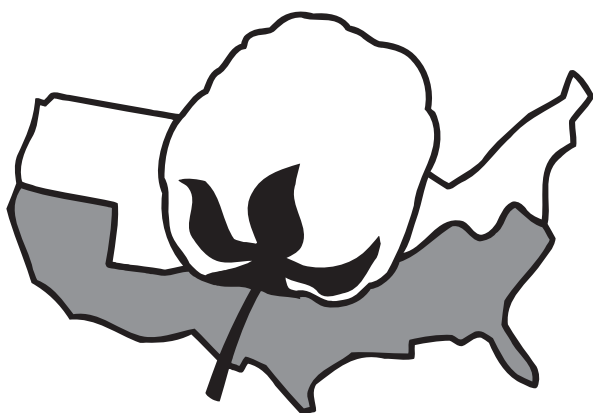


# Beltwide Cotton Conferences



January 4-6, 2017  
Hyatt Regency Dallas Hotel  
Dallas, Texas

**National  
Cotton  
Council**   
OF AMERICA

# Schedule of Events\*

Wednesday, January 4		
7:00a–24 h.	Speaker Practice Room	Pryor-Crockett (Level 2)
7:30a–1:00p	Extension Cotton Specialist Meeting (By Invitation Only)	Pegasus A (Lobby)
8:00a–1:00p	Cotton Incorporated Precision Cotton Working Group (By Invitation Only)	Gaston AB (Level 2)
9:00a–6:00p	Conference Registration	Trinity Crossing (Lobby)
9:00a–6:00p	Newsroom	McMillan (Level 2)
9:00a–6:00p	Confex Presentation Uploading Room for Speakers	Baker (Level 2)
9:00a–24 h.	Internet Café and Wi-Fi Hotspot Wi-Fi Address: beltwide2017	Pegasus Foyer (Lobby)
12:00p–1:00p	Consultants Conference Luncheon	Reunion E (Lobby)
12:00p–1:30p	NCGA Safety Specialist Forum (By Invitation Only)	Cockrell (Level 2)
1:00p–3:00p	Cotton Breeders CottonGen Training (By Invitation Only)	Cotton Bowl (Level 2)
1:00p–5:15p	Consultants Conference General Session	Reunion GH (Lobby)
1:30p–3:00p	NCGA Safety and Labor Committee	Reunion F (Lobby)
3:00p–3:30p	Coffee Break	Reunion GH Foyer (Lobby)
3:00p–4:00p	National Cotton Variety Testing Committee Meeting (By Invitation Only)	Cotton Boll (Level 2)
3:15p–4:45p	NCGA Technology Committee – Air Quality Subcommittee	Reunion F (Lobby)
4:00p–5:00p	Cotton Crop Germplasm Committee (By Invitation Only)	Cotton Boll (Level 2)
5:00p–6:00p	Regional Breeders Testing Network (By Invitation Only)	Cotton Boll (Level 2)
6:00p–7:00p	Welcome Reception for all attendees	Reunion A-D (Lobby)

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\*

Thursday, January 5		
7:00a–24 h.	Internet Café and Wi-Fi Hotspot Wi-Fi Address: beltwide2017	Pegasus Foyer (Lobby)
7:00a–10:00p	Speaker Practice	Pryor-Crockett (Level 2)
7:30a–8:00a	Coffee Break	Reunion Foyer (Lobby) and Cumberland Foyer (Exhibition)
7:30a–6:00p	Conference Registration	Trinity Crossing (Lobby)
7:30a–6:00p	Newsroom	McMillan (Level 2)
7:30a–6:00p	Confex Presentation Uploading Room for Speakers	Baker (Level 2)
8:00a–11:00a	NCGA Technology Committee	Reunion E (Lobby)
8:00a–12:00p	Cotton Agronomy, Physiology & Soil Conference – Session B	Reunion B (Lobby)
8:00a–3:15p	Cotton Improvement Conference	Reunion C (Lobby)
8:00a–7:00p	Cotton Agronomy, Physiology & Soil Conference – Session A	Reunion A (Lobby)
8:00a–10:00p	Poster Board Session	Cumberland I-L (Exhibition Level)
8:30a–11:30a	Cotton Weed Science Research Conference	Pegasus B (Lobby)
10:00a–10:30a	Coffee Break	Reunion Foyer (Lobby)
10:30a–12:00p	Cotton Economic Outlook Symposium • Via video presentation, hear an update from House Agriculture Committee Chairman Mike Conaway (R-TX) on cottonseed as an other oilseed and other ag policy issues	Reunion GH (Lobby)
10:30a–3:45p	Cotton Quality Measurements	Bryan-Beeman B (Level 2)
10:30a–5:30p	Cotton Engineering-Systems Conference	Gaston (Level 2)
11:00a–12:00p	Cotton Insect Research & Control Roundtable	Reunion F (Lobby)
1:30p–5:00p	Cotton Economics and Marketing Conference	Reunion E (Lobby)
1:30p–5:30p	Cotton Insect Research & Control Conference – Session A	Reunion F (Lobby)

# Schedule of Events\*

Thursday, January 5 (cont.)		
1:30p–5:30p	Cotton Disease Council	Cumberland E-F ( <i>Exhibition Level</i> )
1:30p–5:30p	Cotton Ginning Conference	Moreno AB ( <i>Level 2</i> )
1:30p–6:00p	Cotton Insect Research & Control Conference – Session B	Pegasus A ( <i>Lobby</i> )
3:15p–4:00p	Coffee Break in Poster Session Room	Cumberland Foyer- ( <i>Exhibition Level</i> )
6:00p–7:00p	Cotton Industry Support Group Meeting	Moreno AB ( <i>Level 2</i> )
6:00p–7:00p	Journal of Cotton Science Editorial Board	Cotton Bowl ( <i>Level 2</i> )
7:30p–9:00p	Joint Cotton Breeding Committee	Cockrell ( <i>Level 2</i> )
Friday, January 6		
7:00a–8:00a	PM 23/7/3 Committee	Reverchon, Atrium ( <i>Level 2</i> )
7:00a–1:00p	Internet Café and Wi-Fi Hotspot Wi-Fi Address: beltwide2017	Pegasus Foyer ( <i>Lobby</i> )
7:00a–12:00p	Speaker Practice Room	Pryor-Crockett ( <i>Level 2</i> )
7:30a–8:00a	Coffee Break	Reunion Foyer ( <i>Lobby</i> )
7:30a–11:00a	Newsroom	McMillan ( <i>Level 2</i> )
7:30a–1:00p	Conference Registration	Trinity Crossing ( <i>Lobby</i> )
<b>CLOSED</b> – Report to your meeting room	Confex Presentation Uploading Room for Speakers	
8:00a–10:00a	Cotton Economics and Marketing Conference	Pegasus B ( <i>Lobby</i> )
8:00a–11:45a	Cotton Agronomy, Physiology & Soil Conference – Session B	Reunion B ( <i>Lobby</i> )
8:00a–12:00p	Cotton Quality Measurements Conference	Bryan-Beeman B ( <i>Level 2</i> )
8:00a–12:00p	Cotton Insect Research & Control Conference – Session A	Reunion F ( <i>Lobby</i> )
8:00a–12:00p	Cotton Insect Research & Control Conference – Session B	Pegasus A ( <i>Lobby</i> )
8:00a–12:00p	Poster Board Session	Cumberland I-L ( <i>Exhibition Level</i> )

# Schedule of Events

Friday, January 6 (cont.)		
8:00a–12:00p	Cotton Disease Council	Cumberland E-F ( <i>Exhibition Level</i> )
8:00a–12:00p	Cotton Improvement Conference	Reunion C ( <i>Lobby</i> )
8:15a–10:00a	Cotton Ginning Conference	Moreno A/B ( <i>Level 2</i> )
8:15a–10:00a	Engineering-Systems Conference	Gaston ( <i>Level 2</i> )
10:00a–10:30a	Coffee Break	Reunion & Cumberland Foyers
10:15a–11:00a	Joint Session: Engineering-Systems & Ginning Conferences	Moreno A/B ( <i>Level 2</i> )

## Mobile Access/ Online Scheduler



To help with event planning/scheduling, BWCC attendees may use the Online Scheduler which contains the 2017 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](http://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 2017 BWCC Proceedings and recorded presentations is available in the back of this booklet.*

## Internet Café and Wi-Fi

**Wi-Fi Address:** beltwide2017

# CEU Information

In the opinion of BWCC staff, Technical Conference programs are robust enough to serve as a source of continuing education unit (CEU) credits for several disciplines. BWCC attendees are encouraged to seek CEU credits from the appropriate agency based on an individual's level of participation in BWCC programs.

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

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

**North Carolina:** Pesticide Section, NCDA & CS, 1090 Mail Service Center, Raleigh, NC 27699-1090;  
Phone: 919-857-4133; FAX: 919-733-9796; Email: John.Feagans@ncagr.gov

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

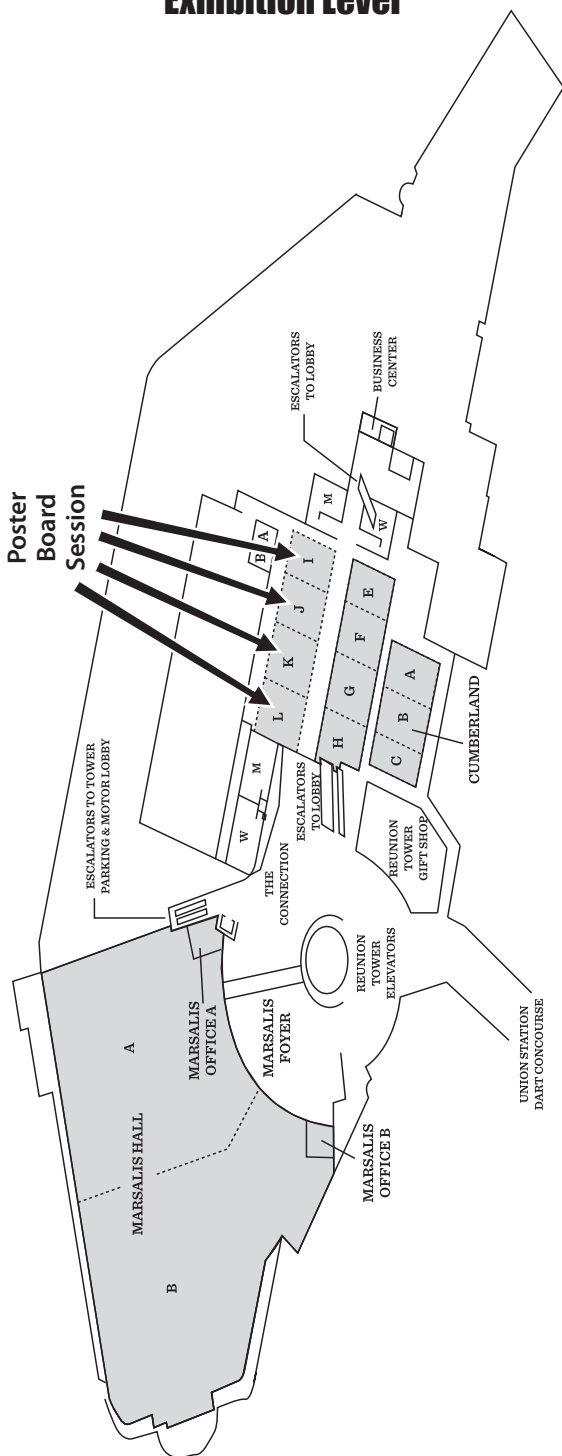
**South Carolina:** Special Programs Manager, Department of Pesticide Regulation Clemson University,  
511 Westinghouse Road, Pendleton, SC 29670  
Phone: 864-646-2150; Fax: 864-646-2179;  
Email: thghslr@clemson.edu

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

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

# Hyatt Regency Dallas Hotel Meeting Room Floor Plans

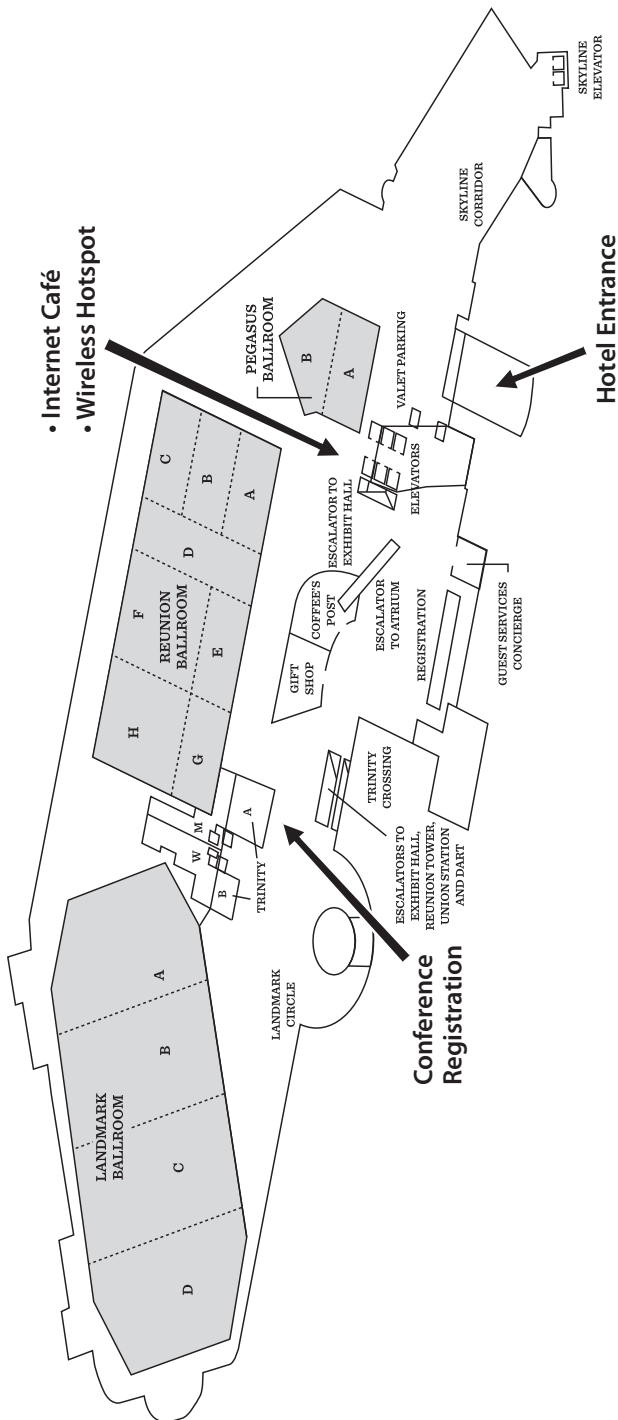
## Exhibition Level





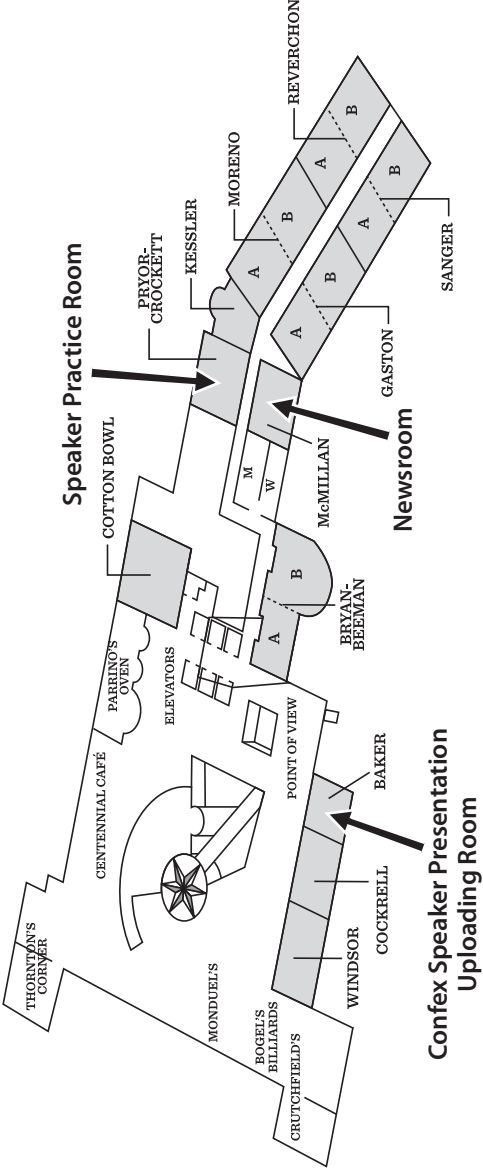
# Hyatt Regency Dallas Hotel Meeting Room Floor Plans

## Lobby Level



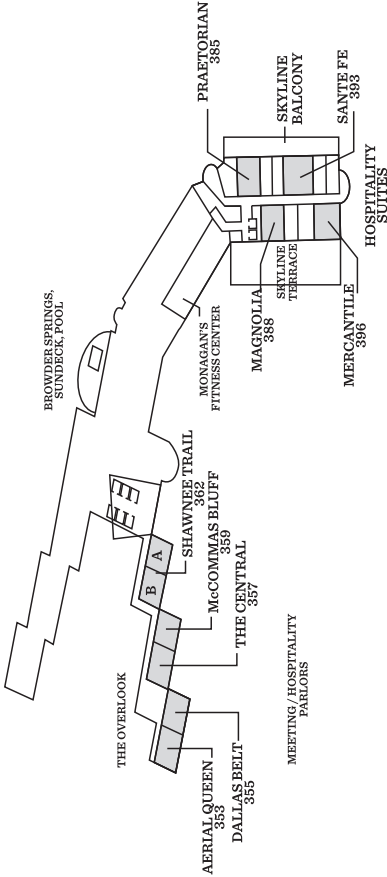
# Hyatt Regency Dallas Hotel Meeting Room Floor Plans

## Atrium (Level 2)



# Hyatt Regency Dallas Hotel Meeting Room Floor Plans

## Third Level



# Cotton Consultants Conference

Wednesday, January 4, 2017

## COTTON CONSULTANTS CONFERENCE

Reunion G-H (Hyatt Regency Dallas) - 1:00 PM-3:20 PM

**1:00 PM Welcoming Remarks and Sponsor Recognition**

**1:15 PM XtendiMax™ with VaporGrip™ Technology for Cotton: Status and Training**

**John T. Fowler**, Monsanto, St. Louis, MO

**1:25 PM Enlist Duo Herbicide for Cotton: Status and Training**

**Jonathan Siebert**, Dow AgroSciences LLC, Greenville, MS

**1:35 PM Aldicarb update from AgLogic**

**Antoine A. Puech**, AgLogic, Chapel Hill, NC

**1:45 PM Status on Re-Registrations and Possible Loss of Crop Protection Products Including Aldicarb**

**Steve Hensley**, National Cotton Council, Washington, DC and **Don Parker**, National Cotton Council, Cordova, TN

**2:05 PM Twospotted Spider Mite Management in Midsouth Cotton**

**Sebe Brown** and **David Kerns**, LSU AgCenter, Winnsboro, LA

**2:20 PM Target Leaf Spot and Bacterial Blight**

**Robert C Kemerait**, University of Georgia, Tifton, GA

**2:35 PM BT vs Conventional**

**Angus Catchot**, Mississippi State University, Mississippi State, MS

**2:50 PM Reducing Raw Cotton Contamination – Call for Consultant's Assistance**

**Bill Norman**, National Cotton Council, Cordova, TN

**3:00 PM The Smartirrigation Cotton App with a National Footprint**

**George Vellidis**<sup>1</sup>, **Vasileios Liakos**<sup>1</sup>, **Edward M. Barnes**<sup>2</sup> and **Charles T Barger**<sup>1</sup>, (1)University of Georgia, Tifton, GA, (2)Cotton Incorporated, Cary, NC

**3:10 PM Multi-Year Evaluation of Potassium Rate for Optimum Yield and Sustainability**

**Gaylon Morgan**, Texas A&M AgriLife Extension Service, College Station, TX, **Hunter Frame**, Virginia Tech, Suffolk, VA, **Michael A Jones**, Clemson University, Florence, SC, **Darrin M Dodds**, Mississippi State University, Starkville, MS, **Andrea S. Jones**, University of Missouri, Portageville, MO, **Bill Robertson**, University of Arkansas, Newport, AR, **Randy Norton**, University of Arizona, Safford, AZ and **Robert L. Nichols**, Cotton Incorporated, Cary, NC

