



National
Cotton
Council
OF AMERICA

Beltwide Cotton Conferences



FINAL PROGRAM

New Orleans Marriott Hotel • Sheraton New Orleans Hotel
New Orleans, Louisiana • January 4-7, 2010



Beltwide Cotton Conferences

The Beltwide Cotton Conferences (BWCC) speed the transfer of new technology to U.S. cotton producers and other industry members with the goal of strengthening U.S. cotton's competitive position in the world market-place and enhancing industry members' profitability.

Coordinated by the National Cotton Council (NCC) and its cooperating partners, this annual forum is recognized as the global champion for cotton technology transfer. Four days of individual reports, panel discussions, hands-on workshops and seminars are designed to enlighten industry members about the latest research developments and their practical applications in cotton production and processing. The 600-plus reports are subsequently made available on CD-ROM and on the Beltwide web site at <http://beltwide.cotton.org>.

While cotton industry members recognize the wealth and range of information made available through these reports,

they also gain valuable information from fellow attendees - cotton producers, processors, scientists, Extension personnel, consultants, agribusiness representatives and others. This dialogue among all who have a vested stake in a healthy U.S. cotton sector helps industry members tailor new products and production/processing systems to their operations for maximum efficiency.

The Conferences' success can be attributed to the alliance of the NCC and its many partners. Federal and State Agricultural Experiment Stations, the Cooperative Extension Service, universities, USDA, Cotton Foundation members, news media and other regional and national cotton organizations all contribute and support the Beltwide Cotton Conferences. This partnership leads to increased U.S. cotton industry productivity and profitability.





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General Information

For the latest information about the Conferences, visit <http://beltwide.cotton.org>.

Registration

After December 23, 2009 anyone registering for the Conferences must pay the full registration fee. Register online at <http://beltwide.cotton.org/registration>.

On-Site

Already registered?

Go to the Beltwide Cotton Conferences' Registration Kiosk, located in the New Orleans Marriott Hotel, Level 2, to print your name tag.

Not registered?

Go to the Beltwide Registration Kiosks located in the New Orleans Marriott Hotel, Level 2, and register. NCC staff will be available to help you or answer any questions.

Cotton Foundation Exhibits

The latest cotton technology awaits attendees at these exhibits – a place where Cotton Foundation members are eager to update conferees on the unique products and services they supply to help improve cotton industry members' profitability. Many exhibitors will have investigators and coordinators in their booths to answer questions about the special

Hotel Information

Hotel	Rates*	Parking*
New Orleans Marriott Hotel, 555 Canal Street, New Orleans, LA 70130	\$160 single/double	Valet \$30.00/day
Sheraton New Orleans Hotel, 500 Canal Street, New Orleans, LA 70130	\$146 single/double**	Valet \$26.95/day

*Applicable taxes not included

**Free in-room internet service for Sheraton only

Beltwide Contacts

Topic	Contact	Phone	Fax	Email
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Cotton Crafts Store	Debbie Richter	(901) 274-9030	(901) 725-0510	drichter@cotton.org
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Air Travel/ Rental Car	Mary Saemenes	(888) 232-1738 (901) 762-7018	(901) 766-0126	msaemenes@travelennium.com

research and educational projects their firm sponsors through the Foundation.

The exhibit hall also provides an excellent opportunity for exhibitors and visitors alike to talk with producers, consultants, researchers and other professionals involved in U.S. cotton.

Exhibit Hours:

Tuesday, January 5	Noon – 6:00 p.m.
Wednesday, January 6	10:00 a.m. – 4:00 p.m.

Cotton Crafts Store

A variety of cotton gifts from T-shirts and caps to watercolor paintings and more will be sold in the Cotton Crafts Store.

Open:

Monday, January 4	10:00 a.m. - 5:00 p.m.
Tuesday, January 5	8:00 a.m. - 5:00 p.m.
Wednesday, January 6	8:00 a.m. - 5:00 p.m.
Thursday, January 7	8:00 a.m. - 1:00 p.m.

Continuing Education and Certification Credits

Applications and credit information will be available at the CEU desk in the New Orleans Marriott Hotel, Level 2, Monday - Thursday.



Schedule of Events

M = New Orleans Marriott **S** = Sheraton New Orleans Floor Number in Parentheses

MONDAY, JANUARY 4		
9:00a-12:00p	Extension Cotton Specialist Meeting (by invitation only)	M – Mardi Gras Salon C (3rd)
10:00a-5:00p	News Room	M – Preservation Hall Studio 7-8 (2nd)
10:00a-5:00p	OPEN for Attendees: • Conference Registration • NCC Membership Desk • CEU Desk • Tour Ticket Desk	M – Preservation Hall Foyer (2nd)
10:00a-5:00p	Cotton Craft Store	M – Galleries Foyer (2nd)
10:00a-5:00p	Confex Presentation Uploading Room	M – Preservation Hall Studio 6 (2nd)
12:00p-1:30p	Cotton Consultants Lunch	M – Mardi Gras Salon D (3rd)
1:00p-5:30p	Cotton Consultants Conference General Session	M – Mardi Gras Salon E-H (3rd)
TUESDAY, JANUARY 5		
6:30a-8:00a	NCC/CI News Briefing (by invitation only)	M – Preservation Hall Studio 10 (2nd)
7:00a-8:00a	Continental Breakfast	S – Grand Ballroom Foyer (5th)
7:30a-5:00p	OPEN for Attendees: • Conference Registration • NCC Membership Desk • CEU Desk • Tour Ticket Desk	M – Preservation Hall - Foyer (2nd)
7:30a-5:00p	Confex Presentation Uploading Room	M – Preservation Hall – Studio 6 (2nd)
8:00a-9:30a	Spouse Hospitality Room	S – Lagniappe (2nd)
8:00a-12:00p	Cotton Production Conference	S – Grand Ballroom (5th)
8:00a-5:00p	News Room	M – Preservation Hall – Studio 7-8 (2nd)
8:00a-5:00p	Cotton Crafts Store	M – Galleries Foyer (2nd)
10:00a-10:30a	Coffee Break	S – Grand Ballroom Foyer (5th)
12:00p-1:30p	Cotton Grower Beltwide Luncheon (by invitation only)	S – Rhythms Ballroom (2nd)
12:00p-6:00p	Cotton Foundation Technical Exhibits	M – Carondelet/ Bissonet (3rd)
12:00p-6:00p	Poster Session	M – Acadia (3rd)
12:15p-1:15p	Technical Chairpersons Meeting (by invitation only)	M – Preservation Hall Studio 10 (2nd)
1:30p-3:30p	New Developments from Industry – Varieties	M – Mardi Gras Ballroom E-H (3rd)
1:30p-3:30p	Producer Roundtable: Conservation Programs	M – Mardi Gras Ballroom D (3rd)
1:30p-3:30p	Cotton and the Environment: What is Sustainability?	M – Preservation Hall – Studio 9 (2nd)
1:30p-3:30p	Producer Roundtable: Insect Management	M – Galleries 1-2 (2nd)
1:30p-6:00p	Site-Specific Management of Nematodes: A Multi-State Evaluation of Fumigation and Selected Nematicides	M – Galleries 4 & 5 (2nd)
2:00p-3:30p	The Profit's In the Details: Manage Risk by Knowing More	M – Preservation Hall – Studio 2 (2nd)
2:30p-5:30p	Cotton Options Workshop	M – Mardi Gras Ballroom A-C (3rd)
3:30p-4:00p	Coffee Break	M – Foyers
4:00p-5:30p	National Cotton Variety Testing Program Committee Meeting (by invitation only)	M – Balconies J/K (4th)
4:00p-6:00p	Effective and Efficient Irrigation for Cotton Production	M – Galleries 3 & 6 (2nd)
4:00p-6:00p	Producer Roundtable: Variety Selection	M – Mardi Gras Ballroom D (3rd)
4:00p-6:00p	Producer Roundtable: Weed/Resistance Management	M – Galleries 1-2 (2nd)
4:00p-6:00p	Louisiana Farm Bureau Cotton Advisory Committee Meeting	M – Balcony N (4th)
4:00p-5:20p	New Developments from Industry – Varieties, Chemistry, Emerging Technology, and Equipment	M – Mardi Gras Ballroom E-H (3rd)
5:30p-6:30p	Cotton Crop Germplasm Committee	M – Balcony I (4th)
6:00p-7:00p	Beltwide Reception, sponsored by Deltapine	S – Napoleon Ballroom (3rd)
9:00p-11:00p	Dessert Bar Reception, hosted by Farm Press (by invitation only)	M – Galleries 5&6 (2nd)



