Beltwide Cotton Conferences

January 6-8, 2014
New Orleans Marriott Hotel
New Orleans, Louisiana
## Schedule of Events

### Monday, January 6

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>7:00a – 24 hrs.</td>
<td>Speaker Practice Room</td>
<td>Rhythm (4th Fl.)</td>
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<tr>
<td>8:00a – 12:00p</td>
<td>Extension Cotton Specialist Meeting (by invitation only)</td>
<td>Pres. Hall 9</td>
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<tr>
<td>8:00a – 8:00p</td>
<td>Poster Board Session Exhibitor Setup</td>
<td>Mardi Gras E-H</td>
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<tr>
<td>9:00a – 6:00p</td>
<td>Cotton Craft Store</td>
<td>Galeries 1-4 Foyer</td>
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<tr>
<td>9:00a – 6:00p</td>
<td>Conference Registration</td>
<td>Pres. Hall Foyer</td>
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<td>9:00a – 6:00p</td>
<td>Internet Café</td>
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<td>Wireless Hotspot</td>
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<td>CEU Desk</td>
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<tr>
<td>9:00a – 6:00p</td>
<td>Newsroom</td>
<td>Pres. Hall 5</td>
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<td>9:00a – 6:00p</td>
<td>Confex Presentation Uploading Room</td>
<td>Pres. Hall 10</td>
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<tr>
<td>12:00p – 1:00p</td>
<td>Consultants Conference Luncheon</td>
<td>River View 41st Floor</td>
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<td>12:00p – 1:30p</td>
<td>NCGA Safety Specialist Forum (By Invitation Only)</td>
<td>Pres. Hall 4</td>
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<tr>
<td>1:00p – 5:00p</td>
<td>USDA - ARS Cotton Geneticists Meeting (By Invitation Only)</td>
<td>Galerie 2</td>
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<tr>
<td>1:00p – 6:00p</td>
<td>Consultants Conference General Session</td>
<td>Mardi Gras A-D</td>
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<tr>
<td>3:00p – 3:30p</td>
<td>Coffee Break</td>
<td>Mardi Gras D Foyer</td>
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<tr>
<td>4:00p – 5:00p</td>
<td>Cotton Germplasm Committee</td>
<td>Pres. Hall 9</td>
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<tr>
<td>5:00p – 7:30p</td>
<td>National Cotton Variety Testing Committee Meeting (By Invitation Only)</td>
<td>Pres. Hall 9</td>
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<tr>
<td>6:00p – 7:00p</td>
<td>Reception for all attendees</td>
<td>Acadia</td>
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<tr>
<td>6:30p – 8:30p</td>
<td>Cotton Consultant of the Year</td>
<td>Galeries 4-6</td>
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### Tuesday, January 7

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<th>Time</th>
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<tr>
<td>6:30a – 8:00a</td>
<td>Farm Press/Cotton Foundation High Cotton Awards Breakfast</td>
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<tr>
<td>7:30a – 8:00a</td>
<td>Coffee Break</td>
<td>2nd, 3rd Floor Foyers</td>
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<td>7:30a – 6:00p</td>
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<td>Newsroom</td>
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<td>Confex Presentation Uploading Room</td>
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<td>Speaker Practice Room</td>
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<td>8:00a – 9:30a</td>
<td>Cotton Soil Management &amp; Plant Nutrition Conference</td>
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<td>8:00a – 10:15a</td>
<td>Cotton Agronomy &amp; Physiology Conference – Session A 5:15-7:00p – Business Meeting</td>
<td>Galerie 5</td>
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<td>8:00a – 11:45a</td>
<td>Cotton Agronomy &amp; Physiology Conference – Session B</td>
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<td>8:00a – 5:00p</td>
<td>Cotton Improvement Conference</td>
<td>Pres. Hall 7-8</td>
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<td>Cotton Disease Council</td>
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<td>8:00a – 6:00p</td>
<td>Cotton Consultant’s Conference</td>
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<td>Poster Board Session</td>
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<td>Coffee Break</td>
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<td>10:30a – 5:00p</td>
<td>Cotton Economic Outlook Symposium</td>
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<td>10:30a – 5:00p</td>
<td>Cotton Quality Measurements</td>
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<td>11:00a – 5:00p</td>
<td>Cotton Weed Science Research Conference</td>
<td>Mardi Gras A - C</td>
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<td>11:00a – 12:00p</td>
<td>Cotton Insect Research &amp; Control Roundtable</td>
<td>Galerie 3</td>
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<tr>
<td>1:00p – 7:00p</td>
<td>Cotton Insect Research &amp; Control Conf. – 1:00 – 3:15p – Student Paper Competition 3:45 – 7:00p - Session B</td>
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<td>1:30p – 5:00p</td>
<td>Cotton Insect Research &amp; Control Conf. – Session A</td>
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<td>Cotton Economic Outlook Conference</td>
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<td>1:30p – 5:30p</td>
<td>Cotton Ginning Conference</td>
<td>Pres. Hall 2-3</td>
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<td>3:00p – 4:30p</td>
<td>Bayer CropScience Media Briefing (By Invitation Only)</td>
<td>Galerie 6</td>
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<td>3:15p – 4:00p</td>
<td>Coffee Break in Poster Board session room (Authors Present)</td>
<td>Mardi Gras E-H</td>
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<tr>
<td>5:30p – 6:30p</td>
<td>Cotton Industry Support Group Meeting</td>
<td>Pres. Hall 2-3</td>
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<td>6:00p – 7:00p</td>
<td>Journal of Cotton Science Editorial Board</td>
<td>Lafayette</td>
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<td>7:30p – 9:00p</td>
<td>Joint Cotton Breeding Committee</td>
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<td>8:00a – 10:00a</td>
<td>Cotton Insect Research &amp; Control Conf. – Session B</td>
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<td>Cotton Disease Council</td>
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<td>Cotton Weed Science Research Conference</td>
<td>Mardi Gras A-C</td>
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<td>8:00a – 12:00p</td>
<td>Joint Session: Engineering-Systems &amp; Ginning Conference</td>
<td>Pres. Hall 2-3</td>
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<td>8:05a – 10:00a</td>
<td>Cotton Utilization Conference: Cotton Fabric Chemistry, Nonwovens &amp; Products</td>
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<td>8:15a – 11:45a</td>
<td>Cotton Improvement Conference</td>
<td>Pres. Hall 7-8</td>
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<td>8:30a – 10:00a</td>
<td>Cotton Economics and Marketing Conference</td>
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<td>Coffee Break</td>
<td>2nd, 3rd Floor Foyers</td>
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<tr>
<td>12:00p – 5:00p</td>
<td>Dow and Syngenta Extension Specialists Meeting (By Invitation Only)</td>
<td>Mardi Gras D</td>
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<tr>
<td>12:00p - 6:00p</td>
<td>Bayer CropScience Nematode/Seedling Disease Meeting</td>
<td>Balconies J-K</td>
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<tr>
<td>1:00p – 5:00p</td>
<td>Cotton Incorporated Precision Cotton Working Group (By Invitation Only)</td>
<td>Galerie 6</td>
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<tr>
<td>1:30p – 3:30p</td>
<td>Cotton Gen Database Steering Committee Meeting</td>
<td>Pres. Hall 8</td>
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<td>7:30a – 1:00p</td>
<td>Bayer CropScience Nematode and Seedling Disease Committee Meeting</td>
<td>Balconies J-K</td>
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<td>8:00a – 12:00p</td>
<td>Cotton Incorporated High Throughput Phenotyping Workgroup (By Invitation Only)</td>
<td>Galerie 6</td>
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<td>8:00a – 12:00p</td>
<td>Dow and Syngenta Extension Specialists Meeting (By Invitation Only)</td>
<td>Mardi Gras D</td>
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Access our mobile site with your phone
## Quick Guide to Major Program Sessions

Page Number for Beginning of Sessions Listed Below

<table>
<thead>
<tr>
<th>Session</th>
<th>Monday am</th>
<th>Monday pm</th>
<th>Tuesday am</th>
<th>Tuesday pm</th>
<th>Wednesday am</th>
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<td>Consultants Conference</td>
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<td>Agronomy and Physiology</td>
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<td>Disease Council</td>
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<td>Improvement</td>
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<td>12</td>
<td>27</td>
<td>32</td>
<td>37</td>
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<td>Insect Research and Control</td>
<td>32</td>
<td>33</td>
<td>28</td>
<td>18</td>
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<td>Quality Measurements</td>
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<td>34</td>
<td>29</td>
<td>19</td>
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<td>Soil Management and Plant Nutrition</td>
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<td>8</td>
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<tr>
<td>Meeting Room Floor Plans</td>
<td>43</td>
<td>60</td>
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Located in Foyer:
• Registration Desk
• Wireless Hotspot

Meeting Room Floor Plans

2nd Floor

- CEU Desk
- Galerie Rooms
- Preservation Hall (see next page for details)
- Cotton Crafts Store
- Internet Café

Marriott Hotel
Marriott Hotel Meeting Room Floor Plans

Marriott Hotel Preservation Hall
2nd Floor
Marriott Hotel
Meeting Room Floor Plans
3rd Floor
Marriott Hotel
Meeting Room Floor Plans

4th Floor

5th Floor

41st Floor Rooms
River Tower Elevator
St. Charles, Lafayette and Napoleon
Cotton Consultants Conference
Monday, January 6, 2014

COTTON CONSULTANTS CONFERENCE - UPDATE FROM SPONSORS
Mardi Gras Ballroom Salon D (New Orleans Marriott) - 1:00 PM-1:40 PM

1:00 PM  Welcome
1:05 PM  Americot
1:10 PM  Bayer CropScience
1:15 PM  Cheminova
1:20 PM  Dow AgroSciences/Phytogen
1:25 PM  Monsanto
1:30 PM  Syngenta
1:35 PM  Discussion

NEW DEVELOPMENTS FROM INDUSTRY - CONSULTANTS SESSION
Mardi Gras Ballroom Salon D (New Orleans Marriott) - 1:40 PM-6:00 PM

1:40 PM  Today’s Seed Treatments – Opportunities and Challenges!
Andy LaVigne, American Seed Trade Association, Alexandria, VA

1:50 PM  A New App for Choosing and Rating Pest Control Options in Cotton
Zach Sheely, Agworld, Windsor, CO and Ryan W. Kurtz, Cotton Inc., Cary, NC

2:00 PM  Spray Drift Reduction Technology in the Application of Pesticides for Row and Field Crops through the Use of Broadcast Spray Hoods
Steve Claussen, Willmar Fabrication, LLC, Willmar, MN

2:10 PM  Fast Start Performance: A New Solution for Cotton Growers
James F Hadden, Syngenta, Tifton, GA

2:20 PM  New Fierce Herbicide for Cotton
Frank Carey, Valenta USA, Olive Branch, MS and John Cranmer, Valenta USA, Cary, NC

2:30 PM  Evaluation of F9312, a Pyroxasulfone-Based Herbicide, for Weed Control in Cotton
D. Scott Akin, FMC Corporation, Monticello, AR, Sam Wilson, FMC Corporation, Cary, NC, Henry (Rusty) Mitchell, FMC Corporation, Louisville, MS and Don Johnson, FMC Corporation, Madison, MS

2:40 PM  ET’X Herbicide/Defoliant: A New Formulation of Pyraflufen-Ethyl for Use in TX, NM, and OK
Scott Ludwig¹, Dustin Simmons² and James Adams², (1)Nichino America, Inc, Arp, TX, (2)Nichino America, Inc, Wilmington, DE

2:50 PM  Break

3:20 PM  Enlist™ Ahead: Novel Management and Stewardship Resources for the Enlist Weed Control System
Jonathan D Siebert¹, David Hillger², Ralph Lassiter³, Damon M Palmer¹, Eric Throson⁴, Byron Hendrix⁵, John Laffey⁶, Gary Finn⁶ and Bruce Maddy⁷, (1) Dow AgroSciences, Greenville, MS, (2)Dow AgroSciences, Noblesville, IN, (3) Dow AgroSciences, Cary, NC, (4)Dow AgroSciences, Indianapolis, IN, (5)Dow AgroSciences, Lakeville, MN, (6)Dow AgroSciences, Maryville, MO

3:30 PM  Weed Management Via the Roundup Ready® Xyten™ Crop System
Ty Witten, Joseph Sandbrink and Katie Robertson, Monsanto Company, St. Louis, MO
3:40 PM  New Cotton Varieties and Technology from Bayer CropScience
Kenny Melton¹, Steve P Nichols¹, James Walt Mullins² and Scott Baker³, (1) Bayer CropScience, Lubbock, TX, (2)Bayer CropScience, Collierville, TN, (3) Bayer CropScience, Memphis, TN

4:20 PM  PHY339WRF: An Early Maturing Cotton Variety With Superior Yield Potential and Fiber Quality

4:30 PM  2014 New Varieties from PhytoGen and Dow AgroSciences

4:40 PM  PHY575WRF: A Full Season Cotton Variety with Superior Yield Potential and Fiber Quality

4:50 PM  New Deltapine Brand Class of 14 Cotton Varieties
David W. Albers, Monsanto, St. Louis, MO

5:20 PM  NG 3306 B2RF, a New NexGen Variety for the High and Rolling Plains
Ken E Lege and Tom Brooks, Americot, Inc., Lubbock, TX

5:30 PM  Dyna-Gro/All-Tex CT13125 B2RFand CT12353 B2RF: New Varieties For 2014
Larry Stauber, Dyna-Gro Seed, Marion, AR

5:40 PM  All-Tex Edge B2RF: An Early Maturity Variety for the Southwest
Charlie Cook, All-Tex, Victoria, TX

5:50 PM  All-Tex Nitro B2RF: A High Quality, Mid-Full Variety
Charlie Cook, All-Tex, Victoria, TX

Tuesday, January 7, 2014

COTTON INSECT RESEARCH AND CONTROL - CONSULTANTS SESSION
Acadia (New Orleans Marriott) - 8:00 AM-9:30 AM

8:00 AM  Extenuating Circumstances on Efficacy of Insecticide Seed Treatments for Control of Thrips
Scott D Stewart¹, Cory Vineyard¹, Gus Lorenz², Angus Catchot³, Jeff Gore⁴, Derek L. Clarkson⁴ and J. Drake Copeland¹, (1)The University of Tennessee, Jackson, TN, (2)Cooperative Extension Service, University of Arkansas, Lonoke, AR, (3)Mississippi State University, Mississippi State, MS, (4)Mississippi State University, Stoneville, MS, (5)University of Arkansas Department of Entomology, Fayetteville, AR
8:30 AM  Impact of Neonicotinoid Insecticide Seed Treatments on Honeybees in the Mid-South
Gus Lorenz1, Scott D Stewart2, Angus Catchot3, Jeff Gore4, Don R Johnson5, Nichole M. Taillon1 and Don Cook6, (1)Cooperative Extension Service, University of Arkansas, Lonoke, AR, (2)The University of Tennessee, Jackson, TN, (3)Mississippi State University, Mississippi State, MS, (4)Mississippi State University, Stoneville, MS, (5)University of Arkansas, Lonoke, AR, (6)Mississippi State University Delta Research and Extension Center, Stoneville, MS

9:00 AM  Value of Neonicotinoids in Mid-South Cotton
Jeff Gore, Mississippi State University, Stoneville, MS, Angus Catchot, Mississippi State University, Mississippi State, MS, Don Cook, Mississippi State University Delta Research and Extension Center, Stoneville, MS and Lawrence L. Falconer, Delta Research & Extension Center, Mississippi State University Extension Service, Stoneville, MS

COTTON WEED SCIENCE RESEARCH - CONSULTANTS SESSION
Acadia (New Orleans Marriott) - 9:30 AM-11:00 AM
9:30 AM  Dicamba Drift in Cotton When Applied Under Field Conditions

9:45 AM  Dicamba Activity Influenced By Application Time of Day
A. Stanley Culpepper1, Peter M. Eure1, Tim Grey1 and Ty Fowler2, (1)University of Georgia, Tifton, GA, (2)Monsanto Co., St. Louis, MO

10:00 AM Break
10:30 AM Engenia™ Herbicide as a Weed Management Tool in Dicamba-Glufosinate Tolerant Cotton
Walter Thomas, John Frihauf, Steven Bowe and Luke Bozeman, BASF Corporation, Research Triangle Park, NC

10:45 AM Discussion

COTTON DISEASE COUNCIL - CONSULTANTS SESSION
Acadia (New Orleans Marriott) - 11:00 AM-12:30 PM
11:00 AM  Target spot: an emerging disease in southeastern Cotton
Robert C. Kemerait, University of Georgia, Tifton, GA

11:30 AM  Target spot Management options in Alabama
Austin Hagan, Auburn University, Auburn, AL

12:00 PM Panel Discussion
12:30 PM Lunch

COTTON AGRONOMY & PHYSIOLOGY - CONSULTANTS SESSION
Acadia (New Orleans Marriott) - 2:00 PM-3:30 PM
2:00 PM  2013 Onfarm Assessment of Cotton Variety Performance
Guy D. Collins, Crop & Soil Sciences, University of Georgia, Tifton, GA, Randy K. Boman, Oklahoma State University, Altus, OK, Charles H. Burmester, Auburn University, Belle Mina, AL, Darrin M Dodds, Mississippi State University, Mississippi State, MS, David Drake, Texas A&M AgriLife Extension, San Angelo, TX, Keith L Edmisten, North Carolina State University, Raleigh, NC, William Hunter Frame, Virginia Tech, Suffolk, VA, Rex Friesen, Southern Kansas Cotton Growers Cooperative, Anthony, KS, Dan D. Fromme, Texas A&M AgriLife Extension Service, Corpus Christi, TX, Michael A Jones, Clemson University, Florence, SC, Mark S Kelley, Texas A&M University, Lubbock, TX, Blake McClelland, University of Arkansas, Little Rock, AR,
2:20 PM  Effect of Variety, Irrigation, and Plant Growth regulator Use on Cotton Performance  
Jared R. Whitaker, University of Georgia, Statesboro, GA, Tom Barber, University of Arkansas Extension, Lonoke, AR, Darrin M Dodds, Mississippi State University, Mississippi State, MS, Michael A Jones, Clemson University, Florence, SC, Robert B. Hutmacher, University of California - Davis & West Side REC, Five Points, CA, David L. Wright, University of Florida, Quincy, FL, E. Randall Norton, University of Arizona, Solomon, AZ, Chris L Main, Phytogen, Medina, TN, John S Kruse, Koch Agronomic Services, LLC, Wichita, KS, Blake McClelland, University of Arkansas, Little Rock, AR and Robert L. Nichols, Cotton Incorporated, Cary, NC