## NEW DEVELOPMENTS FROM INDUSTRY

Reunion G-H (Hyatt Regency Dallas) - 3:20 PM-5:00 PM

**3:20 PM A New Seed Treatment Nematicide in Cotton Powered By Bio ST Nematicide 100**

**David H Long**, Albaugh, LLC, Olive Branch, MS

**3:30 PM Reservoir Tillage 850 – a New and Simple Tillage Tool to Help Conserve Water in Farmer Fields**

**Steve Claussen**, Willmar Fabrication, LLC, Willmar, MN

**3:40 PM New FiberMax® and Stoneville® Cotton Varieties from Bayer**

**Craig Bednarz**, Bayer, Lubbock, TX and **Kyle Fontenot**, Bayer, Ville Platte, LA

**3:55 PM Variety Introductions from Monsanto/Deltapine**

**David W Albers**, Monsanto, St. Louis, MO and **Keylon Gholston**, Monsanto Company, Baldwin, MS

**4:10 PM Control of Target Leaf Spot in the North Delta**

**John Schultz**, BASF, Sherwood, AR

**4:20 PM Copeo Prime Seed Treatment Nematacide for Cotton**

**Jeremiah Mullock**, Kate Nangle, Chip Graham and Russ Perkins, Bayer CropScience, Durham, NC

**4:30 PM Variety Introductions from Americot**

**Thomas Brooks**, Americot, Inc., Lubbock, TX

**4:45 PM Variety Introductions from PhytoGen**

**Joel Faircloth**, Dow AgroSciences, Clemmons, NC

**CONSULTANTS CONFERENCE BUSINESS MEETING**

**Reunion G-H (Hyatt Regency Dallas) - 5:00 PM-5:30 PM**

# Cotton Agronomy, Physiology & Soil Conference

Thursday, January 5, 2017

**COTTON AGRONOMY, PHYSIOLOGY & SOIL - THURSDAY EARLY MORNING - SESSION A**

**Reunion A (Hyatt Regency Dallas) - 8:00 AM-10:00 AM**

**8:00 AM Multi-Location Assessment of Heat Tolerance in Six Commercially-Available Cotton Cultivars**

**John L. Snider**<sup>1</sup>, Daryl Chastain<sup>2</sup>, Dustin Dunn<sup>1</sup>, John Gassett<sup>3</sup>, Bobby G Golden<sup>4</sup>, Darrin M. Dodds<sup>5</sup>, Wesley M. Porter<sup>1</sup> and William Slaton<sup>6</sup>, (1) University of Georgia, Tifton, GA, (2)Mississippi State University Delta Research and Extension Center, Stoneville, MS, (3)University of Georgia, Griffin, GA, (4)Mississippi State University, Delta Research and Extension Center, Stoneville, MS, (5)Mississippi State University, Mississippi State, MS, (6)University of Central Arkansas, Conway, AR

**8:15 AM Seedling Vigor and Carbon Dynamics of the First True Leaf**

**John L. Snider**, Sudhir Singla and Yinglong Chen, University of Georgia, Tifton, GA

**8:30 AM Linking Daily Temperature Ranges with Microbial Benefits in a No-till Cotton System on the Southern High Plains**

John Zak, Texas Tech University, Lubbock, TX, **Bobbie McMichael**, Texas Tech University, Lubbock, TX and Kater Hake, Cotton Incorporated, Cary, NC

**8:45 AM Evaluation of Cotton2K for Arizona Conditions**

**Kelly R Thorp**<sup>1</sup>, Edward M. Barnes<sup>2</sup>, Bruce Kimball<sup>1</sup> and Doug Hunsaker<sup>1</sup>, (1) USDA-ARS, Maricopa, AZ, (2)Cotton Incorporated, Cary, NC

**9:00 AM Integration of Unmanned Aerial System (UAS) Data and Process Based Simulation Models to Forecast Crop Growth and Yield**

**Juan Landivar**<sup>1</sup>, Jinha Jung<sup>2</sup>, Andrea Maeda<sup>1</sup>, Long Huynh<sup>3</sup> and Murilo Maeda<sup>1</sup>, (1)Texas A&M AgriLife Research, Corpus Christi, TX, (2)Texas A&M University - Corpus Christi, Corpus Christi, TX, (3)Texas A&M University-Corpus Christi, Corpus Christi, TX

**9:15 AM Unmanned Aerial System (UAS) Platforms for Cotton Breeding: Findings and Challenges**

**Murilo Maeda**<sup>1</sup>, Juan Landivar<sup>1</sup>, Jinha Jung<sup>2</sup>, Anjin Chang<sup>2</sup>, Junho Yeom<sup>2</sup>, Andrea Maeda<sup>1</sup>, Josh McGinty<sup>3</sup>, Juan Enciso<sup>4</sup>, C. Wayne Smith<sup>5</sup>, David M. Stelly<sup>6</sup>, Steve Hague<sup>5</sup> and Jane Dever<sup>7</sup>, (1)Texas A&M AgriLife Research, Corpus Christi, TX, (2)Texas A&M University - Corpus Christi, Corpus Christi, TX, (3)Texas A&M AgriLife Extension Service, Corpus Christi, TX, (4)Texas A&M AgriLife Research, Weslaco, TX, (5)Texas A&M University, College Station, TX, (6)Texas A&M AgriLife Research, College Station, TX, (7)Texas A&M AgriLife Research, Lubbock, TX

**9:30 AM Cotton Canopy Height and Boll Mapping with LIDAR**

**Andrew N French**<sup>1</sup>, Alison L Thompson<sup>1</sup>, Michael A Gore<sup>2</sup>, Ethan M Apodaca<sup>3</sup> and Anthony R Holman<sup>3</sup>, (1)USDA-ARS, Maricopa, AZ, (2)Cornell University, Ithaca, NY, (3)USDA ARS ALARC, Maricopa, AZ

**9:45 AM Determining Ideal Winter Wheat Cover Crop Termination Dates in Cotton Production Systems of the Texas Rolling Plains**

**Srinivasulu Ale**<sup>1</sup>, Pradip Adhikari<sup>2</sup>, Paul DeLaune<sup>1</sup>, Kelly R Thorp<sup>3</sup> and Edward M. Barnes<sup>4</sup>, (1)Texas A&M AgriLife Research, Vernon, TX, (2) Oklahoma State University, Stillwater, OK, (3)USDA-ARS, Maricopa, AZ, (4) Cotton Incorporated, Cary, NC

## **COTTON AGRONOMY, PHYSIOLOGY & SOIL - THURSDAY EARLY MORNING - SESSION B**

**Reunion B (Hyatt Regency Dallas) - 8:00 AM-10:00 AM**

### **8:00 AM Soil Potassium Effects on Cotton Yield, Quality, and Growth in the Texas High Plains**

**Amee Bumguardner**<sup>1</sup>, Katie L Lewis<sup>2</sup>, Seth A. Byrd<sup>1</sup>, Gaylon D. Morgan<sup>3</sup>, Robert L. Nichols<sup>4</sup> and Dustin Kelley<sup>5</sup>, (1)Texas A&M AgriLife Extension, Lubbock, TX, (2)Texas A&M AgriLife Research and Extension Center, Lubbock, TX, (3)Texas A&M AgriLife Extension Service, College Station, TX, (4)Cotton Incorporated, Cary, NC, (5)Texas A&M AgriLife Research, Lubbock, TX

### **8:15 AM Impact of Pre-Bloom Square Loss on Yield and Lint Quality in Louisiana Cotton Cropping Systems**

**Cory Lee Cole**, LSU AgCenter, Kenner, LA, David Kerns, LSU AgCenter, Winnsboro, LA, Dan D Fromme, LSU AgCenter, Alexandria, LA and Gerald Myers, LSU Agricultural Center, Baton Rouge, LA

### **8:30 AM Cotton Varietal Response to Potassium Applications Under Irrigated and Dryland Conditions**

**Savana Davis**<sup>1</sup>, Darrin M Dodds<sup>2</sup>, Drew B. Denton<sup>2</sup>, Chase A. Samples<sup>1</sup>, Michael T. Plumblee<sup>1</sup>, Lucas Xavier Franca<sup>1</sup> and Bradley R Wilson<sup>1</sup>, (1) Mississippi State University, Mississippi State, MS, (2)Mississippi State University, Starkville, MS

### **8:45 AM Effect of Nematode Control Practices on Profitability of Cotton Production**

**Bradley R Wilson**<sup>1</sup>, Darrin M. Dodds<sup>1</sup>, Drew B. Denton<sup>2</sup>, Chase A. Samples<sup>1</sup>, Michael T. Plumblee<sup>1</sup>, Lucas Xavier Franca<sup>1</sup> and Savana Davis<sup>1</sup>, (1)Mississippi State University, Mississippi State, MS, (2)Mississippi State University, Starkville, MS

### **9:00 AM Evaluation of Polyacrylamide on Irrigation Efficiency, Soil Conservation, and Water Quality in Furrow Irrigated Mid-South Cotton Production**

**Brittany Deanna Barnes**, College of Agriculture & Technology Arkansas State University, Jonesboro, AR, Tina Gray Teague, Ark State Univ / Univ Ark Exp Sta, State University, AR and Michele L Reba, USDA-ARS, Jonesboro, AR

### **9:15 AM Inter-Annual Carbon, Water and Energy Exchange of Irrigated and Dryland Cotton in the Texas High Plains**

**Sumit Sharma**<sup>1</sup>, Nithya Rajan<sup>2</sup>, Kenneth Casey<sup>3</sup>, Srinivasulu Ale<sup>4</sup>, Russell W Jessup<sup>2</sup> and Stephan J Maas<sup>5</sup>, (1)Texas A&M University, College Station, TX, (2)Texas A&M University, College Station, TX, (3)Texas A&M Agrilife Research, Amarillo, TX, (4)Texas A&M AgriLife Research, Vernon, TX, (5)Texas Tech University, Lubbock, TX

### **9:30 AM Utilization of an Aerial Platform to Guide Replant Decisions**

**Shawn Butler**<sup>1</sup>, Tyson Raper<sup>1</sup>, Michael Buschermohle<sup>2</sup> and Rob Freeland<sup>2</sup>, (1) University of Tennessee, Jackson, TN, (2)University of Tennessee, Knoxville, TN

### **9:45 AM Comparison of Cotton Growth and Development in North Carolina As Influenced By Tillage Systems**

**Todd A Spivey**<sup>1</sup>, Joshua Heitman<sup>1</sup>, Randy Wells<sup>1</sup>, David L Jordan<sup>1</sup>, Gail Wilkerson<sup>1</sup> and Keith L. Edmisten<sup>2</sup>, (1)NC State University, Raleigh, NC, (2) N.C. State University, Raleigh, NC

## **COTTON AGRONOMY, PHYSIOLOGY & SOIL - THURSDAY LATE MORNING - SESSION B**

**Reunion B (Hyatt Regency Dallas) - 10:00 AM-12:00 PM**

### **10:00 AM Primed Acclimation: Assessing a Sensor-Based Irrigation Scheduling System with Limited Early Season Irrigation**

**Calvin Meeks**<sup>1</sup>, John L. Snider<sup>1</sup>, Wesley M. Porter<sup>1</sup>, George Vellidis<sup>1</sup>, Gary L. Hawkins<sup>1</sup> and Diane Rowland<sup>2</sup>, (1)University of Georgia, Tifton, GA, (2) University of Florida, Gainesville, FL

**10:15 AM Using Cover Crop Mulches for Weed Control in Conventional and Organic Cotton Production**

**Rachel Anne Atwell**, S. Chris Reberg-Horton, Keith L. Edmisten and Alan York, N.C. State University, Raleigh, NC

**10:30 AM A Soil Moisture Sensor Approach to Scheduling Cotton Irrigation**

**Michael T. Plumblee**<sup>1</sup>, Darrin M. Dodds<sup>1</sup>, Jason Krutz<sup>2</sup>, Chase A. Samples<sup>1</sup> and Savana Davis<sup>1</sup>, (1)Mississippi State University, Mississippi State, MS, (2) Mississippi State University, Stoneville, MS

**10:45 AM Effects of Irrigation Timing and Rate on Cotton Boll Production in West Texas**

**Curtis Schaefer**<sup>1</sup>, Jim Bordovsky<sup>2</sup>, Glen Ritchie<sup>1</sup> and Katie Lewis<sup>3</sup>, (1) Texas Tech University, Lubbock, TX, (2)Texas A&M Agrilife, Lubbock, TX, (3) Department of Plant and Soil Science, Texas Tech University, Lubbock, TX

**11:00 AM Using Fieldprint Calculator to Demonstrate the Effect of Cotton Irrigation Management on Factors of Sustainability**

**Tim Grant**<sup>1</sup>, Brian Leib<sup>1</sup>, Feng Liangshan<sup>2</sup> and Lori Duncan<sup>1</sup>, (1)University of Tennessee, Knoxville, TN, (2)Institute of Crop Cultivation and Farming System, Liaoning Academy of Agricultural Sciences, Shenyang, China

**11:15 AM Irrigation Strategies That Use Cutout for Optimum Boll Maturation and Yield Where Growing Season Duration Is Limited**

**R. Louis Baumhardt**<sup>1</sup>, David K Brauer<sup>1</sup> and Robert Schwartz<sup>2</sup>, (1)USDA-ARS Conservation & Production Res. Lab., Bushland, TX, (2)USDA-ARS, Conservation and Production Research Laboratory, Bushland, TX

**11:30 AM Nutrient Uptake Responses in Pima and Upland Cotton to SDI Versus Furrow Irrigation**

**Robert B Hutmacher**, University of California, Five Points, CA and Steven D. Wright, University of California Cooperative Extension, Tulare, CA

**11:45 AM Evaluating Methods of Crop Water Use Estimation for Refining Irrigation Scheduling**

**Rose Brodrick**, CSIRO, Narrabri, Australia, Michael P Bange, CSIRO, Narrabri, New South Wales, Australia and James R Mahan, USDA/ARS, Lubbock, TX

**COTTON AGRONOMY, PHYSIOLOGY & SOIL - THURSDAY EARLY AFTERNOON - SESSION A**

**Reunion A (Hyatt Regency Dallas) - 1:00 PM-2:30 PM**

**1:00 PM Cotton Variety Performance in NC: What Is the Cost of Improper Variety Selection?**

**Guy D. Collins**, North Carolina State University, Rocky Mount, NC and Keith L. Edmisten, N.C. State University, Raleigh, NC

**1:15 PM Do Cotton Varieties with Various Transgenic Traits Need to be Evaluated in Separate Trials Using Different Herbicide Programs?**

**Michael A Jones**, Clemson University, Florence, SC

**1:30 PM Nozzle Type and Carrier Volume Influence on Defoliation**

**Seth A. Byrd**, Texas A&M AgriLife Extension, Lubbock, TX, Tyson Raper, University of Tennessee, Jackson, TN, Darrin M. Dodds, Mississippi State University, Mississippi State, MS, Andrea S. Jones, University of Missouri, Portageville, MO, Gaylon Morgan, Texas A&M AgriLife Extension Service, College Station, TX and Randy Norton, University of Arizona, Safford, AZ

**1:45 PM Effects of Low Rates of Dicamba Herbicide Overspray on Susceptible Cotton at Various Timings in South and Eastern Texas**

**Dale A Mott**<sup>1</sup>, Gaylon Morgan<sup>1</sup> and Josh McGinty<sup>2</sup>, (1)Texas A&M AgriLife Extension Service, College Station, TX, (2)Texas A&M AgriLife Extension Service, Corpus Christi, TX

**2:00 PM Re-Evaluating Mepiquat Chloride Use in Bollgard II® Cotton in Australia**

**Michael P Bange** and Sandra Williams, CSIRO, Narrabri, New South Wales, Australia



**2:15 PM Effect of Increased Agronomic Inputs on Cotton Development and Yield Across the Mid-South and Southeast Cotton Belt**

**Todd A Spivey**, NC State University, Raleigh, NC, Darrin M. Dodds, Mississippi State University, Mississippi State, MS, Keith L. Edmisten, N.C. State University, Raleigh, NC, Hunter Frame, Virginia Tech, Suffolk, VA and Andrea S. Jones, University of Missouri, Portageville, MO

**COTTON AGRONOMY, PHYSIOLOGY & SOIL- SPECIAL SESSION**

**Reunion A (Hyatt Regency Dallas) - 2:30 PM-5:00 PM**

*Officials: Tyson Raper  
Paul DeLaune*

**2:30 PM Seasonal Canopy Temperatures for Normal and Okra Leaf Cotton Under Variable Irrigation in the Field**

**James R Mahan**<sup>1</sup>, Paxton Payton<sup>2</sup> and Haydee E Laza<sup>1</sup>, (1)USDA/ARS, Lubbock, TX, (2)United States Department of Agriculture, Lubbock, TX

**3:00 PM Cotton Growth and Productivity Following Cover Crops**

**Phil J. Bauer**, USDA-ARS, Florence, SC

**3:30 PM Agronomic and Economic Evaluation of Cover Crops in the Texas Rolling Plains**

**Paul DeLaune**, Texas A&M AgriLife Research, Vernon, TX and Stan Bevers, Texas A&M AgriLife Extension Service, Vernon, TX

**4:00 PM Integrating Rye Cover Crop and Reduced Tillage to Improve Soil Health**

**Bill Robertson**<sup>1</sup>, Amanda Free<sup>1</sup>, Mike Daniels<sup>2</sup>, Christopher Henry<sup>3</sup> and Archie Flanders<sup>4</sup>, (1)University of Arkansas, Newport, AR, (2)University of Arkansas, Little Rock, AR, (3)University of Arkansas Division of Agriculture Cooperative Extension Service, Little Rock, AR, (4)Northeast Research and Extension, Keiser, AR

**4:30 PM Benefits and Limitations of Utilizing Cover Crops for Irrigation Management**

**Seth A. Byrd**, Texas A&M AgriLife Extension, Lubbock, TX

**COTTON AGRONOMY, PHYSIOLOGY & SOIL BUSINESS MEETING**

**Reunion A (Hyatt Regency Dallas) - 5:15 PM-7:00 PM**

**Friday, January 6, 2017**

**COTTON AGRONOMY, PHYSIOLOGY & SOIL - FRIDAY EARLY MORNING - SESSION B**

**Reunion G (Hyatt Regency Dallas) - 8:00 AM-11:00 AM**

**8:00 AM Soil Factors Influencing Potassium Availability**

**Katie Lewis**, Texas A&M AgriLife Research, Lubbock, TX, Nana Kusi, Department of Plant and Soil Science, Texas Tech University, Lubbock, TX, Gaylon Morgan, Texas A&M AgriLife Extension Service, College Station, TX, Hunter Frame, Virginia Tech, Suffolk, VA and Robert L. Nichols, Cotton Incorporated, Cary, NC

**8:15 AM A Beltwide Evaluation of Potassium Rate and Application Method on Cotton Yield and Quality**

**Gaylon Morgan**<sup>1</sup>, Katie L Lewis<sup>2</sup>, Hunter Frame<sup>3</sup>, Randy Boman<sup>4</sup>, Dan D Fromme<sup>5</sup>, Bill Robertson<sup>6</sup>, Tyson Raper<sup>7</sup>, Dennis P. Delaney<sup>8</sup>, Keith L. Edmisten<sup>9</sup>, Dale A Mott<sup>1</sup> and Robert L. Nichols<sup>10</sup>, (1)Texas A&M AgriLife Extension Service, College Station, TX, (2)Texas A&M AgriLife Research and Extension Center, Lubbock, TX, (3)Virginia Tech, Suffolk, VA, (4)Oklahoma State University, Altus, OK, (5)LSU AgCenter, Alexandria, LA, (6)University of Arkansas, Newport, AR, (7)University of Tennessee, Jackson, TN, (8)Auburn University, Auburn University, AL, (9)N.C. State University, Raleigh, NC, (10) Cotton Incorporated, Cary, NC

**8:30 AM Changes in Soil Test Phosphorus in Continuous Rain-Fed Cotton**

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

**8:45 AM Cotton Response to Polyhalite Compared to Other K and S Source Fertilizers in the Coastal Plain Soils of Virginia**

**Hunter Frame**, Virginia Tech, Suffolk, VA

**9:00 AM Fluid Nitrogen-Sulfur Fertilizer Formulations to Mitigate Sulfur Deficiencies and Maximize Cotton Yields in the Upper-Southeast Coastal Plain**

**Hunter Frame**, Virginia Tech, Suffolk, VA

**9:15 AM Sulfur Applications for No-Tillage Cotton and Comparison of Soil Sulfur Testing Methods**

**Xinhua (Frank) Yin**<sup>1</sup>, Tyson Raper<sup>1</sup> and Hugh J. Savoy<sup>2</sup>, (1)University of Tennessee, Jackson, TN, (2)University of Tennessee, Knoxville, TN

**9:30 AM Improving Nitrogen Management for Subsurface Drip-Irrigated Cotton in Arizona**

**Kevin F Bronson**<sup>1</sup>, Doug Hunsaker<sup>1</sup>, Pedro Andrade-Sanchez<sup>2</sup>, Clinton Williams<sup>1</sup>, Randy Norton<sup>3</sup> and Kelly R Thorp<sup>1</sup>, (1)USDA-ARS, Maricopa, AZ, (2) University of Arizona, Maricopa, AZ, (3)University of Arizona, Safford, AZ

**9:45 AM Assessment of Cotton N Status from an Inexpensive Digital Camera**

**Tyson Raper**<sup>1</sup>, Shawn Butler<sup>1</sup>, Ray Asebedo<sup>2</sup> and Edward M. Barnes<sup>3</sup>, (1) University of Tennessee, Jackson, TN, (2)Kansas State University, Manhattan, KS, (3)Cotton Incorporated, Cary, NC

**10:00 AM Cotton Response to Rate and Timing of Urea and ESN Application at Multiple Locations**

**Morteza Mozaffari**, Northeast Research and Extension Center Univ of Arkansas, Keiser, AR

**10:15 AM Nitrogen Fertility Management for Irrigated and Rain-Fed Cotton Production in the MID-South**

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

**10:30 AM Nitrogen Management for Subsurface Drip-Irrigated Cotton in Arizona**

**Kevin F Bronson**<sup>1</sup>, Doug Hunsaker<sup>1</sup>, Kelly R Thorp<sup>1</sup>, Matthew M Conley<sup>1</sup>, Randy Norton<sup>2</sup>, Pedro Andrade-Sanchez<sup>3</sup> and Edward M. Barnes<sup>4</sup>, (1)USDA-ARS, Maricopa, AZ, (2)University of Arizona, Safford, AZ, (3)University of Arizona, Maricopa, AZ, (4)Cotton Incorporated, Cary, NC