Schedule of Events

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Schedule / Room Maps

WEDNESDAY, JANUARY 6		
6:30a-8:00a	Cotton Foundation High Cotton Awards Breakfast (by invitation only)	S – Waterbury Ballroom (2nd)
7:00a-8:00a	Continental Breakfast	S – Grand Ballroom Foyer (5th)
7:30a-5:00p	OPEN for Attendees: • Conference Registration • NCC Membership Desk • CEU Desk • Tour Ticket Desk	M – Preservation Hall - Foyer (2nd)
7:30a-5:00p	Confex Presentation Uploading Room	M – Preservation Hall – Studio 6 (2nd)
8:00a-9:30a	Spouse Hospitality Room	S – Lagniappe (2nd)
8:00a-10:00a	Cotton Production Conference	S – Grand Ballroom (5th)
8:00a-5:00p	Cotton Crafts Store	M – Galeries Foyer (2nd)
8:00a-5:00p	News Room	M – Preservation Hall – Studio 7-8 (2nd)
10:00a-10:30a	Coffee Break	M – Foyers
10:00a-4:00p	Cotton Foundation Technical Exhibits	M – Carondelet/ Bissonet (3rd)
10:00a-10:00p	Poster Session	M – Acadia (3rd)
10:30a-12:00p	Cotton Economic Outlook Symposium	M – Galeries 1-2 (2nd)
10:30a-12:00p	Extension Cotton Specialists Working Group	M – Galeries 4-5 (2nd)
10:30a-12:00p	Geographical Sampling Concepts and Techniques for Cotton Pest Management – Basic and Intermediate Concepts	M – Galerie 6 (2nd)
10:30a-12:00p	Cotton Boll Damaging Organisms	M – Galerie 3 (2nd)
10:30a-12:00p	Variable Rate Nitrogen Applications Using On-The-Go Optical Sensors: Do They Have A Place on My Farm?	M – Mardi Gras Ballroom Salon E (3rd)
10:30a-12:00p	Cotton Insect Research & Control Special Session: Boll Weevil Symposium	M – Mardi Gras Ballroom D (3rd)
10:30a-1:00p	SRRC Tour: Cotton Utilization Conference - Overview Session	Off hotel property @ SRRC
12:00p-1:30p	Tecoman	M – Bonaparte (4th)
1:30p-6:00p	Cotton Ginning Conference	M – Preservation Hall Studios 1-3 (2nd)
1:30p-6:45p	Cotton Disease Council	M – Galerie 1 (2nd)
1:30p-7:00p	Cotton Agronomy and Physiology Conference - Session A	M – Galerie 6 (2nd)
1:30p-5:45p	Cotton Agronomy and Physiology Conference - Session B	M – Galerie 5 (2nd)
1:30p-6:00p	Cotton Engineering-Systems Conference	M – Preservation Hall Studios 9-10 (2nd)
1:30p-6:00p	Cotton Quality Measurements	M – Balcony J (4th)
1:30p-6:00p	Cotton Economics and Marketing Conference	M – Galerie 3 (2nd)
1:30p-6:00p	Cotton Improvement Conference	M – Mardi Gras Ballroom F-H (3rd)
1:30p-6:00p	Cotton Weed Science Research Conference	M – Galerie 2 (2nd)
1:30p-6:00p	Cotton Soil Management & Plant Nutrition Conference	M – Mardi Gras Ballroom E (3rd)
1:30p-6:00p	Cotton Insect Research & Control Conference - Session A	M – Mardi Gras Ballroom D (3rd)
1:45p-5:30p	Cotton Insect Research & Control Conference - Session B	M – Mardi Gras Ballroom B-C (3rd)
1:45p-6:00p	Cotton Utilization Conference: Nonwovens Symposium	M – Balcony I (4th)
1:45p-6:00p	Cotton Utilization Conference: Fabric Chemistry & Products Symposium	M – Balcony K (4th)
2:00p-3:30p	Cotton Research & Promotion Program Press Conference (by invitation only)	M – Balcony N (4th)
3:30p-4:00p	Coffee Break - Location in Posterboard Session (Authors present)	M – Acadia (3rd)
3:45p-5:00p	Bayer CropScience Press Conference	M – Mardi Gras Ballroom A (3rd)
5:00p-6:00p	Journal of Cotton Science Editorial Board	M – Napoleon (41st)
5:45p-6:30p	Cotton Industry Support Group Meeting	M – Preservation Hall Studios 1-3 (2nd)
6:00p-7:00p	Cotton Agronomy and Physiology Business Meeting and Mixer (by invitation only)	M – Galerie 6 (2nd)
6:30p-10:00p	Cotton Specialist of the Year Banquet (by invitation only)	Broussards Restaurant
6:30p-9:00p	Joint Cotton Breeding	M – St. Charles (41st)