2:40 PM  Cotton Cultivar Evaluation under Irrigated and Non-Irrigated Conditions  
Blake McClelland, University of Arkansas, Little Rock, AR, Tom Barber, University of Arkansas Extension, Lonoke, AR, Darrin M Dodds, Mississippi State University, Mississippi State, MS, Michael A Jones, Clemson University, Florence, SC and Chris L Main, Phytogen, Medina, TN

3:00 PM  Effect of Simulated 2,4-D drift on Cotton Growth, Development, and Yield  
Darrin M Dodds1, Guy D Collins2, A. Stanley Culpepper3, Seth Byrd2, Keith L Edmisten1, Peter A. Dotray4, David L. Wright5, Gaylon D. Morgan6, Paul A. Baumann1 and Misha R. Manuchehri4, (1)Mississippi State University, Mississippi State, MS, (2)University of Georgia, Tifton, GA, (3)North Carolina State University, Raleigh, NC, (4)Texas Tech University, Lubbock, TX, (5)University of Florida, Quincy, FL, (6)Texas A&M AgriLife Extension Service, College Station, TX

3:20 PM  Question & answer session

3:30 PM  COTTON SOIL MANAGEMENT AND PLANT NUTRITION - CONSULTANTS SESSION  
Acadia (New Orleans Marriott) - 4:00 PM-5:30 PM  
Presiding: M. Wayne Ebelhar

4:00 PM  Irrigation in a Changing World - Scheduling Tools and Strategies for Conserving Water in the Mid-South  
H. C. (lyle) pringle III and L. Jason Krutz, Mississippi State University, Stoneville, MS

4:20 PM  Fertility Management in a Changing World - Sources, Coatings, Inhibitors, and Enhancers  
Bobby R Golden, Delta Research and Extension Center, Stoneville, MS and M. Wayne Ebelhar, Delta Res. & Ext. Center, Mississippi State University, Stoneville, MS

4:40 PM  Tillage Effect on Early Growth and Nutrient Accumulation  
Philip J Bauer, Thomas F Ducey and Laurel Kluber, USDA-ARS, Florence, SC

5:00 PM  Crop Rotations with Increased Grain Crop Production  
M. Wayne Ebelhar, Delta Res. & Ext. Center, Mississippi State University, Stoneville, MS and Davis R. Clark, Mississippi State University, Stoneville, MS

5:20 PM  Discussion

5:30 PM  Adjourn
COTTON AGRONOMY & PHYSIOLOGY - TUESDAY EARLY MORNING - SESSION A

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

8:00 AM Yield, Growth, Rooting Pattern Response to Deficit Drip Irrigation
Robert B. Hutmacher, University of California - Davis & West Side REC, Five Points, CA, Mark P. Keeley, University of California Cooperative Extension, Plant Science Department, Shafter, CA, Steven D. Wright, University of California Cooperative Extension-Tulare/Kings Co., Tulare, CA and Raul Delgado, University of California Coop. Extension, Shafter, CA

8:15 AM Evaluation of Irrigation Practice: Comparing Sub-Surface Drip Irrigation to Traditional Methodologies in Arizona and Texas Using John Deere Field Connect
Clayton Morton1, Keith Patterson2, Jennifer Maloney2, Brian Pearman2, Chris Arnold2 and Craig Hornung3, (1)John Deere, Vista, CA, (2)John Deere Water, Vista, CA

8:30 AM Can Plant-Based Moisture Sensing Improve Irrigation Scheduling and Water Use Efficiency? Practical Cotton Remote Sensing Project, Israel 2103
Igal Flash, Phytech ltd., Kfar-Aza, Israel

8:45 AM The University of Georgia Smart Sensor Array (UGA SSA) for Scheduling Irrigation
George Vellidis1, Mike Tucker1, Vasili Liakos1, Calvin D Perry2 and David Reckford3, (1)University of Georgia, Tifton, GA, (2)University of Georgia, Camilla, GA, (3)Flint River Soil & Water Conservation District, Morgan, GA

9:00 AM Mid-Season Applications of Nitrogen in Cotton Using Crop Sensors
Dennis R Burns, LSU AgCenter, St. Joseph, LA, Brenda Tubana, LSU AgCenter, Baton Rouge, LA and Ralph L. Frazier, LSU AgCenter, Tallulah, LA

9:15 AM Interactions of Nitrogen Fertilization, Seeding Rates and Irrigation Regimes on Cotton Growth and Lint Production
William T. Pettigrew, USDA-ARS, Stoneville, MS

9:30 AM Exploring Uses of Tractor-Mounted Plant Health Sensors to Evaluate Cotton Growth and Insect Injury in Small Plots
Michael Brewer1, Ruixiu Sui2, Darwin Anderson1 and Juan A. Landivar3, (1)Texas A&M AgriLife Research, Corpus Christi, TX, (2)USDA ARS Crop Production Systems Research Unit, Stoneville, MS, (3)Texas AgriLife Research and Extension Center, Corpus Christi, TX

9:45 AM Evaluation of CSN-CROPGR-Cotton for Simulating Cotton Growth Responses to Irrigation, Nitrogen Fertilizer, Planting Density, and Free-Air Carbon Dioxide Enrichment in Central Arizona
Kelly Thorp1, Edward Barnes2, Doug Hunsaker1, Bruce Kimball1, Jeffrey White1 and Vijay Nazareth1, (1)USDA-ARS, Maricopa, AZ, (2)Cotton, Inc., Cary, NC

10:00 AM Early Harvest Aid Application Approach to Pima Cotton Defoliation
Steven D. Wright1, Robert B. Hutmacher2, Gerardo Banuelos3, Sonia I. Rios1, Kelly A. Hutmacher1, Daniel S. Munk4, Katherine A. Wilson3, Jonathan F. Wrobles5 and Mark P. Keeley6, (1)University of California Cooperative Extension-Tulare/Kings Co., Tulare, CA, (2)University of California Cooperative Extension, Plant Sciences Department, Five Points, CA, (3)University of California Cooperative Extension, Tulare, CA, (4)University of California Cooperative Extension, Fresno, CA, (5)University of California Cooperative Extension, Plant Science Department, Shafter, CA
COTTON AGRONOMY & PHYSIOLOGY GRADUATE STUDENT ORAL
COMPETITION - TUESDAY EARLY MORNING - SESSION B

Galerie 6 (New Orleans Marriott) - 8:00 AM-10:15 AM

8:00 AM  Development of an Available Soil Water Index to Characterize Site Water-Deficit Stress Experienced in Cotton Variety Trials

8:15 AM  Osmotic Adjustment in Commercial Cotton Cultivars under Drought Stress
Cristiane Pilon1, Derrick M Oosterhuis1, Glen L. Ritchie2 and Eliege Aparecida de Paiva Oliveira3, (1)University of Arkansas, Fayetteville, AR, (2)Plant and Soil Science, Texas Tech University, Lubbock, TX, (3)Universidade Estadual de Londrina, Londrina, Brazil

8:30 AM  The effect of Irrigation during Cotton squaring on lint yield and plant growth characteristics
Seth A. Byrd1, John L. Snider2, Jared R. Whitaker3, Calvin D. Perry4, Bobby J. Washington1, Ron B. Sorenson5, Daryl R. Chastain6 and Guy D. Collins7, (1)University of Georgia, Tifton, GA, (2)University of Georgia, Statesboro, GA, (3)University of Georgia, Athens, GA, (4)USDA-ARS-National Peanut Research Laboratory, Dawson, GA, (5)University of Georgia, Athens, GA, (6)Crop & Soil Sciences, University of Georgia, Tifton, GA

8:45 AM  Deficit Irrigation and Tillage effects on lint yield and profitability of four cotton cultivars in the Texas Rolling Plains
Ahmed Attia1, Nithya Rajan1, Glen Ritchie2, Amir Ibrahim3, Dirk Hays3 and Qingwu Xue1, (1)Texas A&M AgriLife Research-Vernon, Vernon, TX, (2)Plant and Soil Science, Texas Tech University, Lubbock, TX, (3)Department of Soil and Crop Sciences, Texas A&M University, College Station, TX, (4)Molecular and Environmental Plant Sciences, Texas A&M University, College Station, TX, (5)Texas A&M AgriLife Research and Extension Center, Amarillo, TX

9:00 AM  Cotton Canopy Temperature as a Means of Identifying Crop Stress and its Relationship with Photosynthesis and Yield
Murilo M. Maeda1, J. Tom Cothren1, Carlos J. Fernandez2 and Clay T. Lewis3, (1)Texas A&M University, College Station, TX, (2)Texas A&M AgriLife Research and Extension Center, Corpus Christi, TX

9:15 AM  Physiological Responses of Gossypium hirsutum to Contrasting Irrigation Regimes
Daryl R Chastain1, John L Snider2, Guy D Collins2, Jared R Whitaker3, Seth A Byrd3 and Calvin D Perry3, (1)University of Georgia, Athens, GA, (2)University of Georgia, Tifton, GA, (3)University of Georgia, Statesboro, GA

9:30 AM  Ground Cover Fraction from Green and Red Channels of a Digital Camera
Bablu Sharma, Texas Tech, Lubbock, TX, Glen L. Ritchie, Plant and Soil Science, Texas Tech University, Lubbock, TX and Nithya Rajan, Texas A&M AgriLife Research-Vernon, Vernon, TX

9:45 AM  High Temperature Related Cellular Adjustments during Flowering
Toby R FitzSimons, University of Arkansas, Fayetteville, AR

10:00 AM  Management Practices to Control Premature Senescence in Bt Cotton
Muhammad Faisal Bilal1, Muhammad Farrukh Saleem2, Muhammad Ashfaq Wahid3, Amir Shakeel1, Andrew French4 and Fahd Rasul1, (1)Visiting scientist at U.S. Arid Land Agricultural Research Center, Maricopa, AZ, (2)Department of Agriculture,, Faisalabad, Pakistan, (3)Department of Plant Breeding and Genetics,, Faisalabad, Pakistan, (4)USDA-ARS, Maricopa, AZ
10:30 AM  Comparison of Cotton Yield Components under Three Water Regimes
Cameron Oliver, Phytogen Cotton seed, Lubbock, TX

10:45 AM  An Assessment of Poultry Litter Based Biochars and Urea in Field-Grown Cotton
James M Burke, David E Longer and Derrick M Oosterhuis, University of Arkansas, Fayetteville, AR

11:00 AM  Impact of Nitrogen Rate on Tarnished Plant Bug Populations and Control
Chase A. Samples1, Darrin M Dodds1, Jeff Gore2, Angus Catchot1, Bobby R Golden3, Jac Varco4, Tyler H. Dixon4, Daniel Z Reynolds4 and J. Drake Copeland4, (1)Mississippi State University, Mississippi State, MS, (2) Mississippi State University, Stoneville, MS, (3)Delta Research and Extension Center, Stoneville, MS

11:15 AM  Impact of Nitrogen Application Rate and Plant Growth Regulator Application on Double-Cropped Cotton
Tyler H Dixon5, Darrin M Dodds5, J. Drake Copeland5, Daniel Z Reynolds5, Chase A. Samples6 and Jac Varco7, (1)Mississippi State, Starkville, MS, (2) Mississippi State University, Mississippi State, MS

11:30 AM  The Effects of Branch Removal on Yield Parameters across Differing Irrigation Regimes
Landon Crotwell1, Tom Cothren2, Frank Hons2, Amir Ibrahim1 and Clay T. Lewis1, (1)Texas A&M AgriLife Research, College Station, TX, (2)Texas A&M University, College Station, TX

5:15 PM - 7:00 PM  Business Meeting

8:00 AM  A Smartphone App for Scheduling Irrigation on Cotton
George Vellidis1, Vasillis Liakos1, Calvin D Perry2, Mike Tucker2, Edward Barnes3, Guy D Collins4 and John L Snider5, (1)University of Georgia, Tifton, GA, (2)University of Georgia, Camilla, GA, (3)Cotton, Inc., Cary, NC

8:15 AM  Performance of Delta Pine Cotton Varieties Based on Water Use Efficiency
Douglas Jost1, David W. Albers2, Eric Best3 and Jorge Cuarezma4, (1)Monsanto, Garden City, TX, (2)Monsanto, St. Louis, MO, (3)Monsanto, Lubbock, TX

8:30 AM  Efficacy of Display as a Cotton Harvest Aid in the Texas High Plains
Mark S Kelley1, Kristie Keys1, Hayden Alexander1 and Don Johnson2, (1) Texas A&M Agrilife Extension Service, Lubbock, TX, (2)FMC Corporation, Madison, MS

8:45 AM  Development of an Industry-Wide Standard for Leaf Hairiness
Gaylon D. Morgan1, Texas A&M Agrilife Extension Service, College Station, TX, Fred M Bourland, University of Arkansas, Keiser, AR, J. LaDon Day, University of Georgia, Griffin, GA, Jane K Dever, Soil & Crop Science, Texas A&M AgriLife Research, Lubbock, TX, Dan D. Fromme, Texas A&M AgriLife Extension Service, Corpus Christi, TX and Edward Barnes, Cotton, Inc., Cary, NC
 Symptoms and Yield Loss from 2,4-D Exposure: A Case Study
Rex Friesen, Southern Kansas Cotton Growers Cooperative, Anthony, KS and Robert L. Nichols, Cotton Incorporated, Cary, NC

Prospects of Glandless Cotton Production in New Mexico
John Idowu1, Jinfa Zhang1, Robert Flynn2, Jane Breen Pierce2, Tom Wedegaertner2, Jodi Scheffler2 and Tracey Carrillo2, (1)New Mexico State Univ., Las Cruces, NM, (2)New Mexico State University, Artesia, NM, (3) Cotton Incorporated, Cary, NC, (4)USDA-ARS, Stoneville, MS

Relative Maturity of NexGen Varieties
Ken E Lege, Americot, Inc., Lubbock, TX

Combining GIS, Remote Sensing, and Simulation Modeling For Spatial Analysis of Seed Cotton Yield and Evapotranspiration
Kelly Thorp, Doug Hunsaker, Andrew French and Eduardo Bautista, USDA-ARS, Maricopa, AZ

COTTON AGRONOMY & PHYSIOLOGY SPECIAL SESSION: LINKING PHYSIOLOGY TO MANAGEMENT - WEDNESDAY EARLY MORNING - SESSION A

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

Plant-Based Irrigation Scheduling
John L Snider, University of Georgia, Tifton, GA and Daryl R. Chastain, University of Georgia, Athens, GA

Nutrient Uptake of Cotton at Various Physiological Stages
Charles H. Burmester, Auburn University, Belle Mina, AL

Remote Sensing for N Management
Tyson B. Raper1, Jac Varco2 and Derrick M Oosterhuis1, (1)University of Arkansas, Fayetteville, AR, (2)Mississippi State University, Mississippi State, MS

Photosynthesis and Management
K. Raja Reddy, Mississippi State University, Mississippi State, MS

COTTON AGRONOMY & PHYSIOLOGY AWARDS PRESENTATION- WEDNESDAY LATE MORNING - SESSION A

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

Presentation of the Senior Cotton Physiologist of the Year Award

Presentation of the Young Cotton Physiologist of the Year Award

Presentation of the Graduate Student Awards - Oral Competition

Presentation of the Graduate Student Awards - Poster Competition

Cotton Disease Council
Tuesday, January 7, 2014

COTTON DISEASE COUNCIL - TUESDAY EARLY MORNING
Galerie 1 (New Orleans Marriott) - 8:00 AM-10:00 AM

Phytophthora Varieties with Resistance to Root-Knot Nematodes, Bacterial Blight and Fusarium Wilt
Mustafa McPherson, Phytophthora Seed Company, Leland, MS

Cotton Diseases: Approaches to Identifying and Utilizing Resistance in Commercial Breeding Programs
Dawn Fraser, Monsanto, Hartsville, SC
8:40 AM  Breeding Priorities in the University of Arkansas Cotton Breeding Program  
Fred Bourland, University of Arkansas, Keiser, AR

9:00 AM  Breeding for Disease Resistance in the World of Molecular Markers  
Megan Sweeney, Bayer CropScience, Lubbock, TX

9:20 AM  Breeding for Disease Resistance in Cotton: A Smaller Business Perspective  
Tom Brooks, Americot, Inc., Lubbock, TX

9:40 AM  Panel Discussion

COTTON DISEASE COUNCIL - TUESDAY EARLY AFTERNOON
Galerie 1 (New Orleans Marriott) - 2:00 PM-3:30 PM

2:00 PM  In Vitro Screening of Biological Control Agents on Meloidogyne incognita  
Ni Xiang, Kathy S. Lawrence, Joseph W. Kloepper and John A. McInroy, Auburn University, Auburn, AL

Amber L Smith, Kathy S. Lawrence, Kathryn Glass, Edzard van Santen and Julia Hu, Auburn University, Auburn, AL

2:30 PM  Verticillium Wilt On-Farm Cotton Cultivar Variety Evaluation  
Caroline J Land1, Kathy S. Lawrence1, Brad Meyer2 and Charles H. Burmester1, (1)Auburn University, Auburn, AL, (2)Agri-AFC, Decatur, AL, (3)Auburn University, Belle Mina, AL

2:45 PM  Reniform Resistant Soybean Varieties of Alabama  
David L Bailey1, Kathy S. Lawrence1, David Held1, Brad Meyer2 and Dennis Delaney1, (1)Auburn University, Auburn, AL, (2)Agri-AFC, Decatur, AL

