Bowen⁴, (1)Texas A&M University, College Station, TX, (2)Texas A&M AgriLife Extension Service, College Station, TX, (3)Texas A&M AgriLife Extension Service, Thrall, TX, (4)Texas A&M AgriLife Extension Service, Wharton, TX

COTTON AGRONOMY & PHYSIOLOGY - WEDNESDAY LATE MORNING

Galerie 5 (New Orleans Marriott) - 10:30 AM-12:30 PM

10:30 AM Welcoming Remarks

10:35 AM Impact of Cover Crop and Tillage on Irrigation Efficiency of Cotton in Arkansas

Amanda Free and Bill Robertson, University of Arkansas, Newport, AR

10:50 AM Comparisons of Tillage Practices in North Carolina Cotton

Todd A Spivey¹, Joshua Heitman¹, Randy Wells¹, David L Jordan¹, Gail Wilkerson¹, Guy D. Collins², Hunter Frame³ and Keith L. Edmisten¹, (1)NC State University, Raleigh, NC, (2)NC State University, Rocky Mount, NC, (3) Virginia Tech, Suffolk, VA

11:05 AM Assessing the Feasibility of Growing Cover Crops in Cotton Production Systems of the Texas Rolling Plains

Pradip Adhikari¹, **Srinivasulu Ale**¹, Paul DeLaune¹ and Kelly Thorp², (1)Texas A&M AgriLife Research, Vernon, TX, (2)USDA-ARS, Maricopa, AZ

11:20 AM Seeding Rate and Plant Population Effect on Cotton Production in Georgia

Jared R. Whitaker, University of Georgia, Statesboro, GA, John L. Snider, University of Georgia, Tifton, GA, Guy D Collins, North Carolina State University, Rocky Mount, NC and Seth A. Byrd, Texas A&M University, Lubbock, TX

11:35 AM Break

11:45 AM Cotton Growth and Lint Yield Response to a Rotation with Soybean

William T. Pettigrew, Krishna Reddy and Arnold Bruns, USDA-ARS, Stoneville, MS

COTTON AGRONOMY & PHYSIOLOGY BUSINESS MEETING

Galerie 5 (New Orleans Marriott) - 5:15 PM-7:00 PM

5:15 PM Welcoming Remarks

5:30 PM Business of the Day

6:00 PM Discussion

6:30 PM Refreshments

Thursday, January 7, 2016

COTTON AGRONOMY & PHYSIOLOGY – THURSDAY EARLY MORNING

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

8:00 AM Welcoming Remarks

8:05 AM Non-Structural Carbohydrates in Cotton Genotypes Differing in Seedling Vigor

Felix B Fritschi¹, Shengjun Liu¹ and Robert L. Nichols², (1)Univ. of Missouri, Columbia, MO, (2)Cotton Incorporated, Cary, NC

8:20 AM The Impact of Seed Characteristics on Seedling Vigor and Lint Yield Across Five Yield Environments in Southern Georgia

John L. Snider, University of Georgia, Tifton, GA, Guy D Collins, North Carolina State University, Rocky Mount, NC, Jared R. Whitaker, University of Georgia, Statesboro, GA, Kent Chapman, University of North Texas, Denton, TX and Patrick Horn, Michigan State University, East Lansing, MI

8:35 AM Predawn Respiration Predicts Lint Yield in Cotton When Yield Variability Is Water-Induced

John L. Snider¹, Daryl Chastain², Calvin Meeks¹, Guy D. Collins³, Ronald Sorensen⁴ and Calvin Perry⁵, (1)University of Georgia, Tifton, GA, (2) Mississippi State University Delta Research and Extension Center, Stoneville, MS, (3)NC State University, Rocky Mount, NC, (4)USDA ARS, Dawson, GA, (5) University of Georgia, Camilla, GA

8:50 AM Studying Photosynthesis and Evapotranspiration of Cotton Using Eddy Covariance

Nithya Rajan¹, Sumit Sharma¹ and Stephan Maas², (1)Texas A&M University, College Station, TX, (2)Texas Tech University, Lubbock, TX

9:05 AM Break

9:15 AM Modeling Irrigation Requirements of Cotton Using Cotton 2K

Ahmed Attia, Texas A&M AgriLife Research at Vernon, Vernon, TX and **Nithya Rajan**, Texas A&M University, College Station, TX

9:30 AM A New Simpler Method to Calculate Evapotranspiration

Vasileios Liakos¹, George Vellidis¹, Wesley M. Porter¹, Andre Torre Neto², Dimitris Pavlou¹ and Anna Orfanou¹, (1)University of Georgia, Tifton, GA, (2) Embrapa Instrumentation, São Carlos, Brazil

9:45 AM Irrigation Scheduling for Cotton Using Soil Moisture Sensors, Smartphone Apps, and Traditional Methods

George Vellidis¹, Vasileios Liakos¹, Calvin Perry², Wesley M. Porter¹ and Michael A Tucker¹, (1)University of Georgia, Tifton, GA, (2)University of Georgia, Camilla, GA

COTTON AGRONOMY & PHYSIOLOGY AWARDS CEREMONY

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

10:30 AM Introductory Remarks

10:45 AM Concluding Remarks

11:00 AM Awards (PhD, MS)

Cotton Disease Council

Wednesday, January 6, 2016

COTTON DISEASE COUNCIL - CERTIFICATION OF US COTTON PLANTING SEED

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

10:30 AM U.S. Cotton Planting Seed Production

Kater Hake, Cotton Incorporated, Cary, NC

10:50 AM Overview of Seed Certification Protocols

Jason Woodward, Department of Plant and Soil Science, Texas Tech University, Lubbock, TX and Shawn Wade, Plains Cotton Growers, Lubbock, TX

11:10 AM Seedborne Pathogens and Their Etiology

Ron Walcott, University of Georgia, Athens, GA

11:30 AM Development of Molecular Techniques to Identify Seedborne Pathogens

Tom W Allen, Mississippi State University, Delta Research and Extension Center, Stoneville, MS and Shien Lu, Mississippi State University, Stoneville, MS

11:50 AM Question and Answer Session

Hillary L Mehl, Virginia Tech, Suffolk, VA

COTTON DISEASE COUNCIL - WEDNESDAY EARLY AFTERNOON

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

2:00 PM Diagnostic Identification of Meloidogyne Species to Expedite Pathogen Detection in Row Crops

Will Groover and Kathy Lawrence, Auburn University, Auburn, AL

2:15 PM Effect of Commercial Starter Fertilizers and Plant Hormones on Soybean Growth and Meloidogyne Incognita Proliferation in the Greenhouse

Daniel Dodge, Auburn University, Auburn University, AL and Kathy Lawrence, Auburn University, Auburn, AL

2:30 PM Host Range and Phylogenetic Diversity of Corynespora Cassiicola, Cause of Target Spot of Cotton in the Southeastern U.S

Leilani G. Sumabat¹, Robert C Kemera² and Marin T. Brewer¹, (1)University of Georgia, Athens, GA, (2)University of Georgia, Tifton, GA

2:45 PM Field Studies of Bacillus SPP. for Biological Control of Meloidogyne Incognita in Cotton

Ni Xiang¹, Kathy Lawrence², Joseph W Kloepper³ and John A McInroy³, (1) AUBURN UNIVERSITY, Auburn, AL, (2)Auburn University, Auburn, AL, (3) AUBURN UNIVERSITY, AUBURN, AL

3:00 PM Evaluation of Cotton Cultivars in the Presence and Absence of Reniform Nematode and the Efficacy of Velum Total

Stephen R. Till¹, Kathy Lawrence¹, Kathryn Glass² and Drew Schrimsher³, (1) Auburn University, Auburn, AL, (2)Auburn University, Auburn University, AL, (3)Agri-AFC, Slocumb, AL

3:15 PM Spatial Examination of Soil Factors on Cotton Seedling Disease Pressure

Kyle Wilson¹, Craig Rothrock¹ and Terry Spurlock², (1)University of Arkansas, Fayetteville, AR, (2)University of Arkansas, Monticello, AR

COTTON DISEASE COUNCIL - WEDNESDAY LATE AFTERNOON

Galerie 1 (New Orleans Marriott) - 4:00 PM-5:45 PM

4:00 PM Effect of Resistance the QTLs Qmi-C11 and Qmi-C14 on Meloidogyne Incognita Development in Cotton

Mychele Batista da Silva¹, Pawan Kumar¹, Robert L. Nichols², Peng Chee¹ and Richard Davis³, (1)University of Georgia, Tifton, GA, (2)Cotton Incorporated, Cary, NC, (3)USDA-ARS, Tifton, GA

4:15 PM Growth Hormone and Starter Fertilizer Effects When Combined with Velum Total or Vydate for Root-Knot Population Suppression and Cotton Yield Enhancement

Justin A Luangkhot and Kathy Lawrence, Auburn University, Auburn, AL

4:30 PM Modeling Temporal Progress of Verticillium Wilt Epidemics in Cotton

Xiaoxiao Liu¹, Jason Woodward¹ and Terry Wheeler², (1)Department of Plant and Soil Science, Texas Tech University, Lubbock, TX, (2)Texas A&M AgriLife Research, Lubbock, TX

4:45 PM Beltwide Nematode Research and Education Committee 2015 Nematode Research Report Cotton Varietal and Nematicide Responses in Nematode Soils

Kathy Lawrence, Auburn University, Auburn, AL, Gary W Lawrence, Mississippi State University, Mississippi State, MS, Travis Faske, Univ of Arkansas, Lonoke, AR, Charles Overstreet, LSU AgCenter, Baton Rouge, LA, Terry Wheeler, Texas A&M AgriLife Research, Lubbock, TX, Heather Young, University of Tennessee, Jackson, TN, Robert C Kemerait, University of Georgia, Tifton, GA and Hillary L Mehl, Virginia Tech, Suffolk, VA

5:00 PM Impact of Seedling Diseases and Preemergence Herbicides on Cotton Stand Establishment and Plant Development

Craig Rothrock, University of Arkansas, Fayetteville, AR, Robert C Kemerait, University of Georgia, Tifton, GA, Kathy Lawrence, Auburn University, Auburn, AL, Gary W Lawrence, Mississippi State University, Starkville, MS, Jason Woodward, Department of Plant and Soil Science, Texas Tech University, Lubbock, TX, Randy Norton, University of Arizona, Solomon, AZ, Heather M Kelly, University of Tennessee, Jackson, TN, Paul Price, Louisiana State University, Winnsboro, LA, Hillary L Mehl, Virginia Tech, Suffolk, VA and Tom W Allen, Mississippi State University, Delta Research and Extension Center, Stoneville, MS

5:15 PM Performance of Commercial *G. hirsutum* Varieties Grown in *R. Reniformis* Infested Soils with and without Nematicides

Harry Randall Smith¹, Gary W Lawrence², Richard L Harkess³, Kathy S Lawrence⁴, J Mike Phillips³, David J Lang³ and Patricia R Knight⁵, (1) Mississippi State University, Mendenhall, MS, (2)Mississippi State University, Starkville, MS, (3)Mississippi State University, Mississippi State, MS, (4) Auburn University, Auburn, AL, (5)Mississippi State University, Biloxi, MS

5:30 PM Beyond IPM: Fungal Endophytes for Integrated Stress Management in Cotton

Gregory A. Sword¹, Allison Jack², Vijay Verma¹, Cesar Valencia¹, Diana Castillo Lopez², Wenqing Zhou¹, Ashley Tessnow¹, Maria Julissa Ek-Ramos³, Steve Hague¹, Luis Marquez² and Geoffrey von Maltzahn², (1)Texas A&M University, College Station, TX, (2)Symbiota, Cambridge, MA, (3) Autonomous University of Nuevo León, Nuevo León, Mexico

Thursday, January 7, 2016

COTTON DISEASE COUNCIL - THURSDAY EARLY MORNING

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

8:00 AM Effects of Nematicide Seed Treatments with and without Foliar Applications of Vydate-CLV on the Growth and Development of *G. hirsutum* Grown in *R. Reniformis* Infested Soils

Harry Randall Smith¹, Gary W Lawrence², Richard L Harkess³, Kathy S Lawrence⁴, J Mike Phillips³, David J Lang³ and Patricia R Knight⁵, (1) Mississippi State University, Mendenhall, MS, (2)Mississippi State University, Starkville, MS, (3)Mississippi State University, Mississippi State, MS, (4) Auburn University, Auburn, AL, (5)Mississippi State University, Biloxi, MS

8:15 AM Multi-Year Regional Evaluation of One and Two Fungicide Applications for the Management of Target Spot on Two Cotton Varieties
Nicholas S Dufault, Univ. of Florida, Gainesville, FL, Hillary L Mehl, Virginia Tech, Suffolk, VA, Austin K Hagan, Auburn University, Auburn, AL, Robert C Kemerait, University of Georgia, Tifton, GA, Paul Price, Louisiana State University, Winnsboro, LA, Michael J. Mulvaney, University of Florida, Jay, FL, Heather M Kelly, University of Tennessee, Jackson, TN and Robert L. Nichols, Cotton Incorporated, Cary, NC

8:30 AM Response of Cotton Cultivars to 2015 Bacterial Blight Causing Isolates in Field and Greenhouse Trials

Terry A Wheeler, Texas A&M AgriLife Research, Lubbock, TX, Jason Woodward, Texas A&M AgriLife Extension Service, Lubbock, TX and Mark Kelley, Texas AgriLife Extension Service, Lubbock, TX

8:45 AM On Farm Evaluation of Nematode Resistant Cotton Varieties

Dennis Burns, LSU AgCenter, St. Joseph, LA and Charles Overstreet, LSU AgCenter, Baton Rouge, LA

9:00 AM Assessment of Resistant Cotton Varieties for Management of Root-Knot Nematodes in Colquitt County, Georgia

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

9:15 AM Evaluation of Seed-Applied Nematicides for Reniform Nematode Management in Cotton

Stephen Kakaire, Tom W Allen and Bobby G Golden, Mississippi State University, Delta Research and Extension Center, Stoneville, MS

9:30 AM Survey of Cotton Viruses in Oklahoma and Texas

Akhtar Ali, The University of Tulsa, Tulsa, OK

9:45 AM Isolation of Cotton Seed and Lint Rotting *Serratia* Sp. from Bolls Infested with the Verde Plant Bug, *Creontiades signatus*

Enrique Gino Medrano¹, James Glover² and Mike Brewer², (1)USDA-ARS, College Station, TX, (2)Texas A&M AgriLife Research and Extension Center, Corpus Christi, TX

COTTON DISEASE COUNCIL - THURSDAY LATE MORNING

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

10:30 AM Yields and Response of Full Season Flex Cotton Varieties to Target Spot Reaction in Alabama

Austin Hagan¹, Katherine Burch¹ and Brad Miller², (1)Auburn University, Auburn, AL, (2)Auburn University, Brewton, AL

10:45 AM Effect of Fungicide Timing on Target Spot

Heather M Kelly and Tyson Raper, University of Tennessee, Jackson, TN

11:00 AM Vibrance® a New Seed Treatment Fungicide for Early Season Disease Protection in Cotton

Scott Martin, David Black, Peter Eure, James Holloway, Ryan Jackson, Victor Mascarenhas, Henry McClean and Scott Moore, Syngenta, Greensboro, NC

11:15 AM Evaluations of FOV Race 4 Tolerance in Commercial Pimas and Uplands in the San Joaquin Valley

Robert B Hutmacher, University of California, Five Points, CA, Steven D. Wright, University of California Cooperative Extension, Tulare, CA, Mark Keeley, University of California Cooperative Extension, Shafter, CA, Raul Delgado, University of California, Shafter, CA and Mauricio Ulloa, USDA-ARS, Lubbock, TX

11:30 AM Screening Endophytic Fungi in Cotton for Effects Against Root-Knot Nematodes

Vijay Verma, Wenqing Zhou and Gregory A. Sword, Texas A&M University, College Station, TX

