Beltwide Cotton Conferences

January 4-6, 2017
Hyatt Regency Dallas Hotel
Dallas, Texas
Schedule of Events

Wednesday, January 4

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>7:00a–24 h.</td>
<td>Speaker Practice Room</td>
<td>Pryor-Crockett (Level 2)</td>
</tr>
<tr>
<td>7:30a–1:00p</td>
<td>Extension Cotton Specialist Meeting (By Invitation Only)</td>
<td>Pegasus A (Lobby)</td>
</tr>
<tr>
<td>8:00a–1:00p</td>
<td>Cotton Incorporated Precision Cotton Working Group (By Invitation Only)</td>
<td>Gaston AB (Level 2)</td>
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<tr>
<td>9:00a–6:00p</td>
<td>Conference Registration</td>
<td>Trinity Crossing (Lobby)</td>
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<tr>
<td>9:00a–6:00p</td>
<td>Newsroom</td>
<td>McMillan (Level 2)</td>
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<tr>
<td>9:00a–6:00p</td>
<td>Confex Presentation Uploading Room for Speakers</td>
<td>Baker (Level 2)</td>
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<tr>
<td>9:00a–24 h.</td>
<td>Internet Café and Wi-Fi Hotspot</td>
<td>Pegasus Foyer (Lobby)</td>
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<tr>
<td>12:00p–1:00p</td>
<td>Consultants Conference Luncheon</td>
<td>Reunion E (Lobby)</td>
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<tr>
<td>12:00p–1:30p</td>
<td>NCGA Safety Specialist Forum (By Invitation Only)</td>
<td>Cockrell (Level 2)</td>
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<tr>
<td>1:00p–3:00p</td>
<td>Cotton Breeders CottonGen Training (By Invitation Only)</td>
<td>Cotton Bowl (Level 2)</td>
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<tr>
<td>1:00p–5:15p</td>
<td>Consultants Conference General Session</td>
<td>Reunion GH (Lobby)</td>
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<tr>
<td>1:30p–3:00p</td>
<td>NCGA Safety and Labor Committee</td>
<td>Reunion F (Lobby)</td>
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<tr>
<td>3:00p–3:30p</td>
<td>Coffee Break</td>
<td>Reunion GH Foyer (Lobby)</td>
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<tr>
<td>3:00p–4:00p</td>
<td>National Cotton Variety Testing Committee Meeting (By Invitation Only)</td>
<td>Cotton Boll (Level 2)</td>
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<tr>
<td>3:15p–4:45p</td>
<td>NCGA Technology Committee – Air Quality Subcommittee</td>
<td>Reunion F (Lobby)</td>
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<tr>
<td>4:00p–5:00p</td>
<td>Cotton Crop Germplasm Committee (By Invitation Only)</td>
<td>Cotton Boll (Level 2)</td>
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<tr>
<td>5:00p–6:00p</td>
<td>Regional Breeders Testing Network (By Invitation Only)</td>
<td>Cotton Boll (Level 2)</td>
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<tr>
<td>6:00p–7:00p</td>
<td>Welcome Reception for all attendees</td>
<td>Reunion A-D (Lobby)</td>
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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](http://www.cotton.org/beltwide/index.cfm), or by using one of the BWCC scheduling tools referenced on page five of this booklet.
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<tr>
<td>7:00a–10:00p</td>
<td>Speaker Practice</td>
<td>Pryor-Crockett (Level 2)</td>
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<tr>
<td>7:30a–8:00a</td>
<td>Coffee Break</td>
<td>Reunion Foyer (Lobby) and Cumberland Foyer (Exhibition)</td>
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<td>8:00a–11:00a</td>
<td>NCGA Technology Committee</td>
<td>Reunion E (Lobby)</td>
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<tr>
<td>8:00a–12:00p</td>
<td>Cotton Agronomy, Physiology &amp; Soil Conference – Session B</td>
<td>Reunion B (Lobby)</td>
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<tr>
<td>8:00a–3:15p</td>
<td>Cotton Improvement Conference</td>
<td>Reunion C (Lobby)</td>
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<tr>
<td>8:00a–7:00p</td>
<td>Cotton Agronomy, Physiology &amp; Soil Conference – Session A</td>
<td>Reunion A (Lobby)</td>
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<td>8:00a–10:00p</td>
<td>Poster Board Session</td>
<td>Cumberland I-L (Exhibition Level)</td>
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<td>Cotton Weed Science Research Conference</td>
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<td>Coffee Break</td>
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<td>Cotton Economic Outlook Symposium</td>
<td>Reunion GH (Lobby)</td>
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<td>10:30a–3:45p</td>
<td>Cotton Quality Measurements</td>
<td>Bryan-Beeman B (Level 2)</td>
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<td>10:30a–5:30p</td>
<td>Cotton Engineering-Systems Conference</td>
<td>Gaston (Level 2)</td>
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<td>11:00a–12:00p</td>
<td>Cotton Insect Research &amp; Control Roundtable</td>
<td>Reunion F (Lobby)</td>
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<td>1:30p–5:00p</td>
<td>Cotton Economics and Marketing Conference</td>
<td>Reunion E (Lobby)</td>
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<td>Cotton Insect Research &amp; Control Conference – Session A</td>
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<td>1:30p–5:30p</td>
<td>Cotton Disease Council</td>
<td>Cumberland E-F (Exhibition Level)</td>
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<td>1:30p–5:30p</td>
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<td>Cumberland Foyer-(Exhibition Level)</td>
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<td>6:00p–7:00p</td>
<td>Cotton Industry Support Group Meeting</td>
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<td>6:00p–7:00p</td>
<td>Journal of Cotton Science Editorial Board</td>
<td>Cotton Bowl (Level 2)</td>
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<td>7:30p–9:00p</td>
<td>Joint Cotton Breeding Committee</td>
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<td>PM 23/7/3 Committee</td>
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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, 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
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 Conference program for CEU evaluation. It is up to individuals to submit their application to their desired accreditation authority.