3:00 PM  Fungicide Placement and Control of Target Spot in Cotton  
Austin Hagan, Auburn University, Auburn, AL, Randy Akridge, Brewton Agricultural Research Unit, Brewton, AL and Shawn Scott, E.V. Smith Research Center, Shorter, AL

COTTON DISEASE COUNCIL - TUESDAY LATE AFTERNOON
Galerie 1 (New Orleans Marriott) - 4:00 PM-6:00 PM

4:00 PM  Hitting the Target: Timing Effect of Fungicide Treatments on Different Upland Cotton Varieties Grown in Georgia  
R.J. Byrne, Meherrin Agriculture and Chemical Company, Coolidge, GA

4:15 PM  Impact of Environment and Crop Growth on Management of Target spot  
Jared T. Walls, Robert C. Kemerialt, Abraham M. Fulmer and Jason T Brock, University of Georgia, Tifton, GA

4:30 PM  Further Studies on the Control of Target Spot with Fungicides  
Austin Hagan1, Malcomb Pegues2 and Jarrod Jones2, (1)Auburn University, Auburn, AL, (2)Gulf Coast Research and Extension Center, Fairhope, AL

4:45 PM  Fungal Endophyte-Nematode Interactions in Cotton: Is the Effect Endophytic and Does It Work in the Field?  
Wenqing Zhou1, Terry A. Wheeler2, James L Starr3 and Gregory A Sword1, (1) Texas A&M University, College Station, TX, (2)Texas A&M AgriLife Research, Lubbock, TX, (3)Formerly with Texas A&M University, TX

5:00 PM  Two Cotton Begomoviruses Found in Brazil  
Lucia Vieira Hoffmann1, Sona Arun Jain2, Mariana Martins Severo Almeida3, Laisa Nogueira Allen4, Alice Kakuza Inoue Nagata4, Josias Correa Faria4, Fernanda O C Magalhães1, Nelson D Suassuna1, Thania Gonçalves Ribeiro1 and Paulo Augusto Vianna Barroso1, (1)Embrapa, SANTO ANTONIO DE GOIAS, Brazil, (2)Universidade Federal de Sergipe, Sao Cristovao, Brazil, (3)Universidade de Brasilia, Brasilia, Brazil, (4)Embrapa, Brasilia, Brazil
Wednesday, January 8, 2014

COTTON DISEASE COUNCIL - WEDNESDAY EARLY MORNING

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

8:00 AM Efficacy of Hot Water and Fungicide Treatments on Viability of Fusarium oxysporum f. sp. vasinfectum Race 4 in Infected Cotton Seed

Hung Kim Doan¹, R M Davis¹ and Timothy Anderson², (¹)University of California, Davis, Department of Plant Pathology, Davis, CA, (²)Phytogen Seed Company, Corcoran, CA

8:15 AM 2012-2013 US Survey of Fusarium oxysporum f. sp. vasinfectum Distribution

Amanda Cianchetta, University of California, Davis, Davis, CA and R M Davis, University of California, Davis, Department of Plant Pathology, Davis, CA

8:30 AM Fusarium Race 4 Host Plant Resistance: Upland and Pima Screening

Robert B. Huttmacher¹, Grant Poole², Steven D. Wright¹, Mauricio Ulloa⁴, R M Davis⁵, Mark P. Keeley² and Gerardo Banuelos¹, (¹)University of California - Davis & West Side REC, Five Points, CA, (²)University of California, Five Points, CA, (³)University of California Cooperative Extension-Tulare/Kings Co., Tulare, CA, (⁴)USDA-ARS, Lubbock, TX, (⁵)University of California, Davis, Department of Plant Pathology, Davis, CA, (⁶)University of California Cooperative Extension, Plant Science Department, Shafter, CA

8:45 AM Comparison of Virulence between Vascular Competent and Incompetent Fusarium Oxysporum f. sp. vasinfectum Pathotypes

Jinggao Liu¹, Alois A Bell², Robert D Stipanovic¹, Lorraine Puckhaber¹ and Robert L. Nichols³, (¹)USDA-ARS-CPRU, College Station, TX, (²)USDA-ARS, College Station, TX, (³)Texas A&M University, College Station, TX, (⁴)Cotton Incorporated, Cary, NC

9:00 AM Reduced Expression of an Early Enzyme in the Gossypol Pathway Reveals a Link between the Gossypol and Lacinilene Pathways during Fungal Infection

Tanya A Wagner, Jinggao Liu, Alois A Bell, Lorraine Puckhaber and Robert Stipanovic, USDA-ARS-CPRU, College Station, TX

9:15 AM Detoxification of the Fusarium Toxin Fusaric Acid by the Soil Fungus Aspergillus niger

Frankie K Crutcher¹, Jinggao Liu¹, Lorraine Puckhaber¹, Robert D Stipanovic¹, Sara E Duke¹, Alois A Bell², Howard J Williams¹ and Robert L. Nichols³, (¹)USDA-ARS-CPRU, College Station, TX, (²)USDA-ARS, College Station, TX, (³)Texas A&M University, College Station, TX, (⁴)Cotton Incorporated, Cary, NC

9:30 AM Towards Developing a Verde Plant Bug Vector Model

Enrique Gino Medrano, USDA-ARS, College Station, TX, James P Glover, Texas A&M University-Kingsville, Kingsville, TX and Michael Brewer, Texas A&M AgriLife Research, Corpus Christi, TX

9:45 AM Field Performance of Root-Knot Resistant Cotton Varieties from Phytogen

Mustafa McPherson¹, Joseph Johnson², Amy Lasley² and Dru Rush², (¹) Phytogen Seed Company, Leland, MS, (²)Phytogen, Leland, MS

COTTON DISEASE COUNCIL - WEDNESDAY LATE MORNING

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

10:30 AM Site Specific Management of Nematodes - Assessment for Use in Georgia

Robert C. Kemerais¹, Jared T. Walls¹, L. M. Giles², Andrea C. Loar³, Alejandro A. Calixto³ and Richard F. Davis⁴, (¹)University of Georgia, Tifton, GA, (²)Dow
Cotton Economics and Marketing Conference
Tuesday, January 7, 2014

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

10:30 AM Cotton Marketer of the Year Award
Joe Outlaw, TAMU, College Station, TX

11:00 AM Federal Crop Insurance: Representing Producers When this Farm Safety Net is Denied
Grant Ballard, Banks Law Firm, Little Rock, AR

11:25 AM Cotton Market Outlook
Jarral Neepre, CalCot, Bakersfield, CA

11:50 AM Discussion

COTTON ECONOMICS & MARKETING - TUESDAY EARLY AFTERNOON
Preservation Hall Studio 9 (New Orleans Marriott) - 1:30 PM-3:00 PM

1:30 PM A Study of the Cotton Sector of Turkey: Implications for US Cotton Exports
Srinivasa Kondu, Fumiko Yamazaki and Mechel Paggi, California State University, Fresno, Fresno, CA

1:45 PM Cotton Futures Price Variability: The Role of China’s Cotton Inventory Policy
Shaikh M Rahman and Bushra F Khan, Texas Tech University, Lubbock, TX

2:00 PM Does Yield and Lint Price Variability Affect Feasibility of Transgenic Cotton in West Texas?
Robert J Hogan, Texas A&M AgriLife Extension, Uvalde, TX and Jason L Johnson, Texas A&M AgriLife Extension, Stephenville, TX

2:15 PM Weather Extremes and the Costs of Cotton Acreage Abandonment
George B. Frisvold¹, Gan Jin² and Ting Bai³, (1)University of Arizona, Dept. of Ag & Resource Economics, Tucson, AZ, (2)University of Hawaii, Honolulu, HI

2:30 PM Additional Strategies for Drought Failed Cotton Crops
Robert J Hogan, Texas A&M AgriLife Extension, Uvalde, TX, Jason L Johnson, Texas A&M AgriLife Extension, Stephenville, TX and Bruce Carpenter, Texas A&M AgriLife Extension, Fort Stockton, TX

2:45 PM Effects of Climate Change Legislation on US Cotton Producers
George B. Frisvold. University of Arizona, Dept. of Ag & Resource Economics, Tucson, AZ and Kazim Konyar, California State University, San Bernardino, San Bernardino, CA

COTTON ECONOMICS & MARKETING POSTERS
Preservation Hall Studio 9 (New Orleans Marriott) - 1:30 PM-5:00 PM

1. Measuring Cotton Warehouse Financial Performance
Clayton Roots and John R. C. Robinson, Texas A&M University, College Station, TX

2. Precision Agriculture Adoption by Texas Cotton Producers: Trends and Drivers
Shyam Sivankutty Nair, Chenggang Wang, Eduardo Segarra, Jeffrey Johnson and Ye Wang, Texas Tech University, Lubbock, TX

3. Results of the 2013 Precision Farming Survey Of Mississippi Cotton Farmers
Lawrence L. Falconer, Delta Research & Extension Center, Mississippi State University Extension Service, Stoneville, MS and Steven W. Martin, Mississippi State University Extension Service, Verona, MS

4. Adoption of Cotton Precision Farming Technologies in Tennessee Margarita Velandia, Burton C English, Roland K Roberts, James Larson, Dayton M Lambert, Christopher Boyer and Xia Zhou, University Of Tennessee, Knoxville, TN

5. Economic Drivers of the Cotton Acreage Shift in Louisiana
Michael A Deliberto and Michael E. Salassi, Louisiana State University Ag Center, Baton Rouge, LA

6. Measuring the Risk of Crop Rotation Alternatives in the Louisiana Delta
Michael A Deliberto and Michael E. Salassi, Louisiana State University Ag Center, Baton Rouge, LA

7. Status of Cotton Precision Farming in North Carolina: 2013 Update Based on New Survey Data
Roderick M Rejesus and Michele Marra, North Carolina State University, Raleigh, NC

8. Comparison of Center Pivot Low Elevation Spray and Low Energy Precision Application of Irrigation on Cotton in the Texas Southern High Plains
James A Yates and Jeff Pate, Texas A&M AgriLife Extension Service, Lubbock, TX

9. Supply and Demand Response for Acreage Allocation of Arkansas Field Crops
Archie Flanders, University of Arkansas, Keiser, AR

10. Economics of Cover Crop and Supplemental Fertilizer in Strip Tillage Cotton
Amanda R Smith¹, W Don Shurley¹, Scott Tubbs¹, Michael Toews¹, Glendon H Harris¹ and Guy D. Collins¹, (1)University of Georgia, Tifton, GA, (2)Crop & Soil Sciences, University of Georgia, Tifton, GA
11. Cotton Root Rot Return to Treatment Calculator: A Producer Decision Aid
William J Thompson, Texas A&M AgriLife Extension Service, San Angelo, TX, David Drake, Texas A&M AgriLife Extension, San Angelo, TX and Rick R. Minzenmayer, Texas AgriLife Extension Service, Ballinger, TX

12. Results from 2013 Louisiana Cotton Production Survey
Krishna P Paudel and Ashok K Mishra, Louisiana State University, Baton Rouge, LA

13. Results from a Cotton Precision Farming Survey in Florida
Sherry Larkin, University of Florida, Gainesville, FL

COTTON ECONOMICS & MARKETING - TUESDAY LATE AFTERNOON
Preservation Hall Studio 9 (New Orleans Marriott) - 4:00 PM-5:00 PM

4:00 PM Legacy Planning For Landowners
Jacqueline N. Davie, Lincoln Financial Advisors, Houston, TX

4:15 PM Renting Cropland: Comparing Rental Options Using a Decision Tool
Leah M. Duzy, USDA-ARS, Auburn, AL

4:30 PM Cost and Benefit Analysis of Verticillium Wilt of Cotton in Southern High Plains of Texas
Praveen Sapkota1, Jeffrey Johnson1, Terry A. Wheeler2 and James P Bordovsky3, (1)Texas Tech University, Lubbock, TX, (2)Texas A&M AgriLife Research, Lubbock, TX, (3)Texas A&M AgriLife Research, Plainview, TX

4:45 PM Review of Cotton Price Elasticities Used by Forecasting Agencies
Rebecca Pandolph, ICAC, Washington, DC

Wednesday, January 8, 2014

COTTON ECONOMICS & MARKETING - WEDNESDAY EARLY MORNING
Preservation Hall Studio 9 (New Orleans Marriott) - 8:15 AM-10:00 AM

8:15 AM Economic Analysis of Heavy Rye Cover Crop to Control Resistant Palmer Amaranth in Cotton
W Don Shurley1, Amanda R Smith1, A. Stanley Culpepper1 and Robert L. Nichols2, (1)University of Georgia, Tifton, GA, (2)Cotton Incorporated, Cary, NC

8:30 AM Fieldprint Calculator: A Tool to Assess Sustainability
Andrew Jordan, Cotton Incorporated, Cordova, TN and Bill Robertson, National Cotton Council, Cordova, TN

8:45 AM Fieldprint Calculator: A Measurement of Agricultural Sustainability in the Texas High Plains
Kelsey Stokes1, Phillip Johnson1 and Bill Robertson2, (1)Texas Tech University, Lubbock, TX, (2)National Cotton Council, Cordova, TN

9:00 AM Influence of Variable Rate Fertilization and Cover Crops on Cotton Sustainability Using the Field to Market Fieldprint Calculator
Lori Duncan and Mike Buschermohle, University of Tennessee, Knoxville, TN

9:15 AM Understanding Why Farmers Adopt or Do Not Adopt Precision Farming Technology or Individual Precision Agriculture Technology Components
Krishna P Paudel1, Ashok K Mishra1, Mahesh Pandit1, Dayton Lambert2 and Jeanne Reeves3, (1)Louisiana State University, Baton Rouge, LA, (2)UT, Knoxville, TN, (3)Cotton Incorporated, Cary, NC

9:30 AM Results from a Cotton Precision Farming Survey across Fourteen Southern States
Christopher N Boyer1, Burton English1, Roland Roberts1, James Larson1, Dayton Lambert1, Margarita Velandia1, Vivian Zhou1, Sherry Larkin2, Michele Marra1, Roderick M Rejesus3, Lawrence L. Falconer4, Steven W. Martin5, Ashok K Mishra6, Krishna P Paudel6, Chenggang Wang7, Jeffrey Johnson7, Eduardo
Segarra7 and Jeanne Reeves8, (1)University of Tennessee, Knoxville, TN, (2) University of Florida, Gainesville, FL, (3)North Carolina State University, Raleigh, NC, (4)Delta Research & Extension Center, Mississippi State University Extension Service, Stoneville, MS, (5)Mississippi State University Extension Service, Verona, MS, (6)Louisiana State University, Baton Rouge, LA, (7)Texas Tech University, Lubbock, TX, (8)Cotton Incorporated, Cary, NC

9:45 AM The Bale Equivalence of US Apparel and Home Furnishing Imports
Jon Devine, Corporate Strategy and Program Metrics, Cotton Incorporated, Cary, NC

Cotton Engineering – Systems Conference
Tuesday, January 7, 2014

COTTON ENGINEERING-SYSTEMS - PRECISION AGRICULTURE AND IRRIGATION

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

1:30 PM Three-Year Study on Cotton Plant Height Mapping
Ruixiu Sui, USDA ARS Crop Production Systems Research Unit, Stoneville, MS

1:45 PM Monitoring Cotton Root Rot Infection in Fungicide-Treated Cotton Fields Using Airborne Imagery
Chenghai Yang1, Gary N. Odvody2, Rick R. Minzenmayer3, Robert L. Nichols4, Thomas Isakeit5, Alex Thomasson6, Carlos J. Fernandez7 and Juan A. Landivar8, (1)USDA-ARS, College Station, TX, (2)Texas AgriLife Research and Extension Center, Corpus Christi, TX, (3)Texas AgriLife Extension Service, Ballinger, TX, (4)Cotton Incorporated, Cary, NC, (5)Texas A&M University, College Station, TX

2:00 PM Cotton Yield Response to Variable Irrigation Capacity in the Texas High Plains
James P Bordovsky, Texas A&M AgriLife Research, Plainview, TX, Glen L. Ritchie, Plant and Soil Science, Texas Tech University, Lubbock, TX and Mark Kelley, Texas A&M AgriLife Extension, Lubbock, TX

2:15 PM Incorporating Soil Moisture Measurements with Plant Growth Monitoring
Michele L. Reba1, Tina Gray Teague2 and Erin J Kelly2, (1)USDA-ARS, State University, AR, (2)Arkansas State University - University of Arkansas Agricultural Experiment Station, State University, AR

2:30 PM Field Validation of Irrigation Planning Tools in Major Row Crops in Arkansas
Austin L Lewis1, Michele L. Reba2, Tina Gray Teague2, Chris G Henry4, Chris DeClerk5, Earl D Vories6 and D. Keith Morris1, (1)Arkansas State University, State University, AR, (2)USDA-ARS, State University, AR, (3)Arkansas State University - University of Arkansas Agricultural Experiment Station, State University, AR, (4)University of Arkansas, Stuttgart, AR, (5)Delta Plastics of the South, Little Rock, AR, (6)USDA-ARS, Portageville, MO

2:45 PM Developing an Effective Sensor-Based Irrigation Scheduling Technique for Cotton Production in Coastal Plain Soils
Xin Qiao1, Ahmad Khalillian1, Jose Payero1, Young Han2 and Charles Privette2, (1)Clemson University, Blackville, SC, (2)Clemson University, Clemson, SC

3:00 PM Using Ensemble-Based Forecasts as an Irrigation Planning Aid
Emily Christ1, Peter Webster1 and Guy D. Collins2, (1)Georgia Institute of Technology, Atlanta, GA, (2)Crop & Soil Sciences, University of Georgia, Tifton, GA
COTTON ENGINEERING-SYSTEMS - HARVESTING AND GINNING

Preservation Hall Studio 4 (New Orleans Marriott) - 4:00 PM-5:45 PM

4:00 PM  Bur Cotton Material Flow Characterization and Parameterization on a Wire Belt Conveyor
Wesley M Porter, University of Georgia, Tifton, GA, John D. Wanjura, USDA-ARS, Lubbock, TX, Randy K. Boman, Oklahoma State University, Altus, OK and Randy Taylor, Oklahoma State University, Stillwater, OK