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Schedule / Room Maps

THURSDAY, JANUARY 7		
7:00a-8:00a	Continental Breakfast	M – Preservation Hall Foyer (2nd)
7:30a-12:00p	Confex Presentation Uploading Room	M - Preservation Hall – Studio 6 (2nd)
7:30a-2:00p	OPEN for Attendees: • Conference Registration • NCC Membership Desk • CEU Desk • Tour Ticket Desk	M – Preservation Hall - Foyer (2nd)
8:00a-9:30a	Spouse Hospitality Room	S – Lagniappe (2nd)
8:00a-10:00a	Cotton Quality Measurements Conference	M – Balcony J (4th)
8:00a-10:00a	Cotton Engineering-Systems Conference	M – Preservation Hall Studios 9-10 (2nd)
8:00a-10:00a	Cotton Ginning Conference	M – Preservation Hall Studios 1-3 (2nd)
8:00a-10:00a	Cotton Utilization Conference – Textile Technology Symposium	M – Balcony K (4th)
8:00a-10:05a	Cotton Utilization Conference: Nonwovens	M – Balcony I (4th)
8:00a-12:00p	News Room	M – Preservation Hall – Studio 7-8 (2nd)
8:00a-12:00p	Poster Session	M – Acadia (3rd)
8:00a-12:00p	Cotton Weed Science Research Conference	M – Galerie 2 (2nd)
8:00a-12:00p	Cotton Agronomy and Physiology Conference - Session A	M – Galerie 6 (2nd)
8:00a-12:00p	Cotton Economics and Marketing Conference	M – Galerie 3 (2nd)
8:00a-1:00p	Cotton Crafts Store	M – Galleries Foyer (2nd)
8:00a-1:00p	Cotton Disease Council	M – Galerie 1 (2nd)
8:00a-1:00p	Cotton Insect Research & Control Conference – Session A	M – Mardi Gras Ballroom D (3rd)
8:00a-1:00p	Cotton Insect Research & Control Conference – Session B	M – Mardi Gras Ballroom B-C (3rd)
8:00a-5:15p	Cotton Improvement Conference	M – Mardi Gras Ballroom F-H (3rd)
8:30a-12:00p	Cotton Soil Management & Plant Nutrition Conference	M – Mardi Gras Ballroom E (3rd)
10:00a-10:30a	Coffee Break	M – Foyers
10:30a-11:45a	Cotton Agronomy and Physiology Conference - Session B	M – Galerie 5 (2nd)
10:30a-12:00p	Joint Session: Cotton Quality Measurements & Utilization Conferences	M – Balcony J (4th)
10:30a-12:40p	Joint Session: Nonwovens and Fabric Chemistry and Products	M – Balcony I (4nd)
10:30a-3:00p	Joint Session: Engineering Systems/Ginning Conferences	M – Preservation Hall Studios 1-3 (2nd)
3:00p-3:30p	Coffee Break	M – Foyers

USA HOSTS TOUR DESK HOURS
Monday: 10:00a – 5:00p
Tuesday: 7:30a – 5:00p
Wednesday: 7:30a – 5:00p

ON THE TOWN (RESTAURANT RESERVATIONS) HOURS
Monday: 11:00a – 5:00p
Tuesday: 11:00a – 5:00p
Wednesday: 11:00a – 5:00p