11:45 AM MIC-3 Overexpression Increases Cotton Resistance to RKN and Has an Additive Effect When Combined with the Chromosome 14 Resistance QTL

Martin J Wubben¹, Franklin E Callahan¹, John Burke² and Johnie N Jenkins¹, (1)USDA-ARS, Mississippi State, MS, (2)USDA-ARS, Lubbock, TX

Cotton Economics and Marketing Conference

Wednesday, January 6, 2016

COTTON ECONOMIC OUTLOOK SYMPOSIUM

Preservation Hall Studio 9 (New Orleans Marriott) - 10:30 AM-12:00 PM

10:30 AM Cotton Market Outlook

Jarral T. Neeper, Calcot, Bakerfield, CA

11:05 AM Cotton Marketer of the Year

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

11:15 AM Cotton Crop Insurance Update

Thomas P Zacharias, National Crop Insurance Services, Overland Park, KS

COTTON ECONOMICS & MARKETING - WEDNESDAY EARLY AFTERNOON

Preservation Hall Studio 9 (New Orleans Marriott) - 1:30 PM-3:00 PM

Official: William Thompson

Presiding: William Thompson

1:30 PM Modeling U.S. End-Use

Jon Devine, Cotton Incorporated, Cary, NC

1:45 PM Structural Changes in U.S. Cotton Supply

Donna Mitchell, Texas Tech University, Lubbock, TX and **John Robinson**, Texas A&M AgriLife Extension Service, College Station, TX

2:00 PM Evaluating Impact of Actual Production History-Yield Exclusion (APH-YE) on Cotton Producers Using Simulation Method

Kishor P Luitel, Department of Agricultural and Applied Economics, Texas Tech University, Lubbock, TX, **Darren Hudson**, Texas Tech University, Lubbock, TX and **Thomas Knight**, Texas Tech University, Department of Agricultural and Applied Economics, Lubbock, TX

2:15 PM Cotton Crop Abandonment: The Roles of Prices, Weather, Irrigation and Insurance

George Frisvold, University of Arizona, Tucson, AZ

2:30 PM Cotton Production in the United States: Production Expenses and Crop Diversity

Leah Duzy, USDA-ARS, Auburn, AL

2:45 PM Trends and Patterns of Water Use in US Cotton Production

George Frisvold, University of Arizona, Tucson, AZ

COTTON ECONOMICS & MARKETING POSTERS

Preservation Hall Studio 9 (New Orleans Marriott) - 1:30 PM-5:00 PM

1. Comparison of Survey Results and Budget Recommendations for Mississippi Cotton Production

Lawrence L Falconer, Mississippi State University Extension Service, Stoneville, MS

2. Profitability of 2:2 Skip Row Planting

Jeff Pate, Texas A&M Agrilife Extension, Lubbock, TX and **Donna Mitchell**, Texas Tech University, Lubbock, TX

3. Cotton Crop Insurance Programs in Louisiana

Michael A Deliberto, LSU AgCenter, Baton Rouge, LA

4. Generic Base and Farm Program Decision Aids

Michael A Deliberto, LSU AgCenter, Baton Rouge, LA

5. **Analyzing Farm Program and Crop Insurance Choice Under a Risk/Return Framework**
Michael A Deliberto, LSU AgCenter, Baton Rouge, LA
6. **Land Use for Cotton in Corn Dominated Northern Plains of Texas: Trends and Drivers**
Shyam Nair, Foy D Mills, Kelsey Powers and Benjamin Kresta, Sam Houston State University, Huntsville, TX
7. **Drivers of Land Use Change in Southern High Plains of Texas**
Shyam Nair, Foy D Mills, Benjamin Kresta and Kelsey Powers, Sam Houston State University, Huntsville, TX
8. **Comparison of Productivity and Profitability Trends of Major Crops in Panhandle District of Texas**
Shyam Nair, Art Wolfskill, Austin Smith, Blake Strandel and Blayne Elster, Sam Houston State University, Huntsville, TX
9. **Crop Yield and Profitability Trends in Texas South Plains**
Shyam Nair, Art Wolfskill, Colin Burton, Kevin Reck and Kirt Weyand, Sam Houston State University, Huntsville, TX
10. **Regionalizing Cotton Cost Functions in Implan**
Rebekka M. Dudensing, Daniel D. Hanselka and John Robinson, Texas A&M AgriLife Extension Service, College Station, TX
11. **The Costs of Herbicide Resistant Weeds in US Cotton Production**
George Frisvold, University of Arizona, Tucson, AZ
12. **Effects of Bt Cotton Adoption on Cotton Price and International Trade**
Chandra K Dhakal and Jaime Malaga, Texas Tech University, Lubbock, TX
13. **Does Irrigation on Cotton Really Matter?**
Robert J Hogan, Texas AgriLife Extension, Uvalde, TX and Jason Johnson, Texas AgriLife Extension, Stephenville, TX

COTTON ECONOMICS & MARKETING - WEDNESDAY LATE AFTERNOON

Preservation Hall Studio 9 (New Orleans Marriott) - 4:00 PM-5:00 PM

4:00 PM The Impact of a Sorghum-Based Ethanol Plant on Local Cotton Acreage: A Spatial Approach

Darren Hudson, Bing Liu and Michael Farmer, Texas Tech University, Lubbock, TX

4:15 PM Impacts on Southeastern Cotton Industry By Savannah Port and Panama Canal Expansions

Forrest Stegelin, University of Georgia, Athens, GA

4:30 PM Competition from Synthetic Fibers and Its Impact on the Future of Cotton

Srinivasa Konduru¹, **Mechel Paggi**² and Fumiko Yamazaki², (1)California State University, Fresno, CA, (2)Institute of Food and Agriculture, Fresno, CA

4:45 PM Effect of Soil Nitrogen Rates on Residual Soil N, Plant Growth Parameters, Yield, and Quality: An Economic Analysis

Chandra K Dhakal¹, Kelly Y Lange¹, Megha N Parajulee² and Eduardo K Segarra¹, (1)Texas Tech University, Lubbock, TX, (2)2 Texas A&M AgriLife Research and Extension Center, Lubbock, TX

Thursday, January 7, 2016

COTTON ECONOMICS & MARKETING - THURSDAY EARLY MORNING

Preservation Hall Studio 9 (New Orleans Marriott) - 8:00 AM-10:00 AM

8:00 AM Business/Planning Meeting

9:00 AM Determining the Economically Efficient Planter Size and Seed Loading Method for Irregularly Shaped Fields in West Tennessee

Aaron Smith, Chris Boyer, Michael Buschermohle and Becky Bowling, University of Tennessee, Knoxville, TN

9:15 AM Evaluation of Profitability as Influenced by Practices to Improve Irrigation Efficiency of Cotton in Arkansas

Amanda Free and Bill Robertson, University of Arkansas, Newport, AR

9:30 AM Fieldprint Calculator: The Effects of Irrigation and Tillage Practices on Sustainability in the Texas High Plains

Miranda Gillum and Phil Johnson, Texas Tech University, Lubbock, TX

Cotton Engineering-Systems Conference

Wednesday, January 6, 2016

COTTON ENGINEERING-SYSTEMS - WEDNESDAY LATE MORNING

Preservation Hall Studio 4 (New Orleans Marriott) - 10:00 AM-11:45 AM

10:00 AM Comparison of the FAO-56 Water Balance Model and the DSSAT Cropping System Model for Cotton Irrigation Scheduling in Arizona

Kelly Thorp, Kevin Bronson and Doug Hunsaker, USDA-ARS, Maricopa, AZ

10:15 AM Primed Acclimation Irrigation Strategies: Further Evaluation

Calvin Meeks¹, Wesley M. Porter¹, Diane Rowland² and John L. Snider¹, (1) University of Georgia, Tifton, GA, (2) University of Florida, GAINESVILLE, FL

10:30 AM The Effects of Soil Moisture on Cotton Growth and Yield: A Multi-Varietal Investigation

Sydni C. Barwick¹, Wesley M. Porter¹, Jared R. Whitaker², Seth A. Byrd³, Guy D. Collins⁴, Chris Tyson¹, Billy Griffin¹, Shane Curry¹, Josh Lanier¹, Brent Allen¹, Pam Sapp¹, Raynor Churchwell¹, Brian Hayes¹, Jennifer Miller¹, Ray Hicks¹, Peyton Sapp¹, Brian Cresswell¹ and Andy Shirley¹, (1) University of Georgia, Tifton, GA, (2) University of Georgia, Statesboro, GA, (3) Texas A&M University, Lubbock, TX, (4) NC State University, Rocky Mount, NC

10:45 AM Practical Application of Soil Moisture Sensors for Irrigation Scheduling in Cotton

Ruixiu Sui and Jonnie Baggard, USDA-ARS, Stoneville, MS

11:00 AM Modelling of Evapotranspiration in Different Soils and Crops

Mukhammadzakhab Ismanov, Leo Espinoza and Christopher Henry, University of Arkansas Division of Agriculture Cooperative Extension Service, Little Rock, AR

11:15 AM Dynamic Variable Rate Irrigation Scheduling with University of Georgia Smart Sensor Array (UGA SSA)

Vasileios Liakos¹, Wesley M. Porter¹, Michael A Tucker¹, Xi Liang², Andre Torre Neto³ and George Vellidis¹, (1) University of Georgia, Tifton, GA, (2) University of Idaho, Aberdeen, ID, (3) Embrapa Instrumentation, São Carlos, Brazil

11:30 AM Terminating Cotton Irrigation in Different Soils

Brian Leib¹, Tim Grant¹ and Tyson Raper², (1) University of Tennessee, Knoxville, TN, (2) University of Tennessee, Jackson, TN

COTTON ENGINEERING-SYSTEMS - WEDNESDAY EARLY AFTERNOON

Preservation Hall Studio 4 (New Orleans Marriott) - 1:30 PM-3:15 PM

1:30 PM Integration of Ground- and UAS-Platforms for the Evaluation of Cultivar Performance (phenotyping) and Experimental Treatments

Juan Landivar¹, Murilo Maeda¹, Josh McGinty², Jinha Jung³, Ruizhi Chen³, Anjin Chang³, Tianxing Chu³, Juan Enciso⁴ and Chenghai Yang⁵, (1) Texas A&M AgriLife Research, Corpus Christi, TX, (2) Texas A&M University, College Station, TX, (3) Texas A&M University - Corpus Christi, Corpus Christi, TX, (4) Texas A&M AgriLife Research, Weslaco, TX, (5) USDA-ARS, College Station, TX

1:45 PM Development of a Ground-Based Platform for Plant Phenotyping and Crop Management Decisions

Murilo Maeda¹, Juan Landivar¹, Josh McGinty², Jinha Jung³, Ruizhi Chen³, Anjin Chang³, Juan Enciso⁴ and Tianxing Chu³, (1) Texas A&M AgriLife Research, Corpus Christi, TX, (2) Texas A&M University, College Station, TX, (3) Texas A&M University - Corpus Christi, Corpus Christi, TX, (4) Texas A&M AgriLife Research, Weslaco, TX

2:00 PM Unmanned Aerial System (UAS) Assisted Framework for the Selection of High Yielding Cultivars

Jinha Jung¹, Anjin Chang¹, Juan Landivar², Murilo Maeda², Ruizhi Chen¹, Tianxing Chu¹, Juan Enciso³ and Chenghai Yang⁴, (1)Texas A&M University - Corpus Christi, Corpus Christi, TX, (2)Texas A&M AgriLife Research, Corpus Christi, TX, (3)Texas A&M AgriLife Research, Weslaco, TX, (4)USDA-ARS, College Station, TX

2:15 PM Unmanned Aerial System (UAS) Based Cotton Growth Monitoring System

Anjin Chang¹, Jinha Jung¹, Juan Landivar², Murilo Maeda², Ruizhi Chen¹, Juan Enciso³, Tianxing Chu¹ and Chenghai Yang⁴, (1)Texas A&M University - Corpus Christi, Corpus Christi, TX, (2)Texas A&M AgriLife Research, Corpus Christi, TX, (3)Texas A&M AgriLife Research, Weslaco, TX, (4)USDA-ARS, College Station, TX

2:30 PM Unmanned Aerial System (UAS) for Precision Agriculture: First Results from a Growing Cycle of Cotton

Ruizhi Chen¹, Tianxing Chu¹, Juan Landivar², Jinha Jung¹, Chenghai Yang³, Anjin Chang¹, Juan Enciso⁴ and Murilo Maeda², (1)Texas A&M University - Corpus Christi, Corpus Christi, TX, (2)Texas A&M AgriLife Research, Corpus Christi, TX, (3)USDA-ARS, College Station, TX, (4)Texas A&M AgriLife Research, Weslaco, TX

2:45 PM Site-Specific Topguard Application Based on Aerial Imagery for Effective Management of Cotton Root Rot

Chenghai Yang¹, Gary N. Odvody², J. Alex Thomasson³, Thomas Isakeit³ and Robert L. Nichols⁴, (1)USDA-ARS, College Station, TX, (2)Texas AgriLife Research and Extension Center, Corpus Christi, TX, (3)Texas A&M University, College Station, TX, (4)Cotton Incorporated, Cary, NC

3:00 PM Aerial Electrostatic Spray Deposition and Canopy Penetration in Cotton

Daniel E Martin, USDA-ARS, College Station, TX

COTTON ENGINEERING-SYSTEMS - WEDNESDAY LATE AFTERNOON

Preservation Hall Studio 4 (New Orleans Marriott) - 4:00 PM-5:30 PM

4:00 PM LIDAR Scanning of Cotton for Canopy Height, Width and Boll Counts

Andrew N French¹, Michael A Gore² and Alison L Thompson¹, (1)USDA-ARS, Maricopa, AZ, (2)Cornell University, Ithaca, NY

4:15 PM Influence of Planter Width, Planting Speed and Seed Loading Methods on Planting Efficiency for Cotton Production

Michael Buschermohle, Aaron Smith, Chris Boyer, Becky Bowling and Christine Buschermohle, University of Tennessee, Knoxville, TN

4:30 PM Low-Resolution Mid-Infrared Reflection Analysis for Discernment of Contaminants in Seed Cotton

Wenbin Jiang¹, Derek P. Whitelock², Gary Rayson¹ and Ed Hughs², (1) Department of Chemistry and Biochemistry, New Mexico State University, Las Cruces, NM, (2)USDA-ARS Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM

4:45 PM Reliability Testing of an On-Harvester Cotton Weight Measurement System

John Wanjura¹, Mathew Pelletier¹, Greg Holt¹, Mark Kelley² and Randy Boman³, (1)USDA ARS, Lubbock, TX, (2)Texas AgriLife Extension Service, Lubbock, TX, (3)Oklahoma State University, Altus, OK

5:00 PM Exothermic Reactions for Use in Cotton Desiccation

Mathew Pelletier¹, Greg Holt¹, John Wanjura¹, Paul Funk² and John Burke³, (1)USDA ARS, Lubbock, TX, (2)USDA-ARS, Mesilla Park, NM, (3)USDA-ARS, Lubbock, TX

5:15 PM Girdling Defoliation 2015

Paul Funk¹, Mathew Pelletier² and John Wanjura², (1)USDA-ARS, Mesilla Park, NM, (2)USDA ARS, Lubbock, TX

Cotton Ginning Conference

Wednesday, January 6, 2016

COTTON GINNING - WEDNESDAY EARLY AFTERNOON

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

1:30 PM Quality of 2015 Cotton Crop

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

1:45 PM New Innovations in USDA Cotton Classification

Darryl Earnest, USDA-AMS, Memphis, TN

2:00 PM Field Evaluation of High-Performance Lummus Gin Machinery – 2015

Ross D Rutherford¹, Mark D Cory², Russell M Sutton¹ and Daniel E Gonzalez³,
(1)Lummus Corporation, Lubbock, TX, (2)Lummus Corporation, Savannah, GA, (3)Lummus Corporation, Buenos Aires, Argentina