4:15 PM  Spatial Turnout on Stripper Harvested Cotton
Wesley M Porter1, Randy Taylor2, John D. Wanjura3, Randy K. Boman4 and T. Shane Osborne4, (1)University of Georgia, Tifton, GA, (2)Oklahoma State University, Stillwater, OK, (3)USDA-ARS, Lubbock, TX, (4)Oklahoma State University, Altus, OK

4:30 PM  Evaluation of a Cotton Stripper Yield Monitor
John D. Wanjura1, Mark S Kelley2, Randy Taylor3, Wesley M Porter3, Edward Barnes4, Mathew G. Pelletier1 and Greg A Holt1, (1)USDA-ARS, Lubbock, TX, (2)Texas A&M AgriLife Extension Service, Lubbock, TX, (3)Oklahoma State University, Stillwater, OK, (4)Cotton, Inc., Cary, NC

4:45 PM  Using Yield Monitors to Harvest On-Farm Cotton Variety Trials
Randy Taylor1, Edward Barnes2, John D. Wanjura3, Randy K. Boman4, Wesley M Porter4, John Fulton4, Greg Pate2, George Vellidis1, Guy D. Collins2, Gaylon D. Morgan4, Mike Buschermohle10, Lori Gibson10 and Mark Kelley11, (1)Oklahoma State University, Stillwater, OK, (2)Texas A&M AgriLife Extension Service, Lubbock, TX, (3)USDA-ARS, Lubbock, TX, (4)Oklahoma State University, Altus, OK, (5)University of Georgia, Tifton, GA, (6)Auburn University, Auburn, AL, (7)E.V. Smith Research Center, Shorter, AL, (8)Crop & Soil Sciences, University of Georgia, Tifton, GA, (9)Texas A&M AgriLife Extension Service, College Station, TX, (10)University of Tennessee, Knoxville, TN, (11)Texas A&M AgriLife Extension, Lubbock, TX

5:00 PM  Managing Cotton Gin Inventory Systems: Systems Management Approach using Simulation
Jordan Grier, Calvin B Parnell and Russell McGee, Texas A&M University- Bio & Ag Engineering, College Station, TX

5:15 PM  Impact of Inert Mass Fraction on Exposable Dusts
Balaji Ganesan1, Calvin B Parnell2 and Russell Mcgee2, (1)Texas A&M University, college station, TX, (2)Texas A&M University- Bio & Ag Engineering, College Station, TX

5:30 PM  Separation of Particulate Matter Conveyed in High Temperature Gas Streams
Daniel R Luehrs, Calvin B Parnell and Russell McGee, Texas A&M University-Bio & Ag Engineering, College Station, TX

Cotton Ginning Conference

Tuesday, January 7, 2014

COTTON GINNING - TUESDAY EARLY AFTERNOON

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

1:30 PM  Quality of 2013 Cotton Crop
Robbie L Seals, USDA AMS Cotton and Tobacco Program, Memphis, TN

1:45 PM  Lint Contamination Prevention – What We Learned in 2013
Dale W Thompson, National Cotton Council, Cordova, TN

2:00 PM  An Update on the Development of an Industry-Wide Leaf Hairiness for Cotton Varieties
Gaylon D. Morgan, Texas A&M AgriLife Extension Service, College Station, TX, Fred M Bourland, University of Arkansas, Keiser, AR, J. LaDon Day, University of Georgia, Griffin, GA, Jane K Dever, Soil & Crop Science, Texas A&M AgriLife Research, Lubbock, TX, Edward Barnes, Cotton, Inc., Cary, NC
and Dan D. Fromme, Texas A&M AgriLife Extension Service, Corpus Christi, TX

2:15 PM  Proper Handling of Round Modules – from Field to Gin
Thomas D. Valco, USDA, ARS, Stoneville, MS

2:30 PM  Quality Ginning - Panel Discussion - Southwest
Jimmy Roppolo, United Ag, El Campo, TX

2:45 PM  Quality Ginning - Panel Discussion - West
Dwayne T. Alford, YUCO Gin, Inc. II, Yuma, AZ

3:00 PM  Quality Ginning - Panel Discussion - Mid-South
Jonathan D. McBride, Silver Creek Gin Co., Holly Bluff, MS

3:15 PM  Quality Ginning - Panel Discussion - Mid-South
Brad Williams, Burlison Gin, Burlison, TN

COTTON GINNING - TUESDAY LATE AFTERNOON

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

4:00 PM  Research Needs of Cotton Ginning Industry - Survey Results
Greg A Holt, USDA-ARS, Lubbock, TX, Harrison Ashley, Office of the President, National Cotton Ginners Assoc., Cordova, TN, Roger Isom, Western Agricultural Processors Association, Fresno, CA, Aaron Nelson, Texas Cotton Ginners Assoc., Austin, TX, Dennis “Dusty” Findley, Southeastern Cotton Ginners Assoc., Dahlonega, GA and Tim Price, Southern Cotton Ginners Assoc., Memphis, TN

4:15 PM  New Chieftain Down-Packing Press Offers Reliable Operation & Cost Savings
John Gregory Fiquett, Cherokee Fabrication Co., Inc, Salem, AL

4:30 PM  Innovations in Gin Software
Mike Taylor, EWR, INC., Memphis, TN

4:45 PM  Moisture Distribution in a Laboratory Microwave Dryer
Kevin D Baker, USDA, Agricultural Research Service, Mesilla Park, NM

5:00 PM  Roller vs. Saw - a Preliminary Assessment of the Benefits of Roller Ginning Australian Cotton
Marinus H van der Sluijs, CSIRO, Belmont, Australia

5:15 PM  Field Evaluation of Ginning System Upgrades
Ross D. Rutherford1, Jonathan D. McBride2, Benjamin C. McCray1, Daniel E. Gonzalez2 and Herman D. Wardlaw1, (1)Lummus Corporation, Lubbock, TX, (2)Silver Creek Gin Co., Holly Bluff, MS, (3)Lummus Corporation, Buenos Aires, Argentina, (4)Lummus Corporation, Memphis, TN

Wednesday, January 8, 2014

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

Preservation Hall Studios 2 & 3 (New Orleans Marriott) - 8:00 AM-12:00 PM
Presiding: Dwayne T. Alford

8:00 AM  Review of USDA “Masked” Flow Data for a Subset of U.S. Cotton Warehouses
Dale W Thompson, National Cotton Council, Cordova, TN

8:15 AM  Round Module Unwrapping
Mike Gvili, Advanced Sensing and Controls, Hudson, MA

8:30 AM  Ginning Advancements with Samuel Jackson
Will Gruben, Samuel Jackson Inc., Lubbock, TX

8:45 AM  Update on Machinery Developments from Cherokee
Steve Evans, Cherokee Fabrication Co., Inc., Lubbock, TX
9:00 AM  Evaluating a Device for Pneumatic Lint Cleaning
Derek P. Whitelock, Carlos B. Armijo and S. Ed Hughes, USDA-ARS
Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM

9:15 AM  High Speed / Variable Stroke Tramper
Joe W. Thomas¹, William D. Beeland¹, Ross D. Rutherford² and Daniel E. Riggs¹, (1)Lummus Corporation, Savannah, GA, (2)Lummus Corporation, Lubbock, TX

9:30 AM  Microwave Bale Moisture Measurements; History and Update
Mathew G. Pelletier, Greg A Holt and John D. Wanjura, USDA-ARS, Lubbock, TX

9:45 AM  Continued Research on Gin Saw Tooth Design
S. Ed Hughes¹, Carlos Armijo², Chris Delhom³ and Derek P. Whitelock¹, (1) USDA-ARS Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM, (2)USDA-ARS, Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM, (3)USDA, ARS, New Orleans, LA

10:00 AM  Break

10:30 AM  Gin Industry update - Discussion
Harrison Ashley, Office of the President, National Cotton Ginners Assoc., Cordova, TN

10:45 AM  The Accuracy of Cotton Bale Moisture Sensors Used in a South Texas Commercial Gin with Lint Moisture Restoration
Richard K Byler, Cotton Ginning Research Unit, Stoneville, MS

11:00 AM  Energy Monitoring in Gins- 2013 Update
Robert G. Hardin, IV, Cotton Ginning Research Unit, USDA-ARS Cotton Ginning Unit, Stoneville, MS and Paul A. Funk, USDA-ARS Southwestern Cotton Ginning Research Unit, Mesilla Park, NM

11:15 AM  Effect of Seed Cotton Cleaner Speeds on Machine Performance
Robert G. Hardin, IV, Cotton Ginning Research Unit, USDA-ARS Cotton Ginning Unit, Stoneville, MS

11:30 AM  Fiber Quality Challenges Facing the Cotton Industry
Chris Delhom, USDA, ARS, New Orleans, LA

11:45 AM  Student Competition Award Presentations
Brock Faulkner, Texas A&M University, College Station, TX

Cotton Improvement Conference
Tuesday, January 7, 2014

COTTON IMPROVEMENT - TUESDAY EARLY MORNING
Preservation Hall Studios 7 & 8 (New Orleans Marriott) - 8:00 AM-10:00 AM
Presiding: Jane Dever

8:00 AM  Trends in United States Cotton Yield Productivity Since 1980
Todd Campbell¹, Debbie Boykin², Zaid Abdo¹ and Bill Meredith², (1)USDA-ARS, Florence, SC, (2)USDA-ARS, Stoneville, MS, (3)USDA-ARS, Athens, GA

8:15 AM  Yield Adjustment for Small Plot Yield Trials on the High Plains of Texas
Valerie M Morgan, Jane Dever and Carol M Kelly, Texas A&M Agrilife Research, Lubbock, TX

8:30 AM  Addressing Adventitious Presence in Public Germplasm
Ted P Wallace, Mississippi State University, Mississippi State, MS, Don C Jones, Cotton Incorporated, Cary, NC and Richard Percy, USDA-ARS, College Station, TX
8:45 AM  Facilitating the Use of Wild Species Germplasm for Cotton Improvement via CS Lines
David M. Stelly1, Dwaine A. Raska2, Sukumar Saha3, Johnie N Jenkins3, Jack C McCarty4, Jane K Dever4, Mark D. Arnold4, Heather D. Flippin5 and Don C Jones6, (1)Texas A&M University-Dept. Soil & Crop Sciences, College Station, TX, (2)Texas A&M University, College Station, TX, (3)USDA-ARS, Mississippi State, MS, (4)Soil & Crop Science, Texas A&M Agrilife Research, Lubbock, TX, (5)Texas A&M Agrilife Research, Lubbock, TX, (6)Cotton Incorporated, Cary, NC

9:00 AM  Phenotyping Drought Tolerance in Cotton (Gossypium hirsutum, l.)
Austin C Terhune, Texas A&M Agrilife, College Station, TX and Steve Hague, Texas A&M University, College Station, TX

9:15 AM  Emergence of a Cotton SNP Chip from Consortium-Based Collaborations
Amanda M. Hulse1, David M. Stelly2, Allen Van Deynze3, Hamid Ashrafi3, Iain Wilson4, Qianhao Zhu5 and Don C Jones6, (1)Texas A&M University, College Station, TX, (2)Texas A&M University-Dept. Soil & Crop Sciences, College Station, TX, (3)University of California, Davis, CA, (4)CSIRO Plant Industry, Black Mountain ACT 2601, Australia, (5)CSIRO Plant Industry, Canberra, ACT 2601, Australia, (6)Cotton Incorporated, Cary, NC

9:30 AM  Mapping and Genomic Targeting of the Major Leaf Shape Gene (L) in Upland Cotton (Gossypium hirsutum L.)
Ryan J Andres, NC State University, Raleigh, NC

9:45 AM  Deep Sequencing Identifies Cotton miRNA Roles in Response to Stress of Drought and Salinity
Fuliang Xie, Runrun Sun and Baohong Zhang, East Carolina University, Greenville, NC

COTTON IMPROVEMENT - TUESDAY LATE MORNING
Preservation Hall Studios 7 & 8 (New Orleans Marriott) - 10:30 AM-12:00 PM
Presiding: E. Margaret Shields

10:30 AM Cotton Fleahopper (Pseudatomoscelis seriatus) Damage in Upland Cotton: Breeding towards Increased Resistance
Laura Ann Mcloud and Steve Hague, Texas A&M University, College Station, TX

10:45 AM Cotton Germplasm evaluation for reaction to Corynespora cassiicola
Jenna K. May, David B. Weaver, Katheryn K. Lawrence and Austin Hagan, Auburn University, Auburn, AL

11:00 AM Effects of Plant Pubescence on Spinning Performance in Upland Extra Long Staple Cotton
Kari Hugie1, Wayne Smith1, Eric F Hequet2 and Steve Hague1, (1)Texas A&M University, College Station, TX, (2)Texas Tech University, Lubbock, TX

11:15 AM Field Performance and Heritability of Thrips Resistance for Cotton Variety Development
Dylan Q Wann1, Jane Dever1, Megha Parajulee2, Mark D Arnold2 and Heather D Flippin1, (1)Texas A&M Agrilife Research and Texas Tech University, Lubbock, TX, (2)Texas A&M Agrilife Research, Lubbock, TX

11:30 AM Genetic Gain through Breeding for Resistance to Rhizoctonia solani and Pythium ultimum in Cotton Seedlings
Whitney M. Jones, Wayne Smith and Jim Starr, Texas A&M University, College Station, TX

11:45 AM Validation and Testing of a Fiber Length QTL on Chr.25
Nino Brown1, Pawan Kumar1, Andrew Paterson2 and Peng Wah Chee1, (1) University of Georgia, Tifton, GA, (2)University of Georgia, Athens, GA
COTTON IMPROVEMENT - TUESDAY EARLY AFTERNOON

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

Presiding: Carol M Kelly

1:30 PM  Structural and Functional Genomics Analyses of Two near Isogenic Cottons (*Gossypium hirsutum* L.) Lines Differing in Fiber Maturity

**Hee Jin Kim**1, David D Fang1, Linghe Zeng2, Christopher Delhom2, Hong S Moon1 and Yuhong Tang2, (1)USDA-ARS, Southern Regional Research Center, New Orleans, LA, (2)USDA-ARS-MSA, Stoneville, MS, (3)Cotton Structure & Quality, USDA-ARS-SRRC, New Orleans, LA, (4)Samuel Roberts Noble Foundation, Ardmore, OK

1:45 PM  Diallel Analysis for Cotton Fiber Standard Fineness

**Neha Kothari**, Texas A&M AgriLife Research, College Station, TX, Steve Hague, Texas A&M University, College Station, TX, Eric F Hequet, Texas Tech University, Lubbock, TX and Jane Dever, Texas A&M AgriLife Research, Lubbock, TX

2:00 PM  Transcript Profiling and Marker Analysis of the Short Cotton Fiber Mutant Ligon Lintless-1

**David D Fang**1, Matthew Gilbert2, Rickie Turley3, Hee Jin Kim1, Gregory Thyssen2, Ping Li1, Christopher Delhom4 and Marina Naoumkina5, (1)USDA-ARS, Southern Regional Research Center, New Orleans, LA, (2)USDA-ARS, New Orleans, LA, (3)USDA-ARS, Stoneville, MS, (4)Cotton Structure & Quality, USDA-ARS-SRRC, New Orleans, LA

2:15 PM  Genetic Mapping of Cotton Fiber Quality Using Two Near Isogenic Upland Cotton Lines Differing in Fiber Bundle Strength

**Md Sariful Islam**1, Linghe Zeng1, Christopher Delhom3, Xianliang Song4, Hee Jin Kim1, Ping Li1, and David D Fang1, (1)USDA-ARS, Southern Regional Research Center, New Orleans, LA, (2)USDA-ARS-MSA, Stoneville, MS, (3) Cotton Structure & Quality, USDA-ARS-SRRC, New Orleans, LA, (4)Shandong Agricultural University, Shandong, China

2:30 PM  Inheritance of Yield and Fiber Quality in Tetraploid Cottons Revealed By CSILs Analysis

**Tianzhen Zhang**, National Key Laboratory of Crop Genetics and Germplasm Enhancement, Nanjing, China

2:45 PM  Business Meeting and Awards Presentations

COTTON IMPROVEMENT - TUESDAY LATE AFTERNOON

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

Presiding: Steve Hague

4:00 PM  Comparative Performance of Reniform Nematode Resistant Germplasm Lines

**Roelof B. Sikkens**1, David B. Weaver1, Kathy S. Lawrence1 and Robert L. Nichols2, (1)Auburn University, Auburn, AL, (2)Cotton Incorporated, Cary, NC

4:15 PM  Towards the Development of Saturated Linkage Map and Functional Markers for Root-Knot Nematode (RKN) Resistance Loci in Upland Cotton

**Pawan Kumar**1, Yajun He1, Xinlian Shen1, Rippy Singh1, Richard F Davis2, Robert L. Nichols2 and Peng Wah Chee3, (1)University of Georgia, Tifton, GA, (2)USDA-ARS Crop Protection and Management Research Unit, Tifton, GA, (3)Cotton Incorporated, Cary, NC

4:30 PM  New Germplasm Lines with High Yield and Fiber Quality Combined with Nematode Resistance

**Alois A. Bell**1, Jose Quintana1, David M. Stelly2, Xiuting Zheng3 and Robert L. Nichols1, (1)USDA-ARS-SPARC, College Station, TX, (2)Texas A&M University-Dept. Soil & Crop Sciences, College Station, TX, (3)Cotton Incorporated, Cary, NC

4:45 PM  Accomplishments of a 10-Year Initiative to Develop Host Plant Resistance to Root-Knot and Reniform Nematodes in Cotton
Wednesday, January 8, 2014