**COTTON AGRONOMY, PHYSIOLOGY & SOIL AWARDS CEREMONY**

**Reunion G (Hyatt Regency Dallas) - 11:15 AM-11:45 AM**

# Cotton Disease Council

Thursday, January 5, 2017

## COTTON DISEASE COUNCIL - THURSDAY EARLY AFTERNOON

Cumberland E-F (Hyatt Regency Dallas) - 1:30 PM-3:15 PM

### **1:30 PM :Yield Loss of Ten Cotton Cultivars Due to the Root-Knot Nematode and the Added Benefit of Velum Total**

**Stephen R. Till**, Auburn University, Auburn, AL, Kathy S. Lawrence, Auburn University, Auburn, AL, Drew Schrimsher, Agri-AFC, Slocomb, AL and Jarrod R. Jones, Gulf Coast Research and Extension Center, Fairhope, AL

### **1:45 PM A Potential New Biological Nematicide for Meloidogyne Incognita and Rotylenchulus Reniformis Management on Cotton in Alabama**

**David R Dyer**<sup>1</sup>, Kathy S. Lawrence<sup>1</sup>, David H Long<sup>2</sup>, Stephen R. Till<sup>1</sup>, Meredith Hall<sup>1</sup>, Will Groover<sup>1</sup>, Ni Xiang<sup>1</sup>, Daniel Dodge<sup>1</sup> and Mary S Foshee<sup>1</sup>, (1)Auburn University, Auburn, AL, (2)Albaugh,LLC, Olive Branch, MS,

### **2:00 PM Cotton Varietal and Nematicide Responses in Nematode-Infested Soils of Alabama**

**Meredith Hall**, Kathy S. Lawrence, Daniel Dodge, David R Dyer, Mary S Foshee, Will Groover, Stephen R. Till and Ni Xiang, Auburn University, Auburn, AL

### **2:15 PM Yield Loss of Twelve Cotton Cultivars Due to the Reniform Nematode and the Added Benefit of Velum Total**

**Will Groover**, Kathy Lawrence, Kathryn Glass, Stephen R. Till, Meredith Hall, David R Dyer and Daniel Dodge, (1)Auburn University, Auburn, AL

### **2:30 PM Effect of Bacterial Blight Inoculation Timing on Cotton Yield**

**Bradley R Wilson**<sup>1</sup>, Darrin M. Dodds<sup>1</sup>, Michael T. Plumblee<sup>1</sup>, Chase A. Samples<sup>1</sup>, Lucas Xavier Franca<sup>1</sup>, Savana Davis<sup>1</sup> and Drew B. Denton<sup>2</sup>, (1) Mississippi State University, Mississippi State, MS, (2)Mississippi State University, Starkville, MS

### **2:45 PM Sensitivity of Corynespora Cassiicola Isolates from Cotton to Metconazole**

**Katrina Laurel**<sup>1</sup>, Robert C Kemerait<sup>1</sup>, Marin T. Brewer<sup>2</sup> and Katherine Stevenson<sup>1</sup>, (1)University of Georgia, Tifton, GA, (2)University of Georgia, Athens, GA

### **3:00 PM Influence of Droplet Size and Number of Orifices on Fungicide Efficacy in Corynespora Cassiicola Infected Cotton**

**Shawn Butler**, Heather Kelly and Tyson Raper, University of Tennessee, Jackson, TN

## COTTON DISEASE COUNCIL - THURSDAY LATE AFTERNOON

Cumberland E-F (Hyatt Regency Dallas) - 4:00 PM-5:30 PM

### **4:00 PM The Response of Cotton to Fungicide Applications for Target Spot in Tennessee**

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

### **4:15 PM Multi-Year Regional Evaluation of One and Two Applications of Registered and Experimental Fungicides for the Management of Target Spot on Two Cotton Varieties**

**Hillary L Mehl**, Virginia Tech, Suffolk, VA, Nicholas S Dufault, Univ. of Florida, Gainesville, FL, Michael J. Mulvaney, University of Florida, Jay, FL, Austin Hagan, Auburn University, Auburn, AL, Heather Kelly, University of Tennessee, Jackson, TN, Robert C Kemerait, University of Georgia, Tifton, GA, Paul Price, Louisiana State University, Winnsboro, LA, Tom W Allen, Mississippi State University, Delta Research and Extension Center, Stoneville, MS and Robert L. Nichols, Cotton Incorporated, Cary, NC

**4:30 PM Impact of Planting Date and Seeding Rate on the Severity of Target Spot in Cotton**

**Austin Hagan**<sup>1</sup>, Malcomb Pegues<sup>2</sup>, Jarrod R. Jones<sup>2</sup>, Shawn Scott<sup>3</sup> and Katherine Burch<sup>1</sup>, (1)Auburn University, Auburn, AL, (2)Gulf Coast Research and Extension Center, Fairhope, AL, (3)Field Crops Research Unit, Shorter, AL

**4:45 PM Target Spot-Induced Defoliation and Yields of Selected Cotton Varieties over a Three Year Period in Southwest Alabama**

**Austin Hagan**<sup>1</sup>, Kira L. Bowen<sup>1</sup>, Katherine Burch<sup>1</sup> and H. Brad Miller<sup>2</sup>, (1) Auburn University, Auburn, AL, (2)Brewton Agricultural Research Unit, Brewton, AL

**5:00 PM Target Spot Epidemic in the North Delta: 2016 Observations and Key Learning's**

**John Schultz**, BASF, Sherwood, AR

**5:15 PM New Fungicides in the Management of Target Spot in Georgia**

**Robert C Kemerait**, University of Georgia, Tifton, GA, Ma. Katrina Laurel, Department of Plant Pathology, the University of Georgia, Tifton, GA and Calvin Perry, University of Georgia, Camilla, GA

## **Friday, January 6, 2017**

### **COTTON DISEASE COUNCIL - FRIDAY EARLY MORNING**

#### **Cumberland E-F (Hyatt Regency Dallas) - 8:00 AM-10:00 AM**

**8:00 AM Area-Wide Programs for Aflatoxin Mitigation: Treatments to Cotton Can be Cost Effective**

**Peter J. Cotty**, USDA/ARS School of Plant Sciences, University of Arizona, Tucson, AZ

**8:15 AM Survey of Cotton Viruses in Oklahoma and Texas**

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

**8:30 AM Cotton Leaf Curl Disease -a High Risk Exotic Viral Pathogen of Cotton**

**Judith K Brown**, University of Arizona, Tucson, AZ

**8:45 AM The Path to Cotton Leaf Curl Virus Resistant Cotton and Further Steps to Sustainability**

**Jodi Scheffler**<sup>1</sup>, Janna Love<sup>2</sup> and James Frelichowski<sup>2</sup>, (1)USDA-ARS, Stoneville, MS, (2)USDA-ARS, College Station, TX

**9:00 AM Tapping into the Cotton Fungal Phytobiome for Novel Nematode Biological Control Tools**

**Wenqing Zhou**<sup>1</sup>, Vijay Verma<sup>1</sup>, Terry A Wheeler<sup>2</sup>, Jason Woodward<sup>3</sup>, James L Starr<sup>1</sup> and Gregory A. Sword<sup>1</sup>, (1)Texas A&M University, College Station, TX, (2)Texas A&M AgriLife Research, Lubbock, TX, (3)Department of Plant and Soil Science, Texas Tech University, Lubbock, TX

**9:15 AM Identification of an Alternative Source of Inoculum Causing Bacterial Blight in Cotton**

**Jessica Koczan**, Monsanto Company, Chesterfield, MO

**9:30 AM Evaluation of Disease Resistance of Cotton Plants with Reduced Levels of Methylated Phytoalexins**

**Tanya A Wagner**<sup>1</sup>, Jingtiao Liu<sup>1</sup>, Lorraine Puckhaber<sup>1</sup>, Alois Bell<sup>1</sup> and Clint W Magill<sup>2</sup>, (1)USDA-ARS, College Station, TX, (2)Texas A&M University, College Station, TX

### **COTTON DISEASE COUNCIL - FRIDAY LATE MORNING**

#### **Cumberland E-F (Hyatt Regency Dallas) - 10:30 AM-12:00 PM**

**10:30 AM Response of New Cotton Varieties to Verticillium Wilt, Bacterial Blight, and Root-Knot Nematodes**

**Terry A Wheeler**, Texas A&M AgriLife Research, Lubbock, TX and Jason Woodward, Department of Plant and Soil Science, Texas Tech University, Lubbock, TX

**10:45 AM Impact of Planting RKN-Susceptible Variety after Multi-Year Plantings of RKN-Resistant Variety in Cotton**

**Kathy M Vaughn**<sup>1</sup>, Nilesh D Dighe<sup>1</sup>, David W Albers<sup>2</sup> and Luke Carpenter<sup>1</sup>, (1)Monsanto, Lubbock, TX, (2)Monsanto, St. Louis, MO

**11:00 AM Movement of Fluopyram in Sandy Soil to Affect *Meloidogyne incognita* Motility**

**Travis R. Faske**, Univ of Arkansas Division of Agriculture, Lonoke, AR and Katherine Hurd, University of Arkansas, Lonoke, AR

**11:15 AM Beltwide Nematode Research and Education Committee Report on Cotton Cultivar and Nematicide Responses in Nematode Soils, 2016**

**Travis R. Faske**, Univ of Arkansas Division of Agriculture, Lonoke, AR, Tom W Allen, Mississippi State University, Delta Research and Extension Center, Stoneville, MS, Robert C Kemerait, University of Georgia, Tifton, GA, Gary W Lawrence, Mississippi State University, Mississippi State, MS, Kathy S. Lawrence, Auburn University, AUBURN, AL, Hillary L Mehl, Virginia Tech, Suffolk, VA, John Mueller, Clemson University, Blackville, SC, Randy Norton, University of Arizona, Safford, AZ, Charles Overstreet, LSU AgCenter, Baton Rouge, LA and Terry Wheeler, Texas A&M AgriLife Research, Lubbock, TX

**11:30 AM Evaluation of the Efficacy and Profitability of Seed Treatment and in-Furrow Nematicides in Virginia Cotton**

**Saleh Ahmed**, Virginia Tech Tidewater AREC, Suffolk, VA and Hillary L Mehl, Virginia Tech, Suffolk, VA

# Cotton Economics and Marketing Conference

Thursday, January 5, 2017

## COTTON ECONOMICS SYMPOSIUM

Reunion E (Hyatt Regency Dallas) - 10:30 AM-12:00 PM

**10:30 AM Cotton Marketer of the Year Award**

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

**10:40 AM Update on US Agricultural Policy**

Speaker Via Video Presentation: House Agriculture Committee Chairman Mike Conaway

**11:00 AM Trends in Retail Use of Cotton**

**Berrye Worsham**, Cotton Incorporated, Cary, NC

**11:20 AM Short-Term US Cotton Outlook**

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

**11:40 AM Global Cotton Outlook**

**Leslie A. Meyer**, USDA-ERS, Washington, DC

## COTTON ECONOMICS & MARKETING - THURSDAY EARLY AFTERNOON

Reunion E (Hyatt Regency Dallas) - 1:30 PM-3:15 PM

**1:30 PM Risk Management Benefits of Optical Sensing and Variable Rate Technology in Cotton Production**

**James A Larson**<sup>1</sup>, Chris Boyer<sup>1</sup>, Melissa Stefanini<sup>1</sup>, Dayton M Lambert<sup>1</sup>, Xinhua (Frank) Yin<sup>2</sup>, Hugh J. Savoy<sup>1</sup>, Michael Buschermohle<sup>1</sup>, Donald D Tyler<sup>2</sup>, Jac Varco<sup>3</sup>, Brenda Tubana<sup>4</sup> and Peter Scharf<sup>5</sup>, (1)University of Tennessee, Knoxville, TN, (2)University of Tennessee, Jackson, TN, (3)Mississippi State University, Mississippi State, MS, (4)Louisiana State University, Baton Rouge, LA, (5)University of Missouri, Columbia, MO

**1:50 PM Modeling the Choice of Precision Agriculture Information Source by Cotton Producers in the Southern USA**

**Eric Asare** and Eduardo Segarra, Texas Tech University, Lubbock, TX

**2:10 PM Sustainability and Profitability of Cotton**

**Amanda Free**<sup>1</sup>, Bill Robertson<sup>1</sup>, Mike Daniels<sup>2</sup>, Archie Flanders<sup>3</sup> and Christopher Henry<sup>4</sup>, (1)University of Arkansas, Newport, AR, (2)University of Arkansas, Little Rock, AR, (3)Northeast Research and Extension, Keiser, AR, (4)University of Arkansas Division of Agriculture Cooperative Extension Service, Little Rock, AR

**2:30 PM Fieldprint Calculator: A Sustainability Analysis in the Texas High Plains**

**Taylor Black**, Donna Mitchell and Phil Johnson, Texas Tech University, Lubbock, TX

**2:50 PM Field to Gin-Seed Cotton Hauling Cost Estimator**

**Lawrence L Falconer**, Mississippi State University Extension Service, Stoneville, MS and Thomas D. Valco, USDA, ARS, Stoneville, MS

## COTTON ECONOMICS & MARKETING POSTERS

Reunion E (Hyatt Regency Dallas) - 1:30 PM-5:00 PM

**1. Texas' Extra Long Staple (ELS) Cotton Acreage Response**

**William Thompson**, Texas A&M AgriLife Extension Service, San Angelo, TX and David R Drake, Texas A&M AgriLife Extension Service, San Angelo, TX

**2. Optimal Crop Choice and Water Allocation in the Texas High Plains**

**Brackston McKnight**, Shyam Nair, Art Wolfskill and Foy D Mills, Sam Houston State University, Huntsville, TX

- 3. Agricultural Land Use Change in the US Cotton Belt**  
**Shyam Nair**, Foy D Mills and Art Wolfskill, Sam Houston State University, Huntsville, TX
- 4. Economic Advantages of Soil Moisture Probes on the Texas Southern High Plains**  
**Jeff Pate**<sup>1</sup>, Donna Mitchell<sup>2</sup> and Will Keeling<sup>1</sup>, (1)Texas A&M Agrilife Extension, Lubbock, TX, (2)Texas Tech University, Lubbock, TX
- 5. Cotton Premier Program - Risk Management (3 year Results)**  
**Danny J Nusser**, Texas A&M AgriLife Extension Service, Amarillo, TX

#### **COTTON ECONOMICS & MARKETING - THURSDAY LATE AFTERNOON**

##### **Reunion E (Hyatt Regency Dallas) - 4:00 PM-5:00 PM**

##### **4:00 PM Analyzing the Potential Impact of Cottonseed Subsidies on the Texas Southern High Plains**

**DeDe L Jones**, Texas A&M AgriLife Extension, Amarillo, TX

##### **4:20 PM Cross Hedging Whole Cottonseed: A Preliminary Study**

Wesley S. Regmund<sup>1</sup>, **John R.C. Robinson**<sup>1</sup>, David P. Anderson<sup>2</sup> and John L. Park<sup>2</sup>, (1)Texas A&M University, College Station, TX, (2)Texas A&M AgriLife Extension Service, College Station, TX

##### **4:40 PM The Evolution of the Texas Cotton Ginning Industry**

Darren Hudson and **Emily D Wade**, Texas Tech University, Lubbock, TX

### **Friday, January 6, 2017**

#### **COTTON ECONOMICS & MARKETING - FRIDAY EARLY MORNING**

##### **Pegasus B (Hyatt Regency Dallas) - 8:00 AM-10:00 AM**

##### **8:00 AM Cotton Economics and Marketing Conference Business Meeting**

**Leah M. Duzy**, USDA-ARS, Auburn, AL and Darren Hudson, Texas Tech University, Lubbock, TX

##### **8:40 AM The Impact of Recent Energy Prices on the U.S. Cotton Industry**

**Sima Siami-Namini** and Darren Hudson, Texas Tech University, Lubbock, TX

##### **9:00 AM Tracking Cotton End-Use in Major Apparel Markets**

**Jon Devine**, Cotton Incorporated, Cary, NC

##### **9:20 AM The Export Elasticity of Demand for U.S. Cotton**

**Bing Liu** and Darren Hudson, Texas Tech University, Lubbock, TX

##### **9:40 AM Observations from Xinjiang: Cotton Cost Structure in Western China**

**William Thompson**<sup>1</sup>, John R.C. Robinson<sup>2</sup>, Luis A. Ribera<sup>2</sup>, Mark Welch<sup>2</sup> and Mark L. Waller<sup>2</sup>, (1)Texas A&M AgriLife Extension Service, San Angelo, TX, (2) Texas A&M University, College Station, TX

# Cotton Engineering-Systems Conference

Thursday, January 5, 2017

## COTTON ENGINEERING-SYSTEMS - THURSDAY LATE MORNING

Gaston (Hyatt Regency Dallas) - 10:30 AM-12:00 PM

### 10:30 AM Delineating Cotton Irrigation Management Zones and Monitoring Station Locations in Variable Water Holding Capacity Soils Based on 5 Years of Experimental Yield Data

**Brian Leib**<sup>1</sup>, Tim Grant<sup>1</sup> and Feng Liangshan<sup>2</sup>, (1)University of Tennessee, Knoxville, TN, (2)Institute of Crop Cultivation and Farming System, Liaoning Academy of Agricultural Sciences, Shenyang, China

### 10:45 AM Implementing Simple Variable Rate Irrigation with Producers to Improve Cotton Irrigation Management

**Brian Leib**, University of Tennessee, Knoxville, TN and Tim Grant, University of Tennessee - BESS, Knoxville, TN

### 11:00 AM Development of Intelligent Logger Controller for Cotton Phenotyping

**Joe Mari J Maja** and Adam Blocker, Clemson University, Blackville, SC

### 11:15 AM Refining a Solar Radiation Stress Index for Cotton in the Mid-South

**Michele L Reba**, USDA-ARS, Jonesboro, AR and Tina Gray Teague, Ark State Univ / Univ Ark Exp Sta, State University, AR

### 11:30 AM Aerial Electrostatic Cotton Defoliation

**Daniel E Martin**<sup>1</sup>, Changhai Yang<sup>1</sup>, Gaylon Morgan<sup>2</sup> and Mohamed Latheef<sup>1</sup>, (1)USDA-ARS, College Station, TX, (2)Texas A&M AgriLife Extension Service, College Station, TX

### 11:45 AM A Unique Technique for Cotton Color Measurement

**Nayab Khan**<sup>1</sup>, Michal Vik<sup>1</sup>, Martina Vikova<sup>1</sup> and Bekir Yildirim<sup>2</sup>, (1)Technical University of Liberec, Liberec, Czech Republic, (2)Erciyes University, Kayseri, Turkey

## COTTON ENGINEERING-SYSTEMS - THURSDAY EARLY AFTERNOON

Gaston (Hyatt Regency Dallas) - 1:30 PM-3:15 PM

### 1:30 PM Assessment of Cotton Growth Using Ground-Based and UAV Remote Sensing

**Ruixiu Sui**<sup>1</sup>, Yanbo Huang<sup>1</sup>, Jonnie Baggard<sup>1</sup> and Howard Brand<sup>2</sup>, (1)USDA-ARS, Stoneville, MS, (2)Virginia Polytechnic Institute and State University, Blacksburg, VA

### 1:45 PM Comparison of Aerial Imagery from Manned and Unmanned Aircraft-Based Platforms for Monitoring Cotton Growth

**Changhai Yang**<sup>1</sup>, Juan Landivar<sup>2</sup>, Murilo Maeda<sup>2</sup>, Jinha Jung<sup>3</sup>, Michael J. Starek<sup>4</sup>, Tianxing Chu<sup>3</sup> and Anjin Chang<sup>3</sup>, (1)USDA-ARS, College Station, TX, (2)Texas A&M AgriLife Research, Corpus Christi, TX, (3)Texas A&M University - Corpus Christi, Corpus Christi, TX, (4)Texas A&M University-Corpus Christi, Corpus Christi, TX

### 2:00 PM Site-Specific Management of Cotton Root Rot Using Airborne and Satellite Imagery

**Changhai Yang**<sup>1</sup>, Gary N. Odvody<sup>2</sup>, J. Alex Thomasson<sup>3</sup>, Thomas Isakeit<sup>3</sup>, David R Drake<sup>4</sup> and Robert L. Nichols<sup>5</sup>, (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)Texas A&M AgriLife Extension Service, San Angelo, TX, (5)Cotton Incorporated, Cary, NC



**2:15 PM Unmanned Aerial System (UAS)-Based Asymmetric Cotton Growth Model for High Throughput Phenotyping**

**Jinha Jung**<sup>1</sup>, Juan Landivar<sup>2</sup>, Anjin Chang<sup>1</sup>, Junho Yeom<sup>1</sup> and Murilo Maeda<sup>2</sup>, (1)Texas A&M University - Corpus Christi, Corpus Christi, TX, (2)Texas A&M AgriLife Research, Corpus Christi, TX