2:15 PM The Brave - a New Bailing Solution from Cherokee Fabrication

Steve Evans, Cherokee Engineering, Lubbock, TX

2:30 PM U.S. Perspective of Australian Gin Safety

James L. Shepard, Texas Cotton Ginners Trust, Austin, TX

2:45 PM U.S. Perspective of Australian Gin Safety 1

Sid Brough, Edcot Coop Gin, Odem, TX

3:00 PM U.S. Perspective of Australian Gin Safety 2

Daniel R. Luehrs, Edcot Coop Gin, Odem, TX

3:15 PM Panel Discussion

3:25 PM Break

COTTON GINNING - WEDNESDAY LATE AFTERNOON

Preservation Hall Studios 2 & 3 (New Orleans Marriott) - 4:00 PM-5:30 PM

4:00 PM New Additions to Cherokee's Product Line

Mike Greene, Cherokee Fabrication, Salem, AL

4:15 PM Update on High-Performance Ginning and Lint Cleaning from Lummus

Mark D Cory, Lummus Corporation, Savannah, GA and **Ross D Rutherford**, Lummus Corporation, Lubbock, TX

4:30 PM Practical Use of Electronic Technologies to Track Modules

Ed M. Barnes, Cotton Incorporated, Cary, NC

4:50 PM Practical Use of Electronic Technologies to Track Modules 2

Jonathan McBride, Silver Creek Gin, Holly Bluff, MS

5:00 PM Practical Use of Electronic Technologies to Track Modules 3

Todd Waters, Coastal Carolina Gin, LLC, Pantego, NC

5:10 PM Practical Use of Electronic Technologies to Track Modules 4

Christopher Murray, John Deere Des Moines Works, Ankeny, IA

5:20 PM Panel Discussion

Thursday, January 7, 2016

JOINT SESSION: COTTON ENGINEERING-SYSTEMS AND GINNING - THURSDAY MORNING

Preservation Hall Studios 2 & 3 (New Orleans Marriott) - 8:15 AM-12:00 PM

8:15 AM Ginning Trends - Managing for Survival

Thomas D. Valco, USDA, ARS, Stoneville, MS and Harrison Ashley, National Cotton Council, Cordova, TN

8:30 AM Estimating Cotton Stripper Power Requirements

Randy Taylor¹, John Wanjura², Wesley M. Porter³ and Mathew Pelletier², (1) Oklahoma State University, Stillwater, OK, (2)USDA ARS, Lubbock, TX, (3) University of Georgia, Tifton, GA

8:45 AM Continuous Monitoring of Moisture in Round Modules during Open Storage

Menghe M Miao and Stuart Gordon, CSIRO, Waurin Ponds, Victoria, Australia

9:00 AM Storability of Stripped Cotton in Round Modules

Kevin Edwards¹, William B Faulkner¹, John Wanjura² and Josh McGinty³, (1) Texas A&M, College Station, TX, (2)USDA ARS, Lubbock, TX, (3)Texas A&M University, College Station, TX

9:15 AM Lint and Seed Moistures of Microwave-Dried Seed Cotton

Kevin Baker, USDA, Agricultural Research Service, Mesilla Park, NM

9:30 AM Results from Cotton Incorporated's Natural Resource Survey and Implications for Engineering Research

Edward M. Barnes¹, Kater Hake¹, Jesse Daystar², Melissa Bastos¹ and Ryan W Kurtz¹, (1)Cotton Incorporated, Cary, NC, (2)Duke University, Durham, NC

9:45 AM High Quality Yarns from High Speed Roller Ginning of Upland Cotton

Christopher D. Delhom¹, Carlos B. Armijo² and Ed Hughs², (1)USDA-ARS Southern Regional Research Center, New Orleans, LA, (2)USDA-ARS Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM

10:00 AM Break

10:15 AM Controlled-Batt Saw-Type Lint Cleaner Fiber Effects Related to Fiber Length

Richard K Byler, USDA-ARS Cotton Ginning, Stoneville, MS and Christopher D. Delhom, USDA-ARS Southern Regional Research Center, New Orleans, LA

10:30 AM Measuring Seed Cotton Mass Flow Rate By Pressure Drop Across a Blowbox: Gin Testing

Robert G. Hardin, USDA-ARS, Stoneville, MS

10:45 AM Cryogenically Treated Gin Saw Wear Test - Second Season

Ed Hughs, USDA-ARS Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM and Bobby Hardin, USDA-ARS, Stoneville, MS

11:00 AM Preliminary Evaluation of Gin Stand Feeder and Lint Slide Moisture Addition on Ginning, Fiber Quality, and Textile Processing of Western Cotton

Derek P. Whitelock¹, Carlos B. Armijo¹ and Christopher D. Delhom², (1) USDA-ARS Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM, (2)USDA-ARS Southern Regional Research Center, New Orleans, LA

11:15 AM A Preliminary Investigation into the Removal of Plastic Wrap during Ginning and Textile Processing

Marinus H.J. van der Sluijs and Mark Frejiah, CSIRO Manufacturing, Waurin Ponds, Australia

11:30 AM Cotton Warehousing Efficiencies

Lauren Hazelrigs¹, William B Faulkner² and Ronald Lacey¹, (1)Texas A&M University, College Station, TX, (2)Texas A&M, College Station, TX

11:45 AM Student Paper Awards

Brock Faulkner, TAMU, College Station, TX, Afghanistan

Cotton Improvement Conference

Wednesday, January 6, 2016

COTTON IMPROVEMENT GRADUATE STUDENT COMPETITION - WEDNESDAY EARLY MORNING

Preservation Hall Studios 7 & 8 (New Orleans Marriott) - 8:30 AM-9:45 AM

8:30 AM Tackling GE Adventitious Presence in Cotton Breeding Nurseries: Development of Reverse HT Trait Selection

Ryan Gregory¹, Jane Dever², Glen Ritchie¹ and Peter A. Dotray¹, (1)Texas Tech University, Lubbock, TX, (2)Texas A&M AgriLife Research, Lubbock, TX

8:45 AM Heterologous Expression of Rice SUMO E3 Ligase (OsSIZ1) Enhances Drought and Heat Tolerance in Transgenic Cotton

Neelam Mishra¹, Li Sun¹, Xunlu Zhu¹, Hong Luo², John Burke³, Paxton Payton⁴ and Hong Zhang¹, (1)Texas Tech University, Lubbock, TX, (2)Clemson University, Clemson, SC, (3)USDA-ARS, Lubbock, TX, (4)United States Department of Agriculture, Lubbock, TX

9:00 AM Chromosome Substitution Approach Towards Introgressing Novel Traits from *G. barbadense* (Pima) into *G. hirsutum* (Upland)

Drutdaman Bhangui¹, C. Wayne Smith² and David Stelly², (1)Texas A&M, College Station, TX, (2)Texas A&M University, College Station, TX

9:15 AM Within Canopy Distribution of Cotton Yield and Quality

Matthew Indest, Gerald Myers and Bikash Bhandari, LSU Agricultural Center, Baton Rouge, LA

9:30 AM SNP Genotyping Using Kaspar Assays for Screening Upland Cotton Populations Containing Germplasm Introgressed from *Gossypium* Diploid Species

Ammani N. Kyanam, Amanda M. Hulse-Kemp, Fei Wang and David Stelly, Texas A&M University, College Station, TX

COTTON IMPROVEMENT GRADUATE STUDENT COMPETITION - WEDNESDAY LATE MORNING

Preservation Hall Studios 7 & 8 (New Orleans Marriott) - 10:15 AM-11:15 AM

10:15 AM Molecular Mapping of Lacinate Leaf Shape Gene (L-A2L) in Diploid Cotton (*Gossypium arboreum*) Revealed Its Orthologous Relationship with L-D2 Locus of Upland Cotton (*G. hirsutum*)

Baljinder Kaur, Ryan Andres and Vasu Kuraparthi, North Carolina State University, Raleigh, NC

10:30 AM Genetic Analysis of a Recombinant Inbred Line Population in *Gossypium barbadense*

Abdelraheem Abdelraheem¹, Richard Percy², Mike Gore³, Jane Dever⁴ and Jinfa Zhang¹, (1)New Mexico State University, Las Cruces, NM, (2)USDA-ARS, College Station, TX, (3)Cornell University, Ithaca, NY, (4)Texas A&M AgriLife Research, Lubbock, TX

10:45 AM Determination of Lipid in Cotton Chromosomal Substitution Lines By Fourier Transform Infrared Spectroscopy

Diwas Kumar Silwal, Nsoki Phambu, Bharat Pokharel and Ahmad Aziz, Tennessee State University, Nashville, TN

11:00 AM Phenotyping Drought Tolerance

Dustin Wilkerson and Steve Hague, Texas A&M University, College Station, TX

COTTON IMPROVEMENT - WEDNESDAY EARLY AFTERNOON

Preservation Hall Studios 7 & 8 (New Orleans Marriott) - 1:30 PM-3:00 PM

1:30 PM Understanding the Cotton Fiber Elongation Process Using Short Fiber Mutants, the Ligon Lintless-1 (Li1) and -2 (Li2) as an Experiment Model System

Marina Naoumkina¹, Gregory N Thyssen², David D Fang¹, Rickie B Turley³ and Doug J Hinchliffe², (1)Cotton Fiber Bioscience Unit, USDA ARS, New Orleans, LA, (2)Cotton Chemistry and Utilization Research Unit, USDA ARS, New Orleans, LA, (3)Crop Genetics Research Unit, USDA ARS, Stoneville, MS

1:45 PM Mapping By Sequencing and RNA-Seq in Upland Cotton (*Gossypium hirsutum*) Line MD52ne Identifies Candidate Genes for Fiber Strength and Quality

Md S Islam¹, Linghe Zeng², Gregory N Thyssen³, Christopher D. Delhom¹, Hee Jin Kim¹, Ping Li¹ and David D Fang⁴, (1)USDA ARS, New Orleans, LA, (2) USDA-ARS, Stoneville, MS, (3)Cotton Chemistry and Utilization Research Unit, USDA ARS, New Orleans, LA, (4)Cotton Fiber Bioscience Unit, USDA ARS, New Orleans, LA

2:00 PM RNAi PHYA1 Event in Crosses with Upland Elite Lines

Johnie N Jenkins¹, Jack C McCarty¹, Sukumar Saha², Martin J Wubben¹, Dewayne D Deng¹ and Ibrokhim Abdurakhmonov³, (1)USDA-ARS, Mississippi State, MS, (2)ARS, Mississippi State, MS, (3)Center for Genomics and Bioinformatics, Tashkent, Uzbekistan

2:15 PM Terpenoid Aldehydes - a Role in Host Plant Resistance

Jodi Scheffler¹, Pameka Sanders Johnson², Randall G. Luttrell³ and Gregory Chad Roberts³, (1)USDA-ARS, Stoneville, MS, (2)USDA-ARS CGRU, Stoneville, MS, (3)USDA-ARS SIMRU, Stoneville, MS

2:30 PM : Three Years of Field Performance Results of Reniform Nematode Resistant Germplasm Lines

Roelof Sikkens¹, David Weaver¹, Kathy Lawrence² and Robert L. Nichols³, (1) Department of Crop, Soil and Environmental Sciences, Auburn University, AL, (2)Auburn University, Auburn, AL, (3)Cotton Incorporated, Cary, NC

2:45 PM The Use of Disease Severity Variables in Predicting the Efficacy of FOV4 Resistance Selection

Nicholas E. Clark¹, TariLee Frigulti², Robert B Hutmacher³, Steven D. Wright², Mark Keeley³ and Mauricio Ulloa⁴, (1)University of California Cooperative Extension, Hanford, CA, (2)University of California Cooperative Extension, Tulare, CA, (3)University of California Cooperative Extension, Shafter, CA, (4) USDA-ARS, Lubbock, TX

COTTON IMPROVEMENT - WEDNESDAY LATE AFTERNOON

Preservation Hall Studios 7 & 8 (New Orleans Marriott) - 3:30 PM-4:30 PM

3:30 PM Map-Based Cloning of the Major Leaf Shape Gene (L^o-D1) in Upland Cotton (*Gossypium hirsutum* L.)

Vasu Kuraparthi¹, Ryan Andres¹, Baljinder Kaur¹, Rich Tuttle¹, Viktoriya Coneva², Margaret Frank², Sang-Won Han¹, Linglong Zhu¹, Hui Fang¹, Marcela Rojas-Pierce¹, Candace Haigler¹, Dan Chitwood², Don Jones³ and Daryl Bowman¹, (1)North Carolina State University, Raleigh, NC, (2)Danforth Plant Sciences Center, St Louis, MO, (3)Cotton Incorporated, Cary, NC

3:45 PM A Simple Low-Cost Method for Detecting and/or Tracking Specific Copy Number Variants (CNV) in *Gossypium*

Robert N Vaughn, Department of Soil & Crop Sciences, Texas A&M University Agrilife Research, College Station, TX

4:00 PM Unlocking the Genetic Potential of Upland Cotton: Insights into TM-1 Genome and Its Sub-Genomes

John Z Yu, USDA-ARS, College Station, TX

4:15 PM Measuring Diversity in *Gossypium hirsutum* Using the CottonSNP63K Array

Lori Hinze¹, Amanda Hulse-Kemp², Iain Wilson³, Qian-Hao Zhu³, Danny Llewellyn³, Jennifer Taylor³, Andrew Spriggs³, David Fang⁴, Mauricio Ulloa⁵, John Burke⁵, Marc Giband⁶, Jean-Marc Lacape⁶, Allen Van Deynze⁷, Joshua Udall⁸, Jodi Scheffler⁹, Steve Hague², Alan Pepper², James Frelichowski¹, Cindy Lawley¹⁰, Don Jones¹¹, Richard Percy¹ and David Stelly², (1)USDA-ARS, College Station, TX, (2)Texas A&M University, College Station, TX, (3)CSIRO Plant Industry, Black Mountain, Australia, (4)USDA-ARS, New Orleans, LA, (5)USDA-ARS, Lubbock, TX, (6)CIRAD, Montpellier, France, (7)University of California-Davis, Davis, CA, (8)Brigham Young University, Provo, UT, (9) USDA-ARS, Stoneville, MS, (10)Illumina Inc., San Francisco, CA, (11)Cotton Incorporated, Cary, NC

Thursday, January 7, 2016

COTTON IMPROVEMENT - THURSDAY EARLY MORNING

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

8:00 AM Phytohormonal Networks Promote Differentiation of Fiber Initials on Pre-Anthesis Cotton Ovules Grown in Vitro and in Planta

Hee Jin Kim¹, Doug J Hinchliffe², Barbara Triplett³, Jeffrey Z. Chen⁴, David Stelly⁵, Kathleen Yeater⁶, Hong S. Moon⁷, Matthew K Gilbert⁷, Gregory N Thyssen², Rickie B Turley⁸ and David D Fang⁹, (1)USDA-ARS, Southern Regional Research Center, New Orleans, LA, (2)Cotton Chemistry and Utilization Research Unit, USDA ARS, New Orleans, LA, (3)USDA, New Orleans, LA, (4)The University of Texas at Austin, Austin, TX, (5)Texas A&M University, College Station, TX, (6)USDA-ARS, Fort Collins, CO, (7)USDA-ARS, New Orleans, LA, (8)Crop Genetics Research Unit, USDA ARS, Stoneville, MS, (9)Cotton Fiber Bioscience Unit, USDA ARS, New Orleans, LA

8:15 AM Variation in the Number of Fibers per Seed Surface Area (mm²) within-Plant in Cotton (*Gossypium hirsutum*)

Addisu G Ayele, Eric F Hequet and Brendan Kelly, Texas Tech University, Lubbock, TX

8:30 AM Perspectives on Boll Sampling

Fred M Bourland, University of Arkansas-NEREC, Keiser, AR, Don Jones, Cotton Incorporated, Cary, NC and William C. Bridges, Clemson University, Clemson, SC