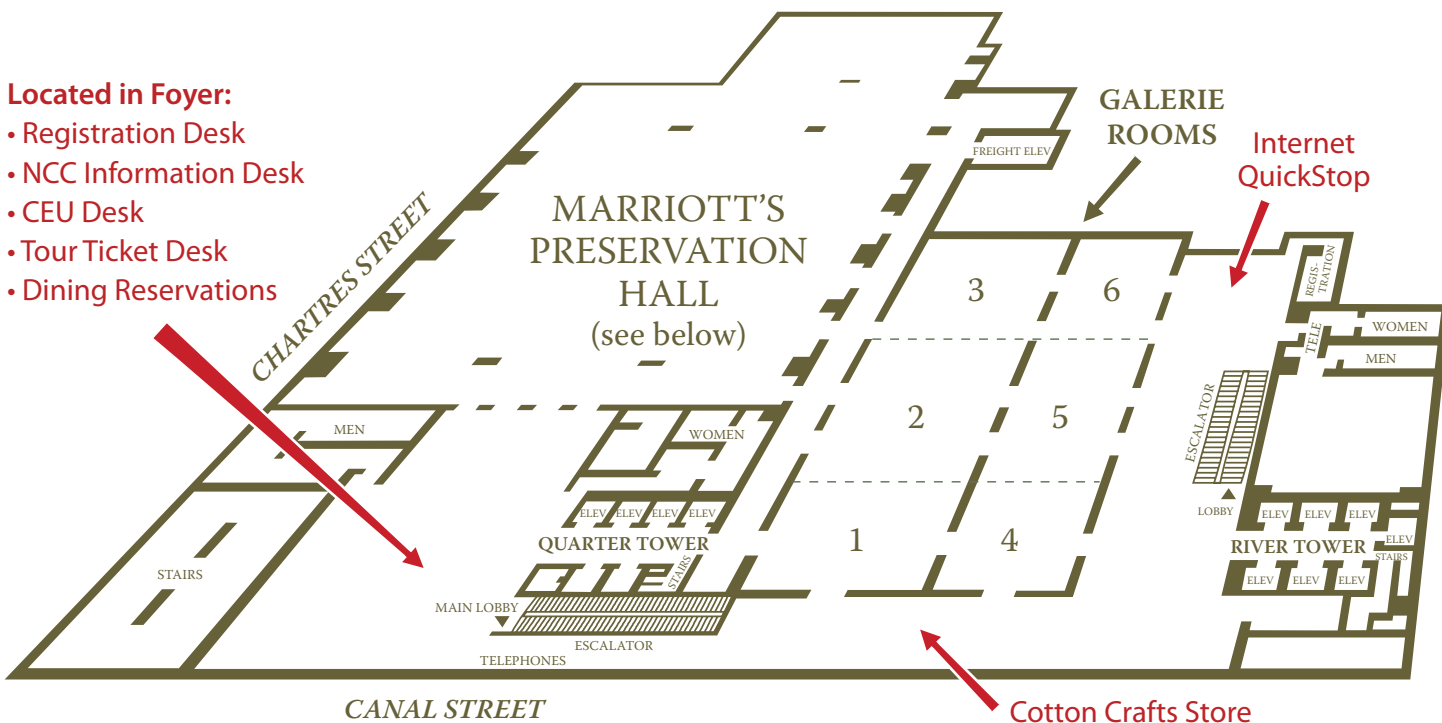


Schedule / Room Maps

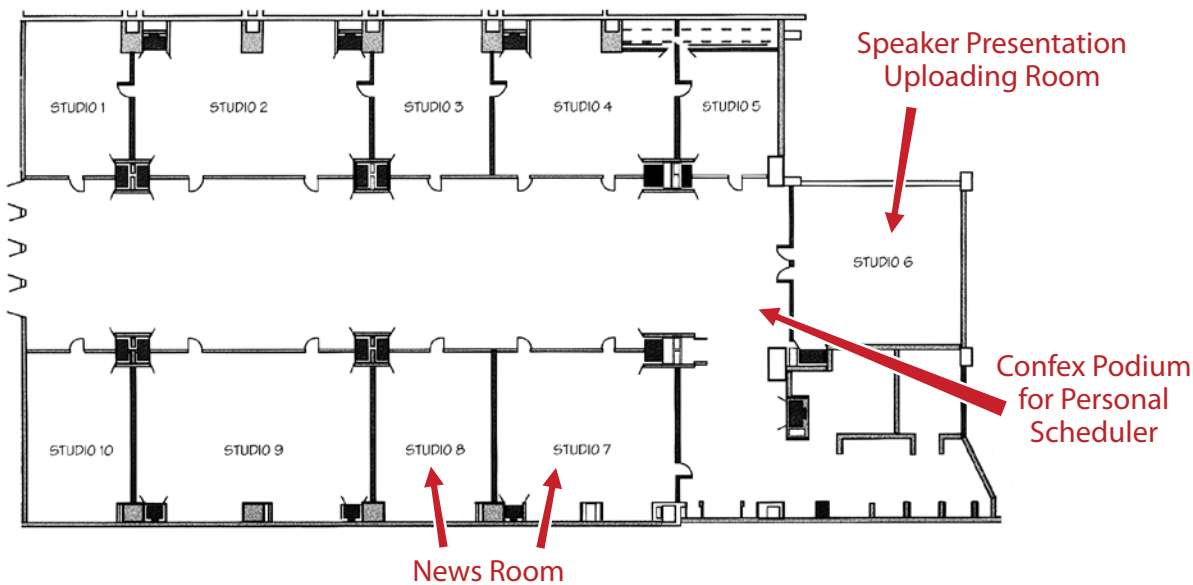
Marriott Meeting Room Floor Plans

2nd Floor

- Located in Foyer:**
- Registration Desk
 - NCC Information Desk
 - CEU Desk
 - Tour Ticket Desk
 - Dining Reservations