**2:30 PM Unmanned Aerial System (UAS)-Based Cotton Canopy Temperature Measurement System**

**Anjin Chang**<sup>1</sup>, Jinha Jung<sup>1</sup>, Murilo Maeda<sup>2</sup>, Juan Landivar<sup>2</sup>, Henrique Cavalho<sup>3</sup> and Junho Yeom<sup>1</sup>, (1)Texas A&M University - Corpus Christi, Corpus Christi, TX, (2)Texas A&M AgriLife Research, Corpus Christi, TX, (3)Texas A&M University, College Station, TX

**2:45 PM Open Cotton Boll Detection Methodology Using Unmanned Aerial System (UAS) Imagery**

**Junho Yeom**<sup>1</sup>, Jinha Jung<sup>1</sup>, Anjin Chang<sup>1</sup>, Juan Landivar<sup>2</sup> and Murilo Maeda<sup>2</sup>, (1)Texas A&M University - Corpus Christi, Corpus Christi, TX, (2)Texas A&M AgriLife Research, Corpus Christi, TX

**COTTON ENGINEERING-SYSTEMS - THURSDAY LATE AFTERNOON**

**Gaston (Hyatt Regency Dallas) - 4:00 PM-5:30 PM**

**4:00 PM The Effect of Planter Parameters on Cotton Emergence, Growth, and Yield**

**Wesley M. Porter** and John L. Snider, University of Georgia, Tifton, GA

**4:15 PM Continued Work to Develop a Low-Cost Sensor to Detect Plastic Contamination in Seed Cotton at the Gin**

**Derek P. Whitelock**<sup>1</sup>, Carlos B. Armijo<sup>1</sup>, Stephen R. Delwiche<sup>2</sup>, Moon S. Kim<sup>3</sup> and S. Ed Hughs<sup>1</sup>, (1)USDA-ARS Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM, (2)USDA-ARS Food Quality Laboratory, Beltsville, MD, (3)USDA-ARS Environmental Microbial & Food Safety Laboratory, Beltsville, MD

**4:30 PM Microwave Moisture Sensing of Seedcotton: Part 1: Microwave Properties of Seedcotton**

**Mathew G Pelletier**<sup>1</sup>, John Wanjura<sup>2</sup> and Greg Holt<sup>2</sup>, (1)USDA-ARS Cotton Production and Processing Research Unit, Lubbock, TX, (2)USDA ARS, Lubbock, TX

**4:45 PM Aerial Evaluation of Software Based Image Conversion for Low Cost Plant Health Monitoring**

**Calvin Meeks**<sup>1</sup>, John L. Snider<sup>1</sup>, Wesley M. Porter<sup>1</sup>, Glen Ritchie<sup>2</sup>, Glen Rains<sup>1</sup> and Gary L. Hawkins<sup>1</sup>, (1)University of Georgia, Tifton, GA, (2)Texas Tech University, Lubbock, TX

**5:00 PM Influence of Field Characteristics, Planter Width and Planting Speed on Planting Efficiency**

**Colburn Condra**<sup>1</sup>, Michael Buschermohle<sup>1</sup>, Wesley M. Porter<sup>2</sup>, Randy Taylor<sup>3</sup> and Aaron Smith<sup>1</sup>, (1)University of Tennessee, Knoxville, TN, (2)University of Georgia, Tifton, GA, (3)Oklahoma State University, Stillwater, OK

**Friday, January 6, 2017**

**COTTON ENGINEERING-SYSTEMS - FRIDAY EARLY MORNING**

**Gaston (Hyatt Regency Dallas) - 8:15 AM-10:00 AM**

**8:15 AM Cotton Contamination: Considering Round Module Wrappers in Gins**

**Bradley Borges** and J. Alex Thomasson, Texas A&M University, College Station, TX

**8:30 AM Fiber Quality Parameters Influencing Fiber Breakage in Lint Cleaning: Frictional Characteristics of Fiber Assemblies**

**Farzad Hosseinali**, Texas A&M University, College Station Texas, TX and J. Alex Thomasson, Texas A&M University, College Station, TX

**8:45 AM Plastic Impurities Found in Cotton**

**Brandee L Haney**, USDA, Stoneville, MS and **Richard K Byler**, USDA-ARS Cotton Ginning, Stoneville, MS

**9:00 AM Fluidized Bed Gasification Power Plant for Cotton Gins**

**Walter Oosthuizen**<sup>1</sup>, **Russell McGee**<sup>2</sup> and **Calvin Parnell**<sup>2</sup>, (1)Texas A&M University, College Station Texas, TX, (2)Texas A&M University, College Station, TX

**9:15 AM Cotton Gin Trash Biochar Porosity Enhancement - a Literature Review**

**Randall Burow**, **Russell McGee** and **Calvin Parnell**, Texas A&M University, College Station, TX

**9:30 AM UAV Remote Sensing for Delineation of Cotton Root Rot**

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

**9:45 AM Calibrated Cotton Yield Monitor**

**Jianing He**, Texas A&M University, College Station Texas, TX and **J. Alex Thomasson**, Texas A&M University, College Station, TX

# Cotton Ginning Conference

Thursday, January 5, 2017

## COTTON GINNING - THURSDAY EARLY AFTERNOON

Moreno A/B (Hyatt Regency Dallas) - 1:30 PM-3:30 PM

*Presiding: Ron Craft*

### 1:30 PM Quality of 2016 Cotton Crop

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

### 1:45 PM Module Average Update

**Darryl Earnest**, USDA-AMS, Memphis, TN

### 2:00 PM Who Really Invented the Cotton Gin?

**William D. Mayfield**, USDA (Retired), Henderson, TN

### 2:15 PM Field to Gin-Seed Cotton Hauling Cost Estimator

**Lawrence L Falconer**, Mississippi State University Extension Service, Stoneville, MS and Thomas D. Valco, USDA, ARS, Stoneville, MS

### 2:30 PM Panel Discussion - Seed Size and Ginning New Varieties

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

### 2:40 PM Panel Discussion - Seed Size and Ginning New Varieties 2

**Richard Kelley**, Burlison Gin, Burlison, TN

### 2:50 PM Panel Discussion - Seed Size and Ginning New Varieties 3

**Wes Morgan**, Rolling Hills Gin, New London, NC

### 3:00 PM Panel Discussion - Seed Size and Ginning New Varieties 1

**Joe W. Thomas**, Lummus Corporation, Savannah, GA

3:10 PM Break

## COTTON GINNING - THURSDAY LATE AFTERNOON

Moreno A/B (Hyatt Regency Dallas) - 3:45 PM-5:30 PM

*Presiding: Ron Craft*

### 3:45 PM Technology Enhancements to Improve Gins and Warehouses Efficiency

**Robert J Swize**, Gulf Compress, Corpus Christi, TX and Randy Squires, PCCA, Altus, OK

### 4:00 PM New Product Developments from Lummus - 2016

**Mark D Cory**<sup>1</sup>, Ross D Rutherford<sup>2</sup> and Joe W. Thomas<sup>1</sup>, (1)Lummus Corporation, Savannah, GA, (2)Lummus Corporation, Lubbock, TX

### 4:15 PM Field Evaluation of Lummus Gin Machinery – 2016

**Ross D Rutherford**<sup>1</sup>, Mark D Cory<sup>2</sup> and Joe W. Thomas<sup>2</sup>, (1)Lummus Corporation, Lubbock, TX, (2)Lummus Corporation, Savannah, GA

### 4:30 PM Inline Moisture Monitoring for the Purpose of Separating the Wet Seed from the Dry

**Mike Gvili**, Advanced Sensing and Controls, HUDSON, MA

### 4:45 PM Round Module Wrap Removal

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

### 5:00 PM Ginfast Project Review - 2016

**David Duke**, Signode, Highpoint, NC

### 5:15 PM Improved Packaging Efficiency with Automation

**Doyle K. Needham**, L.P. Brown, Memphis, TN

## Friday, January 6, 2017

### COTTON GINNING - FRIDAY MORNING

**Moreno A/B (Hyatt Regency Dallas) - 8:15 AM-10:00 AM**

*Presiding: David Blakemore*

**8:15 AM Australia: Round Module Handling and Cotton Classing**  
**Christopher D. Delhom**, USDA-ARS Southern Regional Research Center, New Orleans, LA, Marinus H.J. van der Sluijs, CSIRO Manufacturing, Waurin Ponds, Australia and Vikki B. Martin, Cotton Incorporated, Cary, NC

**8:30 AM Another Look into the Removal of Plastic Wrap during Textile Processing**  
**Marinus H.J. van der Sluijs**, CSIRO Manufacturing, Waurin Ponds, Australia, Mark Freijah, CSIRO Manufacturing, Geelong, Australia and Maud Guittet, Graduate School of Chemistry, Biology and Physics (ENSCBP): Bordeaux Institute of Technology (Bordeaux INP), Pessac, France

**8:45 AM Testing of a Large-Scale Mechanical Cottonseed Delinter: Results and Improvements**  
**Greg Holt**<sup>1</sup>, Tom Wedegaertner<sup>2</sup>, John Wanjura<sup>1</sup>, Mathew G Pelletier<sup>3</sup> and Christopher D. Delhom<sup>4</sup>, (1)USDA ARS, Lubbock, TX, (2)Cotton Incorporated, Cary, NC, (3)USDA-ARS Cotton Production and Processing Research Unit, Lubbock, TX, (4)USDA-ARS Southern Regional Research Center, New Orleans, LA

**9:00 AM Investigation Using Three Different Lint Cleaners with Roller-Ginning Upland Cotton in Mississippi**  
**Richard K Byler**, USDA-ARS Cotton Ginning, Stoneville, MS and Christopher D. Delhom, USDA-ARS Southern Regional Research Center, New Orleans, LA

**9:15 AM New Technologies for Managing Cotton Modules**  
**John Wanjura**<sup>1</sup>, Edward M. Barnes<sup>2</sup>, Mathew G Pelletier<sup>3</sup> and Greg Holt<sup>1</sup>, (1) USDA ARS, Lubbock, TX, (2)Cotton Incorporated, Cary, NC, (3)USDA-ARS Cotton Production and Processing Research Unit, Lubbock, TX

**9:30 AM Cryogenically Treated Gin Saw Wear Test - Third Season**  
**S. Ed Hughs**, USDA-ARS Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM, Robert G. Hardin, USDA-ARS, Stoneville, MS and Christopher D. Delhom, USDA-ARS Southern Regional Research Center, New Orleans, LA

**9:45 AM What Research Is Happening to Help Prevent Contamination of US Cotton?**  
**Derek P. Whitelock**, USDA-ARS Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM, Richard K Byler, USDA-ARS Cotton Ginning, Stoneville, MS, Mathew G Pelletier, USDA-ARS Cotton Production and Processing Research Unit, Lubbock, TX and J. Alex Thomasson, Texas A&M University, College Station, TX

### JOINT SESSION: COTTON ENGINEERING-SYSTEMS AND GINNING - FRIDAY MORNING

**Moreno A/B (Hyatt Regency Dallas) - 10:15 AM-11:00 AM**

*Presiding: David Blakemore*

**10:15 AM Energy Use in Cotton Gins: 2016 Update**  
**Robert G. Hardin**, USDA-ARS, Stoneville, MS and Paul Funk, USDA-ARS, Mesilla Park, NM

**10:30 AM Effect of Seed Cotton Cleaner Speeds on Fiber Quality and Loss**  
**Robert G. Hardin**, USDA-ARS, Stoneville, MS

**10:45 AM Student Paper Award Presentation**  
**John Wanjura**, USDA ARS, Lubbock, TX

# Cotton Improvement Conference

Thursday, January 5, 2017

## COTTON IMPROVEMENT - THURSDAY EARLY MORNING - GRADUATE STUDENT COMPETITION

Reunion C (Hyatt Regency Dallas) - 8:00 AM-10:00 AM

**8:00 AM** Introductory Remarks

**8:15 AM** Co-Overexpression of *OsSIZ1* and *AVP1* in Cotton Substantially Improves Cotton Growth and Development Under Multiple-Stress Conditions

**Nardana Esmaeili**<sup>1</sup>, Jennifer Smith<sup>1</sup>, John Burke<sup>2</sup>, Paxton Payton<sup>3</sup> and Hong Zhang<sup>1</sup>, (1)Texas Tech University, Lubbock, TX, (2)USDA-ARS, Lubbock, TX, (3)United States Department of Agriculture, Lubbock, TX

**8:30 AM** Identifying and Breeding Drought Tolerant Cottons (*Gossypium* spp.) Treated with EMS-Mutant Agent on the Texas High Plains

**Travis Witt**<sup>1</sup>, Mauricio Ulloa<sup>2</sup>, Venugopal Mendu<sup>1</sup>, Mathew G Pelletier<sup>3</sup> and Glen Ritchie<sup>1</sup>, (1)Texas Tech University, Lubbock, TX, (2)USDA-ARS, Lubbock, TX, (3)USDA-ARS Cotton Production and Processing Research Unit, Lubbock, TX

**8:45 AM** Cotton, *Gossypium hirsutum* L., Cultivars Differential Response to Salinity

**Heather D. Elkins**<sup>1</sup>, Jane Dever<sup>2</sup> and Mark Arnold<sup>2</sup>, (1)Texas A&M University, College Station, TX, (2)Texas A&M AgriLife Research, Lubbock, TX

**9:00 AM** Evaluation of Mechanical Cotton Seed Delinter for Breeders

**Joel Arce**<sup>1</sup>, Jane Dever<sup>2</sup>, Terry Wheeler<sup>2</sup>, Greg Holt<sup>3</sup> and Steve Hague<sup>1</sup>, (1) Texas A&M University, College Station, TX, (2)Texas A&M AgriLife Research, Lubbock, TX, (3)USDA ARS, Lubbock, TX

**9:15 AM** Effects of Combining Ren<sup>lon</sup> with Ren<sup>barb1</sup> and Ren<sup>barb2</sup> Genes on Resistance to Reniform Nematode *Rotylenchulus reniformis*

**Amanda Gaudin**<sup>1</sup>, Ted Wallace<sup>1</sup>, Sally Stetina<sup>2</sup> and Jodi Scheffler<sup>2</sup>, (1) Mississippi State University, Mississippi State, MS, (2)USDA-ARS, Stoneville, MS

**9:30 AM** Screening Cotton for Resistance to *Alternaria* Leaf Spot Caused by *Alternaria alternata* in New Mexico

**Yi Zhu**, Soum Sanogo, Philip Lujan, S. Dura and Jinfa Zhang, New Mexico State University, Las Cruces, NM

**9:45 AM** Genetic Gains in Fiber Quality from the 1900s to Present in Upland Cotton

**Mitchell J. Schumann**, Texas A&M, College Station, TX and C. Wayne Smith, Texas A&M University, College Station, TX

## COTTON IMPROVEMENT - THURSDAY LATE MORNING - GRADUATE STUDENT COMPETITION

Reunion C (Hyatt Regency Dallas) - 10:30 AM-11:15 AM

**10:30 AM** Capture-Based Genotyping-By-Sequencing (GBS) of Cotton - a First Look

**Luis M De Santiago**<sup>1</sup>, Kathy Scienski<sup>2</sup>, Amanda M Hulse-Kemp<sup>2</sup>, Marcio Resende Jr.<sup>3</sup>, Leandro Neves<sup>3</sup> and David M. Stelly<sup>4</sup>, (1)Texas A&M University, College Station, TX, (2)Interdisciplinary Genetics Program, Texas A&M University, College Station, TX, (3)RAPID GENOMICS, Gainesville, FL, (4)Texas A&M AgriLife Research, College Station, TX

**10:45 AM High-Density SNP-Based Mapping and Multi-Trait QTL Analysis of Isogenic Chromosome-Specific CS-B17 RILs in Upland Cotton (*Gossypium hirsutum* L.)**

**Yu-Ming Lin**<sup>1</sup>, Luis M De Santiago<sup>1</sup>, Sukumar Saha<sup>2</sup>, Robert Vaughn<sup>3</sup>, Johnie N. Jenkins<sup>2</sup>, Jack C McCarty<sup>2</sup>, Mauricio Ulloa<sup>4</sup>, Russell Hayes<sup>2</sup>, B. Todd Campbell<sup>5</sup> and David M. Stelly<sup>1</sup>, (1)Texas A&M University, College Station, TX, (2)USDA-ARS, Mississippi State, MS, (3)Texas A&M AgriLife Research, College Station, TX, (4)USDA-ARS, Lubbock, TX, (5)USDA-ARS, Florence, SC

**11:00 AM Phenotyping Drought Tolerance in Converted *Gossypium* Ssp. Race Stocks**

**Dustin G Wilkerson**, Texas A&M University, College Station, TX

**COTTON IMPROVEMENT - THURSDAY LATE MORNING**

**Reunion C (Hyatt Regency Dallas) - 11:15 AM-12:00 PM**

**11:15 AM Evaluation and Genetic Analysis of Resistance to Verticillium Wilt in U.S. Upland Cotton**

**Abdelraheem Abdelraheem**<sup>1</sup>, Soum Sanogo<sup>1</sup>, Vasu Kuraparthi<sup>2</sup>, Don Jones<sup>3</sup> and Jinfa Zhang<sup>1</sup>, (1)New Mexico State University, Las Cruces, NM, (2) North Carolina State University, Raleigh, NC, (3)Cotton Incorporated, Cary, NC

**11:30 AM Progress in Development of Reniform Resistant Germplasm Derived from Barbren-713**

**Ted Wallace**<sup>1</sup>, Jodi Scheffler<sup>2</sup>, Sally Stetina<sup>2</sup> and Amanda Gaudin<sup>1</sup>, (1) Mississippi State University, Mississippi State, MS, (2)USDA-ARS, Stoneville, MS

**COTTON IMPROVEMENT - THURSDAY EARLY AFTERNOON**

**Reunion C (Hyatt Regency Dallas) - 1:30 PM-3:15 PM**

**1:30 PM A MAGIC Population-Based Genome-Wide Association Study Reveals Functional Association of GhRBB1\_A07 Gene with Superior Fiber Quality in Cotton**

**David Fang**<sup>1</sup>, Md S Islam<sup>2</sup>, Gregory N Thyssen<sup>3</sup>, Johnie N Jenkins<sup>4</sup>, Linghe Zeng<sup>5</sup>, Christopher D. Delhom<sup>6</sup>, Jack C McCarty<sup>4</sup>, Dewayne D Deng<sup>4</sup>, Doug J Hinchliffe<sup>3</sup> and Don Jones<sup>7</sup>, (1)USDA-ARS, New Orleans, LA, (2)USDA ARS, Canal Point, FL, (3)Cotton Chemistry and Utilization Research Unit, USDA ARS, New Orleans, LA, (4)USDA-ARS, Mississippi State, MS, (5)USDA-ARS, Stoneville, MS, (6)USDA-ARS Southern Regional Research Center, New Orleans, LA, (7)Cotton Incorporated, Cary, NC

**1:45 PM Evaluation of a MAGIC Population Derived from Rmbup-C4 for Verticillium Wilt Resistance**

**Gaspar Martinez**<sup>1</sup>, Zachary Larson<sup>1</sup>, Abdelraheem Abdelraheem<sup>1</sup>, Zongfu Han<sup>2</sup>, Jie Chen<sup>3</sup>, Jack C McCarty<sup>4</sup>, Johnie N Jenkins<sup>4</sup> and Jinfa Zhang<sup>1</sup>, (1) New Mexico State University, Las Cruces, NM, (2)Cotton Research Centre, Shandong Academy of Agricultural Sciences, Jinan, China, (3)Huazhong Agricultural University, Wuhan, China, (4)USDA-ARS, Mississippi State, MS

**2:00 PM Identification of a Multi-Parent Rmbup Population for Salt Tolerance in Cotton**

**Triston Hooks**<sup>1</sup>, Abdelraheem Abdelraheem<sup>1</sup>, Jie Chen<sup>2</sup>, Sujun Zhang<sup>3</sup>, Zongfu Han<sup>4</sup>, Gaspar Martinez<sup>1</sup>, Jack C McCarty<sup>5</sup>, Johnie N Jenkins<sup>5</sup>, Geno Picchioni<sup>6</sup> and Jinfa Zhang<sup>1</sup>, (1)New Mexico State University, Las Cruces, NM, (2)Huazhong Agricultural University, Wuhan, China, (3)Institute of Cotton, Hebei Academy of Agriculture and Forestry Sciences, Shijiazhuang, China, (4)Cotton Research Centre, Shandong Academy of Agricultural Sciences, Jinan, China, (5)USDA-ARS, Mississippi State, MS, (6)New Mexico State University, Las Cruces, NM

**2:15 PM A Simple and High-Throughput Assay for Detecting CNV in *Gossypium* Germplasm**

**Robert N Vaughn**, Department of Soil & Crop Sciences, Texas A&M University Agrilife Research, College Station, TX, David M. Stelly, Texas A&M AgriLife Research, College Station, TX and Keerti S Rathore, Texas A&M University, College Station, TX

**2:30 PM Enhancing Upland Cotton Breeding By Improving the Introgression, Dissection and Manipulation of Germplasm from Gossypium Diploid Species**