8:45 AM The Genetic Architecture of Cotton Fiber Quality in a Population Derived from High Quality Germplasm

B. Todd Campbell, USDA-ARS, Florence, SC

9:00 AM Divergent Selection in *Gossypium* for Fiber Length and Strength

Kari Hugie¹, C. Wayne Smith¹, Eric Hequet² and Kolbyn Joy³, (1)Texas A&M University, College Station, TX, (2)Texas Tech University, Lubbock, TX, (3) Monsanto Company, St. Louis, MO

9:15 AM Genotype By Environment Interactions for Lint Yield and Seed Quality Traits in the Regional High Quality Tests

Linghe Zeng, USDA-ARS, Stoneville, MS

9:30 AM New Breeding Data and Tools in Cottongen: The Community Resource for Cotton Genomics, Genetics and Breeding Research

Dorrie Main¹, Jing Yu¹, Chun-Huai Cheng¹, Sook Jung¹, Taein Lee¹, Ping Zheng¹, Richard Percy², B. Todd Campbell³ and Don Jones⁴, (1)Washington State University, Pullman, WA, (2)USDA-ARS, College Station, TX, (3)USDA-ARS, Florence, SC, (4)Cotton Incorporated, Cary, NC

9:45 AM 40 Years of Ag Research Funding at Cotton Incorporated - an Update

Kater Hake, Robert L. Nichols, Ed M. Barnes, Tom Wedegaertner, Don Jones and Ryan W Kurtz, Cotton Incorporated, Cary, NC

COTTON IMPROVEMENT - THURSDAY LATE MORNING - BUSINESS MEETING AND GROUP DISCUSSION

Preservation Hall Studios 7 & 8 (New Orleans Marriott) - 10:35 AM-11:30 AM

Cotton Insect Research and Control Conference

Wednesday, January 6, 2016

COTTON INSECT RESEARCH AND CONTROL ROUNDTABLE

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

11:00 AM Cotton Insect Research and Control Roundtable

Gus Lorenz, The University of Arkansas, Lonoke, AR and Jeff Gore, Mississippi State University, Stoneville, MS

COTTON INSECT RESEARCH AND CONTROL - WEDNESDAY EARLY AFTERNOON - STUDENT PAPER COMPETITION

Galerie 2 (New Orleans Marriott) - 1:30 PM-3:15 PM

1:30 PM Fungal Endophyte-Associated Volatile Organic Compounds As Deterrents to Sucking Pests of Cotton

Cody Gale¹, Charles P.-C. Suh², Jose L Perez² and Gregory A. Sword¹, (1)Texas A&M University, College Station, TX, (2)USDA-ARS, College Station, TX

1:45 PM The Compound Stresses of Tobacco Thrips (*Frankliniella fusca*) and Reniform Nematodes (*Rotylenchulus reniformis*) on Cotton Yield

Whitney Crow¹, Angus Catchot¹, Jeff Gore², Darrin M. Dodds³, Thomas Allen¹ and Don Cook², (1)Mississippi State University, Mississippi State, MS, (2)Mississippi State University, Stoneville, MS, (3)Mississippi State University, Starkville, MS

2:00 PM Seasonal Occurrence of Lepidopteran Pest of Soybean and the Implications for the Natural Refuge

Nick R Bateman¹, Angus Catchot¹, Jeff Gore², Don Cook², Fred Musser¹ and Trent Irby¹, (1)Mississippi State University, Mississippi State, MS, (2)Mississippi State University, Stoneville, MS

2:15 PM Regional Assessment of Cotton Bollworm, *Helicoverpa zea* (Boddie), Susceptibility to Diamide Insecticides

Andrew Adams¹, Jeff Gore², Angus Catchot¹, Fred Musser¹ and Don Cook², (1)Mississippi State University, Mississippi State, MS, (2)Mississippi State University, Stoneville, MS

2:30 PM Comparing Boll Injury and EILs for Species of a Boll-Feeding Sucking Bug Complex (Hemiptera: Miridae and Pentatomidae) on South Texas Cotton

James Glover, Texas A&M AgriLife Research and Department of Entomology, Corpus Christi, College Station, TX, Mike Brewer, Texas A&M AgriLife Research and Extension Center, Corpus Christi, TX and Gregory A. Sword, Texas A&M University, College Station, TX

2:45 PM Cotton Boll Weevil (*Anthonomus grandis*) Genome Sequencing and Population Genomics As Tools for Monitoring and Eradication

Tyler Jay Raszick¹, Charles P.-C. Suh², Raul Ruiz-Arce³ and Gregory A. Sword¹, (1)Texas A&M University, College Station, TX, (2)USDA-ARS, College Station, TX, (3)USDA-APHIS, Edinburg, TX

3:00 PM The Role of Nutrition in Susceptibility of *Helicoverpa Zea* Field Populations to Cry1Ac

Ashley Tessnow¹, Carrie Deans¹, Spencer Behmer¹, Bill Hutchinson², Marianne Pusztai-Carey³, Xianping Wang⁴ and Gregory A. Sword¹, (1)Texas A&M University, College Station, TX, (2)University of Minnesota, St. Paul, MN, (3)Case Western Reserve University, Cleveland, OH, (4)Yangtze University, Hubei, China

COTTON INSECT RESEARCH AND CONTROL - WEDNESDAY EARLY AFTERNOON - SESSION A

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

1:30 PM Cotton Insect Losses - 2015

Michael R Williams, Williams Pest Censors, INC, Abbeville, MS

1:45 PM At-Planting Management of Thrips in Mid-South Cotton

Don Cook¹, Scott D. Stewart², David Kerns³, Jeff Gore¹, Gus Lorenz⁴, Angus Catchot⁵, Glenn Studebaker⁶, Nick Seiter⁷, Moneen Jones⁸, Fred Musser⁵ and Sebe Brown³, (1)Mississippi State University, Stoneville, MS, (2)The University of Tennessee, Jackson, TN, (3)LSU AgCenter, Winnsboro, LA, (4)The University of Arkansas, Lonoke, AR, (5)Mississippi State University, Mississippi State, MS, (6)University of Arkansas, Keiser, AR, (7)University of Arkansas, Monticello, AR, (8)University of Missouri, Portageville, MO

2:00 PM Current Status of Tobacco Thrips (*Frankliniella fusca* Hinds) Neonicotinoid Resistance in the Eastern US

Anders S. Huseeth, Thomas M. Chappell and George G Kennedy, North Carolina State University, Raleigh, NC

2:15 PM Neonicotinoid Resistance in Tobacco Thrips: What Can We Learn from This Problem?

George G Kennedy and Anders S. Huseeth, North Carolina State University, Raleigh, NC

2:30 PM A New Bt Trait Mitigates Seedling Thrips in Cotton

Ames Herbert, Virginia Tech, Suffolk, VA, Mike Toews, University of Georgia, Tifton, GA, Jeremy K Greene, Clemson University, Blackville, SC, Dominic Reisig, North Carolina State University, Plymouth, NC, Ron Smith, Auburn University, Auburn, AL and Waseem Akbar, Monsanto Company, Chesterfield, MO

2:45 PM A New Biotech Trait for Management of Lygus, Fleahopper, and Thrips

Waseem Akbar, Jeffrey E Ahrens, Jason W Stelzer, Robert S Brown, Anilkumar Gowda, Thomas L Clark and John T Greenplate, Monsanto Company, Chesterfield, MO

3:00 PM Validation and Application of a Predictive Model for Thrips-Induced Injury to Cotton Based on Abiotic Inputs

Thomas M. Chappell and George G Kennedy, North Carolina State University, Raleigh, NC

3:15 PM Effect of Planting Date on Populations of Thrips

Jeremy K Greene¹, Francis Reay-Jones², Francesca Stubbins¹, Dan Robinson¹ and James Smoak¹, (1)Clemson University, Blackville, SC, (2)Clemson University, Florence, SC

COTTON INSECT RESEARCH AND CONTROL - WEDNESDAY LATE AFTERNOON - SESSION A

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

4:00 PM Zone Management - Is It Practical for Insect Pests in Midsouth Cotton?

Tina Gray Teague, Ark State Univ / Univ Ark Exp Sta, State University, AR

4:15 PM Are Cotton Water Stress, Age, and Cultivars Moderating Factors of Cotton Fleahopper Abundance and Associated Yield Loss?

Michael Brewer¹, Darwin Anderson¹ and Megha N. Parajulee², (1)Texas A&M AgriLife Research, Department of Entomology, Corpus Christi, TX, (2)Texas A&M AgriLife Research, Department of Entomology, Lubbock, TX

4:30 PM Influence of Nitrogen Fertilizer on Cotton Host-Plant Quality and Its Impact on Cotton Aphids

Megha N. Parajulee, **Abdul Hakeem** and Stanley C. Carroll, Texas A&M AgriLife Research, Department of Entomology, Lubbock, TX

4:45 PM Assessment of Mark/Recapture Methods and Sticky Card Color Considerations for Thrips in Mississippi

Daniel E Fleming and Fred Musser, Mississippi State University, Mississippi State, MS

5:00 PM Mechanical Pesticide for Thrips Control in Cotton

Anirudh Dhammi¹, David Stewart², Jiwei Zhu¹ and R. Michael Roe¹, (1)NC State University, Raleigh, NC, (2)Imerys, Roswell, GA

COTTON INSECT RESEARCH AND CONTROL - WEDNESDAY LATE AFTERNOON - STUDENT PAPER COMPETITION

Galerie 2 (New Orleans Marriott) - 4:00 PM-5:30 PM

4:00 PM Tightening Treatment Intervals to Maximize Control of Tarnished Plant Bugs in High Pressure Scenarios in the Mississippi Delta

Ty Smith¹, Angus Catchot¹ and Jeff Gore², (1)Mississippi State University, Mississippi State, MS, (2)Mississippi State University, Stoneville, MS

4:15 PM Value of Neonicotinoids in Mid-South Row Crop Systems

John H North¹, Angus Catchot¹, Jeff Gore², Don Cook², Darrin M. Dodds³ and Fred Musser¹, (1)Mississippi State University, Mississippi State, MS, (2) Mississippi State University, Stoneville, MS, (3)Mississippi State University, Starkville, MS

4:30 PM Termination of Insecticide Sprays for Tarnished Plant Bug

Benjamin C Thrash¹, Angus Catchot¹ and Jeff Gore², (1)Mississippi State University, Mississippi State, MS, (2)Mississippi State University, Stoneville, MS

4:45 PM Application Strategies to Improve Control of Tarnished Plant Bugs in the MS Delta

Brittany Lipsey, Mississippi State University, Starkville, MS, Angus Catchot, Mississippi State University, Mississippi State, MS and Jeff Gore, Mississippi State University, Stoneville, MS

5:00 PM Factors Influencing Honey Bee Abundance Across Agricultural Landscapes in the Midsouth

Adam Whalen¹, Angus Catchot¹, Jeff Gore², Scott D. Stewart³, Gus Lorenz⁴, Don Cook² and Fred Musser¹, (1)Mississippi State University, Mississippi State, MS, (2)Mississippi State University, Stoneville, MS, (3)The University of Tennessee, Jackson, TN, (4)The University of Arkansas, Lonoke, AR

5:15 PM Impacts of Neonicotinoid Resistance on Tobacco Thrips, Frankliniella fusca, in the Mid-South

Chelsie Hope Darnell¹, Angus Catchot¹, Fred Musser¹, Don Cook², Jeff Gore², Darrin M. Dodds¹ and Shannon Morsello³, (1)Mississippi State University, Mississippi State, MS, (2)Mississippi State University, Stoneville, MS, (3)North Carolina State University, Raleigh, NC

COTTON INSECT RESEARCH AND CONTROL BUSINESS MEETING

Galerie 3 (New Orleans Marriott) - 5:30 PM-7:00 PM

Thursday, January 7, 2016

COTTON INSECT RESEARCH AND CONTROL - THURSDAY MORNING - SESSION B

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

8:00 AM Arizona Pink Bollworm Eradication 2015 Program Update

Leighton R Liesner, Arizona Cotton Research and Protection Council, Phoenix, AZ

8:15 AM Rapid Identification of Helicoverpa armigera and Helicoverpa zea (Lepidoptera: Noctuidae) Using Ribosomal RNA Internal Transcribed Spacer 1

Omaththage P Perera¹, Kerry C Allen², Devendra Jain³, Matthew Purcell⁴, Nathan S Little² and Randall G. Luttrell², (1)USDA-ARS, Stoneville, MS, (2)USDA-ARS SIMRU, Stoneville, MS, (3)Maharana Pratap University of Agriculture and Technology, Udaipur, India, (4)USDA ARS Australian Biological Control Laboratory, Brisbane, Australia

8:30 AM Conventional to Bt Cotton Vis-à-Vis Bollworms to Whitefly: Cotton Cultivation Again Under Threat in Northern India
Satnam Singh¹, Suneet Pandher², Aman Sharma², Kulvir Singh² and Pankaj Rathore², (1)University of Kentucky, Lexington, KY, (2)Punjab Agricultural University, Faridkot, India

8:45 AM Wing Morphology of Boll Worm and Other Related Species
Mathew S Seymour, USDA, Stoneville, MS and Omaththage P Perera, USDA-ARS, Stoneville, MS

9:00 AM Volatile Compounds and the Pest-Deterrent Phenotype of Endophyte-Inoculated Cotton
Cody Gale, Texas A&M University, College Station, TX

9:15 AM Fungal Endophytes Can Negatively Affect Cotton Herbivores Above and Below Ground
Wenqing Zhou, James L Starr and Gregory A. Sword, Texas A&M University, College Station, TX

9:30 AM Oviposition choice of Two Lepidopteran Pests to Endophyte-Infect and Endophyte-Free Cotton Plants
Xingyuan Men, Entomology Department, College Station, TX

9:45 AM Beyond IPM: Fungal Endophytes in Cotton for Integrated Stress Management
Gregory A. Sword¹, Allison Jack², Vijay Verma¹, Cesar Valencia¹, Diana Castillo Lopez², Wenqing Zhou¹, Ashley Tessnow¹, Maria Julissa Ek-Ramos³, Steve Hague¹, Luis Marquez² and Geoffrey von Maltzahn², (1)Texas A&M University, College Station, TX, (2)Symbiota, Cambridge, MA, (3) Autonomous University of Nuevo León, Nuevo León, Mexico

COTTON INSECT RESEARCH AND CONTROL - THURSDAY MORNING - SESSION A

Galerie 3 (New Orleans Marriott) - 8:00 AM-11:00 AM

8:00 AM Transform™ Efficacy in Western US Cotton
Jesse Richardson¹, Peter Ellsworth², Larry Godfrey³ and Melissa Willrich Siebert¹, (1)Dow AgroSciences, Indianapolis, IN, (2)University of Arizona, Maricopa, AZ, (3)Department of Entomology, Davis, CA

8:15 AM Proven Yield Enhancement Plus Pest Efficacy with Diamond Insecticide
Diane Silcox Reynolds, ADAMA US, College Station, TX

8:30 AM A Comparison of Hartstack and Bucket Style Moth Traps for Bollworm
Scott D. Stewart¹, Sandy Steckel¹, David Kerns², Gus Lorenz³ and Nick Seiter⁴, (1)The University of Tennessee, Jackson, TN, (2)LSU AgCenter, Winnsboro, LA, (3)The University of Arkansas, Lonoke, AR, (4)University of Arkansas, Monticello, AR

8:45 AM Influence of Imidacloprid and Jasmonic Acid on Cotton Phytohormone Expression and Spider Mite Population Growth
David Kerns and **Sebe Brown**, LSU AgCenter, Winnsboro, LA