COTTON IMPROVEMENT - WEDNESDAY EARLY MORNING

Preservation Hall Studios 7 & 8 (New Orleans Marriott) - 8:15 AM-10:00 AM

Presiding: Pawan Kumar

8:15 AM New data and functionality in CottonGen: an Integrated Genomics, Genetics and Breeding database for the Cotton Research Community Jing Yu1, Sook Jung1, Chun-Huai Cheng1, Stephen Ficklin1, Taein Lee1, Ping Zheng1, Don C Jones2, Richard Percy3 and Dorrie Main1, (1)Washington State University, Pullman, WA, (2)Cotton Incorporated, Cary, NC, (3)USDA-ARS, College Station, TX

8:30 AM Integrated Approach to Breeding for Enhanced Utilization of West Texas Cotton Carol M Kelly1, Jane K Dever1 and Eric F Hequet2, (1)Texas A&M AgriLife Research, Lubbock, TX, (2)Texas Tech University, Lubbock, TX

8:45 AM High-Throughput Phenotyping of Drought-Adaptive Traits in Cotton Don C Jones1, Mike A Gore2, Pedro A Sanchez3, David Fang4, Andrew French4, Doug Hunsker5, Jeffrey White6 and Jesse Poland7, (1)Cotton Incorporated, Cary, NC, (2)Cornell University, Ithaca, NY, (3)University of Arizona, Maricopa, AZ, (4)USDA-ARS, New Orleans, LA, (5)USDA-ARS, Maricopa, AZ, (6)USDA-ARS, Manhattan, KS

9:00 AM High Throughput Canopy Mapping of Cotton with LIDAR Andrew French1, Mike A Gore2, Bob Strand3, Kelvin Rodriguez4, Muhammad Faisal Bilali5 and Pedro Andrade-Sanchez6, (1)USDA-ARS, Maricopa, AZ, (2)Cornell University, Ithaca, NY, (3)U.S. Arid Land Agricultural Research Center, Maricopa, AZ, (4)Visiting scientist at U.S. Arid Land Agricultural Research Center, Maricopa, AZ, (5)University of Arizona, Maricopa, AZ

9:15 AM Mining Cotton Germplasm Resources to Fight Cotton Leaf Curl Virus Jodi Scheffler1, James Frelichowski2, Janna Love3 and Wesley Malloy3, (1)USDA-ARS, Stoneville, MS, (2)USDA-ARS, College Station, TX, (3)National Cotton Council, Colima, Mexico

9:30 AM A Major Locus for Fusarium Wilt Race 4 Resistance Identified in *Gossypium hirsutum* Acala NemX Using an Interspecific Progeny with *G. barbadense* Congli Wang, NIGA-CAS, Harbin, China, Mauricio Ulloa, USDA-ARS, Lubbock, TX and Philip A Roberts, Department of Nematology, Riverside, CA
Characterization of an Abscisic Acid Specific Glycosyltransferase from Cotton (Gossypium hirsutum L.)
Marina Naoumkina, Matthew K Gilbert, John M Bland, Jay M Shockey, Heping Cao, Doug J Hinchliffe and David D Fang, USDA-ARS SRRC, New Orleans, LA

COTTON IMPROVEMENT - WEDNESDAY LATE MORNING
Preservation Hall Studios 7 & 8 (New Orleans Marriott) - 10:30 AM-11:45 AM
Presiding: Fred Bourland

10:30 AM Host Plant Resistance to Tarnished Plant Bug in Arkansas: I. Variation among Genotypes in Small Plots
Fred Bourland, University of Arkansas, Keiser, AR, Glenn Studebaker, University of Arkansas Cooperative Extension Service, Keiser, AR and Tina Gray Teague, Arkansas State University - University of Arkansas Agricultural Experiment Station, State University, AR

10:45 AM Host Plant Resistance to Tarnished Plant Bug in Arkansas: II. Confirmation of Small Plot Data
Glenn Studebaker, University of Arkansas Cooperative Extension Service, Keiser, AR, Tina Gray Teague, Arkansas State University - University of Arkansas Agricultural Experiment Station, State University, AR and Fred Bourland, University of Arkansas, Keiser, AR

11:00 AM Host Plant Resistance to Tarnished Plant Bug in Arkansas: III. Laboratory Evaluation
Tina Gray Teague, Arkansas State University - University of Arkansas Agricultural Experiment Station, State University, AR, Fred Bourland, University of Arkansas, Keiser, AR and Glenn Studebaker, University of Arkansas Cooperative Extension Service, Keiser, AR

11:15 AM Nutrient Component, Cell Ultrastructures, and Cd Accumulation and Subcellular Localization in the Cottonseeds of Three Upland Cotton Cultivars under Cd Stress
Shuijin Zhu, Zhejiang University, Hangzhou, China

11:30 AM Development of a Complete Set of Alien Chromosome Addition Lines from Gossypium australite F. Mueller into Gossypium hirsutum L
Baoliang Zhou, Nanjing Agricultural University, Nanjing, China

Cotton Insect Research and Control Conference
Tuesday, January 7, 2014

COTTON INSECT RESEARCH AND CONTROL ROUNDTABLE
Galerie 3 (New Orleans Marriott) - 11:00 AM-12:00 PM

COTTON INSECT RESEARCH AND CONTROL - TUESDAY EARLY AFTERNOON - STUDENT PAPER COMPETITION
Galerie 2 (New Orleans Marriott) - 1:00 PM-3:15 PM

1:00 PM Susceptibility of Cry1F Resistant Fall Armyworms, Spodoptera frugiperda, to Cotton Expressing Pyramided Bt Toxins
T. Shelby Williams, Sebe Brown, David D Kerns, Nathaniel Jones, Jenna Lindsey and Karla Emfinger, LSU AgCenter, Winnsboro, LA

1:15 PM The Effects of Pre-Emergence Herbicides on Neonicotinoid Seed Treatments
Cory Vineyard, Scott D Stewart, Lawrence E. Steckel and Heather Kelly, The University of Tennessee, Jackson, TN
1:30 PM  The Interaction of Pre Emerge Herbicides and Insecticide Seed Treatments and Its Effects on Early Season Cotton Derek L. Clarkson1, Gus Lorenz2, Nichole M. Taillon2, Ben C. Thrash1, Luis Orellana1, Sean L. Flynn1 and Mallory Everett1, (1)University of Arkansas Department of Entomology, Fayetteville, AR, (2)Cooperative Extension Service, University of Arkansas, Lonoke, AR

1:45 PM  Using Insecticide Mixes to Improve Tarnished Plant Bug Control Ben C. Thrash1, Gus Lorenz2, Nichole M. Taillon2, Andrew Plummer2, Michael Chaney2, Derek L. Clarkson1, Mallory Everett1, Sean L. Flynn1 and Luis Orellana1, (1)University of Arkansas Department of Entomology, Fayetteville, AR, (2)Cooperative Extension Service, University of Arkansas, Lonoke, AR

2:00 PM  Imidacloprid Application Method Offers Potential One and Done Treatment Option for Control of High Thrips Populations in Upper Southeast Todd A Spivey1, Jack S Bacherel2, Keith L Edmisten2 and Dominic D Reisig3, (1)NCSU-Crop Science, Raleigh, NC, (2)North Carolina State University, Raleigh, NC, (3)North Carolina State University Entomology, Plymouth, NC

2:15 PM  Rainfastness of Selected Insecticides with Adjuvants for Control of Lygus lineolaris in Cotton Sean L. Flynn1, Gus Lorenz2, Glenn Studebaker3, Nichole M. Taillon2, Andrew Plummer2, Michael Chaney2, Ben C. Thrash1, Derek L. Clarkson1, Luis Orellana1, Mallory Everett1 and Logan Towles3, (1)University of Arkansas Department of Entomology, Fayetteville, AR, (2)Cooperative Extension Service, University of Arkansas, Lonoke, AR, (3)University of Arkansas Cooperative Extension Service, Keiser, AR

2:30 PM  Populations of Foraging Honeybees in Mid-South Cotton and Other Crops Adam Whalen1, Angus Catchot1, Scott D Stewart2, Gus Lorenz3, Jeff Gore4, Don Cook5 and Fred Musser1, (1)Mississippi State University, Mississippi State, MS, (2)The University of Tennessee, Jackson, TN, (3)Cooperative Extension Service, University of Arkansas, Lonoke, AR, (4)Mississippi State University, Stoneville, MS, (5)Mississippi State University Delta Research and Extension Center, Stoneville, MS

2:45 PM  Impact of Leaf Hairiness and Planting Date on Tarnished Plant Bug, Lygus lineolaris (Palisot de Beauvois) Clinton Wilks Wood, Mississippi State University, Cleveland, MS, Jeff Gore, Mississippi State University, Stoneville, MS, Angus Catchot, Mississippi State University, Mississippi State, MS and Don Cook, Mississippi State University Delta Research and Extension Center, Stoneville, MS

3:00 PM  Impact of Three-cornered Alfalfa Hopper Feeding in Seedling Cotton Jeff Ramsey1, Angus Catchot1, Jeff Gore2, Don Cook2 and Fred Musser1, (1)Mississippi State University, Mississippi State, MS, (2)Mississippi State University, Stoneville, MS, (3)Mississippi State University Delta Research and Extension Center, Stoneville, MS

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

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

1:30 PM  Cotton Insect Losses - 2013 Michael R. Williams, Williams Pest Censors, Abbeville, MS

1:45 PM  A Biological Comparison of Tarnished Plant Bug Populations from Different Regions in Mississippi Brian P. Adams1, Angus Catchot1 and Jeff Gore2, (1)Mississippi State University, Mississippi State, MS, (2)Mississippi State University, Stoneville, MS
2:00 PM  Effects of Foliar Applied Jasmonic Acid and Seed Applied Imidacloprid on Phytohormone Expression and Twospotted Spider Mite Populations in Cotton
Sebe Brown1, Michael Stout2, T. Shelby Williams1, Jenna Lindsay2 and David D Kerns1, (1)LSU AgCenter, Winnboro, LA, (2)LSU AgCenter, Baton Rouge, LA

2:15 PM  Macronutrient Preference and Effect on Performance in Lygus hesperus (Heteroptera: Miridae)
Carrie Deans1, Greg Sword1, Spencer Behmer1 and Megha Parajulee2, (1) Texas A&M University, College Station, TX, (2) Texas A&M AgriLife Research, Lubbock, TX

2:30 PM  Methodology for Running Diet-Incorporated Bioassays with the Diamides
Andrew Adams1, Jeff Gore2, Angus Catchot3, Fred Musser1 and Don Cook3, (1) Mississippi State University, Mississippi State, MS, (2) Mississippi State University, Stoneville, MS, (3) Mississippi State University Delta Research and Extension Center, Stoneville, MS

2:45 PM  Microbial Degradation of Neonicotinoid Insecticides in the Soil
Cory Vineyard and Scott D Stewart, The University of Tennessee, Jackson, TN

3:00 PM  Effects of Tillage, Irrigation and Thrips on Cotton Yield
Dominic Reisig and Alan Meijer, North Carolina State University, Plymouth, NC

COTTON INSECT RESEARCH AND CONTROL - TUESDAY LATE AFTERNOON - SESSION B

Galerie 2 (New Orleans Marriott) - 3:45 PM-7:00 PM

3:45 PM  Effects of Osmotin II over Expression in Transgenic Cotton on Cotton Aphid (Aphis gossypii) Reproduction and Colonization
Cody D Kerns1, T. Shelby Williams1, Kent D Chapman2, Shanmukh Salimath2 and David D Kerns1, (1) LSU AgCenter, Winnboro, LA, (2) University of North Texas, Denton, TX

4:00 PM  Cultural Practices to Decrease Thrips Densities in Cotton Production Systems
Ian Knight and Michael Toews, University of Georgia, Tifton, GA

4:15 PM  Efficacy of Dual Gene Bt Cotton for Control of Bollworm, Helicoverpa zea (Boddie)
Luis Orellana1, Gus Lorenz2, Nichole M. Taillon2, Andrew Plummer2, Michael Chaney2, Ben C. Thrash1, Derek L. Clarkson1, Mallory Everett1 and Sean L. Flynn1, (1) University of Arkansas Department of Entomology, Fayetteville, AR, (2) Cooperative Extension Service, University of Arkansas, Lonoke, AR

4:30 PM  Distribution of Helicoverpa zea (Boddie) and Heliothis virescens (F.) in Cotton/Soybean Landscapes
Taylor D. Dill1, Angus Catchot2, Jeff Gore2, Fred Musser1, Don Cook1 and Michael Caprio1, (1) Mississippi State University, Mississippi State, MS, (2) Mississippi State University, Stoneville, MS, (3) Mississippi State University Delta Research and Extension Center, Stoneville, MS

4:45 PM  Evaluation of PRE Herbicide and Seed Treatment on Thrips Infestation in Cotton
J. Drake Copeland1, Darrin M Dodds1, Tyler H. Dixon1, Daniel Z Reynolds1, Chase A. Samples1, Angus Catchot2, Jeff Gore2 and David Wilson3, (1) Mississippi State University, Mississippi State, MS, (2) Mississippi State University, Stoneville, MS, (3) Monsanto, St. Louis, MO

5:00 PM  Efficacy of Aphicides on Cotton Aphids, Aphis gossypii, and Their Natural Enemies
Jenna Lindsay1, David D Kerns2, Sebe Brown2 and T. Shelby Williams2, (1) LSU AgCenter, Baton Rouge, LA, (2) LSU AgCenter, Winnboro, LA

5:15 PM  Control of Tarnished Plant Bug in Mississippi Delta with Foliar Insecticides
5:30 PM  A Comparison of Organophosphates, Pyrethroids, and Neonicotinoids for Managing Stink Bugs in Cotton
Brian Little and Michael Toews, University of Georgia, Tifton, GA

5:45 PM  Break

6:00 PM  Business Meeting

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

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

4:00 PM  Impacts and Species Composition of Thrips on Seedling Cotton in the Mid-South
John H North, Mississippi State University, Madison, MS, Angus Catchot, Mississippi State University, Mississippi State, MS, Jeff Gore, Mississippi State University, Stoneville, MS and Don Cook, Mississippi State University Delta Research and Extension Center, Stoneville, MS

4:15 PM  Attraction of Dispersing Boll Weevils from Surrounding Habitats Relative to Simulated Pheromone Diffusion from TRAPS
Westbrook John, Charles Suh and Ritchie Eyster, USDA, College Station, TX

4:30 PM  Arkansas Boll Weevil Eradication Program 2013
Regina Coleman, Arkansas Boll Weevil Eradication Foundation, Forrest City, AR

4:45 PM  Temporal Variability of Spectral Reflectance and Estimated Canopy Cover of Cotton Plants Supports Early Detection of Potential Boll Weevil Infestations
John Westbrook, Charles Suh, Ritchie Eyster and Chenghai Yang, USDA, College Station, TX

Wednesday, January 8, 2014

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

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

8:00 AM  Influence of Wooly Croton Soaking on Cotton Fleahopper Emergence from Overwintered Eggs
Abdul Hakeem and Megha Parajulee, Texas A&M AgriLife Research, Lubbock, TX

8:15 AM  Progress and Challenges in Managing a Boll-feeding Sucking Bug Complex of Stink Bugs and Plant Bugs on Cotton: Sampling and Damage Assessment
Michael Brewer1, James Glover2, Darwin Anderson1, Stephen Biles2, Clyde Crumley3 and Danielle Sekula4, (1)Texas A&M AgriLife Research, Corpus Christi, TX, (2)Texas A&M AgriLife Extension Service, Port Lavaca, TX, (3) Texas A&M AgriLife Extension Service, Wharton, TX, (4)Texas A&M AgriLife Extension, Weslaco, TX

8:30 AM  Dow AgroSciences’ Transform Insecticide: Performance in Western U.S. Cotton
Jesse M Richardson1, Boris A Castro1, Peter C Ellsworth2, Larry D Godfrey3 and James D Thomas1, (1)Dow AgroSciences, Indianapolis, IN, (2)University of Arizona, Maricopa, AZ, (3)UC Davis, Davis, CA

8:45 AM  Fungal Endophytes Reduce Sucking Bug Feeding on Cotton Squares and Bolls
Gregory A Sword, Ashley Tessnow, Maria Julissa Ek-Ramos and Steve Hague, Texas A&M University, College Station, TX
COTTON INSECT RESEARCH AND CONTROL - WEDNESDAY EARLY MORNING - SESSION B

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

8:00 AM Assessment of Cross-Resistance in Bollgard II and III: A Review of the Scientific Evidence
Douglas Sumerford and Graham Head, Monsanto, St. Louis, MO

8:15 AM Potential New Mechanism for Insect Cross resistance to Different Protein/dsRNA Toxins
R. Michael Roe1, Anirudh Dhammi1, Jaap B. Van Kretschmar1 and Ryan W. Kurtz2, (1)NC State University, Raleigh, NC, (2)Cotton Inc., Cary, NC

8:30 AM Recent Evaluations of Bt and Non-Bt Cotton in the Mississippi Delta
Clint Allen1, Donny Adams2, Randall G Luttrel1 and Nathan S Little2, (1) USDA ARS Southern Insect Management Research Unit, Stoneville, MS, (2) USDA-ARS, Stoneville, MS, (3)USDA ARS, Stoneville, MS

8:45 AM Lepidopteran Insect Management in Mississippi Cotton
Don Cook1, Jeff Gore2, Angus Catchot1 and Fred Musser1, (1)Mississippi State University Delta Research and Extension Center, Stoneville, MS, (2) Mississippi State University, Stoneville, MS, (3)Mississippi State University, Mississippi State, MS

9:00 AM WideStrike 3 – a Performance and Status Report from Dow AgroSciences
Gary Thompson, Dow AgroSciences, Omaha, AR, Melissa W Siebert, Dow AgroSciences, Greenville, MS, Bo Braxton, Dow AgroSciences, Greenville, SC, Larry Walton, Dow AgroSciences, Tupelo, MS, John Richburg, Dow AgroSciences, Headland, AL, Bobby Haygood, Dow AgroSciences, Collierville, TN, Michael Lovelace, Dow AgroSciences, Lubbock, TX and Ryan Viator, Dow AgroSciences, Headland, AL

9:15 AM TwinLink™ Plus Vip3A: Next Generation Insect Control from Bayer Trait Development