Ammani N. Kyanam<sup>1</sup>, Amanda Hulse-kemp<sup>1</sup>, Robert N Vaughn<sup>2</sup>, Dwaine Raska<sup>1</sup>, Fei Wang<sup>1</sup>, Nithya Subramanian<sup>1</sup>, Don Jones<sup>3</sup> and **David M. Stelly**<sup>1</sup>, (1)Texas A&M University, College Station, TX, (2)Department of Soil & Crop Sciences, Texas A&M University Agrilife Research, College Station, TX, (3) Cotton Incorporated, Cary, NC

**2:45 PM Potential Predictors for Interpreting the Multi-Attribute Relationships of Yield, Fiber, and Yarn in Cotton**

**Abdalla Mohamed Ali Abdalla**<sup>1</sup>, Eman El-sayed Rashwan E<sup>2</sup> and Wagida Afifi El-Faramawy<sup>2</sup>, (1)Cairo Univ., Giza, Egypt, (2)Cotton Research Inst., Giza, Egypt

**3:00 PM Cotton Genetics Award and Graduate Student Awards**

**Friday, January 6, 2017**

**COTTON IMPROVEMENT - FRIDAY EARLY MORNING**

**Reunion C (Hyatt Regency Dallas) - 8:00 AM-10:00 AM**

**8:00 AM Introductory Remarks**

**8:15 AM Updates to Cottongen: The Community Database for Cotton Genomics Genetics and Breeding Research**

**Dorrie Main**<sup>1</sup>, Jing Yu<sup>1</sup>, Sook Jung<sup>1</sup>, Taein Lee<sup>1</sup>, Jodi Humann<sup>1</sup>, Deah McGaughey<sup>1</sup>, Morgan Frank<sup>1</sup>, Jodi Humann<sup>1</sup>, B. Todd Campbell<sup>2</sup> and Richard Percy<sup>3</sup>, (1)Washington State University, Pullman, WA, (2)USDA-ARS, Florence, SC, (3)USDA-ARS, College Station, TX

**8:30 AM Effects of RNAi PHYA1 in Cotton**

**Johnie N. Jenkins**<sup>1</sup>, Jack C McCarty<sup>1</sup>, Martin Wubben<sup>2</sup>, Dewayne D Deng<sup>1</sup>, Sukumar Saha<sup>1</sup> and Ibrokhim Abdurakhmonov<sup>3</sup>, (1)USDA-ARS, Mississippi State, MS, (2)USDA ARS, Mississippi State, MS, (3)Center of Genomic Technologies, Tashkent, Uzbekistan

**8:45 AM Genotypic Diversity of Adapted Cotton Cultivars and Feral Populations Collected in Burkina Faso**

**Larbouga Bourgou**<sup>1</sup>, Mahamadou Sawadago<sup>2</sup>, Sanfo Denys<sup>1</sup>, Jean-Marc Lacape<sup>3</sup> and Jane Dever<sup>4</sup>, (1)INERA, Bobo Dioulasso, Burkina Faso, (2) University of Ouagadougou, Ouagadougou, Burkina Faso, (3)CIRAD, Montpellier, France, (4)Texas A&M AgriLife Research, Lubbock, TX

**9:00 AM PHY 444 WRF: A New High Quality Upland Cotton Variety from Phytogen**

**Mustafa McPherson**, PhytoGen Seed Company, Leland, MS, Joel Mahill, PhytoGen Seed Company, Corcoran, CA and Dru Rush, PhytoGen Seed Company, Brewton, AL

**9:15 AM Prospects for Simultaneous Improvement of Cotton Fiber and Seed**

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

**9:30 AM Combining Abilities for Seed Oil and Protein Content in Cotton**

**Neha Kothari**<sup>1</sup>, Drew Sturtevant<sup>2</sup>, Lori Hinze<sup>3</sup>, Kent Chapman<sup>2</sup> and Jane Dever<sup>4</sup>, (1)Texas A&M AgriLife Research, College Station, TX, (2)University of North Texas, Denton, TX, (3)USDA-ARS, College Station, TX, (4)Texas A&M AgriLife Research, Lubbock, TX

**COTTON IMPROVEMENT - FRIDAY LATE MORNING - BUSINESS MEETING AND GROUP DISCUSSION**

**Reunion C (Hyatt Regency Dallas) - 10:30 AM-12:00 PM**

**10:30 AM Business Meeting and Discussion**

# Cotton Insect Research and Control Conference

Thursday, January 5, 2017

## COTTON INSECT RESEARCH AND CONTROL ROUNDTABLE

Reunion F (Hyatt Regency Dallas) - 11:00 AM-12:00 PM

Officials: Jeff Gore  
Gus Lorenz

Presidings: Angus Catchot  
Jeremy K Greene  
Robert Bowling

## COTTON INSECT RESEARCH AND CONTROL - THURSDAY EARLY AFTERNOON - PH.D. STUDENT PAPER COMPETITION A

Reunion F (Hyatt Regency Dallas) - 1:30 PM-3:15 PM

Presiding: Fred Musser

### 1:30 PM Boll Weevil (*Anthonomus grandis*) Population Genomics As a Tool for Monitoring and Management

Tyler Jay Raszick<sup>1</sup>, Gregory A. Sword<sup>1</sup>, Charles P.-C. Suh<sup>2</sup> and Raul Ruiz-Arce<sup>3</sup>, (1)Texas A&M University, College Station, TX, (2)USDA-ARS, College Station, TX, (3)USDA-APHIS, Edinburg, TX

### 1:45 PM Sugarcane Aphid, *Melanaphis Sacchari* and Grain Sorghum: Implications for Honeybees, *Apis Mellifera*

Whitney Crow<sup>1</sup>, Angus Catchot<sup>1</sup>, Jeff Gore<sup>2</sup>, Scott D. Stewart<sup>3</sup> and Sandy Steckel<sup>3</sup>, (1)Mississippi State University, Mississippi State, MS, (2)Mississippi State University, Stoneville, MS, (3)The University of Tennessee, Jackson, TN

### 2:00 PM Planting Date and Its Effects on Management Strategies in Mississippi Soybean

Nick R Bateman<sup>1</sup>, Angus Catchot<sup>1</sup>, Jeff Gore<sup>2</sup>, Don Cook<sup>2</sup>, Fred Musser<sup>1</sup> and Trent Irby<sup>1</sup>, (1)Mississippi State University, Mississippi State, MS, (2)Mississippi State University, Stoneville, MS

### 2:15 PM The Evaluation of New Bt Technologies for the Control of Thrips and Tarnished Plant Bugs

Scott Hester Graham and Scott D. Stewart, The University of Tennessee, Jackson, TN

### 2:30 PM Winter Cover Crop-Soybean Systems: An Entomological Perspective

Adam Whalen<sup>1</sup>, Jeff Gore<sup>2</sup>, Angus Catchot<sup>1</sup>, Don Cook<sup>2</sup> and Fred Musser<sup>1</sup>, (1)Mississippi State University, Mississippi State, MS, (2)Mississippi State University, Stoneville, MS

### 2:45 PM Spatial Relationships of Cotton Pests in the South Texas Landscape

Isaac L Esquivel, Texas A&M University, College Station, TX, Michael J. Brewer, Texas A&M AgriLife Research, Corpus Christi, TX and Robert Coulson, Texas A&M, College Station, TX

### 3:00 PM The Feeding and Reproductive Behavior of Two Isolated Lineages of Sugarcane Aphid [*Melanaphis Sacchari* (Zehntner) (Aphididae)]

Greg B Wilson, LSU AgCenter at Macon Ridge, Winnsboro, LA



**COTTON INSECT RESEARCH AND CONTROL - THURSDAY EARLY AFTERNOON - PH.D. STUDENT PAPER COMPETITION B**

**Pegasus A (Hyatt Regency Dallas) - 1:30 PM-3:15 PM**

*Presiding: Nathan S Little*

**1:30 PM Plant Volatile Organic Compounds Associated with Fungal Endophyte Seed Treatment of Cotton**

**Cody Gale**<sup>1</sup>, Gregory A. Sword<sup>1</sup>, Charles P.-C. Suh<sup>2</sup>, Jose L Perez<sup>2</sup> and Michael V Kolomiets<sup>3</sup>, (1)Texas A&M University, College Station, TX, (2)USDA-ARS, College Station, TX, (3)Texas A&M Plant Pathology Department, College Station, TX

**1:45 PM Germplasm Screening and Dissecting Growth Components Contributing to Thrips Tolerance in Cotton**

**Baljinder Kaur**, Linglong Zhu, Hui Fang and Vasu Kuraparthi, North Carolina State University, Raleigh, NC

**2:00 PM Impact of Early Season Management Decisions on Soybean Yield**

**John H North**<sup>1</sup>, Angus Catchot<sup>1</sup>, Jeff Gore<sup>2</sup>, Don Cook<sup>2</sup>, Trent Irby<sup>1</sup> and John Orłowski<sup>2</sup>, (1)Mississippi State University, Mississippi State, MS, (2)Mississippi State University, Stoneville, MS

**2:15 PM Macronutrient Intake Alters the Susceptibility of Noctuid Pests to Bt Cotton**

**Ashley Tessnow**<sup>1</sup>, Tom Walsh<sup>2</sup>, Spencer Behmer<sup>1</sup> and Gregory A. Sword<sup>1</sup>, (1)Texas A&M University, College Station, TX, (2)CSIRO, Acton, Canberra, Australia

**2:30 PM Improved Understanding of Seed Treatment Performance through Knowledge of Local Levels of Neonicotinoid Resistance**

**Damon A. D'Ambrosio**, Anders S. Huseeth and George G Kennedy, North Carolina State University, Raleigh, NC

**2:45 PM Impact of Defoliation on Mid-South Soybeans**

**Benjamin C Thrash**<sup>1</sup>, Angus Catchot<sup>1</sup>, Jeff Gore<sup>2</sup>, Don Cook<sup>2</sup>, Fred Musser<sup>1</sup>, Trent Irby<sup>1</sup> and Jason Krutz<sup>2</sup>, (1)Mississippi State University, Mississippi State, MS, (2)Mississippi State University, Stoneville, MS

**3:00 PM Assessment of Rice Stink Bug, *Oebalus pugnax*, Damage to Grain Sorghum**

**Aaron Cato**, University of Arkansas, Fayetteville, AR, Gus Lorenz, The University of Arkansas, Lonoke, AR, Nick Seiter, University of Arkansas System Division of Agriculture, Monticello, AR and Glenn Stuebaker, University of Arkansas, Keiser, AR

**COTTON INSECT RESEARCH AND CONTROL - THURSDAY LATE AFTERNOON - M.S. STUDENT PAPER COMPETITION A**

**Reunion F (Hyatt Regency Dallas) - 4:00 PM-6:00 PM**

*Presiding: Katherine A Parys*

**4:00 PM Determining the Relationship of Adult Moth Vial Pyrethroid Bioassays to Field Performance**

**Ryan Tyler Gilreath**<sup>1</sup>, David Kerns<sup>2</sup> and Sebe Brown<sup>2</sup>, (1)Louisiana State University, Winnsboro, LA, (2)LSU AgCenter, Winnsboro, LA

**4:15 PM Evaluating Fall Armyworm Thresholds in Whorl Stage Corn in Mississippi**

**Keiton L Croom**<sup>1</sup>, Angus Catchot<sup>1</sup>, Don Cook<sup>2</sup> and Jeff Gore<sup>2</sup>, (1)Mississippi State University, Mississippi State, MS, (2)Mississippi State University, Stoneville, MS

**4:30 PM Influence of Cultural Practices on Soybean Nectar Production**

**Ty Smith**<sup>1</sup>, Angus Catchot<sup>1</sup>, Jeff Harris<sup>1</sup>, Natraj Krishnan<sup>1</sup>, Jeff Gore<sup>2</sup> and Don Cook<sup>2</sup>, (1)Mississippi State University, Mississippi State, MS, (2)Mississippi State University, Stoneville, MS

**4:45 PM Landscape Level Contributions of Corn, Cotton, and Soybeans in Mixed Production Systems for Helicoverpa Zea Populations**

**Tyler B Towles**, Mississippi State University, Starkville, MS

**5:00 PM Planting Date Influences Thrips Infestations and Management Programs in Georgia Cotton**

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

**5:15 PM Horizontal Transmission of *Helicoverpa Nucleopolyhedrosis Virus (NPV)* in Soybean Fields Infested with Corn Earworm**

**Joseph Black**<sup>1</sup>, Gus Lorenz<sup>2</sup>, Nichole Taillon<sup>1</sup>, Aaron Cato<sup>3</sup> and Andrew Plummer<sup>1</sup>, (1)University of Arkansas CES, Lonoke, AR, (2)The University of Arkansas, Lonoke, AR, (3)University of Arkansas, Fayetteville, AR

**5:30 PM Impact of Whorl Feeding By Fall Armyworm in Corn**

**Zane Taillon**<sup>1</sup>, Gus Lorenz<sup>2</sup>, Nichole Taillon<sup>3</sup>, Andrew Plummer<sup>3</sup>, Michael Chaney<sup>3</sup>, Joseph Black<sup>3</sup> and Aaron Cato<sup>1</sup>, (1)University of Arkansas, Fayetteville, AR, (2)The University of Arkansas, Lonoke, AR, (3)University of Arkansas CES, Lonoke, AR

**5:45 PM Efficacy of Insecticide Seed Treatment Combinations for Control of Rice Water Weevil**

**Jorge Talavera**<sup>1</sup>, Gus Lorenz<sup>2</sup>, Nichole Taillon<sup>3</sup>, Andrew Plummer<sup>3</sup>, Michael Chaney<sup>3</sup>, Joseph Black<sup>3</sup> and Aaron Cato<sup>1</sup>, (1)University of Arkansas, Fayetteville, AR, (2)The University of Arkansas, Lonoke, AR, (3)University of Arkansas CES, Lonoke, AR

**COTTON INSECT RESEARCH AND CONTROL - THURSDAY LATE AFTERNOON - M.S. STUDENT PAPER COMPETITION B**

**Pegasus A (Hyatt Regency Dallas) - 4:00 PM-6:00 PM**

*Presiding: Daniel E Fleming*

**4:00 PM Evaluation of Commercial Sorghum Hybrids for Resistance to *Melanaphis Sacchari* (Sugarcane Aphid)**

**John David Gonzales**<sup>1</sup>, David Kerns<sup>1</sup>, Sebe Brown<sup>1</sup> and Fangneng Huang<sup>2</sup>, (1)LSU AgCenter, Winnsboro, LA, (2)LSU AgCenter, Baton Rouge, LA

**4:15 PM Managing Sugarcane Aphids (*Melanaphis sacchari*) in MS Grain Sorghum (*Sorghum bicolor*)**

**Brittany E Lipsey**<sup>1</sup>, Angus Catchot<sup>1</sup>, Jeff Gore<sup>2</sup>, Don Cook<sup>2</sup>, Fred Musser<sup>1</sup> and Erick Larson<sup>1</sup>, (1)Mississippi State University, Mississippi State, MS, (2) Mississippi State University, Stoneville, MS

**4:30 PM The Value of Aphid Management in Tennessee Wheat**

**Clay Perkins** and Scott D. Stewart, The University of Tennessee, Jackson, TN

**4:45 PM Effect of Sorghum Planting Date on Sugarcane Aphid Populations and Associated Natural Enemies**

**Anne D Miskelley**<sup>1</sup>, Nick Seiter<sup>2</sup>, Neelendra Joshi<sup>1</sup>, Gus Lorenz<sup>3</sup> and Glenn Studebaker<sup>4</sup>, (1)University of Arkansas, Fayetteville, AR, (2)University of Arkansas System Division of Agriculture, Monticello, AR, (3)The University of Arkansas, Lonoke, AR, (4)University of Arkansas, Keiser, AR

**5:00 PM Kudzu Bug: A New Pest in MS Soybeans?**

**Bill M McRight**, MS State, Starkville, MS

**5:15 PM Controlling Tarnished Plant Bug in Cotton through a Transgenic Approach**

**John C Corbin**<sup>1</sup>, Angus Catchot<sup>2</sup>, Jeff Gore<sup>3</sup>, Darrin M. Dodds<sup>2</sup> and Don Cook<sup>3</sup>, (1)Mississippi State University, Starkville, MS, (2)Mississippi State University, Mississippi State, MS, (3)Mississippi State University, Stoneville, MS

**5:30 PM Compounding Effects of Thrips and Tarnished Plant Bug on Cotton Maturity and Yield**

**Joel Moor**<sup>1</sup>, Jeff Gore<sup>1</sup>, Angus Catchot<sup>2</sup>, Don Cook<sup>1</sup> and Darrin M. Dodds<sup>3</sup>, (1) Mississippi State University, Stoneville, MS, (2)Mississippi State University, Mississippi State, MS

**5:45 PM Effects of Planting Date and Variety on Thrips Populations and Injury to Cotton in the Southeastern United States**

**Cody Kerns**<sup>1</sup>, Jeremy K Greene<sup>1</sup>, Francis Reay-Jones<sup>2</sup>, Dan Robinson<sup>1</sup> and James Smoak<sup>1</sup>, (1)Clemson University, Blackville, SC, (2)Clemson University, Florence, SC

**COTTON INSECT RESEARCH AND CONTROL BUSINESS MEETING**

**Reunion F (Hyatt Regency Dallas) - 6:00 PM-7:00 PM**

*Presidings: Gus Lorenz  
Jeff Gore*

**Friday, January 6, 2017**

**COTTON INSECT RESEARCH AND CONTROL - FRIDAY EARLY MORNING - SESSION A**

**Reunion F (Hyatt Regency Dallas) - 8:00 AM-10:00 AM**

*Presidings: Adam Whalen  
Scott Hester Graham*

**8:00 AM Cotton Insect Losses Report for 2016**

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

**8:15 AM The Influence of Agriculture on the Health of Honey Bees**

**Scott D. Stewart**<sup>1</sup>, Mohamed Alburaki<sup>1</sup>, John Adamczyk<sup>2</sup> and William Meikle<sup>3</sup>, (1)The University of Tennessee, Jackson, TN, (2)USDA - ARS, Poplarville, MS, (3)USDA - ARS, Tucson, AZ

**8:30 AM Landscapes of Resistance: Describing Cotton Production Factors Driving Tobacco Thrips Neonicotinoid Resistance in the Eastern Cotton Belt**

**Anders S. Huseeth**<sup>1</sup>, Thomas M. Chappell<sup>1</sup>, Anitha Chitturi<sup>2</sup>, Alana Lynn Jacobson<sup>2</sup> and George G Kennedy<sup>1</sup>, (1)North Carolina State University, Raleigh, NC, (2)Auburn University, Auburn, AL

**8:45 AM Solutions for the Future of Thrips IPM: A Predictive Model to Inform Cotton Planting and Timing Foliar Sprays**

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

**9:00 AM Efficacy of Seed Treatments in Relation to Early-Season Thrips Dynamics and Cotton Growing Conditions during a 6-Week Planting Window**

**Alana L Jacobson** and Anitha Chitturi, Auburn University, Auburn, AL

**9:15 AM Thrips Management in Mid-South Cotton**

**Don Cook**<sup>1</sup>, Jeff Gore<sup>1</sup>, Angus Catchot<sup>2</sup>, Scott D. Stewart<sup>3</sup>, David Kerns<sup>4</sup>, Gus Lorenz<sup>5</sup>, Nick Seiter<sup>6</sup>, Glenn Studebaker<sup>7</sup>, Fred Musser<sup>2</sup>, Sebe Brown<sup>4</sup> and Moneen Jones<sup>8</sup>, (1)Mississippi State University, Stoneville, MS, (2)Mississippi State University, Mississippi State, MS, (3)The University of Tennessee, Jackson, TN, (4)LSU AgCenter, Winnsboro, LA, (5)The University of Arkansas, Lonoke, AR, (6)University of Arkansas System Division of Agriculture, Monticello, AR, (7)University of Arkansas, Keiser, AR, (8)University of Missouri, Portageville, MO

**9:30 AM A Next Generation Sequencing Multi-Loci DNA Barcoding Approach for *Helicoverpa armigera* Detection**

**Jason A Wulff**, Texas A&M University Department of Entomology, College Station, TX, Todd M Gilligan, USDA-APHIS, Fort Collins, CO, Norman B Barr, USDA-APHIS, Edinburg, TX, Omaththage P Perera, USDA-ARS, Stoneville, MS, Tom Walsh, CSIRO, Acton, Canberra, Australia and Gregory A. Sword, Texas A&M University, College Station, TX

**9:45 AM Arizona Pink Bollworm Eradication Program 2016 Update**

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

**COTTON INSECT RESEARCH AND CONTROL - FRIDAY EARLY MORNING  
- SESSION B**

**Pegasus A (Hyatt Regency Dallas) - 8:00 AM-10:00 AM**

*Presidings: Benjamin C Thrash  
Nick R Bateman*

**8:00 AM Caterpillars, Cotton Pest Protection and Insect Bioassay:  
Don't Forget the Microbiome**

**R Michael Roe**<sup>1</sup>, Anirudh Dhammi<sup>1</sup>, Loganathan Ponnusamy<sup>1</sup>, Jiwei Zhu<sup>1</sup>, Grayson Cave<sup>1</sup> and Ryan W Kurtz<sup>2</sup>, (1)North Carolina State University, Raleigh, NC, (2)Cotton Incorporated, Cary, NC