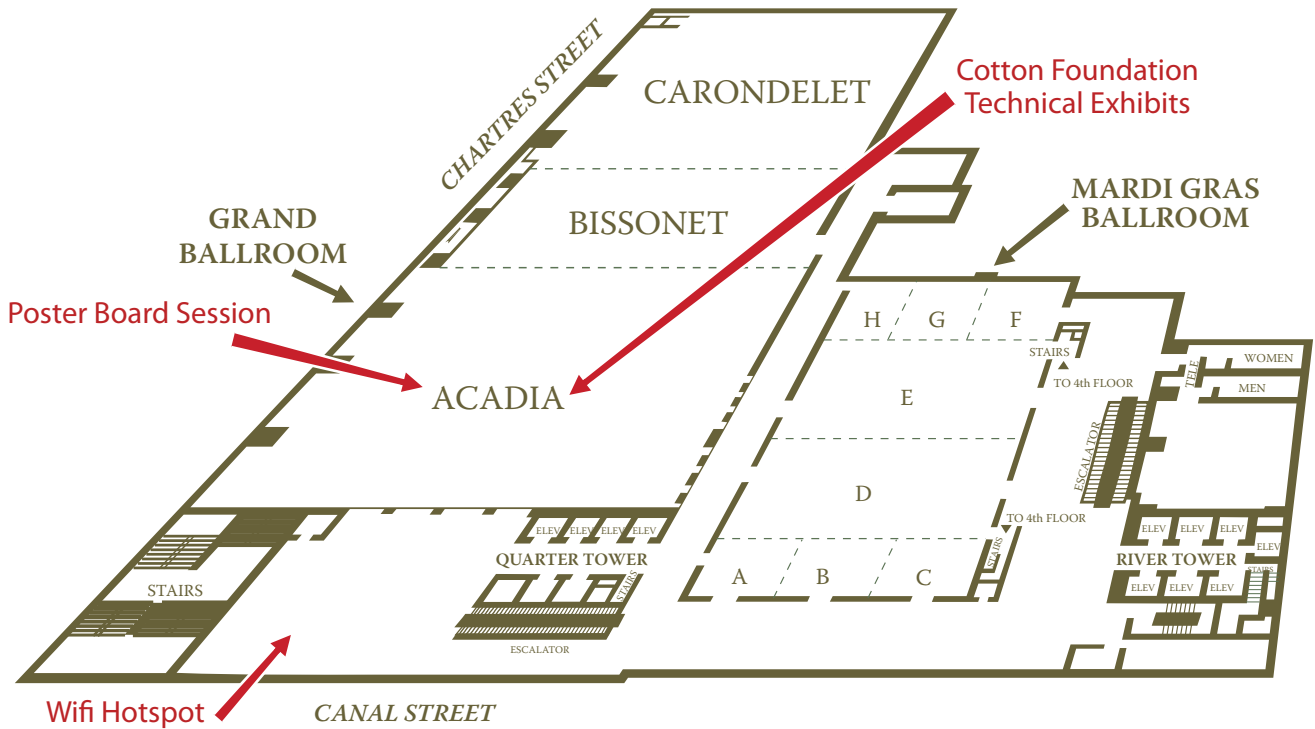
Marriott's Preservation Hall 2nd Floor



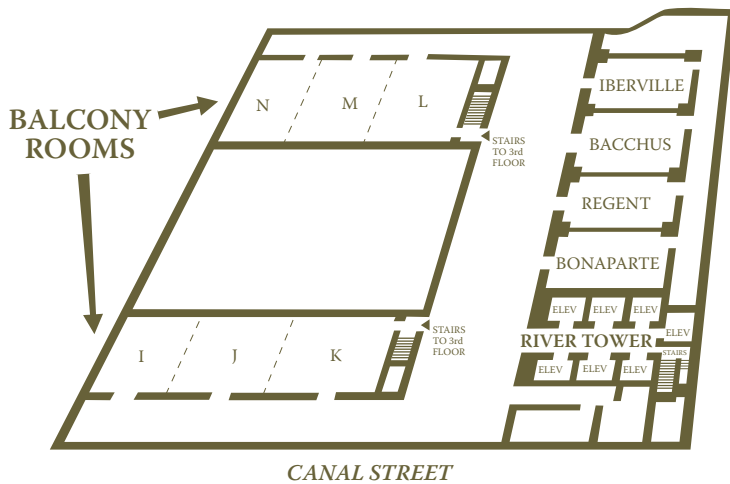


Marriott Meeting Room Floor Plans

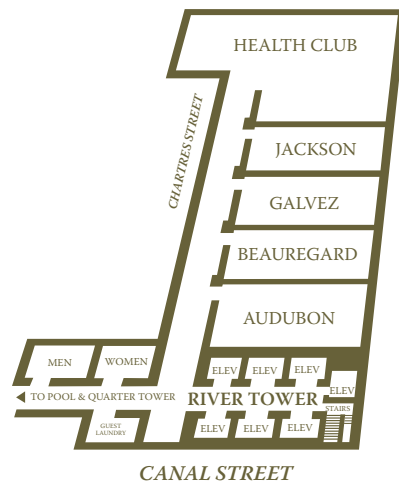
3rd Floor



4th Floor



5th Floor



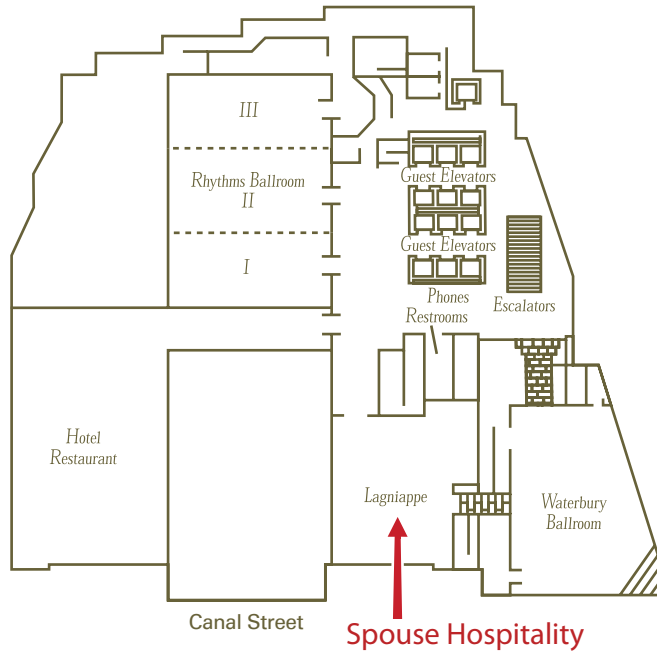
41st Floor Rooms
 River Tower Elevator
 St. Charles, Lafayette and Napoleon