9:30 AM 2013 Arizona Pink Bollworm Eradication Program Update
Leighton R Liesner, Michael Whitlow and Joaohna Solis, Arizona Cotton
COTTON QUALITY MEASUREMENTS - TUESDAY LATE MORNING

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

10:30 AM Understanding the Bias between Moisture Content by Oven Drying and Water Content by Karl Fischer Titration at Moisture Equilibrium
Joe Montalvo, Jr., CSQ, USDA-ARS-SRRC, New Orleans, LA, Terri M. Von Hoven, USDA-ARS-SRRC, New Orleans, LA and Richard K Byler, Cotton Ginning Research Unit, Stoneville, MS

10:45 AM Determining the Feasibility of Chemical Imaging of Cotton Trash
Chanel Angelique Fortier and James Rodgers, USDA-ARS-SRRC, New Orleans, LA

11:00 AM Chemical Imaging of Cotton Fibers Using an Infrared Microscope and a Focal-Plane Array Detector
Michael Santiago Cintrón, Chanel Angelique Fortier, Doug J Hinchliffe and James Rodgers, (1)USDA-ARS-SRRC, New Orleans, LA, (2)USDA-ARS SRRC, New Orleans, LA

11:15 AM Video Processing for Dynamic Evaluation of Yarn Diameter
Mohamed Eldessouki1, Sayed Ibrahim2 and Jiri Militky2, (1)Mansoura University, Mansoura, Egypt, (2)Technical University of Liberec, Liberec, Czech Republic

COTTON QUALITY MEASUREMENTS - TUESDAY EARLY AFTERNOON

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

1:30 PM Effect of the Trash Content on the Quality of AFIS Data
Eric F Hequet and Brendan Kelly, Texas Tech University, Lubbock, TX

1:45 PM Fluorescent Imaging Apparatus for Cotton Trash Imaging
Adnan Mustafic and Changying Li, University of Georgia, Athens, GA

2:00 PM Development of an Experimental Method to Measure Fiber Bundle Friction
Farzad Hosseinali, Alex Thomasson and Yufeng Ge, (1)Biological & Agricultural Engineering, Texas A&M University, College Station, TX, (2)Texas A&M University, College Station, TX

2:15 PM Cotton Fibre Elongation – Measurement and Role in Spinning
Shouren Yang and Stuart Gordon, CSIRO, Geelong, Australia

2:30 PM The Importance of within Sample Distribution of Cotton Fiber Properties for Improving Yarn Quality
Brendan Kelly and Eric F Hequet, Texas Tech University, Lubbock, TX

2:45 PM Impact of Storage Condition on Fiber Quality and Color
3:00 PM  AFIS Seed Coat Neps Baseline Response from Diverse Mediums
Joe Montalvo, Jr.,1 Terri M. Von Hoven2, Clif Boykin2, Doug J Hinchliffe4 and Robert Hardin3, (1)CSQ, USDA-ARS-SRRC, New Orleans, LA, (2)USDA-ARS-SRRC, New Orleans, LA, (3)USDA-ARS, Cotton Ginning Research Unit, Stoneville, MS, (4)USDA-ARS SRRC, New Orleans, LA

3:15 PM  Genetic Mapping of Cotton Fiber Quality Using Intraspecific Crosses Derived from Two Near Isogenic Upland Cotton Lines Differing in Fiber Bundle Strength
Md Sariful Islam, USDA ARS, Southern regional Research Center, New Orleans, LA, Linghe Zeng, USDA-ARS-MSA, Stoneville, MS, Christopher Delhom, Cotton Structure & Quality, USDA-ARS-SRRC, New Orleans, LA, Xianliang Song, Shandong Agricultural University, Shandong, China, Hee Jin Kim, USDA-ARS, Southern Regional Research Center, New Orleans, LA, Ping Li, USDA ARS, Southern Regional Research Center, New Orleans, LA and David D Fang, USDA-ARS SRRC, New Orleans, LA

COTTON QUALITY MEASUREMENTS - TUESDAY LATE AFTERNOON
Galerie 4 (New Orleans Marriott) - 4:00 PM-5:00 PM
4:00 PM  New Definitions for Cotton Fiber Maturity Ratio
Xiaoliang Cui1, James Rodgers1 and Christopher Delhom2, (1)USDA-ARS-SRRC, New Orleans, LA, (2)Cotton Structure & Quality, USDA-ARS-SRRC, New Orleans, LA

4:15 PM  Assessing Cotton Maturity Using Distributional Parameters of Fiber Cross-Section Measurements
Bugao Xu, University of Texas at Austin, Austin, TX

4:30 PM  Comparisons of Cotton Maturity and Fineness Measurements (COTTONSCOPE, AFIS, HVI™)
James Rodgers1, Christopher Delhom2 and Xiaoliang Cui1, (1)USDA-ARS-SRRC, New Orleans, LA, (2)Cotton Structure & Quality, USDA-ARS-SRRC, New Orleans, LA

4:45 PM  Comparisons of Cottonscope and AFIS Fiber Maturity Distributions
James Rodgers1, Xiaoliang Cui1 and Christopher Delhom2, (1)USDA-ARS-SRRC, New Orleans, LA, (2)Cotton Structure & Quality, USDA-ARS-SRRC, New Orleans, LA

Cotton Soil Management and Plant Nutrition Conference
Tuesday, January 7, 2014

COTTON SOIL MANAGEMENT AND PLANT NUTRITION - TUESDAY EARLY MORNING
Mardi Gras Ballroom Salon D (New Orleans Marriott) - 8:00 AM-9:30 AM
Presiding: M. Wayne Ebelhar

8:00 AM  Introductory Remarks

8:15 AM  Cotton Irrigation Scheduling Using Soil Water Depletion Estimates of Small-Zones in Large Fields
Douglas J Hunsaker, USDA-ARS-ALARC, Maricopa, AZ

8:30 AM  Benefits of Deep Profile Soil Sampling and Water Well Testing
Paul DeLaune, Texas A&M AgriLife Research, Vernon, TX, Gaylon D. Morgan, Texas A&M AgriLife Extension Service, College Station, TX and Frank Hons, Texas A&M University, College Station, TX

8:45 AM  Improving Phosphorus Nutrition of Cotton
Barney Gordon, Gordon Ag Consulting, Grand Junction, TN
Wednesday, January 8, 2014

COTTON SOIL MANAGEMENT AND PLANT NUTRITION - WEDNESDAY EARLY MORNING

Mardi Gras Ballroom Salon D (New Orleans Marriott) - 8:00 AM-9:30 AM
Presiding: John S. Kruse

8:00 AM  Introductory Remarks

8:15 AM  Liquid Lime, Walmart Waste and UAVs: New Extension Projects
Glendon H Harris, University of Georgia, Tifton, GA

8:30 AM  Managing Nitrogen Fertility for Cotton with Alternative Strategies in the Mississippi Delta
M. Wayne Ebelhar, Delta Res. & Ext. Center, Mississippi State University, Stoneville, MS and Davis R. Clark, Mississippi State University, Stoneville, MS

8:45 AM  Environmentally Smart Nitrogen (ESN) 2013 Research Review
Michael S. Howell, Agrium Advanced Technologies, Lumberton, MS

9:00 AM  Evaluation of Nitrogen Management in Cotton Production with AGROTAIN® Nitrogen Stabilizer
John S. Kruse and Cleiton Sequeira, Koch Agronomic Services, LLC, Wichita, KS

9:15 AM  Discussion

COTTON SOIL MANAGEMENT AND PLANT NUTRITION - WEDNESDAY LATE MORNING

Mardi Gras Ballroom Salon D (New Orleans Marriott) - 10:30 AM-11:30 AM
Presidings: M. Wayne Ebelhar
John S. Kruse

10:30 AM  Introductory Remarks

10:40 AM  Business Meeting

Cotton Utilization Conference
Wednesday, January 8, 2014

COTTON UTILIZATION CONFERENCE - WEDNESDAY EARLY MORNING

Galerie 4 (New Orleans Marriott) - 8:05 AM-10:00 AM
Officials: Mourad Krifa
Alfred D. French

8:05 AM  Introductory Remarks

8:15 AM  Characterization of Staple Yarns by Acoustic Dynamic Modulus
Jiri Militky, Technical University of Liberec, Liberec, Czech Republic and Dana Kremenakova, TU Liberec, Liberec, Czech Republic

8:30 AM  Mechanical Properties of Air-Jet Yarns Spun on Different Systems
Mohamed Eldessouki¹, Sayed Ibrahim² and Ramsis Faraq³, (1)Mansoura University, Mansoura, Egypt, (2)Technical University of Liberec, Liberec, Czech Republic
Cotton Weed Science Research Conference
Tuesday, January 7, 2014

COTTON WEED SCIENCE RESEARCH - TUESDAY LATE MORNING

11:00 AM Influence of Spray Tip and Herbicide Program on Palmer Amaranth Control
Daniel Z Reynolds1, Darrin M Dodds1, Chase A. Samples1, Tyler H. Dixon1, J. Drake Copeland1 and Anthony Mills2, (1)Mississippi State University, Mississippi State, MS, (2)Monsanto Company, Collierville, TN

11:15 AM Evaluation of Display for Cotton Defoliation and Morningglory Desiccation
Donnie Miller1, Darrin M Dodds2 and Marcia Mathews1, (1)LSU AgCenter, St. Joseph, LA, (2)Mississippi State University, Mississippi State, MS

11:30 AM Performance of Display Cotton Harvest Aid across the Cotton Belt
Henry Mitchell, FMC Corporation, Louisville, MS, Don Johnson, FMC Corporation, Madison, MS and Craig Heim, FMC Corporation, Savannah, GA

11:45 AM Bollgard II XtendFlex™ Cotton Weed Management Systems in the Texas High Plains
Peter A. Dotray1, J. Wayne Keeling2, T. Shay Morris2, Misha R. Manuchehri1, Rand M. Merchant1 and John D. Everitt1, (1)Texas Tech University, Lubbock, TX, (2)Texas A&M AgriLife Research, Lubbock, TX, (3)Monsanto, Shallowater, TX
1:45 PM  Palmer Amaranth Population Dynamics in Cotton with Herbicide Programs Including Dicamba
Matt Inman1, David L Jordan1, Alan C York1, Wesley J Everman1, John K Soteres2 and Rick Cole2, (1)North Carolina State University, Raleigh, NC, (2) Monsanto Co, St. Louis, MO

2:00 PM  Sequential Liberty Application Timings for Johnsongrass Control in Liberty Link Cotton
Randall L Landry, Daniel O Stephenson, IV and Brandi C. Woolam, LSU AgCenter, Alexandria, LA

2:15 PM  Management of Palmer Amaranth in Cotton Using Cover Crops and Herbicides
Matthew S. Wiggins, University of Tennessee, Jackson, TN and Lawrence E. Steckel, The University of Tennessee, Jackson, TN

2:30 PM  Impact of Seed Vigor, Planting Depth, and Soil Conditions on Cotton Injury from Soil-Applied Herbicides

2:45 PM  Efficacy of Select Max Plus Auxinic Herbicides on Glyphosate-Resistant Italian Ryegrass
Garrett B Montgomery, Jason A Bond, Thomas W Eubank and Henry M Edwards, Mississippi State University, Stoneville, MS

3:00 PM  Chloroacetamide Tank Mixes with Pyrithiobac in Glyphosate- and Glufosinate-Based Herbicide Systems
Charles W Cahoon, Jr., Alan C York, David L Jordan and Lewis R Braswell, North Carolina State University, Raleigh, NC

COTTON WEED SCIENCE RESEARCH - GRADUATE STUDENT PAPER SESSION II

4:00 PM  Grain sorghum and soybean as replacement crops following a failed cotton stand
Lewis R Braswell, Alan C York, David L Jordan and Charles W Cahoon, Jr., North Carolina State University, Raleigh, NC

4:15 PM  Effectiveness of Liberty with and without Select Max as Influenced by Johnsongrass Height in Liberty Link Cotton
Brandi C. Woolam1, Daniel O Stephenson, IV1, Jason K. Norsworthy2 and Randall L Landry1, (1)LSU AgCenter, Alexandria, LA, (2)University of Arkansas, Fayetteville, AR

4:30 PM  Does Reverse Osmosis Water Affect Glyphosate Efficacy?
Misha R. Manuchehri1, Peter A. Dotray1, T. Shay Morris2 and J. Wayne Keeling2, (1)Texas Tech University, Lubbock, TX, (2)Texas A&M AgriLife Research, Lubbock, TX

4:45 PM  Potential for Fluridone Carryover from Cotton to Multiple Crop Species
Zachary T. Hill, Jason K. Norsworthy, Holden D. Bell, Brandon W. Schrage, Chris J. Meyer and Mohammad Bararpour, University of Arkansas, Fayetteville, AR

Wednesday, January 8, 2014

COTTON WEED SCIENCE RESEARCH - WEDNESDAY EARLY MORNING

8:00 AM  Evaluation of Fluridone for Weed Control in Cotton
Jason Meier1, Tom Barber2, Leah M Collie2 and Ryan C Doherty1, (1) University of Arkansas Extension, Monticello, AR, (2)University of Arkansas Extension, Lonoke, AR
8:15 AM  Glyphosate and Pyrithiobac Resistance in Arizona Palmer Amaranth Populations
William B McCloskey, University of Arizona, School of Plant Sciences, Tucson, AZ

8:30 AM  Weed Response to Topical Applications of Glyphosate, Glufosinate, 2, 4-D and/or Dicamba Tankmixes
Jeremy M. Kichler, University of Georgia Cooperative Extension, Oglethorpe, GA and A. Stanley Culpepper, University of Georgia, Tifton, GA

8:45 AM  Management of Palmer Amaranth in West Texas Using Residual Herbicide Systems
Rand Michael Merchant¹, Peter A. Dotray², J. Wayne Keeling³ and Misha R. Manuchehri³, (1)Texas AgriLife Research, Lubbock, TX, (2)Texas Tech University, Lubbock, TX, (3)Texas A&M AgriLife Research, Lubbock, TX

9:00 AM  Comparison of Acetochlor, Metolachlor, and Pyroxasulfone Applied Post to Cotton
Leah M Collie¹, Tom Barber¹, Ryan C Doherty² and Jason Meier², (1) University of Arkansas Extension, Lonoke, AR, (2) University of Arkansas Extension, Monticello, AR

9:15 AM  Evaluation of Dual Magnum, Warrant, and Zidua Preemergence in Arkansas Cotton
Ryan C Doherty¹, Tom Barber², Leah M Collie² and Jason Meier¹, (1) University of Arkansas Extension, Monticello, AR, (2) University of Arkansas Extension, Lonoke, AR

9:30 AM  Weed Control and Crop Tolerance When Intercropping Watermelon and Cotton
Peter M. Eure, A. Stanley Culpepper, Rand M. Merchant and T. Brian Tankersley, University of Georgia, Tifton, GA

COTTON WEED SCIENCE RESEARCH - WEDNESDAY LATE MORNING

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

10:30 AM Discussion

10:45 AM Graduate Student Award
1. The Effects of Simulated 2,4-D Drift on Cotton Growth, Development, and Yield  
Chandler P. Rowe¹, A. Stanley Culpepper¹, Seth A. Byrd¹, John L. Snider¹, Jared R. Whitaker², Daryl R. Chastain¹ and Guy D. Collins², (1)University of Georgia, Tifton, GA, (2)University of Georgia, Statesboro, GA, (3)University of Georgia, Athens, GA, (4)Crop & Soil Sciences, University of Georgia, Tifton, GA

2. Characterizing Spatial Variability of Cotton Plant Response to Heterogeneous Soils in the Midsouth  
Erin J Kelly¹, Tina Gray Teague¹, D.K. J Morris³, Daniel Fisher², Michele L. Reb¹ and Terry Spurlock⁶, (1)Arkansas State University - University of Arkansas Agricultural Experiment Station, State University, AR, (2)Arkansas State University College of Agriculture & Technology, State University, QC, (3)USDA-ARS Crop Production Systems Research Unit, Stoneville, MS, (4)USDA-ARS, State University, AR, (5)University of Arkansas, Monticello, AR

3. Evaluation of Cotton Yield, Quality, and Plant Growth Response to Soil-Applied Potassium  
Michael C Spiegelhauer¹, Gaylon D. Morgan², Mark L. McFarland², Dennis Coker², Dale Mott² and Tony Provín², (1)Texas A&M, College Station, TX, (2)Texas A&M AgriLife Extension Service, College Station, TX

4. Determining Optimum Plant Growth Regulator Application Strategies in Response to Fruit Loss  
Chase A. Samples¹, Darrin M Dodds¹, Angus Catchot¹, Jeff Gore², Bobby R Golden³, Jac Varco⁴, Tyler H. Dixon¹, Daniel Z Reynolds¹ and J. Drake Copeland¹, (1)Mississippi State University, Mississippi State, MS, (2)Mississippi State University, Stoneville, MS, (3)Delta Research and Extension Center, Stoneville, MS

5. Plant Growth Regulator Management in Cotton Cultivars  
Fábio R Echer¹, Mato Grosso Cotton Institute, Primavera do Leste, Brazil and Ciro A Rosolem, Unesp, Botucatu, Brazil

6. High Night Temperatures at Squaring Increases Respiration and Reduce Reproductive Dry Matter Production in Cotton  
Fábio R Echer¹, Derrick M Oosterhuis², Dimitra Loka² and Ciro A Rosolem³, (1)Mato Grosso Cotton Institute, Primavera do Leste, Brazil, (2)University of Arkansas, Fayetteville, AR, (3)Unesp, Botucatu, Brazil

7. Optimization of Deficit Irrigation Using the Cotton2K Crop Growth Simulation Model  
Ahmed Attia¹, Shyam Nair¹, Nithya Rajan¹ and Glen L. Ritchie¹, (1)Texas A&M AgriLife Research-Vernon, Vernon, TX, (2)Dept. of Agricultural and Applied Economics, Texas Tech University, Lubbock, TX, (3)Plant and Soil Science, Texas Tech University, Lubbock, TX
8. Genetic Variation and Heritability for Acclimation Traits among Cotton Genotypes under Water-Deficit Stress Cristiane Pilon, Derrick M Oosterhuis and Dimitra A Loka, University of Arkansas, Fayetteville, AR