**8:15 AM Monitoring Bollworms for Pyrethroid Resistance, 2007-2016**

**Fred Musser**, Mississippi State University, Mississippi State, MS, Gus Lorenz, The University of Arkansas, Lonoke, AR, David Kerns, LSU AgCenter, Winnsboro, LA, Megha N. Parajulee, Texas A&M AgriLife Research, Department of Entomology, Lubbock, TX, Scott D. Stewart, The University of Tennessee, Jackson, TN, Moneen Jones, University of Missouri, Portageville, MO, Phillip M. Roberts, University of Georgia, Tifton, GA, Jeremy K Greene, Clemson University, Blackville, SC, Dominic Reisig, North Carolina State University, Plymouth, NC and Ames Herbert, Virginia Tech, Suffolk, VA

**8:30 AM Susceptibility of Field Populations of the Cotton Bollworm in the Southern U.S. to Four Individual Bt Proteins**

**Fei Yang**, LSU Agcenter, Baton Rouge, LA and David Kerns, LSU AgCenter, Winnsboro, LA

**8:45 AM Developing a Fruit Injury Based Action Threshold for Bollworms and Field Validation**

**David Kerns**<sup>1</sup>, Sebe Brown<sup>1</sup>, Fei Yang<sup>2</sup>, Scott D. Stewart<sup>3</sup>, Gus Lorenz<sup>4</sup>, Nick Seiter<sup>5</sup>, Glenn Studebaker<sup>6</sup>, Jeff Gore<sup>7</sup>, Don Cook<sup>7</sup> and Angus Catchot<sup>8</sup>, (1) LSU AgCenter, Winnsboro, LA, (2)LSU Agcenter, Baton Rouge, LA, (3)The University of Tennessee, Jackson, TN, (4)The University of Arkansas, Lonoke, AR, (5)University of Arkansas System Division of Agriculture, Monticello, AR, (6)University of Arkansas, Keiser, AR, (7)Mississippi State University, Stoneville, MS, (8)Mississippi State University, Mississippi State, MS

**9:00 AM A Meta-Analysis of Transgenic Bt Cotton Efficacy: 1996-2015, Preliminary Data**

**Daniel E Fleming**<sup>1</sup>, Fred Musser<sup>1</sup> and Nathan S Little<sup>2</sup>, (1)Mississippi State University, Mississippi State, MS, (2)USDA-ARS SIMRU, Stoneville, MS

**9:15 AM Twenty-Three Years of Heliiothine Trap Captures in Stoneville, Mississippi: Associations with Insect Control Technologies, Crop Diversity and Insect Abundance**

**Randall G. Luttrell**, USDA-ARS SIMRU, Stoneville, MS and Larry Adams, USDA ARS SIMRU, Stoneville, MS

**9:30 AM Performance of WideStrike®3 Insect Protection in 2016**

**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

**9:45 AM Efficacy of Bollgard 3 Cotton in Mississippi**

**Read Kelly**<sup>1</sup>, Jeff Gore<sup>1</sup>, Angus Catchot<sup>2</sup>, Don Cook<sup>1</sup> and Joel Moor<sup>1</sup>, (1) Mississippi State University, Stoneville, MS, (2)Mississippi State University, Mississippi State, MS

**COTTON INSECT RESEARCH AND CONTROL - FRIDAY LATE MORNING  
- SESSION A**

**Reunion F (Hyatt Regency Dallas) - 10:30 AM-12:00 PM**

*Presidings: Whitney Crow  
Aaron Cato*

**10:30 AM Management of Plant Bugs Under Water-Deficit Cotton Production Systems in the Texas High Plains**

**Abdul Hakeem**, Megha N Parajulee and Katie L Lewis, Texas A&M AgriLife Research and Extension Center, Lubbock, TX

**10:45 AM Cultural Control Tactics to Influence Early Season Spatial Distribution of *Lygus lineolaris* in Midsouth Cotton**

**Tina Gray Teague**, Ark State Univ / Univ Ark Exp Sta, State University, AR, Amanda M. Mann, University of Arkansas Division of Agriculture, State University, AR and Jeffrey Willers, Southern Insect Management Research Unit USDA-ARS, Stoneville, MS

**11:00 AM The Benefits of Transform<sup>®</sup> Insecticide for SAP Feeding Insect Control in Cotton**

**Larry C Walton**, Dow AgroSciences, Tupelo, MS and Jesse Richardson, Dow AgroSciences, Indianapolis, IN

**11:15 AM Reevaluating *Lygus lineolaris* Thresholds in North Carolina Cotton**

**Mohammad-Amir Aghaee** and Dominic Reisig, North Carolina State University, Plymouth, NC

**11:30 AM Terminating Tarnished Plant Bug Sprays in Cotton**

**Jeff Gore**<sup>1</sup>, Scott D. Stewart<sup>2</sup>, Gus Lorenz<sup>3</sup>, Angus Catchot<sup>4</sup>, David Kerns<sup>5</sup>, Nick Seiter<sup>6</sup>, Glenn Studebaker<sup>7</sup>, Don Cook<sup>1</sup> and Sebe Brown<sup>5</sup>, (1)Mississippi State University, Stoneville, MS, (2)The University of Tennessee, Jackson, TN, (3)The University of Arkansas, Lonoke, AR, (4)Mississippi State University, Mississippi State, MS, (5)LSU AgCenter, Winnsboro, LA, (6)University of Arkansas System Division of Agriculture, Monticello, AR, (7)University of Arkansas, Keiser, AR

**COTTON INSECT RESEARCH AND CONTROL - FRIDAY LATE MORNING - SESSION B**

**Pegasus A (Hyatt Regency Dallas) - 10:30 AM-12:00 PM**

*Presidings: John H North  
Sandy Steckel*

**10:30 AM Whitefly Gene Knockdowns and Mortality By Orally-Delivered Dsrnas Silence Gut- and 'Whole Body'-Encoded Genes**

**Judith K Brown**, University of Arizona, Tucson, AZ

**10:45 AM Using Population Genomics to Reveal Temporal Patterns of Host Use in the Cotton Fleahopper (*Pseudatomoscelis seriatus*)**

**Tyler Jay Raszick**<sup>1</sup>, Gregory A. Sword<sup>1</sup> and Charles P.-C. Suh<sup>2</sup>, (1)Texas A&M University, College Station, TX, (2)USDA-ARS, College Station, TX

**11:00 AM Management of Resurging Arthropod Pests on Bt Cotton in Pakistan**

**Tahammal Hussain**<sup>1</sup>, Khuram Zia<sup>1</sup>, Megha N. Parajulee<sup>2</sup>, Mumammad Jalal Arif<sup>3</sup> and Abdul Hakeem<sup>4</sup>, (1)University of Agriculture, Faisalabad, Pakistan, (2)Texas A&M AgriLife Research, Department of Entomology, Lubbock, TX, (3)University of Agriculture, Faisalabad, Pakistan, (4)Texas A&M AgriLife Research and Extension Center, Lubbock, TX

**11:15 AM Cotton Fleahopper Management Based on Monitoring, Field Location, and Cultivars**

**Robert Bowling**, Texas A&M University, Corpus Christi, TX, Michael J. Brewer, Texas A&M AgriLife Research, Corpus Christi, TX, Stephen Biles, Texas A&M Agrilife, Port Lavaca, TX, Darwin Anderson, Texas A&M AgriLife Research, Department of Entomology, Corpus Christi, TX and Isaac L Esquivel, Texas A&M University, College Station, TX

**11:30 AM Impact of Nitrogen Fertility on Cotton Response to Cotton Fleahopper-Induced Injury**

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

# Cotton Quality Measurements Conference

Thursday, January 5, 2017

## COTTON QUALITY MEASUREMENTS - THURSDAY LATE MORNING

**Bryan-Beeman B (Hyatt Regency Dallas) - 10:30 AM-12:00 PM**

### **10:30 AM Infrared Imaging of Cotton Fiber Bundles**

**Michael Santiago Cintron**<sup>1</sup>, Doug J Hinchliffe<sup>2</sup>, Joe Montalvo<sup>3</sup>, Terri Von Hoven<sup>3</sup>, James Rodgers<sup>3</sup>, Gregory N Thyssen<sup>2</sup>, Linghe Zeng<sup>4</sup> and Crista Madison<sup>2</sup>, (1)USDA, New Orleans, LA, (2)Cotton Chemistry and Utilization Research Unit, USDA ARS, New Orleans, LA, (3)USDA-ARS-SRRC, New Orleans, LA, (4)USDA-ARS, Stoneville, MS

### **10:45 AM Environmental Impacts on the Micronaire Results from Near Infrared (NIR) Instruments**

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

### **11:00 AM Direct, Non-Destructive, and Rapid Characterization of Immature Fiber (im) Mutant and Texas Marker-1 (TM-1) Cotton Plant Leaves By ATR-FTIR Spectroscopy**

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

### **11:15 AM Physical Properties of Cotton Fibers Measured with Cottonscope**

**Matthew Indest** and James Rodgers, USDA-ARS-SRRC, New Orleans, LA

### **11:30 AM The Effect of Varieties on Cotton Wax As It Relates to Cotton Quality Parameters**

**Chanel A Fortier**, USDA, New Orleans, LA and James Rodgers, USDA-ARS-SRRC, New Orleans, LA

### **11:45 AM Identification of Cotton Foreign Matter Using Line Scan Hyperspectral Transmittance Imaging**

**Mengyun Zhang** and Changying Li, The University of Georgia, Athens, GA

## COTTON QUALITY MEASUREMENTS - THURSDAY EARLY AFTERNOON

**Bryan-Beeman B (Hyatt Regency Dallas) - 1:30 PM-3:45 PM**

### **1:30 PM Image Analysis for the Detection of Barré**

**Christopher D. Delhom**, USDA-ARS Southern Regional Research Center, New Orleans, LA, Xin Li, Louisiana State University, Baton Rouge, LA and Vikki B. Martin, Cotton Incorporated, Cary, NC

### **1:45 PM Cotton Fiber Trait Variability Across Maturity Levels**

**Mourad Krifa**, The University of Texas at Austin, Austin, TX, Jane Dever, Texas A&M AgriLife Research, Lubbock, TX and Carlos J Fernandez, Texas A&M AgriLife Research, Corpus Christi, TX

### **2:00 PM A Novel Method for Measuring Cotton Seed Compression As an Indication of Propensity to Create Seed Coat Fragments**

**Zach Hinds**, Suman Lamichhane and Brendan Kelly, Texas Tech University, Lubbock, TX

### **2:15 PM The Impact of Trash Content on Cotton Fiber Quality Assessment**

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

### **2:30 PM The Development of Cotton Fiber Elongation Reference Material**

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

**2:45 PM How Current Ginning Processes Affect Fiber Length Uniformity Index**

**Carlos B. Armijo**, Derek P. Whitelock, Sidney E. Hughs and Marvis N. Gillum, USDA-ARS Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM

**3:00 PM Theoretical Analysis for Short Fiber Contents in Dual-Beard Cotton Samples**

**Bugao Xu**<sup>1</sup>, Jingye Jin<sup>2</sup> and Fumei Wang<sup>2</sup>, (1)University of North Texas, Denton, TX, (2)Donghua University, Shanghai, China

**3:15 PM Adhesive Strength of Pilot-Scale Washed Cottonseed Meal in Comparison with a Synthetic Adhesive for Non-Structural Application**

**Zhongqi He**, USDA-ARS, New Orleans, LA and Fabio Chiozza, Vinavil SpA-R&D, Villadossola, Italy

**3:30 PM Comparison of Cotton +b Values to Carbohydrate and Amino Acid Content**

**Donna V Peralta**, ARS-USDA, New Orleans, LA and James Rodgers, USDA-ARS-SRRC, New Orleans, LA

# Cotton Weed Science Research Conference

Thursday, January 5, 2017

## COTTON WEED SCIENCE RESEARCH - GRADUATE STUDENT SESSION

Pegasus B (Hyatt Regency Dallas) - 8:30 AM-10:45 AM

### 8:30 AM The Effect of Cotton Growth Stage on Susceptibility and Fruiting Patterns Following Exposure to a Sub-Lethal Rate of 2,4-D

**John T. Buol<sup>1</sup>**, Daniel B. Reynolds<sup>1</sup>, Robert L. Nichols<sup>2</sup> and J. Anthony Mills<sup>3</sup>, (1)Mississippi State University, Mississippi State, MS, (2)Cotton Incorporated, Cary, NC, (3)Monsanto Company, Collierville, TN

### 8:45 AM Control of Volunteer Cover Crops with Preemergence Herbicides in Cotton

**Michael E Fogleman<sup>1</sup>**, Jason K Norsworthy<sup>1</sup>, Tom Barber<sup>2</sup> and Mohammad T Bararpour<sup>1</sup>, (1)University of Arkansas, Fayetteville, AR, (2)University of Arkansas-Extension, Lonoke, AR

### 9:00 AM Crop Safety and Weed Control Following Dicamba and Acetochlor Applications in Xtendflex<sup>®</sup> Cotton

**Lucas Xavier Franca<sup>1</sup>**, Darrin M. Dodds<sup>1</sup>, J. Anthony Mills<sup>2</sup>, Daniel B. Reynolds<sup>1</sup>, Jason A. Bond<sup>3</sup>, Chase A. Samples<sup>1</sup>, Michael T. Plumblee<sup>1</sup> and Drew B. Denton<sup>4</sup>, (1)Mississippi State University, Mississippi State, MS, (2) Monsanto Company, Collierville, TN, (3)Mississippi State, Stoneville, MS, (4) Mississippi State University, Starkville, MS

### 9:15 AM Weed Management in Bollgard II XtendFlex<sup>™</sup> Cotton with Engenia<sup>™</sup> Herbicide on the Texas High Plains

**Austin Koonce**, Texas Agrilife Research, Lubbock, TX, Wayne Keeling, Texas A&M AgriLife Research, Lubbock, TX, Peter A. Dotray, Texas Tech University, Lubbock, TX and Adam Hixson, BASF, Lubbock, TX

### 9:30 AM Break

### 9:45 AM Efficacy of Post-Emergence Herbicides Depending on Size of Palmer Amaranth at Application

**Zachary D Lancaster**, Jason K Norsworthy, Chris J Meyer and Nicholas R Steppig, University of Arkansas, Fayetteville, AR

### 10:00 AM Preemergence Tolerance of Cotton Technologies to Auxin Herbicides

**James Rose<sup>1</sup>**, Tom Barber<sup>2</sup>, Jason K Norsworthy<sup>1</sup>, Michael Houston<sup>1</sup> and Hunter Bowman<sup>1</sup>, (1)University of Arkansas, Fayetteville, AR, (2)University of Arkansas-Extension, Lonoke, AR

### 10:15 AM Crop Injury in an XtendFlex<sup>®</sup> Cotton System

**Chase A. Samples<sup>1</sup>**, Darrin M. Dodds<sup>1</sup>, Angus Catchot<sup>1</sup>, Trent Irby<sup>1</sup>, Greg Kruger<sup>2</sup>, Daniel B. Reynolds<sup>1</sup>, John T. Fowler<sup>3</sup>, Savana Davis<sup>1</sup>, Lucas Xavier Franca<sup>1</sup>, Michael T. Plumblee<sup>1</sup> and Bradley R Wilson<sup>1</sup>, (1)Mississippi State University, Mississippi State, MS, (2)University of Nebraska, North Platte, NE, (3)Monsanto, St. Louis, MO

### 10:30 AM Evaluating Potential Antagonism of Tank-Mixed Herbicides for Use in Enlist<sup>™</sup> and Bollgard<sup>®</sup> II Xtendflex<sup>™</sup> Cotton Systems

**Nicholas R Steppig**, Chris J Meyer and Jason K Norsworthy, University of Arkansas, Fayetteville, AR

## COTTON WEED SCIENCE RESEARCH - THURSDAY LATE MORNING

Pegasus B (Hyatt Regency Dallas) - 10:45 AM-11:30 AM

### 10:45 AM Evaluating the Influence of Cover Crops on Cotton Growth, Weed Control and Yield in Georgia Cotton

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



**11:00 AM Chemical Stalk Destruction Solutions for Enlist Cotton**

**Michael Lovelace**, Dow AgroSciences, Lubbock, TX, John S Richburg, Dow AgroSciences, Headland, AL, Bo Braxton, Dow AgroSciences, Greenville, SC and Gaylon D. Morgan, Texas A&M AgriLife Extension Service, College Station, TX

**11:15 AM Targeted Application of Burndown Herbicide for Post-Emergent Control of Herbicide Resistant Weeds**

**Mac Keely**, Blue River Technology, Sunnyvale, CA, Tom Barber, University of Arkansas-Extension, Lonoke, AR and Jason Norsworthy, University of Arkansas, Fayetteville, AR

# TECHNICAL CONFERENCES POSTER BOARD SESSION

Thursday, January 5, 2017, 8:00 AM - 10:00 PM

Friday, January 6, 2017, 8:00 AM - 12:00 PM

## Cumberland I-L

POSTERS WILL BE ON DISPLAY IN REUNION E FOR THE FOLLOWING:

COTTON ECONOMICS AND MARKETING CONFERENCE

### General Interest Posters

- 1. Climate and Crops Ibook – a Resource to Help Southeast Farming Adapting to a Variable Climate**  
**Brenda V Ortiz**<sup>1</sup>, Austin Hagan<sup>1</sup>, Robert C Kemerait<sup>2</sup>, Kathy Flanders<sup>1</sup>, Scott Tubbs<sup>2</sup>, Dale Monks<sup>1</sup>, Walter Scott Monfort<sup>2</sup>, Mark Abney<sup>2</sup>, Ronald Smith<sup>1</sup>, William Birdsong<sup>3</sup>, Edward Sikora<sup>1</sup>, Dennis P. Delaney<sup>1</sup>, David Buntin<sup>4</sup>, Jerry Johnson<sup>4</sup>, Kris Balkcom<sup>1</sup> and Ayanava Majumdar<sup>3</sup>, (1) Auburn University, Auburn, AL, (2)University of Georgia, Tifton, GA, (3) Alabama Cooperative Extension System, Auburn, AL, (4)University of Georgia, Griffin, GA
- 2. On-Line Plant Breeding Graduate Degrees from Texas A&M University**  
**C. Wayne Smith**, David Baltensperger and LeAnn Hague, Texas A&M University, College Station, TX

### Cotton Agronomy, Physiology & Soil Conference Posters

- 3. 2016 Upper Gulf Coast of Texas Replicated Agronomic Cotton Evaluation (RACE) - Trial Summary**  
**Dale A Mott**<sup>1</sup>, John Gordy<sup>2</sup>, Brent Batchelor<sup>3</sup>, Corrie Bowen<sup>4</sup>, Mike Hiller<sup>5</sup>, Stephen Janak<sup>6</sup> and Gaylon Morgan<sup>1</sup>, (1)Texas A&M AgriLife Extension Service, College Station, TX, (2)Texas A&M AgriLife Extension Service, Rosenberg, TX, (3)Texas A&M AgriLife Extension Service, Bay City, TX, (4)Texas A&M AgriLife Extension Service, Wharton, TX, (5)Texas A&M AgriLife Extension Service, Edna, TX, (6) Texas A&M AgriLife Extension Service, Columbus, TX
- 4. Texas Rolling Plains on-Farm Cotton Evaluation Trials**  
**Jonathan Ramirez**<sup>1</sup>, Emi Kimura<sup>1</sup> and Gaylon Morgan<sup>2</sup>, (1)Texas A&M AgriLife Extension Service, Vernon, TX, (2)Texas A&M AgriLife Extension Service, College Station, TX
- 5. Cotton Premier Program - Varieties/Pre-Plant Considerations (3 year Results)**  
**Danny J Nusser**, Texas A&M AgriLife Extension Service, Amarillo, TX
- 6. Yield and Quality of Different Maturity Classes of Cotton When Planting Is Delayed**  
**Jason Woodward**<sup>1</sup>, Xiaoxiao Liu<sup>1</sup> and Richard Roper<sup>2</sup>, (1)Department of Plant and Soil Science, Texas Tech University, Lubbock, TX, (2)Texas Tech University, Lubbock, TX
- 7. Seedling Vigor Assessment of Commercially-Available Cotton Cultivars in Response to Planting Depth**  
**Tony L. Barnes**<sup>1</sup>, Calvin Meeks<sup>2</sup> and John L. Snider<sup>2</sup>, (1)University of Georgia Cooperative Extension, Pearson, GA, (2)University of Georgia, Tifton, GA