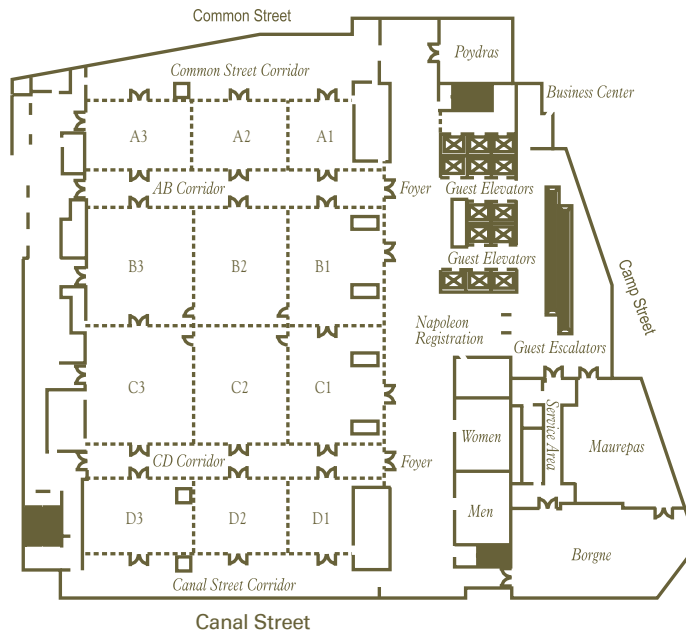
Sheraton Meeting Room Floor Plans

1st Floor Gallery Ballroom

2nd Floor

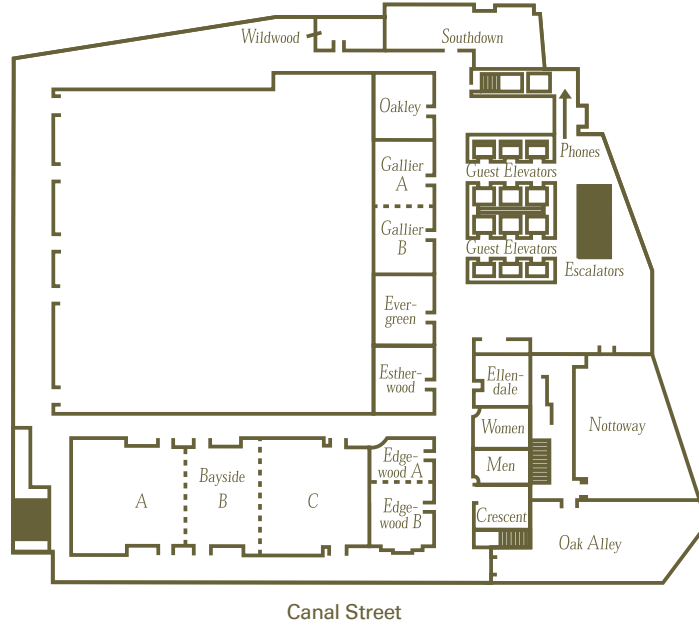


3rd Floor



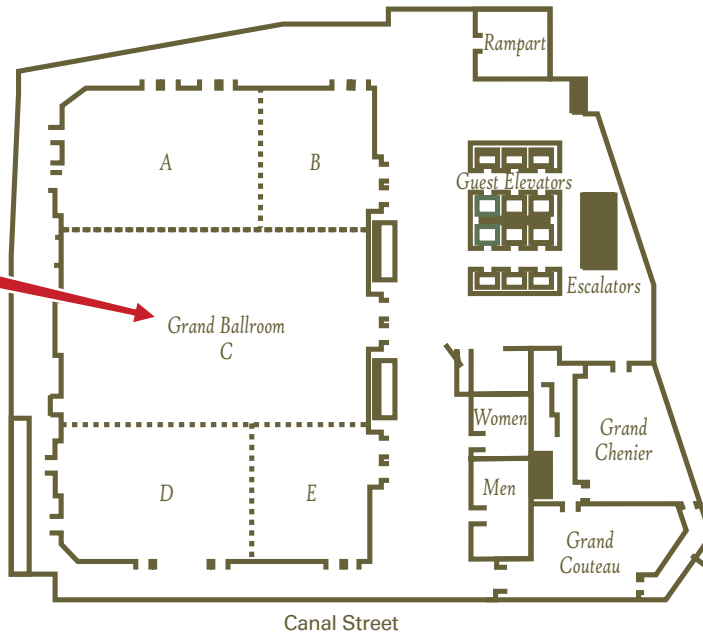


Sheraton Meeting Room Floor Plans



4th Floor

Cotton Production
Conference
General Session



5th Floor



New Orleans Area Map

Schedule / Room Maps



Official BWCC Hotels
 1. New Orleans Marriott
 2. Sheraton New Orleans



Spouse Program

Tour Ticket Information

It is recommended that tour tickets be reserved. If minimum tour numbers are not met by the sign-up deadline of Tuesday, December 15, some tours may be canceled.

Tour tickets may be reserved by going to <http://www.cotton.org/beltwide>. Click on the Spouse Programs link to register online, or print the form to mail or fax. Based on availability, tickets also may be purchased on-site at the BWCC Tour Ticket Desk.

Tour tickets may be picked up at the Beltwide Tour Ticket Desk located on Level 2 at the New Orleans Marriott Hotel.

Hospitality Room

A continental breakfast will be provided for all registered spouses in the Sheraton New Orleans Hotel, Lagniappe Foyer, Level 2, Tuesday – Thursday, January 5-7, 8:00 – 9:30 a.m.

While in New Orleans ...



- ✓ Where shall we dine?
- ✓ Where shall we go for entertainment?
- ✓ Where shall we rent a car? Shop? Golf? Relax?
- ✓ Who can help us arrange our catered event or arrange a “buy-out”?

For individual and group reservations at New Orleans’ most enjoyable restaurants, stop by the **On the Town** booth located near the Conference Registration Desk.





Spouse Tours

Riches of the River (Restored Antebellum Mansions)

Tuesday, January 5

12:00 noon – 4:30 p.m.



Reminisce about the days of a bygone era on this excursion into the river region of southeast Louisiana.

Today you will travel along historic River Road where your first stop will be made at the oldest plantation left intact in the lower Mississippi Valley, Destrehan Manor. Built in 1787, this home is an excellent example of the tremendous task of historical restoration.

In the early 1900's, the house and property were purchased by various oil companies. When the nearby oil refinery closed in 1958, the house was left unoccupied and quickly fell prey to vandals, fortune hunters and the elements. A magnificent restoration has returned the manor to its original beauty.

Continuing the tour upriver along the great Old River Road, a second visit will be made to one of the most remarkable examples of mid-19th century architecture in the state of Louisiana. San Francisco Plantation, circa 1854, has been painstakingly restored and authentically furnished according to descriptions found in the diary of the home's original owner. The home itself is a galleried edifice in the old Creole tradition with the main living quarters on the second floor.

The outside of the house reflects a unique architectural style sometimes called "Steamboat Gothic."

From San Francisco Plantation, your motorcoach will return you to your hotel in comfort - a perfect time for you to reflect on the days of Louisiana's glorious past!





Spouse Tours

A New Orleans Escapade into the Food, Fun and Folklore of Cooking the Creole Way

Wednesday, January 6

10 a.m. - 12:30 p.m.

\$42 per person (lunch included/short walk to cooking school)

A renovated molasses warehouse located in the heart of the Vieux Carre will be the site of your very special half day soiree . . . where you will be enticed to venture into the folklore of Louisiana cooking first hand. Your personal Chef Extraordinaire from the New Orleans School of Cooking (our local chefs can be colorful characters) will be instructing guests today — teaching one and all the techniques and secrets that get to the very soul of Cajun and Creole Cooking. Your Chef will walk participants through several New Orleans specialties and season them with history, trivia and fun stories . . . all while they are busy concocting their very own twist on our infamous New Orleans cuisine.

During the demonstrations, traditional New Orleans coffee, tea, lemonade and Abita Beer (locally brewed) will be made available. Your meal will consist of the delicious dishes prepared in the demonstration . . . with a typical menu as follows:

Menu With Three Courses

Cajun Gumbo

Creole Jambalaya

Bread Pudding with Whiskey Sauce

Pecan Pralines

Iced Tea, Coffee,

Abita Root Beer or Abita Beer





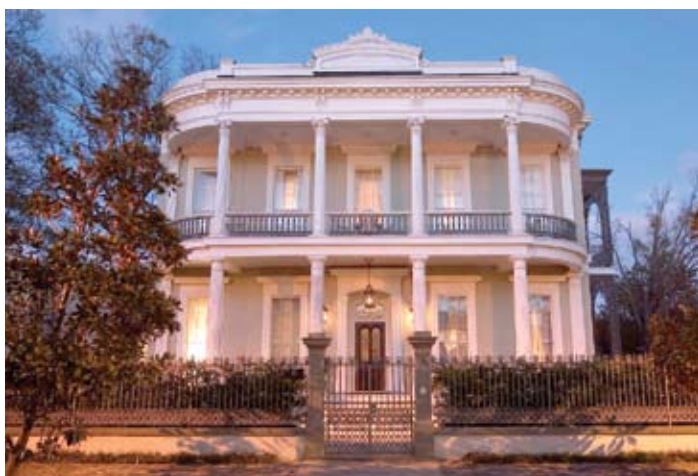
Spouse Tours

Grand Manors of the Garden District

Wednesday, January 6

2 - 5 p.m

\$69 per person



History has a way of bringing people and places together to produce the beautiful and the unexpected. Such was true of the creation of New Orleans' exquisite lower and upper Garden Districts.