9:00 AM Effectiveness of Bt Cotton Towards Bollworms and Benefit of Supplemental Oversprays
David Kerns¹, Sebe Brown¹, Angus Catchot², Don Cook³, Jeff Gore³, Fangneng Huang⁴, Gus Lorenz⁵, Nick Seiter⁶, Scott D. Stewart⁷, Glenn Studebaker⁸ and Fei Yang⁴, (1)LSU AgCenter, Winnsboro, LA, (2)Mississippi State University, Mississippi State, MS, (3)Mississippi State University, Stoneville, MS, (4)LSU AgCenter, Baton Rouge, LA, (5)The University of Arkansas, Lonoke, AR, (6)University of Arkansas, Monticello, AR, (7)The University of Tennessee, Jackson, TN, (8)University of Arkansas, Keiser, AR

9:15 AM Incorporation of Transform™ Insecticide in Tarnished Plant Bug Programs: Efficacy, Yield and Economics in Large Plot Demonstration Trials
Larry C Walton, Dow AgroSciences, Tupelo, MS, Melissa Willrich Siebert, Dow AgroSciences, Indianapolis, IN, Robert Haygood, Dow AgroSciences, Collierville, TN, Jeff M Ellis, Dow AgroSciences, Sterlington, LA and John S Richburg, Dow AgroSciences, Headland, AL

9:30 AM Results from Cotton Incorporated's Natural Resource Survey and Implications for Entomology Research

Ryan W Kurtz¹, Jesse Daystar², Kater Hake¹, Melissa Bastos¹ and Ed M. Barnes¹, (1)Cotton Incorporated, Cary, NC, (2)Duke University, Durham, NC

9:45 AM Performance of WideStrike®3 Insect Protection in 2015

Amanda Jacobson, Dow AgroSciences, Greenville, MS, Bo Braxton, Dow AgroSciences, Greenville, SC, Larry C Walton, Dow AgroSciences, Tupelo, MS, John S Richburg, Dow AgroSciences, Headland, AL, Jeff M Ellis, Dow AgroSciences, Sterlington, LA, Robert Haygood, Dow AgroSciences, Collierville, TN, Randy Huckaba, Dow AgroSciences, Wake Forest, NC and Michael Lovelace, Dow AgroSciences, Lubbock, TX

10:00 AM Multiple Mechanism for Caterpillar Resistance to Bt: Don't Forget Our History

R. Michael Roe¹, Anirudh Dhammi¹, Jiwei Zhu¹ and Ryan W Kurtz², (1)NC State University, Raleigh, NC, (2)Cotton Incorporated, Cary, NC

10:15 AM Abscission Rate of Dual-Toxin Bt Cotton Reproductive Tissues from Bollworm

Dominic Reisig¹, Arun Babu², Mohammad-Amir Aghae¹, Mike Caprio³, Don Cook⁴, Jeremy K Greene⁵, Fred Musser⁶ and Francis Reay-Jones⁷, (1)North Carolina State University, Plymouth, NC, (2)North Carolina State University, Raleigh, NC, (3)Mississippi State University, Starkville, MS, (4)Mississippi State University, Stoneville, MS, (5)Clemson University, Blackville, SC, (6)Mississippi State University, Mississippi State, MS, (7)Clemson University, Florence, SC

10:30 AM Characterizing the Development and Survival of H. Zea and Injury to Different Cotton Tissue Types and Different Bt Protein Combinations for Use in IRM Modeling

Mohammad-Amir Aghae¹, Dominic Reisig¹, Mike Caprio², Don Cook³, Jeremy K Greene⁴, Fred Musser⁵ and Francis Reay-Jones⁶, (1)North Carolina State University, Plymouth, NC, (2)Mississippi State University, Starkville, MS, (3)Mississippi State University, Stoneville, MS, (4)Clemson University, Blackville, SC, (5)Mississippi State University, Mississippi State, MS, (6)Clemson University, Florence, SC

10:45 AM Modified Field-Cage Study to Estimate Lygus Treatment Thresholds in Texas Cotton

Abdul Hakeem, Megha N. Parajulee, Sean D. Coyle and Stanley C. Carroll, Texas A&M AgriLife Research, Department of Entomology, Lubbock, TX

Cotton Quality Measurements Conference

Wednesday, January 6, 2016

COTTON QUALITY MEASUREMENTS - WEDNESDAY EARLY MORNING

Galerie 4 (New Orleans Marriott) - 10:00 AM-11:30 AM

10:00 AM Progress Report on Understanding AFIS Seed Coat Nep Levels in Pre-Opened Slivers

Joe Montalvo and Terri Von Hoven, USDA-ARS-SRRC, New Orleans, LA

10:15 AM Fiber Moisture Content Measurements of Lint and Seed Cotton By a Small Microwave Instrument

James Rodgers, USDA-ARS-SRRC, New Orleans, LA, Jimmy Zumba, USDA-ARS, New Orleans, LA and Christopher D. Delhom, USDA-ARS Southern Regional Research Center, New Orleans, LA

10:30 AM Cotton Foreign Matter Classification By Shortwave Infrared Hyperspectral Imaging

Changying Li, and Ruoyu Zhang, University of Georgia, Athens, GA

10:45 AM Examination of Cotton Fibers and Common Contaminants Using an Infrared Microscope and a Focal-Plane Array Detector

Michael Santiago Cintron, USDA, New Orleans, LA and James Rodgers, USDA-ARS-SRRC, New Orleans, LA

11:00 AM Micronaire Measurements on Seedcotton and Cotton Fiber, In and Outside of Laboratory Using Micro NIR-Infrared Instruments

Jimmy Zumba, USDA-ARS, New Orleans, LA and James Rodgers, USDA-ARS-SRRC, New Orleans, LA

11:15 AM Upgraded Almeter Gives Detailed Measures of Fiber Length Parameters

Devron P. Thibodeaux, FIBER PHYSICS,LLC, Pickens, SC, Christopher D. Delhom, USDA-ARS Southern Regional Research Center, New Orleans, LA and Urs Meyer, texma.org AG, Oberglatt, Switzerland

COTTON QUALITY MEASUREMENTS - WEDNESDAY EARLY AFTERNOON

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

1:30 PM Influence of Fiber Quality on Draftometer Measurements

Christopher D. Delhom, USDA-ARS Southern Regional Research Center, New Orleans, LA and Devron P. Thibodeaux, FIBER PHYSICS,LLC, Pickens, SC

1:45 PM Evaluation of the Relationship Between HVI Leaf Grade and MDTA3 Measured Percent Trash

Derek P. Whitelock¹, Vikki B. Martin² and Ed M. Barnes², (1)USDA-ARS Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM, (2) Cotton Incorporated, Cary, NC

2:00 PM Calibration of the High Volume Instrument (HVI) Elongation Measurement

Kolby M McCormick, Eric Hequet and Brendan Kelly, Texas Tech University, Lubbock, TX

2:15 PM Extracting Cotton Fiber Maturity and Fineness Parameters from the AFIS Length Distribution

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

2:30 PM Analyzing Afis' Maturity Distributions of 104 Reference Cottons

Bugao Xu and Wenbin Ouyang, University of Texas at Austin, Austin, TX

2:45 PM An Evaluation of Cotton Fiber Cross-Sections with the Fiber Image Analysis Software (FIAS)

Suman Lamichhane, Eric Hequet and Brendan Kelly, Texas Tech University, Lubbock, TX

Cotton Soil Management and Plant Nutrition Conference

Wednesday, January 6, 2016

COTTON SOIL MANAGEMENT AND PLANT NUTRITION - WEDNESDAY EARLY MORNING

Mardi Gras Ballroom Salon D (New Orleans Marriott) - 8:00 AM-9:15 AM

8:00 AM Welcoming Remarks

8:05 AM Evaluation of Foliar Feeding of Cotton in Northeast Arkansas
Bill Robertson, University of Arkansas, Newport, AR

8:20 AM Using Soil EC to Identify Soil Sampling Zones for Nitrogen Management

Gaylon D. Morgan, Ronnie Schnell, Tony Provin, Dale A Mott, Dennis Coker, Dennis Coker and Mark McFarland, Texas A&M AgriLife Extension Service, College Station, TX

8:35 AM Mississippi's Centennial Rotation - Twelve Years of Rotation: Effect on Yield, Nutrient Uptake and Nutrient Removal

Dr. M. Wayne Ebelhar, Mississippi State University, Stoneville, MS

8:50 AM Nitrogen Fertilization and Critical Nitrogen Concentration for Contemporary High Yielding Cotton Under No-Tillage

Xinhua (Frank) Yin, University of Tennessee, Jackson, TN and Christopher Main, Dow AgroSciences, Medina, TN

COTTON SOIL MANAGEMENT AND PLANT NUTRITION - BUSINESS MEETING

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

10:00 AM Welcoming Remarks

10:10 AM Discussion

COTTON SOIL MANAGEMENT AND PLANT NUTRITION - WEDNESDAY LATE MORNING

Mardi Gras Ballroom Salon D (New Orleans Marriott) - 10:30 AM-11:45 AM

10:30 AM Welcoming Remarks

10:45 AM Evaluation of Cover Cropping and Tillage Management on Soil Health and Cotton Production in a Semi-Arid Environment

Katie L Lewis¹, Paul DeLaune² and Wayne Keeling¹, (1)Texas A&M AgriLife Research, Lubbock, TX, (2)Texas A&M AgriLife Research, Vernon, TX

11:00 AM Influence of Management Practices on Soil Health in Cotton Cropping Systems

Paul DeLaune¹, Partson Mubvumba¹ and Katie Lewis², (1)Texas A&M AgriLife Research, Vernon, TX, (2)Department of Plant and Soil Science, Texas Tech University, Lubbock, TX

11:15 AM Effect of Irrigation Timing on Cotton Production Under Various Tillage Strategies

Paul DeLaune and Partson Mubvumba, Texas A&M AgriLife Research, Vernon, TX

11:30 AM Effects of Potash and Seed Treatment on Performance of Two Cotton Varieties Grown in *R. Reniformis* Infested Soils

Harry Randall Smith¹, Gary W Lawrence², Richard L Harkess³, Kathy S Lawrence⁴, J Mike Phillips³, David J Lang³ and Patricia R Knight⁵, (1) Mississippi State University, Mendenhall, MS, (2)Mississippi State University, Starkville, MS, (3)Mississippi State University, Mississippi State, MS, (4) Auburn University, Auburn, AL, (5)Mississippi State University, Biloxi, MS

Cotton Utilization Conference

Thursday, January 7, 2016

COTTON UTILIZATION & QUALITY MEASUREMENT JOINT CONFERENCE - THURSDAY MORNING

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

10:30 AM Screening of Chromosomal Substitution Cotton Lines through Simple Sequence Repeats Markers Relevant to Seed Traits for Protein and Oil Contents

Deependra Bhatta¹, Ahmad Aziz¹, Sukumar Saha², Johnie N Jenkins³ and David Stelly⁴, (1)Tennessee State University, Nashville, TN, (2)ARS, Mississippi State, MS, (3)USDA-ARS, Mississippi State, MS, (4)Texas A&M University, College Station, TX

10:45 AM Ion Chromatography Separation of Cotton Surface Melezitose and Raffinose: Entomological vs. Plant Sugars

Donna V Peralta, ARS-USDA, New Orleans, LA, Chanel A Fortier, USDA, New Orleans, LA, Christopher D. Delhom, USDA-ARS Southern Regional Research Center, New Orleans, LA, Devron P. Thibodeaux, FIBER PHYSICS, LLC, Pickens, SC and James Rodgers, USDA-ARS-SRRC, New Orleans, LA

11:00 AM Metal Analysis of Cotton

Chanel A Fortier, USDA, New Orleans, LA, Jimmy Zumba, USDA-ARS, New Orleans, LA, James Rodgers, USDA-ARS-SRRC, New Orleans, LA and Donna V Peralta, ARS-USDA, New Orleans, LA

11:15 AM Cotton Foreign Matter Detection Using Hyperspectral Transmittance Imaging

Mengyun Zhang¹, Changying Li² and Fuzeng Yang¹, (1)Northwest A&F University, Yangling, China, (2)The University of Georgia, Athens, GA

11:30 AM Ozone Decay Rates in Presence of Skin Oils on Clothing

Mourad Krifa, Bryan Mitchell and Neil Crain, The University of Texas at Austin, Austin, TX

11:45 AM Performance of Raised 3-Thread Fleece Knitted Fabric with Different Face and Fleecy Yarns

Alaa Arafa Badr and Ashraf El-Nahrawy, Alexandria University, Alexandria, Egypt

Cotton Weed Science Research Conference

Wednesday, January 6, 2016

COTTON WEED SCIENCE RESEARCH - WEDNESDAY LATE MORNING

Mardi Gras Ballroom Salons A, B & C (New Orleans Marriott) - 11:00 AM-12:00 PM

11:00 AM Effect of Pre-Emergent Herbicide Applications on Environmentally Stressed Cotton

James W. Heiser, University of Missouri, Portageville, MO

11:15 AM Engenia Herbicide: A Systems Approach to Weed Management Stewardship in Cotton

Adam Hixson¹, Jacob Reed², Austin Koonce³, Chad Brommer⁴, Alvin Rhodes⁵, Kelly Liberator⁴, Greg Stapleton⁴ and Sanford Newell⁴, (1)BASF, Lubbock, TX, (2)BASF, Wolfforth, TX, (3)Texas Agrilife Research, Lubbock, TX, (4)BASF, Research Triangle Park, NC, (5)BASF, Madison, MS

11:30 AM Evaluation of Soil Herbicides for Pigweed and Morningglory Control in Xtend Cotton

Steve Li, Auburn University, Auburn, AL

11:45 AM Two Years of Pre-Plant Residual Herbicide Product Efficacy Trials on Texas High Plains Cotton

Blayne Reed, Texas A&M AgriLife Extension, Plainview, TX, John Villalba, Texas A&M AgriLife Extension, Tulia, TX and Wayne Keeling, Texas A&M AgriLife Research, Lubbock, TX

COTTON WEED SCIENCE RESEARCH - GRADUATE STUDENT SESSION

Mardi Gras Ballroom Salons A, B & C (New Orleans Marriott) - 1:30 PM-3:30 PM

1:30 PM Evaluation of the Fenton Reaction to Deactivate Contaminate Rates of 2,4-D on Non-Transgenic Cotton

Gary T Cundiff¹, Daniel B. Reynolds¹ and Thomas C Mueller², (1)Mississippi State University, Mississippi State, MS, (2)University of Tennessee, Knoxville, TN, TN

1:45 PM The Effect of Cotton (*Gossypium hirsutum* L.) Growth Stage on Injury and Yield When Subjected to a Sub-Lethal Concentration of Dicamba

John T Buol and Daniel B. Reynolds, Mississippi State University, Mississippi State, MS

2:00 PM Efficacy of Pethoxamid in Cotton and Crop Tolerance

James Rose¹, Tom Barber², Jason Norsworthy¹, Zachary Hill³ and Aaron Ross², (1)University of Arkansas, Fayetteville, AR, (2)University of Arkansas-Extension, Lonoke, AR, (3)University of Arkansas Monticello, Monticello, AR

2:15 PM Comparison of Xtendflex Weed Control Programs with a Glytol/Libertylink Program

Michael Ryan Miller¹, Jason Norsworthy¹, Lauren M Schwartz¹, Mohammad T Bararpour¹, Arlene Cotie² and Clay Starkey², (1)University of Arkansas, Fayetteville, AR, (2)Bayer Crop Science, Research triangle park, NC

2:30 PM Evaluation of Xtendflex Cotton Injury from Various Herbicide Tank Mix Combinations

Chase A. Samples¹, Darrin M. Dodds¹, Angus Catchot², Trent Irby², Daniel B. Reynolds², Greg Kruger³, John T. Fowler⁴, Michael T. Plumblee¹, Drew B. Denton¹ and Lucas Xavier Franca¹, (1)Mississippi State University, Starkville, MS, (2)Mississippi State University, Mississippi State, MS, (3)University of Nebraska, North Platte, NE, (4)Monsanto, St. Louis, MO