8. **Evaluation of Early Season Foliar Fungicide Applications for Improved Plant Health**  
**Dan D Fromme**<sup>1</sup>, Gaylon Morgan<sup>2</sup>, Hunter Frame<sup>3</sup>, Darrin M. Dodds<sup>4</sup>, Tyson Raper<sup>5</sup>, Keith Shannon<sup>1</sup> and Dale A Mott<sup>2</sup>, (1)LSU AgCenter, Alexandria, LA, (2)Texas A&M AgriLife Extension Service, College Station, TX, (3)Virginia Tech, Suffolk, VA, (4)Mississippi State University, Mississippi State, MS, (5)University of Tennessee, Jackson, TN
9. **Applied Management for Verticillium Wilt with on-Farm Cotton (*Gossypium hirsutum* L.) Variety Evaluations**  
**Trey Cutts**, Auburn University, Auburn, AL, Kathy S. Lawrence, Auburn University, AUBURN, AL, Tyson Raper, University of Tennessee, Jackson, TN, Tyler Sandlin, Auburn University, Madison, AL and Brad Meyer, Agri-AFC, Decatur, AL
10. **Effects of Late Planting and Shading on Sucrose Metabolism in Cotton Fiber**  
Wei Hu, **Yali Meng**, Wenqing Zhao, Youhua Wang and Zhiguo Zhou, Nanjing Agricultural University, Nanjing, China
11. **Testing New Approaches to Plant Mapping**  
**Glen Ritchie**<sup>1</sup>, Curtis Schaefer<sup>1</sup>, Nothabo Dube<sup>2</sup> and Hamed Sari-Sarraf<sup>1</sup>, (1)Texas Tech University, Lubbock, TX, (2)Texas Tech University PSS, Lubbock, TX
12. **Asparaginase over-Expressing Cotton (*Gossypium hirsutum* L.) Plants Show Reduced Protein Content in Embryos**  
**Shanmukh S. Salimath**<sup>1</sup>, Monica Schmidt<sup>2</sup>, Eliot M. Herman<sup>2</sup> and Kent D. Chapman<sup>1</sup>, (1)University of North Texas, Denton, TX, (2)University of Arizona, Tucson, AZ
13. **Protein Changes during Cotton Fiber Elongation in Response to Low Light**  
**Shanshan Wang**, Wei Hu, Binglin Chen, Youhua Wang and Zhiguo Zhou, Nanjing Agricultural University, Nanjing, China
14. **Integrated Management Strategies to Improve the Cottonseed, Oil and Protein Yields and Protein Properties**  
Hongkun Yang, Yali Meng, **Binglin Chen**, Xinyue Zhang, Youhua Wang, Wenqing Zhao and Zhiguo Zhou, Nanjing Agricultural University, Nanjing, China
15. **Physiological and Agronomic Response to N Fertility in Southern Georgia in a Long-Term Conservation Tillage System**  
**John L. Snider**, Glendon Harris, Phillip M. Roberts and Calvin Meeks, University of Georgia, Tifton, GA
16. **Potassium Deficiency Affects the Carbon-Nitrogen Balance in Cotton Leaves**  
Wei Hu and **Zhiguo Zhou**, Nanjing Agricultural University, Nanjing, China
17. **Potassium Rate Effects on Yield and Fiber Quality of Two New Cotton (*Gossypium hirsutum* L.) Varieties**  
**Christy D Hicks**<sup>1</sup>, Brandon Dillard<sup>2</sup>, Kimberly Wilkins<sup>3</sup>, William Birdsong<sup>2</sup>, Max Runge<sup>4</sup> and Glendon Harris<sup>5</sup>, (1)Alabama Cooperative Extension, Shorter, AL, (2)Alabama Cooperative Extension, Headland, AL, (3)Alabama Cooperative Extension, Fairhope, AL, (4)Alabama Cooperative Extension, Auburn, AL, (5)University of Georgia, Tifton, GA
18. **Evaluating Daily Yield Losses Due to Delayed Harvest after Defoliation**  
**Calvin Meeks**<sup>1</sup>, John L. Snider<sup>1</sup>, Wesley M. Porter<sup>1</sup>, Terry Griffin<sup>2</sup> and Tony L. Barnes<sup>3</sup>, (1)University of Georgia, Tifton, GA, (2)Kansas State University, Manhattan, KS, (3)University of Georgia Cooperative Extension, Pearson, GA
19. **Effect of Harvest Timing and Leaf Hairiness on Fiber Quality**  
**Seth A. Byrd**<sup>1</sup>, John Wanjura<sup>2</sup>, Gaylon Morgan<sup>3</sup> and Robert Wright<sup>1</sup>, (1) Texas A&M AgriLife Extension, Lubbock, TX, (2)USDA ARS, Lubbock, TX, (3)Texas A&M AgriLife Extension Service, College Station, TX

20. **Xtendflex, Liberty Link, and Widestrike/Roundup Flex Tolerance to Glufosinate and Metolachlor**  
**Dalton McCurley**, Tyson Raper and Shawn Butler, University of Tennessee, Jackson, TN
21. **Irrigation and Cultivar Effects in No-till, Cover Crop, and Conventional Tillage Systems in Arkansas Cotton**  
**Amanda M. Mann**, University of Arkansas Division of Agriculture, State University, AR, Michele L Reba, USDA-ARS, Jonesboro, AR and Tina Gray Teague, Ark State Univ / Univ Ark Exp Sta, State University, AR
22. **Early Season Nutrient Accumulation By Cotton Following a Crimson Clover Winter Cover Crop**  
**Philip J Bauer** and Thomas F Ducey, USDA-ARS, Florence, SC
23. **Use of the Fieldprint Calculator to Evaluate the Economic and Environmental Sustainability of Crop Rotation/Tillage Treatments at the Coastal Bend Region of Texas**  
**Andrea Maeda**, Juan Landivar, Jamie Foster and Kenneth Schaefer, Texas A&M AgriLife Research, Corpus Christi, TX
24. **Reduced Tillage for Cotton in Irrigated Desert Southwest**  
**John Idowu**<sup>1</sup>, Jinfa Zhang<sup>1</sup>, Murali Darapuneni<sup>2</sup> and Mohammed Omer<sup>1</sup>, (1)New Mexico State University, Las Cruces, NM, (2)New Mexico State University, Tucumcari, NM
25. **Evaluation of Salinity Management Products and Practices in West Texas Irrigated Cotton – 2016 Results**  
**David R Drake**, Texas A&M AgriLife Extension Service, San Angelo, TX
26. **Cotton Growth, Lint Yield, and Lint Quality As Influenced By Seeding Rates Under Dryland and Irrigation in the Rolling Plains of Texas**  
**Emi Kimura** and Jonathan Ramirez, Texas A&M AgriLife Extension Service, Vernon, TX
27. **Water Use, Canopy Temperature, Lint Yield, and Fiber Quality Response of Six Upland Cotton Cultivars to Water Stress**  
**Robert Schwartz**<sup>1</sup>, Travis Witt<sup>2</sup>, Mauricio Ulloa<sup>3</sup>, Glen Ritchie<sup>2</sup>, Dick Auld<sup>2</sup>, R. Louis Baumhardt<sup>4</sup>, Paul Colaizzi<sup>4</sup>, Mathew G Pelletier<sup>5</sup> and John Burke<sup>3</sup>, (1)USDA-ARS, Conservation and Production Research Laboratory, Bushland, TX, (2)Texas Tech University, Lubbock, TX, (3) USDA-ARS, Lubbock, TX, (4)USDA-ARS, Bushland, TX, (5)USDA-ARS Cotton Production and Processing Research Unit, Lubbock, TX
28. **Determination of Soil Properties Important to Cotton Irrigation Management for Simple Variable Rate Irrigation**  
**Tim Grant**<sup>1</sup>, Brian Leib<sup>1</sup> and Amir Haghverdi<sup>2</sup>, (1)University of Tennessee, Knoxville, TN, (2)University of California, Riverside, Riverside, CA
29. **Soil Water Balances for Irrigating Cotton Using a Phone App**  
**Gene Stevens**, Matthew D. Rhine and Joshua Nelson, University of Missouri, Portageville, MO
30. **Evaluation of Potassium Placement, Potassium Rate and Nitrogen Placement to Prevent Potassium Deficiencies**  
**Freeman Brown**, Tyson Raper, Xinhua (Frank) Yin, Shawn Butler and Dalton McCurley, University of Tennessee, Jackson, TN
31. **Evaluation of Production and Profitability of Transgenic and Conventional Cotton in Dryland Production Systems on the Texas High Plains**  
**Bronc A. Finch**<sup>1</sup>, Jourdan M. Bell<sup>2</sup>, Brock Blaser<sup>1</sup> and Edsel Bynum<sup>2</sup>, (1)West Texas A&M University, Canyon, TX, (2)Texas A&M AgriLife, Amarillo, TX
32. **Cotton and Corn Yield Response to Increasing Nitrogen Rates in Varying Soil EC Zones**  
**Brady P Arthur**, Ronnie Schnell, Gaylon Morgan, Dale A Mott, Dennis Coker and Jake Mowrer, Texas A&M AgriLife Extension Service, College Station, TX

33. **Effects of Conservation Management Practices on Cotton Yield and Soil Quality**  
**C.D. Ray White**, Texas A&M Agrilife Research, Lubbock, TX, Joseph Burke, Texas Tech University, Lubbock, TX, Wayne Keeling, Texas A&M AgriLife Research, Lubbock, TX, Katie L Lewis, Texas A&M AgriLife Research and Extension Center, Lubbock, TX and Paul DeLaune, Texas A&M AgriLife Research, Vernon, TX
34. **Using Unmanned Aerial Systems to Track Growth and Predict Yield in Cotton**  
**Miles Mikeska**, Nithya Rajan, Sanaz Shafian, John Valasek, Dale Cope and Jeff Olsenholler, Texas A&M University, College Station, TX
35. **Effect of Potassium Rate on Cotton Under Irrigated and Dryland Conditions**  
**Savana Davis**<sup>1</sup>, Darrin M. Dodds<sup>1</sup>, Drew B. Denton<sup>2</sup>, Chase A. Samples<sup>1</sup>, Bradley R Wilson<sup>1</sup>, Michael T. Plumblee<sup>1</sup> and Lucas Xavier Franca<sup>1</sup>, (1) Mississippi State University, Mississippi State, MS, (2)Mississippi State University, Starkville, MS
36. **Quantifying Cotton Cultivar Response to Early Season Water Deficit**  
**Calvin Meeks**<sup>1</sup>, John L. Snider<sup>1</sup>, Tony L. Barnes<sup>2</sup> and Megan E. Babb-Hartman<sup>3</sup>, (1)University of Georgia, Tifton, GA, (2)University of Georgia Cooperative Extension, Pearson, GA, (3)University of Georgia, Griffin, GA
37. **Effect of Droplet Size on Insecticide Efficacy of Thrips**  
**Chase A. Samples**<sup>1</sup>, Darrin M. Dodds<sup>1</sup>, Angus Catchot<sup>1</sup>, Trent Irby<sup>1</sup>, Greg Kruger<sup>2</sup>, Daniel B. Reynolds<sup>1</sup>, John T. Fowler<sup>3</sup>, Savana Davis<sup>1</sup>, Lucas Xavier Franca<sup>1</sup>, Michael T. Plumblee<sup>1</sup> and Bradley R Wilson<sup>1</sup>, (1) Mississippi State University, Mississippi State, MS, (2)University of Nebraska, North Platte, NE, (3)Monsanto, St. Louis, MO
38. **Modeling Cotton Evapotranspiration in the Texas High Plains Using DSSAT**  
**Dorothy Menefee**<sup>1</sup>, Sumit Sharma<sup>2</sup> and Nithya Rajan<sup>1</sup>, (1)Texas A&M University, College Station, TX, (2)Texas A&M Univeristy, College Station, TX
39. **Relationship Between Seed Coat Fragments Count and Fiber Attachment Force in Cottonseeds**  
**Joao Paulo Saraiva Morais**<sup>1</sup>, Renildo L Mion<sup>2</sup>, Brendan Kelly<sup>1</sup> and Eric F Hequet<sup>1</sup>, (1)Texas Tech University, Lubbock, TX, (2)Federal University of Mato Grosso, Rondonopolis, Brazil
40. **On Farm Variety Evaluations in Mississippi**  
**Lucas Xavier Franca**<sup>1</sup>, Darrin M. Dodds<sup>1</sup>, Chase A. Samples<sup>1</sup>, Michael T. Plumblee<sup>1</sup>, Drew B. Denton<sup>2</sup>, Savana Davis<sup>1</sup> and Bradley R Wilson<sup>1</sup>, (1) Mississippi State University, Mississippi State, MS, (2)Mississippi State University, Starkville, MS
41. **Damage Simulation in Early- and Late-Maturing Cotton Varieties in the Mid-South**  
**Michael T. Plumblee**<sup>1</sup>, Darrin M. Dodds<sup>1</sup>, Tyson Raper<sup>2</sup>, Andrea S. Jones<sup>3</sup> and Dan D Fromme<sup>4</sup>, (1)Mississippi State University, Mississippi State, MS, (2)University of Tennessee, Jackson, TN, (3)University of Missouri, Portageville, MO, (4)LSU AgCenter, Alexandria, LA

## Cotton Disease Council Posters

42. **Cotton Disease Loss Estimate Committee Report, 2016**  
**Kathy Lawrence**<sup>1</sup>, Austin Hagan<sup>1</sup>, Mary Olsen<sup>2</sup>, Travis R. Faske<sup>3</sup>, Robert Hutmacker<sup>4</sup>, John Muller<sup>5</sup>, David L. Wright<sup>6</sup>, Robert C Kemerait<sup>7</sup>, Charles Overstreet<sup>8</sup>, Paul Price<sup>9</sup>, Gary W Lawrence<sup>10</sup>, Tom W Allen<sup>11</sup>, Sam Atwell<sup>12</sup>, Natalie Goldberg<sup>13</sup>, Keith Edmisten<sup>14</sup>, Randy Boman<sup>15</sup>, Heather Young<sup>16</sup>, Jason Woodward<sup>17</sup> and Hillary Mehl<sup>18</sup>, (1)Auburn University, Auburn, AL, (2)University of Arizona, Tucson, AZ, (3)Univ of Arkansas Division of Agriculture, Lonoke, AR, (4)University of California at Davis, Five Points, CA, (5)Clemson University, Blackville,, SC, (6)University of Florida, Quincy, FL, (7)University of Georgia, Tifton, GA, (8)LSU AgCenter, Baton Rouge, LA, (9)Louisiana State University, Winnsboro, LA, (10)Mississippi State University, Starkville, MS, (11)Mississippi State University, Delta Research and Extension Center, Stoneville, MS, (12)University of Missouri, New Madrid, MO, (13)New Mexico State University, Las Cruces, NM, (14)North Carolina State University, Raleigh, NC, (15)Oklahoma State University, Altus, OK, (16)University of Tennessee, Jackson, TN, (17) Department of Plant and Soil Science, Texas Tech University, Lubbock, TX, (18)Virginia Tech, Suffolk, VA
43. **Report of the Cottonseed Treatment Committee for 2016**  
**Craig Rothrock**<sup>1</sup>, Scott Winters<sup>1</sup>, Tom W Allen<sup>2</sup>, J. D. Barham<sup>3</sup>, Fred M Bourland<sup>4</sup>, M. B. Bayles<sup>5</sup>, P. D. Colyer<sup>6</sup>, Heather M Kelly<sup>7</sup>, Robert C Kemerait<sup>8</sup>, Gary W Lawrence<sup>9</sup>, Kathy Lawrence<sup>10</sup>, Hillary L Mehl<sup>11</sup>, Paul Price<sup>12</sup> and Jason Woodward<sup>13</sup>, (1)University of Arkansas, Fayetteville, AR, (2)Mississippi State University, Delta Research and Extension Center, Stoneville, MS, (3)University of Arkansas Division of Agriculture, Hope, AR, (4)University of Arkansas-NEREC, Keiser, AR, (5)Oklahoma State University, Stillwater, OK, (6)LSU AgCenter, Bossier City, LA, (7)University of Tennessee, Jackson, TN, (8)University of Georgia, Tifton, GA, (9)Mississippi State University, Starkville, MS, (10)Auburn University, Auburn, AL, (11)Virginia Tech, Suffolk, VA, (12) Louisiana State University, Winnsboro, LA, (13)Department of Plant and Soil Science, Texas Tech University, Lubbock, TX
44. **Cotton Premier Program - Disease and Nematodes (3 year Results)**  
**Danny J Nusser**, Texas A&M AgriLife Extension Service, Amarillo, TX
45. **Characterization of Fusarium Oxysporum Genotypes Causing Wilt in Georgia Cotton**  
A. A. Bell<sup>1</sup>, Robert C Kemerait<sup>2</sup>, C. S. Ortiz<sup>3</sup>, Sandria Prom<sup>3</sup>, J. Quintana<sup>1</sup>, Robert L. Nichols<sup>4</sup> and **Jinggao Liu**<sup>1</sup>, (1)USDA-ARS, College Station, TX, (2)University of Georgia, Tifton, GA, (3)Texas A&M University, College Station, TX, (4)Cotton Incorporated, Cary, NC
46. **Characterization of Phosphate Permease in Fusarium Oxysporum F. SP. Vasinfectum: Growth, Virulence and Secondary Metabolism**  
**Carlos S. Ortiz**<sup>1</sup>, Clint W Magill<sup>1</sup>, A. A. Bell<sup>2</sup> and Jinggao Liu<sup>2</sup>, (1)Texas A&M University, College Station, TX, (2)USDA-ARS, College Station, TX
47. **Impacts of Race 4 Fusarium on Plant Damage, Survival As a Function of Cultivar Relative Tolerance**  
**Robert B Hutmacher**, University of California, Five Points, CA and Steven D. Wright, University of California Cooperative Extension, Tulare, CA
48. **Cotton and Pest Response to in-Furrow Nematicide-Insecticide Combinations Applied at-Planting Across Different Soil Textures in a Spatially Variable Field**  
**Tina Gray Teague**, Ark State Univ / Univ Ark Exp Sta, State University, AR, Amanda M. Mann, University of Arkansas Division of Agriculture, State University, AR, Brittany Deanna Barnes, College of Agriculture & Technology Arkansas State University, Jonesboro, AR and Travis R. Faske, Univ of Arkansas Division of Agriculture, Lonoke, AR
49. **Survey of Plant Parasitic Nematodes Associated with Virginia Cotton Production**  
**Saleh Ahmed**, Virginia Tech Tidewater AREC, Suffolk, VA and Hillary L Mehl, Virginia Tech, Suffolk, VA

50. **Overview of Root-Knot Nematode Management Options in West Texas Cotton**  
**Jason Woodward**, Department of Plant and Soil Science, Texas Tech University, Lubbock, TX, Richard Roper, Texas Tech University, Lubbock, TX and Terry Wheeler, Texas A&M AgriLife Research, Lubbock, TX
51. **Integrated Management of Southern Root-Knot Nematode with Resistant Cotton Varieties and Nematicides in Appling County, Georgia**  
**David Shane Curry**, University of Georgia, Baxley, GA and Robert C Kemerait, University of Georgia, Tifton, GA
52. **Management of Reniform Nematodes Using New and Old Technologies**  
**Joel Webb**, Texas A&M AgriLife Extension, Ballinger, TX and Jason Woodward, Department of Plant and Soil Science, Texas Tech University, Lubbock, TX
53. **Managing the Yield Losses Associated with the Reniform Nematode in Mississippi Cotton**  
**Tessie H Wilkerson**, Stephen Kakaire and Thomas W Allen, Mississippi State University, Stoneville, MS
54. **Reniform Nematode Reproduction on Soybean Cultivars and Breeding Lines in 2016**  
**Robert T. Robbins**<sup>1</sup>, Prakash Arelli<sup>2</sup>, Pengyin Chen<sup>3</sup>, Grover Shannon<sup>4</sup>, Stella Kantartzi<sup>5</sup>, Benjamin D. Fallen<sup>6</sup>, Zenglu Li<sup>7</sup>, Travis R. Faske<sup>8</sup>, Jeff Velie<sup>3</sup>, Edward Gbur<sup>3</sup>, Donald Dombek<sup>3</sup> and Devany L. Crippen<sup>3</sup>, (1)U of Arkansas, Fayetteville, AR, (2)USDA, Jackson, TN 38301, TN, (3)Univ of Arkansas, Fayetteville, AR, (4)Univ of Missouri, Portageville, MO, (5) Southern Illinois University, Carbondale, IL, (6)Clemson, Florence, SC, (7)University of Georgia, Athens, GA, (8)Univ of Arkansas Division of Agriculture, Lonoke, AR
55. **Evaluation of Soybean Varieties with Avicta for Control of Rotylenchulus Reniformis**  
**Daniel Dodge**, Kathy S. Lawrence, Edward Sikora and Dennis P. Delaney, Auburn University, Auburn, AL
56. **Field Studies of Plant-Growth Promoting Rhizobacteria for Biological Control of Rotylenchulus Reniformis**  
Ni Xiang, **Mary S Foshee**, Kathy Lawrence, Joseph W Kloepper and John A McInroy, Auburn University, Auburn, AL

## **Cotton Engineering-Systems Conference Posters**

57. **Comparison of Multi-Sensor Capacitance and TDR Soil Moisture Methods in Deficit Irrigated Cotton**  
**Scott Jordan**, Texas A&M AgriLife Research and Extension Service, Lubbock, TX
58. **Tillage and N Management Practices Impact Water Quality of Runoff Water in Irrigated Cotton Systems**  
**Nathan R Williams**<sup>1</sup>, Brittany Deanna Barnes<sup>1</sup>, M. Arlene Adviento-Borbe<sup>2</sup>, Michele L Reba<sup>2</sup> and Tina Gray Teague<sup>3</sup>, (1)College of Agriculture & Technology Arkansas State University, Jonesboro, AR, (2) USDA-ARS, Jonesboro, AR, (3)Ark State Univ / Univ Ark Exp Sta, State University, AR

## **Cotton Improvement Conference Posters**

59. **Dryland and Irrigated Commercial Variety Testing in Central and South Texas in 2016**  
**Dawn Deno**, Texas A&M University, College Station, TX