<table>
<thead>
<tr>
<th>Accrediting Group or State</th>
<th>Address</th>
<th>Phone Numbers</th>
<th>Email Addresses</th>
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</thead>
<tbody>
<tr>
<td><strong>Certified Crop Adviser (CCA) Program</strong></td>
<td>American Society of Agronomy (Soil Science Society of America), 5585 Guilford Road, Madison, WI 53711-5801</td>
<td>National Certification Representative—Certification Programs; Phone: 608-268-4953; Fax: 608-273-2081; Toll Free Number: 866-359-9161; Email: <a href="mailto:ledwardson@sciencesocieties.org">ledwardson@sciencesocieties.org</a></td>
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<tr>
<td><strong>Alabama</strong></td>
<td>Department of Agriculture &amp; Industries, Pesticide Management Certification Unit, 1445 Federal Drive, Montgomery, AL 36107</td>
<td>Phone: 334-240-7240; Fax: 334-240-7168, Email: <a href="mailto:Barbara.gates@agi.alabama.gov">Barbara.gates@agi.alabama.gov</a></td>
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<tr>
<td><strong>Arizona</strong></td>
<td>Department of Agriculture, Office of Pest Management, 1688 West Adams, Phoenix, AZ 85007;</td>
<td>Phone: 602-255-3662; Email: <a href="mailto:rwalker@azda.gov">rwalker@azda.gov</a></td>
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<tr>
<td><strong>Arkansas</strong></td>
<td>Charles E. Denver, Denver Crop Consultants, P.O. Box 304, Watson, AR 71674;</td>
<td>Phone: 870-866-2335; Fax: 870-644-3254; Email: <a href="mailto:cdagri@hotmail.com">cdagri@hotmail.com</a></td>
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<tr>
<td><strong>California</strong></td>
<td>Department of Pesticide Regulation, P.O. Box 1379, Sacramento, CA 95812;</td>
<td>Phone: 916-445-3914; Fax: 916-928-0705; Email: <a href="mailto:info4ce@cecpm.com">info4ce@cecpm.com</a></td>
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<tr>
<td><strong>Georgia</strong></td>
<td>Department of Agriculture, 19 Martin Luther King, Jr. Dr., Room 410, Atlanta, GA 30334;</td>
<td>Phone: 404-656-4960; Fax: 404-657-8378; Email: <a href="mailto:Adrean.Rhodes@agr.georgia.gov">Adrean.Rhodes@agr.georgia.gov</a></td>
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<tr>
<td><strong>Louisiana</strong></td>
<td>Department of Agriculture &amp; Forestry, Office of Agricultural &amp; Environmental Sciences, 5825 Florida Blvd. Ste. 3003, Baton Rouge, LA 70806-4259;</td>
<td>Phone: 225-925-3763; Fax: 225-237-5725; Email: <a href="mailto:kevin_w@ldaf.state.la.us">kevin_w@ldaf.state.la.us</a>; Web: <a href="http://www.ldaf.state.la.us">www.ldaf.state.la.us</a></td>
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<tr>
<td><strong>Mississippi</strong></td>
<td>Department of Agriculture &amp; Commerce, Bureau of Plant Industry, Pest Control Section, P.O. Box 5207, Mississippi State, MS 39762;</td>
<td>Phone: 662-325-0522 or 662-325-7766; FAX: 662-325-0397; Email: <a href="mailto:russellk@mdac.ms.gov">russellk@mdac.ms.gov</a> (or) <a href="mailto:AnnaA@mdac.ms.gov">AnnaA@mdac.ms.gov</a></td>
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<tr>
<td><strong>New Mexico</strong></td>
<td>Department of Agriculture, Cert. &amp; Training Specialist, 190 S. Espina, MSC 3AQ, Box 30005, Las Cruces, NM 88003-8005</td>
<td>Phone: 575-646-4837; FAX: 575-646-1540; Email: <a href="mailto:lithomen@nmda.nmsu.edu">lithomen@nmda.nmsu.edu</a></td>
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<tr>
<td>North Carolina</td>
<td>Pesticide Section, NCDA &amp; CS, 1090 Mail Service Center, Raleigh, NC 27699-1090; Phone: 919-857-4133; FAX: 919-733-9796; Email: <a href="mailto:John.Feagans@ncagr.gov">John.Feagans@ncagr.gov</a></td>
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<tr>
<td>Oklahoma</td>
<td>Pesticide Certification &amp; 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: <a href="mailto:ryan.williams@ag.ok.gov">ryan.williams@ag.ok.gov</a></td>
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<tr>
<td>South Carolina</td>
<td>Special Programs Manager, Department of Pesticide Regulation Clemson University, 511 Westinghouse Road, Pendleton, SC 29670; Phone: 864-646-2150; Fax: 864-646-2179; Email: <a href="mailto:thghslr@clemson.edu">thghslr@clemson.edu</a></td>
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<tr>
<td>Tennessee</td>
<td>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: <a href="mailto:mary.borthick@tn.gov">mary.borthick@tn.gov</a></td>
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<tr>
<td>Texas</td>
<td>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: <a href="mailto:recertcourses@texasagriculture.gov">recertcourses@texasagriculture.gov</a>; Phone: 512-463-8713</td>
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COTTON CONSULTANTS CONFERENCE
Reunion G-H (Hyatt Regency Dallas) - 1:00 PM-3:20 PM
1:00 PM Welcoming Remarks and Sponsor Recognition
John T. Fowler, Monsanto, St. Louis, MO
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 Vellidis1, Vasileios Liakos1, Edward M. Barnes2 and Charles T Bargeron1, (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, Baldwyn, 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 Nematocide 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 - 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. Snider1, Daryl Chastain2, Dustin Dunn1, John Gassett3, Bobby G Golden4, Darrin M. Dodds5, Wesley M. Porter6 and William Slaton6, (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 Thorp1, Edward M. Barnes2, Bruce Kimball1 and Doug Hunsaker1, (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 Landivar1, Jinhua Jung2, Andrea Maeda3, Long Huynh4 and Murilo Maeda1, (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 Maeda1, Juan Landivar1, Jinhua Jung2, Anjin Chang2, Junho Yeom2, Andrea Maeda3, Josh McGinty1, Juan Enciso4, C. Wayne Smith5, David M. Stelly4, Steve Hague6 and Jane Dever7, (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 French1, Alison L Thompson1, Michael A Gore1, Ethan M Apodaca2 and Anthony R Holman3, (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 Ale1, Pradip Adhikari2, Paul DeLaune1, Kelly R Thorp3 and Edward M. Barnes4, (1)Texas A&M AgriLife Research, Vernon, TX, (2) Oklahoma State University, Stillwater, OK, (3)USDA-ARS, Maricopa, AZ, (4) Cotton Incorporated, Cary, NC
### 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 Bumgardner**, Katie L. Lewis, Seth A. Byrd, Gaylon D. Morgan, Robert L. Nichols, and Dustin Kelley, (1)Texas A&M AgriLife Extension, Lubbock, TX, (2)Texas A&M AgriLife Research and Extension Center, Lubbock, TX, (3)Texas A&M AgriLife Research Service, College Station, TX, (4)Cotton Incorporated, Cary, NC, (5)Texas A&M AgriLife Research, Lubbock, TX