9. Using Predawn Water Potential As a Means of Scheduling Irrigation for Drip Irrigated Cotton Daryl R Chastain1, John L Snider2, Guy D Collins3 and Calvin D Perry3, (1)University of Georgia, Athens, GA, (2)University of Georgia, Tifton, GA, (3)University of Georgia, Camilla, GA

10. Cotton Gas Exchange, Fluorescence and Nutrient Use Efficiency As Affected By Phosphorus Nutrition and Carbon Dioxide Enrichment Vangimalla R. Reddy1, Shardendu K Singh2, David R Fleisher1 and Dennis R Timlin1, (1)USDA ARS, Beltsville, MD, (2)University of Maryland, Beltsville, MD

11. High Night Temperatures Effects on Cotton Leaf Carbohydrate and Antioxidant Content Dimitra A Loka and Derrick M Oosterhuis, University of Arkansas, Fayetteville, AR

12. Cotton Irrigation with the Crop Water Use Program on Three Soils Gene Stevens1, Earl Vories2, John Travlos3, Andrea Jones4, Pat Guinan5, Joe Henggeler1, Matt Rhine6 and Heiser Jim7, (1)University of Missouri, Portageville, MO, (2)USDA-ARS, Portageville, MO, (3)University of Missouri, Columbia, MO, (4)University of Missouri, Portageville, MO

13. Fiber Properties and Agronomic Characteristics of Cotton Varieties As Influenced By Environmental Conditions Addisu Gebre Ayele and Scott Baker, Texas Tech University, Lubbock, TX

14. Quantifying the Effects of Irrigation Timing on Cotton Yield under Rain-Sheltered Controlled Conditions Carlos J. Fernandez1, Carlos Correa2, Dan D. Fromme3 and Juan A. Landivar4, (1)Texas AgriLife Research and Extension Center, Corpus Christi, TX, (2)Texas A&M AgriLife Research, Corpus Christi, TX, (3) Texas A&M AgriLife Extension Service, Corpus Christi, TX

15. Influence of Tillage System and Irrigation Timing on Susceptibility of Three Cotton Cultivars to Tarnished Plant Bug Tina Gray Teague and Erin J Kelly, Arkansas State University - University of Arkansas Agricultural Experiment Station, State University, AR

16. Performance of ETX, Display and Sharpen As Harvest Aids in Oklahoma Cotton T. Shane Osborne1, Randy K. Boman1 and Scott Ludwig2, (1) Oklahoma State University, Altus, OK, (2)Nichino America, Inc, Arp, TX

17. Effects of Mepiquat Chloride and Plant Density on Crop Growth of Intercropped Cotton Lili Mao1, Lizhen Zhang2, Xiaoli Tian1 and Zhaohu Li1, (1) China Agricultural University, Beijing, China, (2)Metereological Department of China Agricultural University, Beijing, China

18. Using Plant Monitoring to Schedule Drip Irrigated Cotton Daniel S. Munk1, Robert B. Hutmacher2, Steven D. Wright3 and Jonathan F. Wroble1, (1)University of California Cooperative Extension, Fresno, CA, (2)University of California Cooperative Extension, Plant Sciences Department, Five Points, CA, (3)University of California Cooperative Extension-Tulare/Kings Co., Tulare, CA

19. Performance of Select Cotton Varieties across Locations and Years 2011-2013 in the Texas High Plains Kristie Keys1, Mark Kelley1 and Chris Ashbrook2, (1)Texas A&M AgriLife Extension Service, Lubbock, TX, (2)Nichino America, Inc., Wilmington, DE
20. Performance of Various Cotton Varieties in Replicated Large-Plot and Small-Plot Research Trials in South Carolina
   Michael A Jones, Clemson University, Florence, SC

   Brock A Ward, UGA Cooperative Extension, Cuthbert, GA, T. Jay Hathorn, UGA Cooperative Extension, Morgan, GA, Nicholas D McGhee, UGA Cooperative Extension, Dawson, GA, Guy D. Collins, Crop & Soil Sciences, University of Georgia, Tifton, GA and Jared R. Whitaker, University of Georgia, Statesboro, GA

22. Evaluation of Cotton Variety Performance with Consideration to Variations in Field-By-Field Yield Potential

23. On-Farm Performance of Glytol LibertyLink and Phytogen WideStrike Cotton Varieties in Georgia
24. Determining the Last Effective Bloom Date Utilizing Heat Unit Accumulation in Georgia
Jared R Whitaker1, Guy D Collins2, Seth Byrd2, John L Snider3, Jeremy M. Kichler1, Chris Tyson4, William G. Tyson5, James L. Jacobs6, Mark A. Frye7, Daniel S. Price6 and Michael A. Dollar9, (1)University of Georgia, Statesboro, GA, (2)University of Georgia, Tifton, GA, (3)University of Georgia Cooperative Extension, Oglethorpe, GA, (4)UGA Cooperative Extension, Tattnall County, Reidsville, GA, (5)University of Georgia Cooperative Extension, Springfield, GA, (6)University of Georgia, Blackshear, GA, (7)University of Georgia, Jesup, GA, (8)University of Georgia - Cook County, Adel, GA, (9)University of Georgia, Claxton, GA

25. Large-Plot on-Farm Replicated Cotton Variety Trials in Oklahoma
Randy K. Boman, T. Shane Osborne and Jerry R. Goodson, Oklahoma State University, Altus, OK

26. 2013 Texas Replicated Agronomic Cotton Evaluation (RACE) - Trial Summary
Dale Mott1, Gaylon D. Morgan1, Brent M Batchelor2, Michael Hiller3, Corrie Bowen4, Clyde Crumley5, Ricky Thompson6 and Kara Matheney7, (1)Texas A&M AgriLife Extension Service, College Station, TX, (2)Texas A&M AgriLife Extension Service, Bay City, TX, (3)Texas A&M AgriLife Extension Service, Edna, TX, (4)Texas A&M AgriLife Extension Service, Wharton, TX, (5)Texas A&M AgriLife Extension Service, Rosenberg, TX, (6)Texas A&M AgriLife Extension Service, Columbus, TX

27. Results of the Texas Gulf Coast Monster Variety Trials
Dan D. Fromme, Texas A&M AgriLife Extension Service, Corpus Christi, TX, Gaylon D. Morgan, Texas A&M AgriLife Extension Service, College Station, TX and Carlos J. Fernandez, Texas A&M AgriLife Research, Corpus Christi, TX

28. Revisiting the Maturity Paradigm in Cotton
Glen L. Ritchie, Plant and Soil Science, Texas Tech University, Lubbock, TX, Bablu Sharma, Texas Tech, Lubbock, TX, Curtis Schaefer, Texas Tech University, Lubbock, TX, Guy D. Collins, Crop & Soil Sciences, University of Georgia, Tifton, GA, Jared R. Whitaker, University of Georgia, Statesboro, GA, Chris L Main, Phytogen, Medina, TN and Robert L. Nichols, Cotton Incorporated, Cary, NC

29. Functional Characterization of GhAKT1, a Novel Shaker K+ Channel Gene Involved in K+ Uptake from Cotton
Juan Xu and Xiaoli Tian, China Agricultural University, Beijing, China

30. Lead-Induced Physiological Changes and Stress-Responsive Mirnas Expression in Cotton (Gossypium hirsutum L.)
Qiuling He, Jun Ma, Runrun Sun and Baohong Zhang, East Carolina University, Greenville, NC

Cotton Disease Council Posters

31. Integrated Management of Southern Root-Knot Nematode with Resistant Cotton Varieties and Nematicides in Appling County, Georgia
D. Shane Curry, University of Georgia, P O Box 478, GA and Robert C. Kemerait, University of Georgia, Tifton, GA

32. Cotton Root-Knot Nematode Management On High Plains of Texas Using Multiple Applications of Vydate
Kerry T Siders, Texas A&M AgriLife Extension, Levelland, TX

33. Growth of Phymatotrichopsis omnivora in Flutriafol Treated Field Soils
Mary W Olsen, The University of Arizona, Tucson, AZ
34. Corynespora 'Target Leaf Spot' in Alabama Cotton: Fungicide Effect and Variety Response
   Jenna Platt1, Dale Monks1, Austin Hagan1, Kathy Burch1, Shawn Scott2, Steven Nightengale3 and Greg Pate3, (1)Auburn University, Auburn, AL, (2)E.V. Smith Research Center, Shorter, AL

35. Grower Recommendations: Fusarium Race 4
   Robert B. Hutmacher, University of California - Davis & West Side REC, Five Points, CA, Mauricio Ulloa, USDA-ARS, Lubbock, TX, Steven D. Wright, University of California Cooperative Extension-Tulare/Kings Co., Tulare, CA, Daniel S. Munk, University of California Cooperative Extension, Fresno, CA, R M Davis, University of California, Davis, Department of Plant Pathology, Davis, CA, Mark P. Keeley, University of California Cooperative Extension, Plant Science Department, Shafter, CA and Gerardo Banuelos, University of California Cooperative Extension, Tulare, CA

36. Field Evaluation of Topguard (Flutriafol) for Cotton Root Rot Management in Oklahoma
   Jerry R. Goodson1, Randy K. Boman1, T. Shane Osborne1, Rick R. Minzenmayer2 and Tom A. Royer3, (1)Oklahoma State University, Altus, OK, (2)Texas AgriLife Extension Service, Ballinger, TX, (3)Oklahoma State University, Stillwater, OK

37. Growth of the Cotton Root Rot Pathogen, Phymatotrichopsis omnivora, in Flutriafol Treated Field Soils
   Mary W Olsen, The University of Arizona, Tucson, AZ, Randall Norton, The University of Arizona, Safford, AZ and Ayman Mostafa, The University of Arizona, Phoenix, AZ

38. Growth, Development and Root-Knot Nematode Resistance in Three New Cotton Breeding Lines in Arkansas
   Rafael Soares1, Terry Kirkpatrick1, Jorge Cuarezma2 and David W. Albers3, (1)University of Arkansas, Hope, AR, (2)Monsanto, Lubbock, TX, (3)Monsanto, St. Louis, MO

39. Cotton Variety and Fungicide Evaluation in Tattnall County, Georgia
   Chris Tyson, UGA Cooperative Extension, Tattnall County, Reidsville, GA, Cliff Riner, Vidalia Onion and Vegetable Research Center, Lyons, GA, Jared R. Whitaker, University of Georgia, Statesboro, GA and Bob Kem'erait, University of Georgia, Tifton, GA

40. The Influence of Alluvial Soils on Nematicides Applied to Cotton in Louisiana
   Charles Overstreet1, Edward C. McGawley1, Deborah M. Xavier1, Manjula T. Kularathna1 and Dennis R Burns2, (1)LSU AgCenter, Baton Rouge, LA, (2)LSU AgCenter, St. Joseph, LA

41. Effect of Flutriafol Rate and Application Method on Cotton Root Rot and Lint Yield
   Jason E. Woodward, Plant Pathology and Microbiology, Texas Tech University, Lubbock, TX, Jonathan H. Ramirez, Texas A&M AgriLife Extension, Vernon, TX and Gaylon D. Morgan, Texas A&M AgriLife Extension Service, College Station, TX

42. Response of Ten Cotton Varieties to Verticillium Wilt in the Northern Rolling Plains of Texas
   Jason E. Woodward, Plant Pathology and Microbiology, Texas A&M AgriLife Extension Service, Lubbock, TX, Jonathan H. Ramirez, Texas A&M AgriLife Extension, Vernon, TX, Gaylon D. Morgan, Texas A&M AgriLife Extension Service, College Station, TX and Terry A. Wheeler, Texas A&M AgriLife Research, Lubbock, TX

43. Reniform Nematode Reproduction on Soybean Cultivars and Breeding Lines in 2013
   R. T. Robbins1, P. Arelli1, G. Shannon1, P. Chen1, S. K. Kantartzis1, L. E. Jackson1, E. E. Gbur1, D. G. Dombek1, J. T. Velie1 and T. R. Fraske1, (1) University of Arkansas, Fayetteville, AR, (2)USDA - ARS, Jackson, TN, (3)University of Missouri - Delta Center, Portageville, MO, (4)Southern Illinois University Carbondale, Carbondale, IL
44. Efficacy of Flutriafol Fungicide for Control of Cotton Root Rot in Arizona in 2012 and 2013 Field Trials
Randall Norton, The University of Arizona, Safford, AZ, Mary W Olsen, The University of Arizona, Tucson, AZ and Ayman Mostafa, The University of Arizona, Phoenix, AZ

45. Interactive Effects of Planting Date and Seeding Rate on Verticillium Wilt, Lint Yield, and Fiber Quality of Susceptible and Partially Resistant Cotton Varieties
Xiaoxiao Liu, Texas Tech University, Lubbock, TX and Jason E. Woodward, Plant Pathology and Microbiology, Texas Tech University, Lubbock, TX

46. Response of Cotton Varieties to Combinations of Telone and a Nematicide Seed Treatment
Nathan Foster, Texas Tech University, Lubbock, TX, Jason E. Woodward, Plant Pathology and Microbiology, Texas A&M AgriLife Extension Service, Lubbock, TX and Mustafa Mcpherson, Phytogen, Leland, MS

47. Cotton Disease Loss Estimates 2013
Kathy S. Lawrence, Auburn University, Auburn, AL, Terry Kirkpatrick, University of Arkansas, Hope, AR, Robert B. Hutmacher, University of California - Davis & West Side REC, Five Points, CA, Bob Kemerialt, University of Georgia, Tifton, GA, Charles Overstreet, LSU AgCenter, Baton Rouge, LA, Gary W. Lawrence, Mississippi State University, Mississippi State, MS, Steve Koennin, NCSU, Raleigh, NC, John D. Mueller, Clemson University, Blackville, SC, Heather Kelly, The University of Tennessee, Jackson, TN, Jason E. Woodward, Plant Pathology and Microbiology, Texas A&M AgriLife Extension Service, Lubbock, TX and Mary W Olsen, The University of Arizona, Tucson, AZ

Craig S. Rothrock1, Scott A. Winters1, J. D. Barham2, A. B. Beach3, M. B. Bayles4, P. D. Colyer5, T. Kelley6, R. C. Kemerialt7, Gary W. Lawrence8, Kathy S. Lawrence9, Paul P. Price10, Jason E. Woodward11, R. Thacker12, H. Mehl12 and G. B. Sciumbato13, (1)Dept. of Plant Pathology, University of Arkansas, Fayetteville, AR, (2)University of Arkansas, Hope, AR, (3)University of Arkansas, Keiser, AR, (4)Oklahoma State University, Stillwater, OK, (5)LSU AgCenter, Baton Rouge, LA, (6)Oklahoma State University, Altus, OK, (7)University of Georgia, Tifton, GA, (8)Mississippi State University, Mississippi State, MS, (9)Auburn University, Auburn, AL, (10)LSU AgCenter, Macon Ridge Research Station, Winnsboro, LA, (11)Plant Pathology and Microbiology, Texas A&M AgriLife Extension Service, Lubbock, TX, (12)Virginia Tech, Suffolk, VA, (13)Mississippi State University, Stoneville, MS

49. Managing Nematodes in Mississippi Cotton Production Systems with Telone II
Tom Allen, Entomology and Plant Pathology, Mississippi State University, Stoneville, MS, Jeffrey Willers, USDA, Starkville, MS, Pat English, Mississippi State University, Stoneville, MS, Bobby Haygood, Dow AgroSciences, Collierville, TN and Kenneth B Hood, Perthshire Farms, Gunnison, MS

Cotton Economics and Marketing Conference Posters
Posters on display in Preservation Hall Studio 9
Cotton Engineering-Systems Conference Posters

   Yin-Lin Chiu, Arkansas State University, Jonesboro, AR, Michele L. Reba, USDA-ARS, State University, AR, Tina Gray Teague, Arkansas State University - University of Arkansas Agricultural Experiment Station, State University, AR and Chris G Henry, University of Arkansas, Stuttgart, AR

51. Impacts of Conservation Practices on Runoff from Production Sized Cotton Fields Using Edge-of-Field Monitoring
   Nadine Straitt1, Michele L. Reba2, Seth Dabney3, Tina Gray Teague4 and Jennifer Bouldin1, (1) Arkansas State University, State University, AR, (2) USDA-ARS, State University, AR, (3) USDA-ARS, Oxford, MS, (4) Arkansas State University - University of Arkansas Agricultural Experiment Station, State University, AR

Cotton Improvement Conference Posters

52. Identification of Commercial Cultivars for the Texas High Plains with Drought Tolerance or Improved Response to Water Deficits
   Travis Witt1, Mauricio Ulloa2, John J Burke2, Glen L. Ritchie3, Loren Davis1 and Dick L Auld1, (1) Texas Tech University, Lubbock, TX, (2) USDA-ARS, Lubbock, TX, (3) Plant and Soil Science, Texas Tech University, Lubbock, TX

53. Identification of Elite Upland Germplasm with Tolerance to Reduced Irrigation Rates from the RBTN
   Bralie R Hendon1, Mauricio Ulloa2, John J Burke2, Glen L. Ritchie3, Robert Kelby Imel1 and Dick L Auld1, (1) Texas Tech University, Lubbock, TX, (2) USDA-ARS, Lubbock, TX, (3) Plant and Soil Science, Texas Tech University, Lubbock, TX

54. Length of Fiber Elongation Period in Extra Long Staple Upland Cotton Genotypes Compared with Tamcot 37
   Ricardo Galvão de Freitas and Wayne Smith, Texas A&M University, College Station, TX

55. Preliminary Screening of Gossypium spp. Germplasm Lines against Different Salt Concentrations
   Bikash Bhandari and Gerald O Myers, LSU Agcenter, Baton Rouge, LA