60. **Genome-Wide Analysis of Pentatricopeptide Repeat Proteins (PPR) in *Gossypium* Species**  
**Zongfu Han**<sup>1</sup>, Jinfa Zhang<sup>2</sup>, Abdelraheem Abdelraheem<sup>2</sup>, Jie Chen<sup>3</sup>, Sujun Zhang<sup>4</sup>, Triston Hooks<sup>2</sup> and Gasper Martinez<sup>2</sup>, (1)Cotton Research Centre, Shandong Academy of Agricultural Sciences, Jinan, China, (2)New Mexico State University, Las Cruces, NM, (3)Huazhong Agricultural University, Wuhan, China, (4)Institute of Cotton, Hebei Academy of Agriculture and Forestry Sciences, Shijiazhuang, China
61. **Evaluation of Cotton for Resistance to Southwestern Cotton Rust (*Puccinia cacabata*)**  
**Jinfa Zhang**<sup>1</sup>, Soum Sanogo<sup>1</sup>, Tom Wedegaertner<sup>2</sup> and Don Jones<sup>2</sup>, (1) New Mexico State University, Las Cruces, NM, (2)Cotton Incorporated, Cary, NC
62. **Evaluation of Cotton Cultivars and Breeding Lines for Resistance to Bacterial Blight**  
**Hanan Elassbli**<sup>1</sup>, Abdelraheem Abdelraheem<sup>2</sup>, Soum Sanogo<sup>2</sup>, Terry A Wheeler<sup>3</sup>, Vasu Kuraparthi<sup>4</sup> and Jinfa Zhang<sup>2</sup>, (1)New Mexico State University, Las Cruces, NM, (2)New Mexico State University, Las Cruces, NM, (3)Texas A&M AgriLife Research, Lubbock, TX, (4)North Carolina State University, Raleigh, NC
63. **Phylogenetic Analysis and SNP Identification of NAC Gene Family in Cotton**  
**Jie Chen**, Huazhong Agricultural University, Wuhan, China and Jinfa Zhang, New Mexico State University, Las Cruces, NM
64. **A Comparative Phylogenetic Analysis and SNP Identification of Cellulose Synthase Gene Family in Cotton**  
**Sujun Zhang**, Institute of Cotton, Hebei Academy of Agriculture and Forestry Sciences, Shijiazhuang, China, Jie Chen, Huazhong Agricultural University, Wuhan, China, Zongfu Han, Cotton Research Centre, Shandong Academy of Agricultural Sciences, Jinan, China and Jinfa Zhang, New Mexico State University, Las Cruces, NM
65. **Seed Size, Ginning Rate, and Net Ginning Energy Requirement in Upland Cotton**  
**Efrem Bechere** and Robert G. Hardin, USDA-ARS, Stoneville, MS
66. **Exploring Pima and Upland Cross-Combinations to Identify *Fusarium Oxysporum* f. Sp. *Vasinfestum* Race 4 Resistant Cottons By Combining Ability of Superior Cultivars**  
**TariLee Frigulti**<sup>1</sup>, Mauricio Ulloa<sup>2</sup>, Robert B Hutmacher<sup>3</sup>, Mark Keeley<sup>3</sup>, Steven D. Wright<sup>1</sup> and Philip A. Roberts<sup>4</sup>, (1)University of California Cooperative Extension, Tulare, CA, (2)USDA-ARS, Lubbock, TX, (3)University of California Cooperative Extension, Shafter, CA, (4) University of California, Riverside, CA
67. **The Impact of Fiber Maturity on the Estimation of Fiber Density**  
**Addisu G Ayele**, Eric F Hequet and Brendan Kelly, Texas Tech University, Lubbock, TX
68. **Reduction of Spatial Variation in NDVI Measured at First Bloom in Cotton through Experimental Design and *a posteriori* Statistical Procedures**  
**Kari L. Hugie**, Phil J. Bauer, B. Todd Campbell and Kenneth C Stone, USDA-ARS, Florence, SC
69. **Characterizing Cottons Collected in Burkina Faso for Potential to Enhance Fiber Quality in C4 Cultivated Varieties**  
**Larbouga Bourgo**<sup>1</sup>, Sanfo Denys<sup>1</sup>, Jane Dever<sup>2</sup> and Carol Mason Kelly<sup>2</sup>, (1)INERA, Bobo Dioulasso, Burkina Faso, (2)Texas A&M AgriLife Research, Lubbock, TX
70. **Cotton Seed Oil Development in *Gossypium hirsutum***  
**Neha Kothari**<sup>1</sup>, Drew Sturtevant<sup>2</sup>, Jane Dever<sup>3</sup>, Kent Chapman<sup>2</sup>, Richard Percy<sup>4</sup> and Lori Hinze<sup>4</sup>, (1)Texas A&M AgriLife Research, College Station, TX, (2)University of North Texas, Denton, TX, (3)Texas A&M AgriLife Research, Lubbock, TX, (4)USDA-ARS, College Station, TX



## Cotton Insect Research and Control Conference Posters

71. **Management of Thrips in Southeastern Arkansas Using Seed Treatments and in-Furrow Insecticides**  
**Brett W Stewart** and Nick Seiter, University of Arkansas System Division of Agriculture, Monticello, AR
72. **Influence of (+)- to (-)- Gossypol Ratio on *Helicoverpa zea* Larval Development**  
**Jose L Perez**, Lorraine Puckhaber, Charles P.-C. Suh and Derrick L Hall, USDA-ARS, College Station, TX
73. **Predation of Sentinel Eggs in Cotton and Sorghum in New Mexico**  
**Jane Pierce**, Patricia Monk and John Idowu, New Mexico State University, Las Cruces, NM
74. **Timing of Short-Day Exposure Influences Diapause Response of Western Tarnished Plant Bug**  
**Dale W. Spurgeon**, USDA, ARS, Maricopa, AZ
75. **Aerial Identification of Individual Cotton Plants**  
**John K. Westbrook**, Ritchie S. Eyster, Chenghai Yang and Charles P.-C. Suh, USDA-ARS, College Station, TX
76. **Using Resistant Insects to Efficiently Screen for Novel Modes of Action for Insecticidal Toxins**  
**Tom Walsh**<sup>1</sup>, Craig Anderson<sup>2</sup>, William James<sup>1</sup>, Lars Jermiin<sup>1</sup> and Sharon Downes<sup>3</sup>, (1)CSIRO, Acton, Canberra, Australia, (2)University of Stirling, Stirling, United Kingdom, (3)CSIRO, Narrabri, Australia
77. **Field Evaluation of Potential Pheromone Lures for *Lygus lineolaris* (Hemiptera: Miridae) in the Mid-South**  
**Katherine A Parys**, USDA-ARS SIMRU, Stoneville, MS and David Hall, Natural Resources Institute, University of Greenwich, Kent, United Kingdom
78. **On Farm Evaluation of Planting Dates and Tillage Practice on Thrips Management Programs in Georgia Cotton**  
**Brock A. Ward**<sup>1</sup>, Tony L. Barnes<sup>2</sup>, Paul Pugliese<sup>3</sup>, Holly Anderson<sup>4</sup>, Raynor D. Churchwell<sup>5</sup>, William G. Tyson<sup>6</sup>, Peyton Sapp<sup>7</sup>, Chris Earls<sup>8</sup>, Jeremy M. Kichler<sup>9</sup>, Jenna K. Brock<sup>9</sup>, Brian L. Cresswell<sup>10</sup>, Brian W. Hayes<sup>11</sup>, Phillip Edwards<sup>12</sup>, Jason Mallard<sup>13</sup>, Andy M. Shirley<sup>14</sup>, Jennifer T. Miller<sup>15</sup>, Lucy Ray<sup>16</sup>, Ricky Ensley<sup>17</sup>, Mark Freeman<sup>18</sup>, Andrew G. Sawyer<sup>19</sup>, Joe Slusher<sup>20</sup>, Brooke H. Jefferies<sup>21</sup> and Phillip M. Roberts<sup>22</sup>, (1)University of Georgia Cooperative Extension, Colquitt, GA, (2) University of Georgia Cooperative Extension, Pearson, GA, (3) University of Georgia Cooperative Extension, Cartersville, GA, (4) University of Georgia Cooperative Extension, Fitzgerald, GA, (5) University of Georgia Cooperative Extension, Cochran, GA, (6) University of Georgia Cooperative Extension, Statesboro, GA, (7) University of Georgia Cooperative Extension, Waynesboro, GA, (8)University of Georgia Cooperative Extension, Metter, GA, (9) University of Georgia Cooperative Extension, Moultrie, GA, (10) University of Georgia Cooperative Extension, Blakely, GA, (11) University of Georgia Cooperative Extension, Cairo, GA, (12)University of Georgia Cooperative Extension, Ocilla, GA, (13)University of Georgia Cooperative Extension, Millen, GA, (14)University of Georgia Cooperative Extension, Camilla, GA, (15)University of Georgia Cooperative Extension, Hazlehurst, GA, (16)University of Georgia Cooperative Extension, Madison, GA, (17)University of Georgia Cooperative Extension, Cedartown, GA, (18)UGA Cooperative Extension Service - Pulaski County, Hawkinsville, GA, (19)University of Georgia Cooperative Extension, Thomasville, GA, (20)University of Georgia Cooperative Extension, Waycross, GA, (21)University of Georgia Cooperative Extension, Alamo, GA, (22)University of Georgia, Tifton, GA

79. **Supplemental Control of Bollworm in Bt Cotton with Microbial and Chemical Insecticides**  
**Nathan S Little**, Randall G. Luttrell, Kerry C Allen, Omaththage P Perera and Katherine A Parys, USDA-ARS SIMRU, Stoneville, MS
80. **Pathogenicity of *Beauveria Bassianna* Strain N18 on *Lygus Lineolaris* (Hemiptera Miridae) and Its Impact on Beneficial Arthropods**  
**Maribel Portilla**<sup>1</sup>, Randall G. Luttrell<sup>2</sup>, Gordon Snodgrass<sup>2</sup>, Eric Portilla<sup>1</sup> and Yu Chen Portilla<sup>1</sup>, (1)USDA, Stoneville, MS, (2)USDA-ARS SIMRU, Stoneville, MS
81. **Vial and Diet Bioassays to Determine Resistance Levels in Tarnished Plant Bug Populations to Common Insecticides Used in the Mississippi Delta**  
**Maribel Portilla**<sup>1</sup>, Bryce D Blackman<sup>2</sup> and Randall G. Luttrell<sup>2</sup>, (1) USDA, Stoneville, MS, (2)USDA-ARS SIMRU, Stoneville, MS
82. **Increased *Helicoverpa Zea* (Boddie) Larval Feeding on a RNAi Construct CYP82D109 That Blocks Gossypol-Related Terpenoid Synthesis in Cotton Plants**  
**Tanya A Wagner**, Charles P.-C. Suh, Jingga Liu and Lorraine Puckhaber, USDA-ARS, College Station, TX
83. ***Euschistus Quadrator*: A Stink Bug Pest of Cotton and Soybean Recently Identified in Mississippi**  
**Bryce D Blackman**<sup>1</sup>, Kerry C Allen<sup>1</sup>, Walker Jones<sup>2</sup>, Nathan S Little<sup>1</sup>, Michael Grodowitz<sup>2</sup> and Randall G. Luttrell<sup>1</sup>, (1)USDA-ARS SIMRU, Stoneville, MS, (2)USDA-ARS NBCL, Stoneville, MS
84. **Examining Nozzle Effects on Insect Control in Tennessee Cotton**  
**Sandy Steckel**<sup>1</sup>, Scott D. Stewart<sup>1</sup>, Matthew Williams<sup>2</sup>, Larry Steckel<sup>2</sup>, Julie Reeves<sup>2</sup> and Garret Montgomery<sup>2</sup>, (1)The University of Tennessee, Jackson, TN, (2)University of Tennessee, Jackson, TN
85. **Expression Profiles of Detoxification Genes in *Helicoverpa Zea Omaththage P Perera***<sup>1</sup>, Nathan S Little<sup>2</sup>, Kerry C Allen<sup>2</sup>, Calvin A Pierce<sup>1</sup> and Randall G. Luttrell<sup>2</sup>, (1)USDA-ARS, Stoneville, MS, (2)USDA-ARS SIMRU, Stoneville, MS
86. **Effect of the Seed Treatment with the Insecticide Chlorantraniliprole on the Control of Bollworm, *Helicoverpa Armigera*, in Cotton**  
**Geraldo Papa**, João Antonio Zanardi Junior, Vitor Martins, Felipe capobianco felix Mendonça, Joao pedro Scrociato, Pedro Henrique L. F. Ehrenberg and Daniel franchin Pelegrini, Unesp - Ilha Solteira/SP, Ilha Solteira/SP/Brazil, Brazil
87. **Two-Spotted Spider Mites: An Impact Assessment of Tssm on GA Cotton**  
**Kane M Staines**<sup>1</sup>, Phillip M. Roberts<sup>2</sup> and Mike Toews<sup>2</sup>, (1)University Of Georgia, Tifton, GA, (2)University of Georgia, Tifton, GA
88. **Susceptibilities of Bollworm and Tobacco Budworm to Commonly Used Insecticides**  
**Kerry C Allen**, Nathan S Little and Randall G. Luttrell, USDA-ARS SIMRU, Stoneville, MS
89. ***Helicoverpa Zea* and *Helicoverpa Armigera* Pheromone Lures: Male Moth Response to 'Texas Traps' and 'Green Bucket Traps'**  
**Stanley C. Carroll**<sup>1</sup>, Megha N. Parajulee<sup>1</sup> and Tahammal Hussain<sup>2</sup>, (1) Texas A&M AgriLife Research, Department of Entomology, Lubbock, TX, (2)University of Agriculture, Faisalabad, Pakistan
90. **Alternatives to Neonicotinoids for Control of Thrips in Cotton**  
**Michael Chaney**<sup>1</sup>, Gus Lorenz<sup>2</sup>, Nichole Taillon<sup>1</sup>, Andrew Plummer<sup>1</sup>, Joseph Black<sup>1</sup> and Aaron Cato<sup>3</sup>, (1)University of Arkansas CES, Lonoke, AR, (2)The University of Arkansas, Lonoke, AR, (3)University of Arkansas, Fayetteville, AR

91. **Comparison of Control of Heliothines in Conventional and Dual Gene Cotton**  
**Nichole Taillon**<sup>1</sup>, Gus Lorenz<sup>2</sup>, Andrew Plummer<sup>1</sup>, Michael Chaney<sup>1</sup>, Joseph Black<sup>1</sup> and Aaron Cato<sup>3</sup>, (1)University of Arkansas CES, Lonoke, AR, (2)The University of Arkansas, Lonoke, AR, (3)University of Arkansas, Fayetteville, AR

92. **Control of Tarnished Plant Bug with Selected Insecticides in Cotton**  
**Andrew Plummer**<sup>1</sup>, Gus Lorenz<sup>2</sup>, Nichole Taillon<sup>1</sup>, Michael Chaney<sup>1</sup>, Joseph Black<sup>1</sup> and Aaron Cato<sup>3</sup>, (1)University of Arkansas CES, Lonoke, AR, (2)The University of Arkansas, Lonoke, AR, (3)University of Arkansas, Fayetteville, AR

## **Cotton Quality Measurements Conference Posters**

93. **Estimation of Current Cottonseed-Fiber Ratios, Seed Indices, and Seed Tissue and Compositional Properties**  
**Michael K Dowd**<sup>1</sup>, Scott M Pelitire<sup>1</sup> and Christopher D. Delhom<sup>2</sup>, (1)USDA-ARS, New Orleans, LA, (2)USDA-ARS Southern Regional Research Center, New Orleans, LA

## **Cotton Weed Science Research Conference Posters**

94. **Beyond Current Year Yield Loss: Importance of Late-Season Palmer Amaranth Seedbank Management in Cotton**  
**Muthukumar V Bagavathiannan**<sup>1</sup>, Kaisa Werner<sup>1</sup>, Peter A. Dotray<sup>2</sup>, Jason K Norsworthy<sup>3</sup> and Robert L. Nichols<sup>4</sup>, (1)Texas A&M, College Station, TX, (2)Texas Tech University, Lubbock, TX, (3)University of Arkansas, Fayetteville, AR, (4)Cotton Incorporated, Cary, NC

95. **The Effect of Cotton Growth Stage on Susceptibility and Fruiting Patterns Following Exposure to a Sub-Lethal Rate of Dicamba**  
**John T. Buol**<sup>1</sup>, Daniel B. Reynolds<sup>1</sup>, Robert L. Nichols<sup>2</sup> and J. Anthony Mills<sup>3</sup>, (1)Mississippi State University, Mississippi State, MS, (2)Cotton Incorporated, Cary, NC, (3)Monsanto Company, Collierville, TN

96. **Effectiveness of Herbicides for Terminating Cover Crops Prior to Planting Cotton**  
**Michael E Fogleman**<sup>1</sup>, Jason K Norsworthy<sup>1</sup>, Matheus G Palhano<sup>1</sup> and Tom Barber<sup>2</sup>, (1)University of Arkansas, Fayetteville, AR, (2)University of Arkansas-Extension, Lonoke, AR

97. **Effect of Liberty Rate and Application Structure on Weed Control in Cotton**  
**Zachary D Lancaster**, Jason K Norsworthy, Nicholas R Steppig and Chris J Meyer, University of Arkansas, Fayetteville, AR

98. **Postemergence Tolerance of Cotton Technologies to Auxin Herbicides**  
**James Rose**<sup>1</sup>, Tom Barber<sup>2</sup>, Jason K Norsworthy<sup>1</sup>, Hunter Bowman<sup>1</sup> and Michael Houston<sup>1</sup>, (1)University of Arkansas, Fayetteville, AR, (2) University of Arkansas-Extension, Lonoke, AR

99. **Effectiveness of Enlist™ Weed Control Programs in Cotton**  
**Nicholas R Steppig**, Jason K Norsworthy and Chris J Meyer, University of Arkansas, Fayetteville, AR

100. **Liberty Plus Auxin Herbicides in Tank Mix Combinations**  
**Seth Taylor**<sup>1</sup>, Peter A. Dotray<sup>1</sup>, Wayne Keeling<sup>2</sup> and Russ Perkins<sup>3</sup>, (1) Texas Tech University, Lubbock, TX, (2)Texas A&M AgriLife Research, Lubbock, TX, (3)Bayer CropScience, Idalou, TX

101. **Weed Management in Oklahoma Cotton**  
**Todd A Baughman**<sup>1</sup>, Robert W Peterson<sup>1</sup>, Randy Boman<sup>2</sup>, Dylon L Teeter<sup>1</sup>, Casey D Curtsinger<sup>1</sup> and Jerry R. Goodson<sup>2</sup>, (1)Oklahoma State University, Ardmore, OK, (2)Oklahoma State University, Altus, OK

102. **Cotton Premier Program - Weed Management (3 year Results)**  
**Danny J Nusser**, Texas A&M AgriLife Extension Service, Amarillo, TX

103. **Managing Glyphosate Resistant Palmer Amaranth with Engenia™ and Residual Herbicides in Bollgard II XtendFlex™ Cotton**  
**Justin Lee Spradley**, Texas A&M AgriLife, Lubbock, TX, Wayne Keeling, Texas A&M AgriLife Research, Lubbock, TX, Austin Koonce, Texas Agrilife Research, Lubbock, TX and Adam Hixson, BASF, Lubbock, TX

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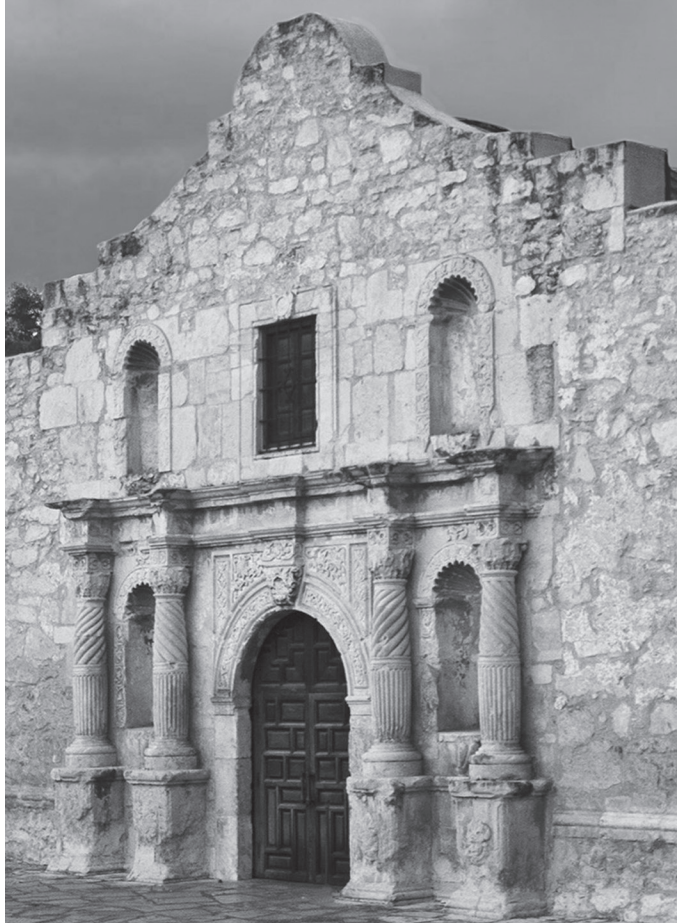
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