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

**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, Winniebros, 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**, Darrin M Dodds, Drew B. Denton, Chase A. Samples, Michael T. Plumblee, Lucas Xavier Franca and Bradley R Wilson, (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**, Darrin M. Dodds, Drew B. Denton, Chase A. Samples, Michael T. Plumblee, Lucas Xavier Franca and Savana Davis, (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**, Nithya Rajan, Kenneth Casey, Srinivasulu Ale, Russell W Jessup and Stephan J Maas, (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**, Tyson Raper, Michael Buschermohle and Rob Freeland, (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**, Joshua Heitman, Randy Wells, David L Jordan, Gail Wilkerson and Keith L. Edmisten, (1)NC State University, Raleigh, NC, (2)N.C. State University, Raleigh, NC

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### 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**, John L. Snider, Wesley M. Porter, George Vellidis, Gary L. Hawkins and Diane Rowland, (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, Darrin M. Dodds, Jason Krutz, Chase A. Samples and Savana Davis, (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, Jim Bordovsky, Glen Ritchie and Katie Lewis, (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, Brian Leib, Feng Liangshan and Lori Duncan, (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, David K Brauer and Robert Schwartz, (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, Gaylon Morgan and Josh McGinty, (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
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

Seasonal Canopy Temperatures for Normal and Okra Leaf Cotton Under Variable Irrigation in the Field

James R Mahan1, Paxton Payton2 and Haydee E Laza1, (1)USDA/ARS, Lubbock, TX, (2)United States Department of Agriculture, Lubbock, TX

Cotton Growth and Productivity Following Cover Crops

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

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

Integrating Rye Cover Crop and Reduced Tillage to Improve Soil Health

Bill Robertson1, Amanda Free1, Mike Daniels3, Christopher Henry1 and Archie Flanders1, (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

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

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

A Beltwide Evaluation of Potassium Rate and Application Method on Cotton Yield and Quality