2:45 PM Comparison of Fluridone-Containing Weed Control Programs in Cotton

Mason L Young¹, Jason Norsworthy¹, Tom Barber² and Mark S McCown¹, (1) University of Arkansas, Fayetteville, AR, (2)University of Arkansas-Extension, Lonoke, AR

3:00 PM Evaluation of Cover Crop Burndown Options

Spencer McCown¹, Tom Barber², Jason Norsworthy¹, Matheus G Palhano¹ and Mason L Young¹, (1)University of Arkansas, Fayetteville, AR, (2)University of Arkansas-Extension, Lonoke, AR

3:15 PM Suitability of Cover Crops for the Midsouth

Matheus G Palhano¹, Jason Norsworthy¹, Chris J Meyer¹ and Tom Barber², (1)University of Arkansas, Fayetteville, AR, (2)University of Arkansas-Extension, Lonoke, AR

COTTON WEED SCIENCE RESEARCH - WEDNESDAY LATE AFTERNOON

Mardi Gras Ballroom Salons A, B & C (New Orleans Marriott) - 4:00 PM-5:00 PM

4:00 PM Specific Activity of Four Preemergence Herbicides on the Most Popular Weed Species in Cotton (*Gossypium barbadense*; cv. Giza 80) Cultivated in Minia University Farm

Sanaa Abdelhameed Ibrahim, Minia University, Minia, Egypt

4:15 PM Response of Cover Crops to Low Rates of Soil-Applied Cotton Herbicides

Zachary D Lancaster¹, Jason Norsworthy¹, Matheus G Palhano¹ and Tom Barber², (1)University of Arkansas, Fayetteville, AR, (2)University of Arkansas-Extension, Lonoke, AR

4:30 PM Rescue Treatments for Palmer Amaranth Control

Drew B. Denton¹, Darrin M. Dodds¹, Chase A. Samples¹, Lucas Xavier Franca¹, Michael T. Plumblee¹, Angus Catchot², Jason A. Bond³, Trent Irby² and Daniel B. Reynolds², (1)Mississippi State University, Starkville, MS, (2) Mississippi State University, Mississippi State, MS, (3)Mississippi State, Stoneville, MS

4:45 PM Auxin Technology in Texas High Plains Cotton

Misha R. Manuchehri¹, Peter A. Dotray¹, Wayne Keeling², Rand M. Merchant¹ and Seth Taylor¹, (1)Texas Tech University, Lubbock, TX, (2)Texas A&M AgriLife Research, Lubbock, TX

TECHNICAL CONFERENCES POSTER BOARD SESSION

Cotton Economics and Marketing Conference

POSTERS WILL BE ON DISPLAY IN PRESERVATION HALL STUDIO 9

Wednesday, January 6, 2016, 8:00 AM - 10:00 PM

Thursday, January 7, 2016, 8:00 AM - 12:00 PM

Mardi Gras Ballroom Salons E-H

Cotton Agronomy & Physiology Conference Posters

- Impacts and Benefits of Polyacrylamide (PAM) on Irrigation Management, Soil Conservation, and Water Quality in Mid-South Cotton Production-2015**
Brittany Deanna Barnes, Arkansas State University, Jonesboro, AR, Tina Gray Teague, Ark State Univ / Univ Ark Exp Sta, State University, AR and Michele Reba, USDA-ARS, Jonesboro, AR
- Evaluation of Cotton Development and Yield in Response to Irrigation Pattern**
Savana Davis, Darrin M. Dodds, Chase A. Samples, Michael T. Plumblee, Drew B. Denton and Lucas Xavier Franca, Mississippi State University, Starkville, MS
- Ametryn: A Potential Herbicide Option in Cotton?**
Lucas Xavier Franca¹, Darrin M. Dodds¹, Jason A Ferrell², Tom Barber³, Drew B. Denton¹, Michael T. Plumblee¹ and Chase A. Samples¹, (1) Mississippi State University, Starkville, MS, (2)University of Florida, Gainesville, FL, (3)University of Arkansas-Extension, Lonoke, AR
- Cotton Response to Chelated Fertilizer Formulations in a Semi-Arid Environment**
Kristie Keys, Texas A&M AgriLife Extension Service, Lubbock, TX, Mark Kelley, Texas AgriLife Extension Service, Lubbock, TX and Katie Lewis, Department of Plant and Soil Science, Texas Tech University, Lubbock, TX
- The Effectiveness of Annual vs. Biennial Strip Tillage in Upland Cotton on Lint Yield and Plant Growth**
Robert Joseph Longest, Virginia Tech, Blacksburg, VA
- Cotton Partnered with High-Biomass Rye Cover Crops: Assessing Water Use Efficiency with Plant-Based Irrigation Scheduling**
Calvin Meeks, John L. Snider, A. Stanley Culpepper and Gary L. Hawkins, University of Georgia, Tifton, GA
- Cotton Yield Phenotyping**
Luke Obenhaus, TTU Plant and Soil Science, Lubbock, TX and Glen Ritchie, Texas Tech University, Lubbock, TX
- Measurements of Internal Boll and Canopy Temperatures of Four Diverse Cotton Cultivars**
Mathilda Pretorius¹, Toby FitzSimons² and Derrick Oosterhuis¹, (1) University of Arkansas, Fayetteville, AR, (2)Fayetteville, Fayetteville, AR
- Hail Damage Simulation in Early and Late Maturing Cotton Varieties in the Mid-South**
Michael T. Plumblee¹, Darrin M. Dodds¹, Tyson Raper², Andrea S. Jones³ and Dan D Fromme⁴, (1)Mississippi State University, Starkville, MS, (2)University of Tennessee, Jackson, TN, (3)University of Missouri, Portageville, MO, (4)LSU AgCenter, Alexandria, LA

10. **Effect of Deposition Aids on Insecticide Penetration into the Crop Canopy**
Chase A. Samples¹, Darrin M. Dodds¹, Angus Catchot², Trent Irby², Greg Kruger³, Daniel B. Reynolds², John T. Fowler⁴, Drew B. Denton¹, Lucas Xavier Franca¹ and Michael T. Plumblee¹, (1)Mississippi State University, Starkville, MS, (2)Mississippi State University, Mississippi State, MS, (3)University of Nebraska, North Platte, NE, (4)Monsanto, St. Louis, MO
11. **Soil Nutrient Survey for Phosphorus and Potassium in the Texas Blacklands and Coastal Plains Production Regions**
Chase L Vasbinder¹, Gaylon D. Morgan², Dale A Mott² and Dennis Coker², (1)Texas A&M University, College Station, TX, (2)Texas A&M AgriLife Extension Service, College Station, TX
12. **Lint Yield, Water Use Efficiency, and Economic Returns of Cotton in the West and South-East Texas Regions**
Nithya Rajan, Texas A&M University, College Station, TX, Ahmed Attia, Texas A&M AgriLife Research at Vernon, Vernon, TX and Shyam Nair, Sam Houston State University, Huntsville, TX
13. **Relationship Between NDVI at Early Bloom and Yield in Germplasm Evaluation Trials**
Philip J Bauer, B. Todd Campbell and Kenneth C Stone, USDA-ARS, Florence, SC
14. **Agronomic Performance of Cotton Grown Under High Rye Biomass Cover Crop**
Seth A. Byrd¹, Guy D. Collins², Ronnie Barentine³, Jared R. Whitaker⁴, Phillip M. Roberts⁵, A. Stanley Culpepper⁵, John L. Snider⁵, Wesley M. Porter⁵, Calvin Perry⁶, Bobby J. Washington⁶, Gary L. Hawkins⁵ and Daryl Chastain⁷, (1)Texas A&M University, Lubbock, TX, (2)NC State University, Rocky Mount, NC, (3)University of Georgia, Vienna, GA, (4)University of Georgia, Statesboro, GA, (5)University of Georgia, Tifton, GA, (6)University of Georgia, Camilla, GA, (7)Mississippi State University Delta Research and Extension Center, Stoneville, MS
15. **Performance of New Glandless Cotton Lines As a Function of Soil Type and Nitrogen Rates**
John Idowu¹, Jinfa Zhang¹, Robert Flynn², Jane Pierce¹ and Tom Wedegaertner³, (1)New Mexico State University, Las Cruces, NM, (2)New Mexico State University, Artesia, NM, (3)Cotton Incorporated, Cary, NC
16. **Seeding Rate Decisions and Impacts on Spatial Yield Variability in Northeast Arkansas Cotton**
Tina Gray Teague, Ark State Univ / Univ Ark Exp Sta, State University, AR, N. Ray Benson, University of Arkansas Division of Agriculture, Blytheville, AR and Amanda Hayes Mann, University of Arkansas Division of Agriculture, State University, AR
17. **Large Plot Cotton Variety Trial in Southeastern SC**
CANCELLED
18. **Development of an Industry-Wide Standard for Leaf Hairiness**
Gaylon D. Morgan, Texas A&M AgriLife Extension Service, College Station, TX, Fred M Bourland, University of Arkansas-NEREC, Keiser, AR, Jane Dever, Texas A&M AgriLife Research, Lubbock, TX, Dan D Fromme, LSU AgCenter, Alexandria, LA, John Gassett, University of Georgia, Griffin, GA, Silvano Ocheya, Texas A&M University, College Station, TX and Ed M. Barnes, Cotton Incorporated, Cary, NC
19. **Assessing Seedling Vigor in Commercially-Available Cotton Cultivars in Response to Planting Depth**
Tony Barnes¹, Calvin Meeks², John L. Snider² and Megan E. Babb-Hartman³, (1)University of Georgia, Pearson, GA, (2)University of Georgia, Tifton, GA, (3)University of Georgia, Griffin, GA

20. **Primed Acclimation: An Assessment to Improve Water Use Efficiency in a Sensor-Based Irrigation Scheduling System**
Calvin Meeks¹, John L. Snider¹, Wesley M. Porter¹, George Vellidis¹, Gary L. Hawkins¹ and Diane Rowland², (1)University of Georgia, Tifton, GA, (2)University of Florida, GAINESVILLE, FL
21. **Changes in Cotton Yield, Boll Development, and Growth in Response to Leaf and Terminal Removals at Various Growth Stages**
Michael A Jones, Clemson University, Florence, SC and Mark Zarnstorff, National Crop Insurance Services, Overland Park, KS
22. **Early Season Foliar Fungicide Applications for Improved Plant Health**
Dan D Fromme¹, Gaylon D. Morgan², Darrin M. Dodds³, Hunter Frame⁴, Keith Shannon¹ and Dale A Mott², (1)LSU AgCenter, Alexandria, LA, (2)Texas A&M AgriLife Extension Service, College Station, TX, (3)Mississippi State University, Starkville, MS, (4)Virginia Tech, Suffolk, VA
23. **Dryland Cotton Lint Yield and Quality Response in Long-Term Conventional and No-till Systems in Southwest Oklahoma**
Gary L. Strickland, Randy Boman, T. Shane Osborne and Jerry R. Goodson, Oklahoma State University, Altus, OK
24. **GbWRKY1 Transcription Factor Is a Key Molecular Switch for Plant Defense-to-Development Transition in Cotton**
Chao Li¹, Baohong Zhang¹, Longfu Zhu² and Xianlong Zhang², (1)East Carolina University, Greenville, NC, (2)Huzhong Agricultural University, Wuhan, China
25. **A Look at the Performance of Bollgard II® Xtendflex™ Cotton Varieties in Georgia during 2015**
Jared R. Whitaker¹, Shane Curry², E. Lanier Jordan³, Chris Tyson², Pam Sapp², Peyton Sapp², Wade Parker⁴, Brent Allen², Josh Lanier², Jennifer Miller², Andy Shirley², Brian Cresswell², Brian Hayes², Ray Hicks², Billy Griffin², Raynor Churchwell², William G. Tyson⁵, Thomas J. Hathorn⁶, Daniel Price⁷, Jake Price⁸, Nick D McGhee⁹, Justin D. Lanier¹⁰, Chris Earls¹¹, Tim Varnedore¹², Sam Ingram¹³, Mark Freeman¹⁴, Jason D. Edenfield¹⁵, Mark A. Frye¹⁶, Larry Varnadoe¹⁷, Joshua Dawson⁸, D. Scott Carlson¹⁸ and Seth A. Byrd¹⁹, (1)University of Georgia, Statesboro, GA, (2)University of Georgia, Tifton, GA, (3)University of Georgia Cooperative Extension Service - Baker County, Newton, GA, (4)University of Georgia, Millen, GA, (5)University of Georgia Cooperative Extension Service - Bulloch County, Statesboro, GA, (6)UGA Cooperative Extension Service - Calhoun County, Morgan, GA, (7)UGA Cooperative Extension Service - Cook County, Adel, GA, (8)UGA Cooperative Extension Service - Lowndes County, Valdosta, GA, (9)UGA Cooperative Extension Service - Terrell County, Dawson, GA, (10)UGA Cooperative Extension Service - Crisp County, Cordele, GA, (11)UGA Cooperative Extension Service - Candler County, Metter, GA, (12)UGA Cooperative Extension Service - Jeff Davis County, Hazlehurst, GA, (13)UGA Cooperative Extension Service - Effingham County, Springfield, GA, (14)UGA Cooperative Extension Service - Pulaski County, Hawkinsville, GA, (15)UGA Cooperative Extension Service - Toombs County, Lyons, GA, (16)UGA Cooperative Extension Service - Wayne County, Jesup, GA, (17)UGA Cooperative Extension Service - Worth County, Sylvester, GA, (18)UGA Cooperative Extension Service - Tift County, Tifton, GA, (19)Texas A&M University, Lubbock, TX
26. **Conventional Cotton Variety Performance in Georgia**
Jared R. Whitaker¹, Jeremy M. Kichler², Tim Varnedore³, Jennifer Miller⁴, James Jacobs⁵, Peng Chee⁴, Edward L Lubbers⁴, W. Don Shurley⁴ and Amanda Smith⁴, (1)University of Georgia, Statesboro, GA, (2)University of Georgia, Moultrie, GA, (3)UGA Cooperative Extension Service - Jeff Davis County, Hazlehurst, GA, (4)University of Georgia, Tifton, GA, (5)UGA Cooperative Extension Service - Pierce County, Blackshear, GA