Today, you will take a fascinating motorcoach tour of these exclusive, old residential areas of New Orleans. As you travel the beautiful tree-lined streets, a professional, licensed tour guide will provide a detailed history of these impressive sections, pointing out areas of interest along the way.

The homes in the Garden District were built by American settlers to rival those of the Creole French Quarter. They are surrounded by lovely semi-tropical gardens and flowers of season and exhibit a strong influence of Greek Revival-style architecture, most commonly seen in the plantation-styled raised cottages and mansions found in the area.

The American settlers, who flocked to New Orleans following the Louisiana Purchase in 1803, began building in the Lower Garden District before expanding to the Upper Garden District. The Lower Garden District was laid out in 1806 and 1807 by Bartheleme Lafon and the street design, with vistas, curves, diagonals followed the latest classicizing taste. The homes here represent the renaissance of the Greek Revival style. Today, you will have a rare opportunity to tour a private home that has been beautifully restored. There, you will witness firsthand the genteel manner of living for which the South is noted.

You will also be visiting the Upper Garden District where you will stroll past many exquisite mansions. You will also have an opportunity to visit Lafayette Cemetery where your escort will explain our unique aboveground burial system, utilized in New Orleans because of our location below sea level.



Beltwide Cotton Conferences Program

Personal Scheduler

Once again Beltwide Cotton Conferences attendees may use the Personal Scheduler to plan their daily activities. This useful tool is available on the internet at <http://ncc.confex.com/ncc/2010/schedule/index.cgi>. By using this handy tool, attendees can plan their daily activities so that they get the most from their Beltwide experience. The links in the scheduler allow attendees to browse the program, search for particular people/events of interest, and view abstracts/sessions/etc. The Beltwide's Personal Scheduler can also be used to track events/session the user may choose NOT to attend. Often attendees discover that they cannot be in two places at the same time and the Personal Scheduler serves as a useful tool that allows them to go back and check on an event/session of interest. In addition the flexible scheduler allows users to add other events not in the official program to their personal schedule. In other words attendees may use the tool to track meetings and engagements of their own making. Once an attendee builds their personal scheduler, they may save their personal schedule to their own computer/PDA or print a hard copy.

Monday Afternoon, January 4

3rd Annual Cotton Consultants Conference

Cotton Consultants Lunch

Mardi Gras Ballroom Salon D
New Orleans Marriott
Noon -1:00 PM

Cotton Consultants General Session

Mardi Gras Ballroom Salons E, F, G & H
New Orleans Marriott
1:00 PM-5:30 PM

Presiding: Roger Carter, Agricultural Management Services, Inc., Clayton, LA

- 1:00 Welcoming Remarks** - Roger Carter, Agricultural Management Services, Inc., Clayton, LA
- 1:10 Sponsor Remarks** - Syngenta
- 1:15 Sponsor Remarks** - Dow
- 1:20 Sponsor Remarks** - Bayer CropScience
- 1:25 Impact of Burndown Herbicide Programs on:**
Weeds
 Larry Steckel, University of Tennessee, Jackson, TN
Diseases
 Boyd Padgett, LSU AgCenter Northeast Region, Winnsboro, LA
Insects
 Gus Lorenz, University of Arkansas Cooperative Extension Service, Lonoke, AR

- 2:20 Consultants Survey**
 Dan Reynolds, Mississippi State University, Mississippi State, MS
- 2:40 Cotton Diseases and New Products Update**
 Bob Kemerait, University of Georgia Extension Service, Tifton, GA
- 3:00 Featured Speaker**
 J.R. Bradley, Professor Emeritus, North Carolina State University, Raleigh, NC
- 3:20 Break**
- 3:45 Impact of Technology on Consultants:**
Moderator: Don Parker, National Cotton Council, Cordova, TN
Insect Management
 Rogers Leonard, LSU AgCenter, Winnsboro, LA
Weed Management
 Stanley Culpepper, University of Georgia, Tifton, GA
Consultants Perspective
 Roger Carter, Clayton, LA
 Bob Griffin, Jonesboro, AR
- 4:55 Cotton Insects and New Products Update**
 Rogers Leonard, LSU AgCenter, Winnsboro, LA
- 5:15 Wrap-up and Summary of Survey**
- 5:30 Adjourn**



55th Annual Beltwide Cotton Production Conference

Tuesday Morning, January 5

Grand Ballroom

Sheraton New Orleans

Presiding: Jon W. Hardwick, Chairman, National Cotton Council, Newellton, LA

- 8:00** **Introductory Remarks** – Jon W. Hardwick, Chairman, National Cotton Council, Newellton, LA
8:05 **Welcome** – Mike Strain, DVM, Commissioner of Agriculture and Forestry, Louisiana Department of Agriculture and Forestry, Baton Rouge, LA
8:15 **National Cotton Council Report** – Jon W. Hardwick, Chairman, National Cotton Council, Newellton, LA
8:30 **Cotton Incorporated Report** – Berrye Worsham, Cotton Incorporated, Cary, NC
8:50 **Economics Update** – Gary Adams, National Cotton Council, Cordova, TN
9:05 **Market Challenges** – Wallace L. Darneille, Plains Cotton Coop Assn., Lubbock, TX
9:30 **Conservation Programs** – Jimmy Webb, Producer, Albany, GA, and Robbie Minnich, National Cotton Council, Washington, DC
9:40 **Emerging Insect Issues** – Jeff Gore, Mississippi State University, DREC, Stoneville, MS
10:00 **Break**
10:30 **Current and Future Opportunities for Producers to Benefit From Precision Ag** – Randy Taylor, Oklahoma State University, Stillwater, OK
10:50 **Value of Transgenics Panel**
Moderator: Don Parker, National Cotton Council, Cordova, TN
Insect Management – Rogers Leonard, LSU AgCenter, Winnsboro, LA
Weed Management – Stanley Culpepper, University of Georgia, Tifton, GA
Grower Perspective – Barry Evans, Producer, Kress, TX
Consultant Perspective – David Hydrick, Jonesboro, AR
12:00 **Adjourn**



Production: Tues.