Gaylon Morgan1, Katie L Lewis2, Hunter Frame3, Randy Boman4, Dan D Fromme2, Bill Robertson2, Tyson Raper5, Dennis P. Delaney6, Keith L. Edmisten6, Dale A Mott1 and Robert L. Nichols1, (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 Sulphur Applications for No-Tillage Cotton and Comparison of Soil Sulfur Testing Methods
Xinhua (Frank) Yin¹, Tyson Raper¹ and Hugh J. Savoy², (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 Bronson¹, Doug Hunsaker¹, Pedro Andrade-Sanchez², Clinton Williams¹, Randy Norton² and Kelly R Thorp³, (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 Raper¹, Shawn Butler¹, Ray Asebedo² and Edward M. Barnes³, (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 Unv 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 Bronson¹, Doug Hunsaker¹, Kelly R Thorp¹, Matthew M Conley¹, Randy Norton², Pedro Andrade-Sanchez² and Edward M. Barnes³, (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 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, Kathy S. Lawrence, David H Long, Stephen R. Till, Meredith Hall, Will Groover, Ni Xiang, Daniel Dodge and Mary S Foshee, (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, Darrin M. Dodds, Michael T. Plumblee, Chase A. Samples, Lucas Xavier Franca, Savana Davis and Drew B. Denton, (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, Robert C Kemermait, Marin T. Brewer and Katherine Stevenson, (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 Kemermait, University of Georgia, Tifton, GA, Paul Price, Louisiana State University, Winsboro, 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 Hagan1, Malcomb Pegues2, Jarrod R. Jones2, Shawan Scott1 and Katherine Burch1, (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-Incited Defoliation and Yields of Selected Cotton Varieties over a Three Year Period in Southwest Alabama
Austin Hagan1, Kira L. Bowen1, Katherine Burch1 and H. Brad Miller3, (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 Scheffler1, Janna Love2 and James Frelichowski2, (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 Zhou1, Vijay Verma1, Terry A Wheeler2, Jason Woodward3, James L Starr1 and Gregory A. Sword1, (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 Wagner1, Jinggao Liu1, Lorraine Puckhaber1, Alois Bell1 and Clint W Magill1, (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 Vaughn¹, Nilesh D Dighe¹, David W Albers² and Luke Carpenter¹, (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
Berry 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 Larson1, Chris Boyer1, Melissa Stefanini1, Dayton M Lambert1, Xinhua (Frank) Yin1, Hugh J. Savoy1, Michael Buschermohle1, Donald D Tyler1, Jac Varco1, Brenda Tubana4 and Peter Scharf1, (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 Free1, Bill Robertson1, Mike Daniels2, Archie Flanders3 and Christopher Henry4, (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 Pate¹, Donna Mitchell² and Will Keeling¹, (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. Regmund¹, John R.C. Robinson¹, David P. Anderson² and John L. Park², (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 Thompson¹, John R.C. Robinson², Luis A. Ribera², Mark Welch² and Mark L. Waller², (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 Leib1, Tim Grant1 and Feng Liangshan2, (1)University of Tennessee, Knoxville, TN, (2)Institute of Crop Cultivation and Farming System, Liaoning Academies 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 Martin1, Chenghai Yang1, Gaylon Morgan2 and Mohamed Latheef3, (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 Khan1, Michal Vik1, Martina Vikova1 and Bekir Yildirim2, (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 Sui1, Yanbo Huang1, Jonnie Baggard1 and Howard Brand2, (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
Chenghai Yang1, Juan Landivar2, Murilo Maeda2, Jinha Jung2, Michael J. Starek3, Tiansing Chu3 and Anjin Chang3, (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
Chenghai Yang1, Gary N. Odvody2, J. Alex Thomasson3, Thomas Isakeit3, David R Drake4 and Robert L. Nichols4, (1)USDA-ARS, College Station, TX, (2)Texas AgriLife Research and Extension Center, Corpus Christi, TX, (3)Texas A&M University, College Station, TX, (4)Texas A&M AgriLife Extension Service, San Angelo, TX, (5)Cotton Incorporated, Cary, NC
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 Oosthuizen¹, Russell McGee² and Calvin Parnell², (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 Cory1, Ross D Rutherford2 and Joe W. Thomas2, (1)Lummus Corporation, Savannah, GA, (2)Lummus Corporation, Lubbock, TX

4:15 PM  Field Evaluation of Lummus Gin Machinery – 2016
Ross D Rutherford1, Mark D Cory2 and Joe W. Thomas2, (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
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, Waurn 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, Waurn 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 Holt1, Tom Wedegaertner2, John Wanjura3, Mathew G Pelletier1 and Christopher D. Delhom1, (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 Wanjura1, Edward M. Barnes2, Mathew G Pelletier3 and Greg Holt1, (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 Hughes, 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 - 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 Esmaeili1, Jennifer Smith1, John Burke2, Paxton Payton3 and Hong Zhang1, (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 Witt1, Mauricio Ulloa2, Venugopal Mendu1, Mathew G Pelletier3 and Glen Ritchie1, (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. Elkins1, Jane Dever2 and Mark Arnold2, (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 Arce1, Jane Dever2, Terry Wheeler3, Greg Holt3 and Steve Hague1, (1)Texas A&M University, College Station, TX, (2)Texas A&M AgriLife Research, Lubbock, TX, (3)USDA ARS, Lubbock, TX