27. **Assessing Physiological and Agronomic Responses of Cotton to Nitrogen Fertility in Southern Georgia**
John L. Snider, Glendon Harris, Phillip M. Roberts and Calvin Meeks, University of Georgia, Tifton, GA
28. **Effect of Common Production Practices on Yield and Fiber Quality of Late Planted Cotton Varieties in West Texas**
Jason Woodward and Katie Lewis, Department of Plant and Soil Science, Texas Tech University, Lubbock, TX
29. **Irrigation Scheduling Using Predawn Leaf Water Potential Improves Water Productivity in Drip Irrigated Cotton**
Daryl Chastain, Mississippi State University Delta Research and Extension Center, Stoneville, MS, John L. Snider, University of Georgia, Tifton, GA, Guy D Collins, North Carolina State University, Rocky Mount, NC, Derrick Oosterhuis, University of Arkansas, Fayetteville, AR, Jared R. Whitaker, University of Georgia, Statesboro, GA, Calvin Perry, University of Georgia, Camilla, GA and Seth A. Byrd, Texas A&M University, Lubbock, TX
30. **Effects of Moderate Water Stress on Four Commercial Cultivars**
Henrique Da Ros Carvalho¹, Carlos J Fernandez², Joe T Cothren¹, Juan Carlos Correa², Glen Ritchie³, Nithya Rajan¹ and Mourad Krifa⁴, (1)Texas A&M University, College Station, TX, (2)Texas A&M AgriLife Research, Corpus Christi, TX, (3)Texas Tech University, Lubbock, TX, (4)The University of Texas at Austin, Austin, TX
31. **Leaf Ontogeny Strongly Influences Photosynthetic Tolerance to Drought and High Temperature in *Gossypium hirsutum***
Daryl Chastain¹, John L. Snider², Guy D Collins³, Tim L. Grey², Jared R. Whitaker⁴, John Choiniski⁵, Calvin Perry⁶, Seth A. Byrd⁷ and Ronald Sorensen⁸, (1)Mississippi State University Delta Research and Extension Center, Stoneville, MS, (2)University of Georgia, Tifton, GA, (3)North Carolina State University, Rocky Mount, NC, (4)University of Georgia, Statesboro, GA, (5)University of Central Arkansas, Conway, AR, (6)University of Georgia, Camilla, GA, (7)Texas A&M University, Lubbock, TX, (8)USDA ARS, Dawson, GA
32. **On-Farm Evaluation of Cotton Variety Performance in NC**
Andrea Gibbs¹, Guy D. Collins², Keith L. Edmisten³, Andrew L Baucom⁴, Tim Britton⁵, Wendy Burgess⁶, Mike Carroll⁷, Craig Ellison⁸, Rod Gurganus⁹, Norman Harrell¹⁰, Jarette Hurry¹¹, Della King¹², Ivy Lanier¹³, Mac Malloy¹⁴, Jessica Morgan¹⁵, Paul Smith¹⁶, Anna-Beth Stewart¹⁷, Richard Rhodes¹¹ and Arthur Whitehead¹⁸, (1)NC State University, Swan Quarter, NC, (2)NC State University, Rocky Mount, NC, (3)NC State University, Raleigh, NC, (4)NC State University, Monroe, NC, (5)NC State University, Smithfield, NC, (6)NC State University, Winton, NC, (7)NC State University, New Bern, NC, (8)NC State University, Jackson, NC, (9)NC State University, Washington, NC, (10)NC State University, Wilson, NC, (11)NC State University, Windsor, NC, (12)NC State University, Clinton, NC, (13)NCDA&CS, Goldsboro, NC, (14)NC State University, Lumberton, NC, (15)NC State University, Wadesboro, NC, (16)NC State University, Gatesville, NC, (17)NC State University, Plymouth, NC, (18)NC State University, Halifax, NC
33. **Texas Rolling Plains On-Farm Cotton Evaluation Trials**
Jonathan Ramirez¹, Emi Kimura¹ and Gaylon D. Morgan², (1)Texas A&M AgriLife Extension Service, Vernon, TX, (2)Texas A&M AgriLife Extension Service, College Station, TX
34. **Transgenic Cotton Lines Over-Expressing Delta-12 Fatty Acid Desaturase (FAD2-4) Exhibit Improved Seedling Vigor Under Cool Temperatures**
John L. Snider¹, Kent Chapman², Viktor Tishchenko³ and Shanmukh Salimath², (1)University of Georgia, Tifton, GA, (2)University of North Texas, Denton, TX, (3)University of Georgia, Griffin, GA

35. **Assessing Growth Potential and Response to PGRs of New Cotton Varieties in NC**
Andrew L Baucom¹, Guy D. Collins², Keith L. Edmisten³, Tim Britton⁴, Wendy Burgess⁵, Mike Carroll⁶, Craig Ellison⁷, Andrea Gibbs⁸, Rod Gurganus⁹, Norman Harrell¹⁰, Jarette Hurry¹¹, Della King¹², Ivy Lanier¹³, Mac Malloy¹⁴, Jessica Morgan¹⁵, Paul Smith¹⁶, Anna-Beth Stewart¹⁷, Richard Rhodes¹¹ and Arthur Whitehead¹⁸, (1)NC State University, Monroe, NC, (2)NC State University, Rocky Mount, NC, (3)NC State University, Raleigh, NC, (4)NC State University, Smithfield, NC, (5) NC State University, Winton, NC, (6)NC State University, New Bern, NC, (7)NC State University, Jackson, NC, (8)NC State University, Swan Quarter, NC, (9)NC State University, Washington, NC, (10)NC State University, Wilson, NC, (11)NC State University, Windsor, NC, (12)NC State University, Clinton, NC, (13)NCDA&CS, Goldsboro, NC, (14)NC State University, Lumberton, NC, (15)NC State University, Wadesboro, NC, (16)NC State University, Gatesville, NC, (17)NC State University, Plymouth, NC, (18)NC State University, Halifax, NC
36. **Multi-Location Assessment of Heat Tolerance in Six Commercially-Available Cotton Cultivars**
John L. Snider¹, John Gassett², Dustin Dunn¹, Wesley M. Porter¹, Daryl Chastain³ and William Slaton⁴, (1)University of Georgia, Tifton, GA, (2) University of Georgia, Griffin, GA, (3)Mississippi State University Delta Research and Extension Center, Stoneville, MS, (4)University of Central Arkansas, Conway, AR
37. **2015 Texas Replicated Agronomic Cotton Evaluation (RACE) - Trial Summary**
Dale A Mott¹, Gaylon D. Morgan¹, Brent Batchelor², Corrie Bowen³, John Gordy⁴ and Stephen Janak⁵, (1)Texas A&M AgriLife Extension Service, College Station, TX, (2)Texas A&M AgriLife Extension Service, Bay City, TX, (3)Texas A&M AgriLife Extension Service, Wharton, TX, (4) Texas A&M AgriLife Extension Service, Rosenberg, TX, (5)Texas A&M AgriLife Extension Service, Columbus, TX

Cotton Disease Council Posters

38. **Cotton Disease Loss Estimate Committee Report, 2015**
Kathy Lawrence, Auburn University, Auburn, AL, Mary Olsen, University of Arizona, Tucson, AZ, Travis Faske, Univ of Arkansas, Lonoke, AR, John Mueller, Clemson University, Blackville, SC, Robert C Kemerait, University of Georgia, Tifton, GA, Charles Overstreet, LSU AgCenter, Baton Rouge, LA, Paul Price, Louisiana State University, Winnsboro, LA, Gary W Lawrence, Mississippi State University, Mississippi State, MS, Sam Atwell, University of Missouri, New Madrid, MO, Steve Thomas, New Mexico State University, Las Cruces, NM, Randy Bowman, Oklahoma State University, Altus, OK, Heather Young, University of Tennessee, Jackson, TN, Jason Woodward, Department of Plant and Soil Science, Texas Tech University, Lubbock, TX and Hillary L Mehl, Virginia Tech, Suffolk, VA
39. **Report of the Cottonseed Treatment Committee for 2015**
Craig Rothrock¹, Scott Winters¹, J. D. Barham², A. B. Beach³, Robert C Kemerait⁴, Heather M Kelly⁵, Hillary L Mehl⁶, Tom W Allen⁷, Jason Woodward⁸, Paul Price⁹, Gary W Lawrence¹⁰, Kathy Lawrence¹¹, M. B. Bayles¹² and P. D. Colyer¹³, (1)University of Arkansas, Fayetteville, AR, (2)University of Arkansas Division of Agriculture, Hope, AR, (3) University of Arkansas Division of Agriculture, Keiser, AR, (4)University of Georgia, Tifton, GA, (5)University of Tennessee, Jackson, TN, (6) Virginia Tech, Suffolk, VA, (7)Mississippi State University, Delta Research and Extension Center, Stoneville, MS, (8)Department of Plant and Soil Science, Texas Tech University, Lubbock, TX, (9)Louisiana State University, Winnsboro, LA, (10)Mississippi State University, Starkville, MS, (11)Auburn University, Auburn, AL, (12)Oklahoma State University, Stillwater, OK, (13)LSU AgCenter, Bossier City, LA

40. **Cotton Nematodes in Arkansas: Then and Now**
Wes Kirkpatrick¹, Gus Wilson², Katie McCrary-Sullivan³, Terry Kirkpatrick³ and Ronnie Bateman³, (1)Arkansas Extension Service, McGehee, AR, (2)Arkansas Extension Service, Lake Village, AR, (3) University of Arkansas Southwest Research & Extension Center, Hope, AR
41. **Cotton Root-Knot Nematode Management Using Velum Total on the High Plains of Texas**
Kerry Siders, Texas A&M AgriLife Extension Service, Levelland, TX
42. **Advances in Precision Placement of Telone II Soil Fumigant for Management of Nematodes**
Robert Haygood, Dow AgroSciences, Collierville, TN, Charles Overstreet, LSU AgCenter, Baton Rouge, LA, Jason Woodward, Texas A&M AgriLife Extension Service, Lubbock, TX, Terry Spurlock, University of Arkansas, Monticello, AR and Michael Lovelace, Dow AgroSciences, Lubbock, TX
43. **Response of Cotton Varieties to in-Furrow Applications of Velum Total**
Jason Woodward¹, Russ Perkins², Richard Roper³ and Xiaoxiao Liu¹, (1) Department of Plant and Soil Science, Texas Tech University, Lubbock, TX, (2)Bayer CropScience LP, Idalou, TX, (3)Texas Tech University, Lubbock, TX
44. **Interactive Effects of Thiodicarb and Fluopyram on Cotton Cultivars with Varying Reactions to Root-Knot Nematodes**
Richard Roper, Texas Tech University, Lubbock, TX, Jason Woodward, Department of Plant and Soil Science, Texas Tech University, Lubbock, TX, Russ Perkins, Bayer CropScience LP, Idalou, TX and Kenny Melton, Bayer CropScience, Lubbock, TX
45. **Reniform Nematode Reproduction on Soybean Cultivars and Breeding Lines in 2015**
Robert T. Robbins¹, Pengyin Chen², Grover Shannon³, Stella Kantartzis⁴, Zenglu Li⁵, Travis Fiske⁶, Jeff Velie², Larry Jackson², Edward Gbur² and Donald Dombek², (1)U of Arkansas, Fayetteville, AR, (2)Univ of Arkansas, Fayetteville, AR, (3)Univ of Missouri, Portageville, MO, (4) Southern Illinois University, Carbondale, IL, (5)University of Georgia, Athens, GA, (6)Univ of Arkansas, Lonoke, AR
46. **A Developmental Genomics Approach to Identify Meloidogyne Incognita Resistance in Gossypium hirsutum**
Shankar Pant, Brant McNeece, Bisho Ram Lawaju, Prakash Niraula, Gary W Lawrence and Vincent Klink, Mississippi State University, Starkville, MS
47. **Identification of microRNAs in the Cotton Root-Knot Nematode (Meloidogyne incognita)**
Chao Li¹, Robert L. Nichols², Xiaoping Pan¹, Baohong Zhang¹, Fuliang Xie¹ and Yanqiong Zhang¹, (1)East Carolina University, Greenville, NC, (2)Cotton Incorporated, Cary, NC
48. **Effect of Headline Applications on Target Spot in Cotton**
Wade Parker, University of Georgia, Millen, GA, Robert C Kemerait, University of Georgia, Tifton, GA, Mark Crosby, University of Georgia, Swainsboro, GA and Jared R. Whitaker, University of Georgia, Statesboro, GA
49. **Inoculum Level Effect of Corynespora Cassiicola on Evaluation of Cotton Resistance in a Controlled Environment**
Jing Chen, AUBURN UNIVERSITY, AUBURN, AL, **Ni Xiang**, AUBURN UNIVERSITY, Auburn, AL, David Weaver, Department of Crop, Soil and Environmental Sciences, Auburn University, AL and Kathy Lawrence, Auburn University, Auburn, AL
50. **Management of Cotton Root Rot in the Rolling Plains of Texas**
Emi Kimura¹, Jason Woodward² and Jonathan Ramirez¹, (1)Texas A&M AgriLife Extension Service, Vernon, TX, (2)Department of Plant and Soil Science, Texas Tech University, Lubbock, TX

51. **Involvement of *fub4*, a Putative Serine Hydrolase, in Fusaric Acid Biosynthesis in the Cotton Pathogen *Fusarium oxysporum* f. sp. *vasinfectum***
Frankie K Crutcher¹, Carlos S Ortiz¹, Lorraine Puckhaber¹, Robert D Stipanovic¹, Alois A Bell¹, Robert L. Nichols² and Jinggao Liu¹, (1)USDA-ARS, College Station, TX, (2)Cotton Incorporated, Cary, NC
52. **A PCR-Based Method for the Identification of Highly Pathogenic California Race 4 Isolates of *Fusarium oxysporum* f. Sp. *Vasinfectum***
Carlos S Ortiz¹, Jinggao Liu², Clint W Magill¹ and Alois A Bell², (1)Texas A&M University, College Station, TX, (2)USDA-ARS, College Station, TX
53. **An RNAi Construct of the P450 Gene CYP82D109 Leads to Increased Resistance to *Fusarium Oxysporum* f. Sp. *Vasinfectum* (Fov11) and Increased Feeding By *Helicoverpa Zea* Larvae**
Tanya A Wagner, Jinggao Liu, Charles P.-C. Suh, Lorraine Puckhaber, Alois Bell and Robert D Stipanovic, USDA-ARS, College Station, TX
54. **Population Structure and Dynamics Among *Fusarium oxysporum* Isolates Causing Wilt of Cotton**
A. A. Bell, J. Liu, C. S. Ortiz, J. Quintana, R. D. Stipanovic and F. K. Crutcher, USDA-ARS, College Station, TX
55. **Induction of Phytoalexins in Seabrook Sea Island, Pima S-7 and Pima S-6 Cottons after Inoculation with *Fusarium oxysporum* f. sp. *vasinfectum* Race-4**
Xiuting Zheng¹, **Robert D Stipanovic**¹, Lorraine Puckhaber¹, A. A. Bell¹ and Robert L. Nichols², (1)USDA-ARS, College Station, TX, (2)Cotton Incorporated, Cary, NC
56. **Recurrent Selection Performance for FOV Race 4 Resistance in Selected Germplasm and Progeny**
TariLee Frigulti¹, Nicholas E. Clark², Robert B Hutmacher³, Steven D. Wright¹, Mark Keeley³ and Mauricio Ulloa⁴, (1)University of California Cooperative Extension, Tulare, CA, (2)University of California Cooperative Extension, Hanford, CA, (3)University of California Cooperative Extension, Shafter, CA, (4)USDA-ARS, Lubbock, TX

Cotton Ginning Conference Posters

57. **Removing Seed Coat Fragments with a Lint Cleaner Grid Bar Air Knife**
Carlos B. Armijo, Derek P. Whitelock, Sidney E. Hughs and Marvis N. Gillum, USDA-ARS Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM

Cotton Improvement Conference Posters

58. **Genetic Mapping of Fiber Quality Traits in Upland Cotton Using SSR Markers**
Deepika Mishra¹, Bralíe Hendon¹, Robert Kelby Vise¹, Krishan Mohan Rai¹, Kari Hugie², C. Wayne Smith², Venugopal Mendu¹, Eric Hequet¹ and Dick Auld¹, (1)Texas Tech University, Lubbock, TX, (2)Texas A&M University, College Station, TX
59. **Water Use, Yield, and Fiber Quality Differences of Diverse Cotton (*Gossypium* spp.) Genotypes**
Travis Witt¹, Mauricio Ulloa², Dick Auld¹, Robert Schwartz³, Glen Ritchie¹, Mathew Pelletier⁴ and John Burke², (1)Texas Tech University, Lubbock, TX, (2)USDA-ARS, Lubbock, TX, (3)USDA-ARS, Conservation and Production Research Laboratory, Bushland, TX, (4)USDA ARS, Lubbock, TX