56. Screening Strategy for Maintaining Purity and Seed Quality in Cotton Breeding Nurseries
   Ryan Allen Gregory, Texas Tech University, Lubbock, TX and Jane K Dever, Texas A&M AgriLife Research, Lubbock, TX

57. Field Evaluation of Thrips Resistance in Glandless and Glanded Cotton
   Jinfa Zhang, New Mexico State Univ., Las Cruces, NM, Tom Wedegaertner, Cotton Incorporated, Cary, NC and S. Ed. Hughs, USDA-ARS Southwestern Cotton Ginning Research Laboratory, Mesilla, Park, NM

58. Development of New Glandless Cotton Germplasm
   Jinfa Zhang, New Mexico State Univ., Las Cruces, NM, Tom Wedegaertner, Cotton Incorporated, Cary, NC and S. Ed. Hughs, USDA-ARS Southwestern Cotton Ginning Research Laboratory, Mesilla, Park, NM

59. 2013 Mississippi State Cotton Variety Trial, Variety Performance
   Bobby R Golden1, Wille E Clark1, Darrin M Dodds2, Normie R Buehring3, Larry Falconer1, Mark Shankle4 and Teddy Wallace2, (1) Delta Research and Extension Center, Stoneville, MS, (2) Mississippi State University, Mississippi State, MS, (3) Mississippi State University, Verona, MS, (4) Mississippi State University, Pontotoc, MS
60. Cotton Germplasm Lines Released by the University of Arkansas in 2013
Fred Bourland, University of Arkansas, Keiser, AR and Don C Jones, Cotton Incorporated, Cary, NC

61. Exploiting Chemically Induced Mutation to Improve Fiber Traits in Upland Cotton
Efrem Bechere, USDA-ARS, Stoneville, MS

62. Evaluation of Cotton Cultivars for Differential Responses to Salinity Stress
Heather D. Flippin¹, Jane K Dever¹, Monica Sheehan¹, Valerie Morgan¹ and Mark S Kelley², (1)Texas A&M AgriLife Research, Lubbock, TX, (2)Texas A&M AgriLife Extension Service, Lubbock, TX

63. Dryland and Irrigated Commercial Variety Testing in Central and South Texas in 2013
Dawn Deno, Steve Hague, Wayne Smith and Richard Hermes, Texas A&M University, College Station, TX

64. Relationships among Oil Content, Protein Content and Seed Size of Gossypium Accessions in the U.S. National Cotton Germplasm Collection
Lori Hinze¹, Patrick Horn², Neha Kothari¹, Jane Dever³, James Frelichowski³, Kent D Chapman³ and Richard Percy¹, (1)USDA-ARS, College Station, TX, (2)University of North Texas, Denton, TX, (3) Texas A&M AgriLife Research, College Station, TX, (4)Texas A&M AgriLife Research, Lubbock, TX

65. Marker-Associated Selection of Plants
Rustam Kulmuradovich Shadmanov, Institute of Genetics and plants experimental biology of the Academy of Sciences of Uzbekistan, Tashkent, Uzbekistan

66. Genetic and Molecular analysis of fusarium Wilt resistance in Chinese Gossypium barbadense
Yanying Qu, Xinjiang Agricultural University, Urumqi, China and Quanjia Chen, Xinjiang Agricultural University, Urumqi, Xinjiang, China

67. Mapping Heterotic Loci for yield and agronomic Traits Using Chromosome Segment Introgression Lines in Cotton
Xianliang Song¹, Xin Guo², Yuping Guo³, Xuezhen Sun³, David D Fang¹ and Tianzhen Zhang¹, (1)USDA-ARS SRRC, New Orleans, LA, (2)Shandong Agricultural University, Taian, China, (3)National Key Laboratory of Crop Genetics and Germplasm Enhancement, Nanjing, China

Cotton Insect Research and Control Conference Posters

68. Evaluation of Insecticide oversprays for control of Bollworms in transgenic Bt Cotton: TX
Stephen Biles, Texas A&M AgriLife Extension Service, Port Lavaca, TX, Roy Parker, Texas A&M AgriLife Extension Service, Corpus Christi, TX, Clyde Crumley, Texas A&M AgriLife Extension Service, Wharton, TX, Rick R. Minzenmayer, Texas AgriLife Extension Service, Ballinger, TX, Kerry T Siders, Texas A&M AgriLife Extension, Levelland, TX, Monti Vandiver, Texas A&M AgriLife Extension Service, Muleshoe, TX and Dale Mott, Texas A&M AgriLife Extension Service, College Station, TX

69. Glandless Cotton in New Mexico: Beet Armyworm, Spodoptera exigua and Bollworm, Helicoverpa zea Development, Field Damage and Potential for Biological Control
Jane Breen Pierce¹, Patricia Monk², Andrew Garnett¹, Robert Flynn¹ and John Idowu², (1)New Mexico State University, Artesia, NM, (2) New Mexico State Univ., Las Cruces, NM
70. Hophorn Bean Copperleaf, an Example Wild Host for Helicoverpa Zea
Randall G Luttrell, USDA ARS, Stoneville, MS, Nathan Little, USDA, Stoneville, MS and Clint Allen, USDA ARS Southern Insect Management Research Unit, Stoneville, MS

71. Challenges to Monitoring Bt Resistance in Helicoverpa Zea
Nathan S Little, Michelle Mullien, Kenya Dixon and Randall G Luttrell, (1)USDA-ARS, Stoneville, MS, (2)USDA ARS, Stoneville, MS

72. Influence of Bidrin® for Control of Tarnished Plant Bugs in Cotton
Ned M French, AMVAC Chemical Corporation, Newport Beach, CA

73. Effect of Gossypolone on the Growth and Development of Helicoverpa Zea
Robert D Stipanovic, Jesus Esquivel, John Westbrook, Lorraine Puckhaber, Michael O’Neil, Alois A. Bell, Sara E Duke, Michael Dowd and Kater D Hake, (1)USDA-ARS-CPRU, College Station, TX, (2)USDA, College Station, TX, (3)USDA-ARS-SPARC, College Station, TX, (4)USDA-ARS, College Station, TX, (5)USDA, New Orleans, LA, (6) Cotton Incorporated, Cary, NC

74. Managing Thrips Organically Using Host Plant Resistance and Entrust Insecticide
Monti Vandiver, Dylan Q Wann, Apurba K Barman, Jane K Dever, Megha Parajulee and Mark D Arnold, (1)Texas A&M AgriLife Extension Service, Muleshoe, TX, (2)Texas A&M AgriLife Research, Lubbock, TX, (3)Texas A&M AgriLife Extension Service, Lubbock, TX, (4)Soil & Crop Science, Texas A&M AgriLife Research, Lubbock, TX

75. Cotton Fleahopper Damage on Water-Stressed Cotton
Michael Brewer, Texas AgriLife Research and Department of Entomology, Corpus Christi, TX, Darwin Anderson, Texas A&M AgriLife Research, Corpus Christi, TX and Megha Parajulee, Texas A&M AgriLife Research, Lubbock, TX

76. Cotton Performance and Insect Pressure in a Sod, Cotton, Peanut Cropping System
David Griffin, Michael Toews and Scott Tubbs, University of Georgia, Tifton, GA

77. Variation in Cotton Varietal Response to Western Flower Thrips Injury
Abdul Hakeem and Megha Parajulee, Texas A&M AgriLife Research, Lubbock, TX

78. Management of Tarnished Plant Bug in NE Arkansas with Insecticide Rotations
Logan Towles and Glenn Studebaker, University of Arkansas Cooperative Extension Service, Keiser, AR

79. Evaluation of Neonicotinoid Insecticides as an Alternative for Aldicarb for Early-Season Cotton Insect Pest Management in Louisiana
Karla Emfinger, T. Shelby Williams, Nathaniel Jones, David D Kerns and Jenna Lindsay, LSU AgCenter, Winnsboro, LA

80. Effects of Morning and Night Applications of Beauveria bassiana Strains N18 and Gha against the Tarnished Plant Bug in Cotton
Maribel R Portilla, Randall G Luttrell and Gordon Snodgrass, USDA ARS, Stoneville, MS

81. Management of Thrips on Cotton in the Texas High Plains: Efficacy of Seed Treatments
Apurba K Barman, Texas A&M AgriLife Extension Service, Lubbock, TX, Monti Vandiver, Texas A&M AgriLife Extension Service, Muleshoe, TX, Blayne Reed, Texas A&M AgriLife Extension Service, Plainview, TX and Kerry T Siders, Texas A&M AgriLife Extension, Levelland, TX
Insect Control Termination Decisions Across Irrigated and Rainfed Management Zones in Center Pivot Irrigated Cotton
Tina Gray Teague1, Erin J Kelly1 and Diana M. Danforth2, (1) Arkansas State University - University of Arkansas Agricultural Experiment Station, State University, AR, (2)University of Arkansas Department of Agricultural Economics and AgriBusiness, Fayetteville, AR

Mid-Season Management of Cotton Aphids (Aphis gossypii) and Silverleaf Whitefly (Bemisia argentifolii)
Larry D Godfrey, UC Davis, Davis, CA and Treanna Pierce, UC Davis, Shafter, CA

Influence of Nitrogen Fertilizer on Cotton Host-Plant Quality and Its Impact on Cotton Aphids
Megha Parajulee, Stanley Carroll and Abdul Hakeem, Texas A&M AgriLife Research, Lubbock, TX

Effect of Pymetrozine on Square Protection and Emergence of Adults of the Boll Weevil, Anthonomus grandis, in Cotton
Geraldo Papa1, Fernando Juari Celoto1, Victor Basso Montoro2, João Antonio Zanardi Junior1 and Eduardo V. C. Barbosa2, (1)Unesp - Campus de Ilha Solteira/SP/Brazil, Ilha Solteira, Brazil, (2)Unesp - Campus de Ilha Solteira/SP, Ilha Solteira/SP, Brazil

Development of a New Extended-Release Pheromone Lure for the Boll Weevil
Charles Suh1, John Westbrook1, Amanda Ramsey2 and Gerry Bohmfalk2, (1)USDA, College Station, TX, (2)Scentry Biologicals, Billings, MT

Evaluation of Planting Date, Cotton Variety, and PRE Herbicide on Thrips Infestation in Cotton
J. Drake Copeland1, Darrin M Dodds1, Tyler H. Dixon1, Daniel Z Reynolds1, Chase A. Samples1, Angus Catchot1, Jeff Gore2 and David Wilson2, (1)Mississippi State University, Mississippi State, MS, (2)Mississippi State University, Stoneville, MS, (3)Monsanto, St. Louis, MO

Efficacy of Select Insecticide Seed Treatments for Control of Thrips in Arkansas
Nichole M. Taillon1, Gus Lorenz1, Andrew Plummer1, Michael Chaney1, Derek L. Clarkson1, Ben C. Thrash2, Luis Orellana2, Mallory Everett1 and Sean L. Flynn1, (1)Cooperative Extension Service, University of Arkansas, Lonoke, AR, (2)University of Arkansas Department of Entomology, Fayetteville, AR

Host Plants of the Tarnished Plant Bug, Lygus lineolaris (Palisot de Beauvois)
Katherine A. Parys and Gordon Snodgrass, USDA ARS, Stoneville, MS

Remote Sensing of Vegetative Cotton to Assist Boll Weevil Eradication
C. Yang, C. Shu, J. Westbrook, and R. Eyster, USDA, College Station, TX

Cotton Quality Measurements Conference Posters

Fiber Mass, Count and Breaking Force from Stelometer Test
Yongliang Liu, USDA, ARS, New Orleans, LA and Devron Thibodeaux, USDA, ARS, Clemson, SC

Effect of Fruiting Position on Cotton (Gossypium hirsutum) Fiber Fineness and Maturity
Matthew O Indest, Louisiana State University, Baton Rouge, LA, Gerald O Myers, LSU Agcenter, Baton Rouge, LA and James Rodgers, USDA-ARS-SRRC, New Orleans, LA

Cotton Trash Characterization with Fluorescence Spectroscopy
Adnan Mustafic and Changying Li, University of Georgia, Athens, GA
Classification of Cotton Trash by Using Color Models’ Parameters Extracted from Fluorescent Images of Cotton Trash
Adnan Mustafic and Changying Li, University of Georgia, Athens, GA

Cotton Soil Management and Plant Nutrition Conference Posters

Cotton Soil Management and Plant Nutrition poster authors present from 10:00 am to 12:00 pm on Tuesday, January 7

Sensitivity of Multiple Canopy N Stress Indices to Changes in Variety and Available Potassium
Tyson B. Raper, Derrick M Oosterhuis, Leo Espinoza, Taylor Coomer, Cristiane Pilon and James M Burke, (1)University of Arkansas, Fayetteville, AR, (2)University of Arkansas, Little Rock, AR

Using Apparent Soil EC to Establish Management Zones in Cotton Cropping Systems
Ronnie Schnell, Dale Mott, Mark L. McFarland, Tony Provin, Cristine L.S. Morgan and Gaylon D. Morgan, (1) Texas A&M AgriLife Extension Service, College Station, TX, (2)Texas A&M University, College Station, TX

Managing Winter Cover Crops in Cotton to Improve Soil Health
Matthew Rhine, Gene Stevens and Heiser Jim, (1)University of Missouri, Portageville, MO, (2)University of Missouri, Portageville, MO

Crop Yield, Nutrient Uptake, and Nutrient Removal in Mississippi’s Centennial Rotation
M. Wayne Ebelhar, Delta Res. & Ext. Center, Mississippi State University, Stoneville, MS and Davis R. Clark, Mississippi State University, Stoneville, MS

Cotton Utilization Conference: Textiles/Chemistry/Nonwovens Posters

Graphine Oxide Nanostructure Modified Cotton Fabric
Dawit Getachew Zeleke, politecnico di torino, Torino, Italy

Cotton Weed Science Research Conference Posters

Preplant Control of Horseweed for No-Till Cotton in Oklahoma
T. Shane Osborne, Randy K. Boman and Robert N Rupp, (1) Oklahoma State University, Altus, OK, (2)Dupont Crop Protection, Edmond, OK

Fall Applications of Residual Herbicide Mixtures
Henry M Edwards, Jason A Bond, Thomas W Eubank and Garret B Montgomery, Mississippi State University, Stoneville, MS

Cotton and Palmer Amaranth Response to Postemergence-Directed Applications with Huskie
T. Shay Morris, J. Wayne Keeling, Peter A. Dotray and Russ Perkins, (1)Texas A&M AgriLife Research, Lubbock, TX, (2)Texas Tech University, Lubbock, TX, (3)Bayer CropScience, Idalou, TX

Does Cotton Seed Size Influence the Risk of Injury from Soil-Applied Herbicides?
Brandon W. Schrage, Tom Barber, Jason K. Norsworthy and Fred Bourland, (1)University of Arkansas, Fayetteville, AR, (2)University of Arkansas Extension, Lonoke, AR, (3)University of Arkansas, Keiser, AR
104. **Evaluation of Glytol/LibertyLink Cotton Weed Control Programs in Louisiana**

Donnie Miller¹, Daniel O Stephenson, IV², Jason A Bond³ and Marcia Matthews¹, (1)LSU AgCenter, St. Joseph, LA, (2)LSU AgCenter, Alexandria, LA, (3)Mississippi State University, Stoneville, MS

105. **Evaluation of Fluridone and Pyroxasulfone for Residual Control of Palmer Amaranth in Cotton Compared to Currently Used Commercial Herbicides**

Whitney D. Crow, Lawrence E. Steckel, Matthew S. Wiggins and Robert M. Hayes, The University of Tennessee, Jackson, TN

106. **Control of Volunteer Cotton Using Post-Emergent Herbicides in the Texas Rio Grande Valley**

Jacob J Pekar, Texas A&M Kingsville, Bryan, TX

107. **Residual Herbicides and Engenia™ Efficacy in Bollgard II Xtendflex™ Cotton**

J. Wayne Keeling¹, Jacob D. Reed², Justin L. Spradley¹, C. Joel Webb¹ and Macy R. Sutherland¹, (1)Texas A&M AgriLife Research, Lubbock, TX, (2)BASF, Lubbock, TX

108. **Cotton and Weed Response to Combinations of Glyphosate and Glufosinate Applied with Acephate and Residual Herbicides**

Matt Inman, Mark Rinehardt, Keith L Edmisten, David L Jordan, Alan C York, Jack S Bacheler and Randy Wells, North Carolina State University, Raleigh, NC

109. **Non-2,4-D Tolerant Cotton Response to Drift and Tank Contamination**

Misha R. Manuchehri¹, Peter A. Dotray¹, T. Shay Morris², J. Wayne Keeling², Paul A. Baumann³ and Gaylon D. Morgan³, (1)Texas Tech University, Lubbock, TX, (2)Texas A&M AgriLife Research, Lubbock, TX, (3)Texas A&M AgriLife Extension Service, College Station, TX

110. **Use of Fluridone for Palmer Amaranth Control in Cotton to Decrease the Total Number of Herbicide Applications Season-Long**

Zachary T. Hill, Jason K. Norsworthy, Holden D. Bell, Mohammad Bararpour and Chris J. Meyer, University of Arkansas, Fayetteville, AR

111. **Management Strategies for Potential Herbicide-Resistant Weeds in Cotton in the San Joaquin Valley of California**

Gerardo Banuelos¹, Steven D. Wright², Anil Shrestha¹ and Sonia I. Rios¹, (1)California State University, Fresno, Fresno, CA, (2)University of California Cooperative Extension-Tulare/Kings Co., Tulare, CA

112. **Brake and Reflex at-Plant Combinations for Palmer Amaranth Control in Cotton**

Michael W. W Marshall, School of Agriculture, Forestry, and Environmental Sciences, Clemson University, Blackville, SC

113. **Evaluating for Palmer Amaranth (Amaranthus palmeri) Resistance in Herbicide Tolerant Cropping Systems in the San Joaquin Valley**

Sonia I. Rios¹, Steven D. Wright¹ and Anil Shrestha², (1)University of California Cooperative Extension-Tulare/Kings Co., Tulare, CA, (2)California State University, Fresno, Dept. of Plant Science, Fresno, CA
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