9:15 AM Effects of Combining Ren lon with Ren barb1 and Ren barb2 Genes on Resistance to Reniform Nematode Rotylenchulus reniformis
Amanda Gaudin1, Ted Wallace1, Sally Stetina2 and Jodi Scheffler2, (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 Santiago1, Kathy Scienski2, Amanda M Hulse-Kemp2, Marcio Resende Jr.1, Leandro Neves1 and David M. Stelly1, (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 Lin¹, Luis M De Santiago¹, Sukumar Saha², Robert Vaughn³, Johnnie N. Jenkins², Jack C McCarty², Mauricio Ulloa³, Russell Hayes², B. Todd Campbell⁴ and David M. Stelly⁵, (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 Abdelraheem¹, Soum Sanogo¹, Vasu Kuraparthi², Don Jones¹ and Jinfia Zhang¹, (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 Reinfem Resistant Germplasm Derived from Barbren-713
Ted Wallace¹, Jodi Scheffler², Sally Stetina² and Amanda Gaudin¹, (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 Fang¹, Md S Islam², Gregory N Thyssen³, Johnnie N Jenkins⁴, Linghe Zeng⁴, Christopher D. Delhom⁵, Jack C McCarty⁶, Dewayne D Deng⁶, Doug J Hinchliffe⁶ and Don Jones⁶, (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
Gasper Martinez¹, Zachary Larson¹, Abdelraheem Abdelraheem¹, Zongfu Han¹, Jie Chen¹, Jack C McCarty¹, Johnnie N Jenkins¹ and Jinfia Zhang¹, (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 Hooks¹, Abdelraheem Abdelraheem¹, Jie Chen¹, Sujun Zhang¹, Zongfu Han¹, Gasper Martinez¹, Jack C McCarty¹, Johnnie N Jenkins¹, Geno Picchioni¹ and Jinfia Zhang¹, (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. Kyanam1, Amanda Hulse-kemp1, Robert N Vaughn2, Dwaine Raska1, Fei Wang1, Nithya Subramanian1, Don Jones3 and David M. Stelly1,
(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 Abdalla1, Eman El-sayed Rashwan E2 and Wagida Afif El-Faramawy2, (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 Main1, Jing Yu1, Sook Jung1, Taein Lee1, Jodi Humann1, Deah McGaughhey1, Morgan Frank1, Jodi Humann1, B. Todd Campbell2 and Richard Percy1, (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. Jenkins1, Jack C McCarty1, Martin Wubben2, Dewayne D Deng1, Sukumar Saha1 and lbrokhim Abdurakhmonov1, (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 Bourgou1, Mahamadou Sawadago1, Sanfo Denys1, Jean-Marc Lacape1 and Jane Dever4, (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 Phytojen
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 Kothari1, Drew Sturtevant2, Lori Hinze3, Kent Chapman2 and Jane Dever3, (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
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 Raszick1, Gregory A. Sword1, Charles P.-C. Suh2 and Raul Ruiz-Arce3, (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 Crow1, Angus Catchot1, Jeff Gore2, Scott D. Stewart3 and Sandy Steckel1, (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 Bateman1, Angus Catchot1, Jeff Gore2, Don Cook2, Fred Musser1 and Trent Irby3, (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 Whalen1, Jeff Gore2, Angus Catchot1, Don Cook2 and Fred Musser1, (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 Gale1, Gregory A. Sword1, Charles P.-C. Suh2, Jose L Perez2 and Michael V Kolomiets3, (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 Kuraparthy, North Carolina State University, Raleigh, NC

2:00 PM  Impact of Early Season Management Decisions on Soybean Yield
John H North1, Angus Catchot1, Jeff Gore2, Don Cook2, Trent Irby1 and John Orlowski2, (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 Tessnow1, Tom Walsh2, Spencer Behmer1 and Gregory A. Sword1, (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. Huseth and George G Kennedy, North Carolina State University, Raleigh, NC

2:45 PM  Impact of Defoliation on Mid-South Soybeans
Benjamin C Thrash1, Angus Catchot1, Jeff Gore2, Don Cook2, Fred Musser2, Trent Irby1 and Jason Krutz2, (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 Studebaker, 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 Gilreath1, David Kerns2 and Sebe Brown2, (1)Louisiana State University, Winnboro, LA, (2)LSU AgCenter, Winnboro, LA