60. **Molecular Mapping of Fiber Yield Component Traits Using an Ultra-High-Density SNP Genetic Map of Cultivated Tetraploid Cottons**
Lorin Harvey¹, Ya-Dong Zhang², Yang Zhang¹, Chantel Scheuring¹, Yunhua Liu¹, Meiping Zhang¹, C. Wayne Smith¹, David Stelly¹, Shiaw-Pyng Yang³, David Caldwell³, Randall Kerstetter³, Steve Hague¹ and Hong-Bin Zhang¹, (1)Texas A&M University, College Station, TX, (2)Jiangsu Academy of Agricultural Sciences, Nanjing, China, (3) Monsanto Company, St. Louis, MO
61. **Effect of Directional Aestivation upon Fiber Quality and Yield Components of Cotton**
Tom Khuat, Lorin Harvey and Steve Hague, Texas A&M University, College Station, TX
62. **Compensatory Reactions in Blends of Cotton Sib Lines**
Gerald Myers, LSU Agricultural Center, Baton Rouge, LA, Fred M Bourland, University of Arkansas-NEREC, Keiser, AR, B. Todd Campbell, USDA-ARS, Florence, SC, Richard Percy, USDA-ARS, College Station, TX, Ted Wallace, Mississippi State University, Mississippi State, MS and Jinfa Zhang, New Mexico State University, Las Cruces, NM
63. **Using NDVI to Measure Poor Stands in Cotton**
Richard Hermes and Steve Hague, Texas A&M University, College Station, TX
64. **Dryland and Irrigated Commercial Variety Testing in Central and South Texas in 2015**
Dawn Deno, Steve Hague, C. Wayne Smith and Richard Hermes, Texas A&M University, College Station, TX
65. **Combining Ability of Ginning Efficiency in Upland Cotton**
Efrem Bechere, Linghe Zeng and Bobby Hardin, USDA-ARS, Stoneville, MS
66. **SNP-Based Inferences on Expression, Reproductive Ramifications and Inheritance of the Semigamy Gene of Cotton (*Gossypium barbadense* L.), a Rare Angiosperm Mutant Affecting Karyogamy**
Andrea Maeda and David Stelly, Texas A&M University, College Station, TX
67. **Population Structure for *G. barbadense* L. Chromosome Fragment Introgression with *G. hirsutum* L. through Random Mating**
Johnie N Jenkins¹, Jack C McCarty¹, **Dewayne D Deng**¹, Lige Geng² and Ruhangiz Rufa Mammadova³, (1)USDA-ARS, Mississippi State, MS, (2)Institute of Cereal and Oil Crops, Hebei Academy of Agricultural and Forestry Sciences, Shijiazhuang, China, (3)Genetic Resources Institute of Azerbaijan National Academy of Sciences, Baku, Azerbaijan

Cotton Insect Research and Control Conference Posters

68. **Development of a New Pheromone Dispenser for the Boll Weevil**
Charles P.-C. Suh¹, Amanda Ramsey², Gerry Bohmfalk² and John K. Westbrook¹, (1)USDA-ARS, College Station, TX, (2)Scentry Biologicals, Inc., Billings, MT
69. **Mortality of Bollworm and Tobacco Budworm Larvae Exposed to Microbial and Chemical Insecticides in Treated Bt and Non-Bt Cotton Assays**
Randall G. Luttrell¹, Michelle Mullen² and Nathan S Little¹, (1)USDA-ARS SIMRU, Stoneville, MS, (2)USDA ARS SIMRU, Stoneville, MS
70. **Spatial Relationships of Plant Bugs in Large Scale Cotton Operations: Do Edge and Ecotone Matter?**
Isaac L Esquivel, Texas A&M University, College Station, TX
71. **Susceptibility of Field Populations of the Cotton Bollworm to Purified Cry1Ac Protein and Cotton Leaf Tissues Containing Cry1Ac Protein**
Fei Yang, LSU Agcenter, Baton Rouge, LA and David Kerns, LSU Agcenter, Winnsboro, LA

72. **Western Tarnished Plant Bug Egg Development and Hatch Under Constant and Variable Temperatures**
Dale W. Spurgeon and Colin S. Brent, USDA, ARS, Maricopa, AZ
73. **Toxicity and Efficacy of Glufosinate on Twospotted Spider Mite in Cotton**
Sebe Brown and David Kerns, LSU AgCenter, Winnsboro, LA
74. **Laboratory and Field Evaluation of 4 Beauveria Bassiana Strains in Cotton**
Cesar Valencia¹, Vijay Verma¹, Cody Gale¹, Ashley Tessnow¹, Patricia Tamez-Guerra² and Gregory A. Sword¹, (1)Texas A&M University, College Station, TX, (2)Autonomous University of Nuevo León, Nuevo León, Mexico
75. **Effect of Water Levels on Fleahopper-Induced Fruit Losses in Cotton**
Sean D. Coyle, Abdul Hakeem, Megha N. Parajulee and Stanley C. Carroll, Texas A&M AgriLife Research, Department of Entomology, Lubbock, TX
76. **Remote Identification of Individual Volunteer Cotton Plants**
John K. Westbrook, Ritchie S. Eyster, Chenghai Yang and Charles P.-C. Suh, USDA-ARS, College Station, TX
77. **Insect Pest Management in Cotton Is Alive and Well in Tennessee**
Sandy Steckel and Scott D. Stewart, The University of Tennessee, Jackson, TN
78. **Baseline Susceptibility of *Lygus lineolaris* (Palisot de Beauvois) to Novaluron**
Katherine A Parys, Gordon Snodgrass, Randall G. Luttrell, Kerry C Allen and Nathan S Little, USDA-ARS SIMRU, Stoneville, MS
79. **Control of Insect Pests in Glandless Cotton: The Role of Biological Control**
Jane Pierce, Patricia Monk, John Idowu and David Richman, New Mexico State University, Las Cruces, NM
80. **Monitoring for Varietal Resistance to Tarnished Plant Bug in Mid-South Cotton**
Glenn Stuebaker¹, Fred M Bourland² and Logan Towles¹, (1) University of Arkansas, Keiser, AR, (2)University of Arkansas-NEREC, Keiser, AR
81. **Variation in Tobacco Thrips Infestations in Different Cotton Varieties**
Logan Towles and Glenn Stuebaker, University of Arkansas, Keiser, AR
82. **Laboratory and Field Evaluations of Four Strains of Beauveria Bassiana As an Endophytic Fungal Entomopathogen in Cotton**
Cesar Valencia¹, Vijay Verma¹, Cody Gale¹, Ashley Tessnow¹, Patricia Tamez-Guerra² and Gregory A. Sword¹, (1)Texas A&M University, College Station, TX, (2)Autonomous University of Nuevo León, Nuevo León, Mexico
83. **Residual Effect of Insecticides on the Control of the Adult Boll Weevil, *Anthonomus grandis*, in Cotton**
Geraldo Papa, João Antonio Zanardi Junior, Fernando Juari Celoto, Roberto da Silva and Renata Cristina Pizzolato Andrade, Unesp - Ilha Solteira/SP, Ilha Solteira/SP/Brazil, Brazil
84. **The Influence of Dioecism in Palmer Amaranth on Densities of Tarnished Plant Bugs in the MS Delta**
Drew B. Denton¹, Darrin M. Dodds¹, Chase A. Samples¹, Michael T. Plumblee¹, Lucas Xavier Franca¹, Angus Catchot², Trent Irby², Jason A. Bond³ and Daniel B. Reynolds², (1)Mississippi State University, Starkville, MS, (2)Mississippi State University, Mississippi State, MS, (3) Mississippi State, Stoneville, MS

85. **Damage of the Cotton Bollworm, *Helicoverpa Armigera*, on Cotton Crop**
João Antonio Zanardi Junior, Roberto da Silva, **Geraldo Papa**, Marcelo Ferraz Junior and Matheus Cardoso de Castro, Unesp - Ilha Solteira/SP, Ilha Solteira/SP/Brazil, Brazil
86. **Effect of the Biological Insecticide Hznpv (Virus) on the Control of the Cotton Bollworm, *Helicoverpa Armigera*, in Cotton**
João Antonio Zanardi Junior, Roberto da Silva, Ana Beatriz Dilela Spadoni, Natalia Gonçalves Staudt, Pedro Henrique L. F. Ehrenberg and **Geraldo Papa**, Unesp - Ilha Solteira/SP, Ilha Solteira/SP/Brazil, Brazil
87. **Pheromone Trapping As a Monitoring Tool of Brown Stink Bug, *Euschistus Servus* Movement within Cotton Fields**
Vonny Barlow, University of California, Davis, Blythe, CA
88. **Looking for Better Ways to Control Thrips**
Andrew Plummer¹, Nichole Taillon¹, Gus Lorenz², Michael Chaney¹ and Joseph Black¹, (1)University of Arkansas CES, Lonoke, AR, (2)The University of Arkansas, Lonoke, AR
89. **Impact of Foliar Applications for Control of Heliothines in Cotton**
Nichole Taillon¹, Gus Lorenz², Andrew Plummer¹, Michael Chaney¹ and Joseph Black¹, (1)University of Arkansas CES, Lonoke, AR, (2)The University of Arkansas, Lonoke, AR
90. **Impact of Season Long Control of High Populations of Tarnished Plant Bug in Cotton**
Joseph Black¹, Gus Lorenz², Nichole Taillon¹, Andrew Plummer¹ and Michael Chaney¹, (1)University of Arkansas CES, Lonoke, AR, (2)The University of Arkansas, Lonoke, AR
91. **Analysis of Terpenoid Aldehydes Related to Insect Herbivory in a New Germplasm Line with a High (+)- to (-)-Gossypol Isomer Ratio**
Jose L Perez, Lorraine Puckhaber, Charles P.-C. Suh, Robert D Stipanovic and Alois A Bell, USDA-ARS, College Station, TX

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92. **Direct, Non-Destructive, and Rapid Evaluation of Developmental Cotton Fibers By ATR-FTIR Spectroscopy**
Yongliang Liu, USDA-ARS, New Orleans, LA and Hee Jin Kim, USDA ARS, New Orleans, LA
93. **Relating Yarn Tenacity to Fiber Strength in Four Cotton Cultivars**
Yongliang Liu, USDA-ARS, New Orleans, LA, Christopher D. Delhom, USDA-ARS Southern Regional Research Center, New Orleans, LA, B. Todd Campbell, USDA-ARS, Florence, SC and Vikki B. Martin, Cotton Incorporated, Cary, NC

Cotton Soil Management and Plant Nutrition Conference Posters

94. **Evaluation of Salinity Management Products in West Texas Irrigated Cotton Production**
David R Drake, Texas A&M AgriLife Extension Service, San Angelo, TX
95. **Elemental and Nutrient Composition of Cotton Plant Biomass Parts**
Zhongqi He¹, Haile Tewolde², Mark Shankle³, Hailin Zhang⁴ and Yongliang Liu¹, (1)USDA-ARS, New Orleans, LA, (2)USDA-ARS, Mississippi State, MS, (3)Mississippi State Univ, Pontotoc, MS, (4) Oklahoma State University, Stillwater, OK
96. **Blends and Timing of Environmentally Smart Nitrogen and Urea: Effects on Cotton Yield and Quality**
Michael J. Mulvaney, University of Florida, Jay, FL and Heather Enloe, University of Florida, Gainesville, FL

97. **Effects of Potassium Acetate on Cotton Emergence, Yield, and Beneficial Soil Fungi**
Wayne Becker and Tommy Roach, Nachurs Alpine Solutions, Marion, OH
98. **Effect of Potassium Application Timing on Cotton Fiber Quality and Yield**
Dustin Kelley and Katie Lewis, Texas A&M AgriLife Research, Lubbock, TX
99. **Deep Rooted Cover Crops for Managing Soil Compaction**
Phillip b Williams¹, Ahmad Khalilian¹, Michael Marshall², John Mueller¹ and Jose Payero¹, (1)Clemson University, Blackville, SC, (2)Clemson University - Edisto REC, Blackville, SC
100. **Effects of Phosphate Fertilizer Application Methods on Cotton Aboveground Biomass, Yield and Phosphorous Efficiency in Drip Irrigation and Plastic Mulch Field**
Yan Zhang, Institute of Soil Fertilizer and Agricultural Water-saving, Xinjiang Academy of Agricultural Sciences (XAAS), China, Urumqi, China and Li Qinjun, Institute of Soil Fertilizer and Agricultural Water-saving, Xinjiang Academy of Agricultural Sciences, Urumqi, China

Cotton Weed Science Research Conference Posters

101. **Selectivity of Four Preemergence Herbicides on Weed Groups Associated with Cotton (*Gossypium barbadense*; cv. Giza 80) and Their Joint Impact with Hand Weeding**
Sanaa Abdelhameed Ibrahim, Minia University, Minia, Egypt
102. **Weed Control Programs Using Engenia in Xtend Cotton**
James Rose¹, Tom Barber², Jason Norsworthy¹, Ryan Doherty³, Leah Collie² and Spencer McCown¹, (1)University of Arkansas, Fayetteville, AR, (2)University of Arkansas-Extension, Lonoke, AR, (3)University of Arkansas Monticello, Monticello, AR
103. **Comparison of Postemergence Herbicide Options in Enlist Cotton**
Michael Ryan Miller, Jason Norsworthy, Chris J Meyer and Mohammad T Bararpour, University of Arkansas, Fayetteville, AR
104. **Cotton Response to Pre-Emergent Herbicides in an Irrigated, Sandy Environment**
Andrew G Sawyer, UGA Extension - Thomas County, Thomasville, GA
105. **Comparison of Brake Products to Cotoran Plus Caparol in Midsouth Cotton**
Mason L Young¹, Jason Norsworthy¹, Tom Barber² and Michael Ryan Miller¹, (1)University of Arkansas, Fayetteville, AR, (2)University of Arkansas-Extension, Lonoke, AR
106. **Defining the Residual Activity of Dicamba**
Spencer McCown¹, Tom Barber², Jason Norsworthy¹, James Rose¹, Ryan Doherty³ and Zachary Hill³, (1)University of Arkansas, Fayetteville, AR, (2)University of Arkansas-Extension, Lonoke, AR, (3)University of Arkansas Monticello, Monticello, AR
107. **Pre- and Postemergence Herbicide Combinations in Bollgard II(R) Xtendflex(TM) Cotton**
Clarence J. Webb¹, Wayne Keeling¹ and John Everitt², (1)Texas A&M AgriLife Research, Lubbock, TX, (2)Monsanto, Shallowater, TX
108. **Impact of Cover Crop, Seeding Rate, and Planting Method on Weed Control in Cotton**
Matheus G Palhano¹, Jason Norsworthy¹ and Tom Barber², (1)University of Arkansas, Fayetteville, AR, (2)University of Arkansas-Extension, Lonoke, AR

109. **Managing Glyphosate Resistant Palmer Amaranth with Engenia™ Herbicide in Bollgard II® Xtendflex™ Cotton**
Austin Koonce, Texas Agrilife Research, Lubbock, TX, Wayne Keeling, Texas A&M AgriLife Research, Lubbock, TX, Peter A. Dotray, Texas Tech University, Lubbock, TX, Jacob Reed, BASF, Wolfforth, TX and Adam Hixson, BASF, Lubbock, TX
110. **Liberty® and Residual Herbicide Systems for Palmer Amaranth Management**
Martha R Zwonitzer¹, Wayne Keeling¹, Peter A. Dotray² and Russ Perkins³, (1)Texas A&M AgriLife Research, Lubbock, TX, (2)Texas Tech University, Lubbock, TX, (3)Bayer CropScience LP, Idalou, TX
111. **Does the Addition of Staple LX Improve Weed Control in an Enlist System**
Zachary D Lancaster, Jason Norsworthy, Nick Steppig and Mason L Young, University of Arkansas, Fayetteville, AR
112. **Performance of Glufosinate Plus 2,4-D or Dicamba As Influenced By Carrier Volume and Nozzle Selection**
Seth Taylor¹, Peter A. Dotray¹ and Wayne Keeling², (1)Texas Tech University, Lubbock, TX, (2)Texas A&M AgriLife Research, Lubbock, TX
113. **Winter Cover Crops for Managing Glyphosate-Resistant Palmer Amaranth in Cotton**
Michael Marshall and **Colton Sanders**, Clemson University - Edisto REC, Blackville, SC
114. **Options for Pigweed Control in Oklahoma Cotton**
T. Shane Osborne and Randy Boman, Oklahoma State University, Altus, OK

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