4:15 PM  Evaluating Fall Armyworm Thresholds in Whorl Stage Corn in Mississippi
Keiton L Croom1, Angus Catchot1, Don Cook2 and Jeff Gore2, (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 Smith1, Angus Catchot1, Jeff Harris1, Natraj Krishnan1, Jeff Gore2 and Don Cook2, (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 Porter, 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 Black1, Gus Lorenz2, Nichole Taillon1, Aaron Cato3 and Andrew Plummer1, (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 Taillon1, Gus Lorenz2, Nichole Taillon1, Andrew Plummer3, Michael Chanezy1, Joseph Black2 and Aaron Cato3, (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 Talavera1, Gus Lorenz2, Nichole Taillon3, Andrew Plummer3, Michael Chanezy1, Joseph Black2 and Aaron Cato3, (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 Gonzalez1, David Kerns1, Sebe Brown1 and Fangneng Huang2, (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 Lipsey1, Angus Catchot1, Jeff Gore2, Don Cook2, Fred Musser1 and Erick Larson1, (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 Miskelley1, Nick Seiter2, Neelendra Joshi2, Gus Lorenz1 and Glenn Studebaker1, (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 Corbin1, Angus Catchot2, Jeff Gore3, Darrin M. Dodds2 and Don Cook3, (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 Moor1, Jeff Gore1, Angus Catchot2, Don Cook1 and Darrin M. Dodds2, (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 Kerns¹, Jeremy K Greene¹, Francis Reay-Jones², Dan Robinson¹ and James Smoak¹, (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. Stewart¹, Mohamed Alburaki¹, John Adamczyk¹ and William Meikle¹, (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. Huseth¹, Thomas M. Chappell¹, Anitha Chitturi², Alana Lynn Jacobson² and George G Kennedy¹, (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. Huseth, 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 Cook¹, Jeff Gore¹, Angus Catchot², Scott D. Stewart³, David Kerns³, Gus Lorenz², Nick Seiter², Glenn Studebaker², Fred Musser², Sebe Brown³ and Moneen Jones³, (1)Mississippi State University, Stoneville, MS, (2)Mississippi State University, Mississippi State, MS, (3)The University of Tennessee, Jackson, TN, (4)LSU AgCenter, Winnboro, 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 Roe1, Anirudh Dhammi1, Loganathan Ponnusamy1, Jiwei Zhu1, Grayson Cave1 and Ryan W Kurtz2, (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 AgLife 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 Kerns1, Sebe Brown1, Fei Yang2, Scott D. Stewart3, Gus Lorenz4, Nick Seiter4, Glenn Studebaker6, Jeff Gore7, Don Cook7 and Angus Catchot8, (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)Louisiana State University, Stoneville, MS, (8)Louisiana State University, Mississippi State, MS

9:00 AM A Meta-Analysis of Transgenic Bt Cotton Efficacy: 1996-2015, Preliminary Data
Daniel E Fleming1, Fred Musser1 and Nathan S Little2, (1)Mississippi State University, Mississippi State, MS, (2)USDA-ARS SIMRU, Stoneville, MS

9:15 AM Twenty-Three Years of Heliothine 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 Kelly1, Jeff Gore1, Angus Catchot2, Don Cook1 and Joel Moor1, (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 Midsummer 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® 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 Gore1, Scott D. Stewart2, Gus Lorenz3, Angus Catchot4, David Kerns5, Nick Seiter6, Glenn Studebaker7, Don Cook1 and Sebe Brown8, (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 Raszick1, Gregory A. Sword1 and Charles P-C. Suh2, (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 Hussain1, Khurram Zia1, Megha N. Parajulee2, Mumammad Jalal Arif3 and Abdul Hakeem4, (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 Cintron¹, Doug J Hinchliffe², Joe Montalvo³, Terri Von Hoven⁴, James Rodgers⁵, Gregory N Thyssen⁶, Linghe Zeng⁷ and Crista Madison⁸, (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

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. Hughes 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 Xu¹, Jingye Jin² and Fumei Wang³, (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. Buol1, Daniel B. Reynolds1, Robert L. Nichols2 and J. Anthony Mills3,
(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 Fogleman1, Jason K Norsworthy1, Tom Barber2 and Mohammad T Bararpour1, (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® Cotton
Lucas Xavier Franca1, Darrin M. Dodds1, J. Anthony Mills2, Daniel B. Reynolds1, Jason A. Bond1, Chase A. Samples1, Michael T. Plumblee1 and Drew B. Denton1, (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 XtendFlextm Cotton with Engenia™ 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 Rose1, Tom Barber2, Jason K Norsworthy1, Michael Houston1 and Hunter Bowman1, (1)University of Arkansas, Fayetteville, AR, (2)University of Arkansas-Extension, Lonoke, AR

10:15 AM  Crop Injury in an XtendFlex® Cotton System
Chase A. Samples1, Darrin M. Dodds1, Angus Catchot1, Trent Irby1, Greg Kruger2, Daniel B. Reynolds1, John T. Fowler1, Savana Davis1, Lucas Xavier Franca1, Michael T. Plumblee1 and Bradley R Wilson1, (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™ and Bollgard®II Xtendflex™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 Norworthy, University of Arkansas, Fayetteville, AR
POSTERS WILL BE ON DISPLAY IN REUNION E FOR THE FOLLOWING:

COTTON ECONOMICS AND MARKETING CONFERENCE

General Interest Posters

1. Climate and Crops Look – a Resource to Help Southeast Farming Adapting to a Variable Climate
   Brenda V Ortiz¹, Austin Hagan¹, Robert C Kemerait², Kathy Flanders¹, Scott Tubbs², Dale Monk³, Walter Scott Monfort⁴, Mark Abney⁴, Ronald Smith¹, William Birdsong⁵, Edward Sikora⁶, Dennis P Delaney⁷, David Buntin⁸, Jerry Johnson⁹, Kris Balkcom¹⁰ and Ayanava Majumdar¹¹, (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 Mott¹, John Gordy², Brent Batchelor³, Corrie Bowen⁴, Mike Hiller⁵, Stephen Janak⁶ and Gaylon Morgan⁷, (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 Ramirez¹, Emi Kimura¹ and Gaylon Morgan⁴, (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 Woodward¹, Xiaoxiao Liu¹ and Richard Roper², (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. Barnes¹, Calvin Meeks² and John L. Snider², (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 Fromme¹, Gaylon Morgan², Hunter Frame³, Darrin M. Dodds⁴, Tyson Raper⁵, Keith Shannon⁶ and Dale A Mott⁷, (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 Ritchie¹, Curtis Schaefer¹, Nothabo Dube² and Hamed Sari-Sarraf³, (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. Salimath¹, Monica Schmidt², Eliot M. Herman² and Kent D. Chapman³, (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 Hicks¹, Brandon Dillard², Kimberly Wilkins³, William Birdsong⁴, Max Runge⁵ and Glendon Harris⁶, (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 Meeks¹, John L. Snider¹, Wesley M. Porter¹, Terry Griffin² and Tony L. Barnes³, (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. Byrd¹, John Wanjura², Gaylon Morgan² and Robert Wright³, (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

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 Idowu¹, Jinfan Zhang¹, Murali Darapuneni² and Mohammed Omer¹, (1)New Mexico State University, Las Cruces, NM, (2)New Mexico State University, Tucumcari, NM

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 Schwartz¹, Travis Witt², Mauricio Ulloa³, Glen Ritchie², Dick Auld², R. Louis Baumhardt³, Paul Colaizzi³, Mathew G Pelletier³ and John Burke¹, (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 Grant¹, Brian Leib¹ and Amir Haghverdi², (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. Finch¹, Jourdan M. Bell¹, Brock Blaser¹ and Edsel Bynum², (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 Davis1, Darrin M. Dodds1, Drew B. Denton2, Chase A. Samples1, Bradley R Wilson1, Michael T. Plumblee1 and Lucas Xavier Franca1, (1) Mississippi State University, Mississippi State, MS, (2)Mississippi State University, Starkville, MS

36. Quantifying Cotton Cultivar Response to Early Season Water Deficit  
   Calvin Meeks1, John L. Snider1, Tony L. Barnes2 and Megan E. Babb-Hartman1, (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. Samples1, Darrin M. Dodds1, Angus Catchot1, Trent Irby1, Greg Kruger2, Daniel B. Reynolds1, John T. Fowler3, Savana Davis1, Lucas Xavier Franca1, Michael T. Plumblee1 and Bradley R Wilson1, (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 Menefee1, Sumit Sharma2 and Nithya Rajan1, (1)Texas A&M University, College Station, TX, (2)Texas A&M University, College Station, TX

39. Relationship Between Seed Coat Fragments Count and Fiber Attachment Force in Cottonseeds  
   Joao Paulo Saraiva Morais1, Renildo L Mion2, Brendan Kelly1 and Eric F Hequet1, (1)Texas Tech University, Lubbock, TX, (2)Federal University of Mato Grosso, Rondonopolis, Brazil

40. On Farm Variety Evaluations in Mississippi  
   Lucas Xavier Franca1, Darrin M. Dodds1, Chase A. Samples1, Michael T. Plumblee1, Drew B. Denton2, Savana Davis1 and Bradley R Wilson1, (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. Plumblee1, Darrin M. Dodds1, Tyson Raper2, Andrea S. Jones1 and Dan D Fromme4, (1)Mississippi State University, Mississippi State, MS, (2)University of Tennessee, Jackson, TN, (3)University of Missouri, Portageville, MO, (4)LSU AgCenter, Alexandria, LA
42. **Cotton Disease Loss Estimate Committee Report, 2016**

Kathy Lawrence, Austin Hagan, Mary Olsen, Travis R. Faske, Robert Hutmacker, John Muller, David L. Wright, Robert C Kemerait, Charles Overstreet, Paul Price, Gary W Lawrence, Tom W Allen, Sam Atwell, Natalie Goldberg, Keith Edmisten, Randy Boman, Heather Young, Jason Woodward and Hillary Mehli, (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, Scott Winters, Tom W Allen, J. D. Barham, Fred M Bourland, P. D. Colyer, Heather M Kelly, Robert C Kemerait, Gary W Lawrence, Kathy Lawrence, Hillary L Mehli, Paul Price and Jason Woodward, (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, Robert C Kemerait, C. S. Ortiz, Sandria Prom, J. Quintana, Robert L. Nichols and Jinggao Liu, (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. Vas inundum: Growth, Virulence and Secondary Metabolism**

Carlos S. Ortiz, Clint W Magill, A. A. Bell and Jinggao Liu, (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 Mehli, 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**  

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 McNroy, Auburn University, Auburn, AL

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**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

Nathan R Williams¹, Brittany Deanna Barnes¹, M. Arlene Adviento-Borde², Michele L Reba² and Tina Gray Teague³, (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 Han1, Jinfa Zhang2, Abdelraheem Abdelraheem2, Jie Chen3, Sujun Zhang4, Triston Hooks5 and Gasper Martinez6, (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 Zhang1, Soum Sanogo1, Tom Wedegaertner2 and Don Jones3, (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 Elassbli1, Abdelraheem Abdelraheem2, Soum Sanogo2, Terry A Wheeler3, Vasu Kuraparthyc and Jinfa Zhang2, (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 Chen1, 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

TariLee Frigult1, Mauricio Ulloa2, Robert B Huttemacher3, Mark Keeley4, Steven D. Wright1 and Philip A. Roberts4, (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
Addissu 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 Bourgou1, Sanfo Denys1, Jane Dever1 and Carol Mason Kelly2, (1) INERA, Bobo Dioulasso, Burkina Faso, (2) Texas A&M AgriLife Research, Lubbock, TX

70. Cotton Seed Oil Development in Gossypium hirsutum
Neha Kothari1, Drew Sturtevant2, Jane Dever3, Kent Chapman3, Richard Percy4 and Lori Hinze5, (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 Walsh1, Craig Anderson2, William James1, Lars Jermiin1 and Sharon Downes1, (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
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 Bassiana Strain N18 on Lygus Lineolaris (Hemiptera Miridae) and Its Impact on Beneficial Arthropods
Maribel Portilla1, Randall G. Luttrell2, Gordon Snodgrass3, Eric Portilla4 and Yu Chen Portilla5, (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 Portilla1, Bryce D Blackman1 and Randall G. Luttrell2, (1) USDA, Stoneville, MS, (2)USDA-ARS SIMRU, Stoneville, MS

82. Increased Helicoverpa Zea (Boddie) Larval Feeding on a RNAi Contract CYP82D109 That Blocks Gossypol-Related Terpenoid Synthesis in Cotton Plants
Tanya A Wagner, Charles P.-C. Suh, Jinggao 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 Blackman1, Kerry C Allen1, Walker Jones2, Nathan S Little1, Michael Grodowitz4 and Randall G. Luttrell2, (1)USDA-ARS SIMRU, Stoneville, MS, (2)USDA-ARS NBCL, Stoneville, MS

84. Examining Nozzle Effects on Insect Control in Tennessee Cotton
Sandy Steckel1, Scott D. Stewart1, Matthew Williams1, Larry Steckel1, Julie Reeves3 and Garret Montgomery1, (1)The University of Tennessee, Jackson, TN, (2)University of Tennessee, Jackson, TN

85. Expression Profiles of Detoxification Genes in Helicoverpa Zea
Omaththage P Perera1, Nathan S Little2, Kerry C Allen2, Calvin A Pierce1 and Randall G. Luttrell2, (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 Scricciato, 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 Staines1, Phillip M. Roberts2 and Mike Toews2, (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. Carroll1, Megha N. Parajulee1 and Tahammal Hussain2, (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 Chaney1, Gus Lorenz2, Nichole Taillon3, Andrew Plummer1, Joseph Black1 and Aaron Cato1, (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 Taillon¹, Gus Lorenz², Andrew Plummer¹, Michael Chaney¹, Joseph Black¹ and Aaron Cato¹, (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 Plummer¹, Gus Lorenz², Nichole Taillon¹, Michael Chaney¹, Joseph Black¹ and Aaron Cato¹, (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 Dowd¹, Scott M Pelitire¹ and Christopher D. Delhom², (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 Bagavathiannan¹, Kaisa Werner¹, Peter A. Dotray², Jason K Norworthys¹ and Robert L. Nichols², (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. Buol¹, Daniel B. Reynolds¹, Robert L. Nichols² and J. Anthony Mills³, (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 Fogleman¹, Jason K Norworthys¹, Mathew G Palhano¹ and Tom Barber¹, (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 Norworthys¹, Nicholas R Steppig and Chris J Meyer, University of Arkansas, Fayetteville, AR

98. **Postemergence Tolerance of Cotton Technologies to Auxin Herbicides**
James Rose¹, Tom Barber², Jason K Norworthys¹, Hunter Bowman¹ and Michael Houston¹, (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 Norworthys¹ and Chris J Meyer, University of Arkansas, Fayetteville, AR

100. **Liberty Plus Auxin Herbicides in Tank Mix Combinations**
Seth Taylor¹, Peter A. Dotray¹, Wayne Keeling¹ and Russ Perkins¹, (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 Baughman¹, Robert W Peterson¹, Randy Boman², Dylon L Teeter¹, Casey D Curtisinger¹ and Jerry R. Goodson², (1)Oklahoma State University, Ardmore, OK, (2)Oklahoma State University, Altus, OK

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

The Beltwide Cotton Conferences (BWCC) continue the tradition of putting leading edge information and innovations into attendees’ hands to help with decision-making. The full 2017 BWCC Proceedings are scheduled to be mailed in May to attendees who purchase them. However, many of the forum’s reports - gleaned from the Confex Podium presentation management/ recording service - are available online.*

The National Cotton Council is pleased to make these presentations and papers available to the cotton industry through the Confex Podium web site. To view presentations and papers on the computer, all that is needed is a high-speed Internet connection.

These can be viewed by selecting the 2017 Recorded Presentations tab at the BWCC website home page, www.cotton.org/beltwide/ or use this QR Code.

Session Example: After clicking on the recording link, scroll down and click on a session of interest. Next, scroll down to a presentation you want to listen to and click. The presentation you selected will be downloaded to your computer. (Note: first time users may need to download some additional software to hear and see the selected presentation.)

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