55th Annual Beltwide Cotton Production Conference

Tuesday Workshops and Seminars

New Developments from Industry: Varieties Mardi Gras Ballroom Salons E, F, G & H New Orleans Marriott

1:30 PM-3:30 PM

Organizer: Bill Robertson, National Cotton Council,
Memphis, TN

1:30 PM New Varieties with Elite Germplasm from Bayer CropScience

Will Elkins, Bayer CropScience, Bastrop, TX and Kenny D. Melton, Bayer
CropScience, Lubbock, TX

1:40 PM New Cotton Varieties from Americot, Inc David Bush, Americot, Inc., Lubbock, TX

1:50 PM New Deltapine Class of '10 Varieties for Texas and Southwest Markets: DP 1032 B2RF & DP 1044 B2RF

Eric C. Best, Monsanto, Lubbock, TX and David W. Albers, Monsanto, Col-
lierville, TN

2:00 PM PHY 367 WRF, an Early Season, Root Knot Nematode Tolerant Variety from PhytoGen Cottonseed / Dow AgroSci- ences

Joel C. Faircloth¹, Mustafa McPherson², Duane W. Canfield³, A. R. Parker³,
Steven M. Brown⁴, Scott W. Fuchs⁵ and John T., Jr. Fowler⁵, (1)Dow AgroSci-
ences, Collierville, TN, (2)Phytogen Seed Company, LLC, Leland, MS, (3)Dow
AgroSciences, Indianapolis, IN, (4)PhytoGen Cottonseed, Dow AgroScienc-
es, Tifton, GA, (5)PhytoGen Cottonseed, Dow AgroSciences, Indianapolis, IN

2:10 PM ST 4288B2F, An Early Medium Maturing Variety from Bayer CropScience

Deborah Brickle Brown, Bayer CropScience, Elgin, SC

2:20 PM New Deltapine Class of '10 Varieties for Early to Mid Season Markets: DP 1028 B2RF & DP 1034 B2RF

David W. Albers, Monsanto, Collierville, TN

2:30 PM FM 9160B2F, A New Mid-Maturing Variety From Bayer CropScience

Kenny D. Melton¹, Daniel B. Olivier¹ and Will C. Elkins², (1)Bayer Crop-
Science, Lubbock, TX, (2)Bayer CropScience, Bastrop, TX

2:40 PM FM 9170B2F, A New Mid-Maturing Variety From Bayer CropScience

Daniel B. Olivier¹, Kenny D. Melton¹ and Will Elkins², (1)Bayer CropScience,
Lubbock, TX, (2)Bayer CropScience, Bastrop, TX

2:50 PM ST 5288B2F, A New Mid-Maturing Variety from Bayer CropScience

Andy White, Bayer Crop Science, McCarley, MS and S. Nichols, Bayer Crop
Science, Lubbock, TX

3:00 PM FM 1845 LLB2: A New Mid-Maturing Variety with LibertyLink® Technology From Bayer CropScience

Joshua L. Mayfield, Bayer CropScience, Tifton, GA, Andy White, Bayer Crop
Science, McCarley, MS, Kyle A. Fontenot, Bayer CropScience, West Monroe,
LA, Steve Lee, Bayer CropScience, Harrison, AR and Deborah Brickle Brown,
Bayer CropScience, Elgin, SC

3:10 PM New Deltapine Class of '10 Varieties for Mid to Full Season Markets: DP 1048 B2RF and DP 1050 B2RF

Fran Deville, Monsanto / DPL West Region, Opelousas, LA and David W.
Albers, Monsanto, Collierville, TN

3:20 PM PHY 565 WRF, a New Mid-Full Season Variety from PhytoGen Cottonseed / Dow AgroSciences

Steven M. Brown, Joel C. Faircloth, John T., Jr. Fowler, Scott W. Fuchs, A.
Reed Parker, Duane W. Canfield, Mustafa G. McPherson, Joseph T. Johnson
and Frank C. Bordelon, PhytoGen Cottonseed, Dow AgroSciences, India-
napolis, IN

New Developments from Industry: Varieties, Chemistry, Emerging Technology, and Equipment

Mardi Gras Ballroom Salons E, F, G & H
New Orleans Marriott

4:00 PM-5:20 PM

Organizer: Bill Robertson, National Cotton Council,
Memphis, TN

4:00 PM Phy 805 RF Pima. A New Glyphosate Tolerant Pima Variety From Phytogen Seed

Joel F. Mahill, Tim Anderson and David Anderson, Phytogen Seed Com-
pany, LLC, Corcoran, CA

4:10 PM Dow AgroSciences Herbicide Tolerance Traits (DHT) in Cotton, Corn and Soybean

L.B. Braxton, C. Cui, M.A. Peterson, J.S. Richburg, D.M. Simpson and T.R.
Wright, Dow AgroSciences LLC, Indianapolis, IN

4:20 PM AERIS™ VOTIVO™: A New Generation of Seed Applied Nematode Protection

Louis J. Holloway¹, Jennifer L. Riggs¹ and Charles T. Graham², (1)Bayer
CropScience, Rtp, NC, (2)Bayer CropScience, Grenada, MS

4:30 PM Field Rx ... A Revolutionary Prescription Software for the Dealer/Consultant using Variable Rate Technology

David Krueger, AgRenaissance Software LLC, Raleigh, NC

4:40 PM The Benefits of RapidEye Satellite Imagery (The Red Edge)

John Kelly Dupont, RapidEye AG, 14776 Brandenburg an der Havel,
Germany

4:50 PM The New John Deere 7260 Implement Cotton Picker

Daniel J. Johannsen, John Deere, Ankeny, IA

5:00 PM Harvest Productivity Improvements to John Deere 7460 Cotton Stripper

Tom Bartlett, John Deere, Ankeny, IA

Cotton And The Environment: What Is Sustainability?

Preservation Hall Studios 9

New Orleans Marriott

1:30 PM-3:30 PM

Organizer: Janet Reed, Cotton Incorporated, Cary, NC

Sustainability means different things to different people. This workshop will provide context, educational materials and examples to illustrate and communicate about the innovations and management practices that have enabled cotton producers to provide food, feed and fiber for an ever-expanding population while simultaneously demonstrating a consistent and marked reduction in its environmental "fieldprint".



55th Annual Beltwide Cotton Production Conference

Tuesday Workshops and Seminars

Producer Roundtables

Facilitated small group discussions and one-on-one interaction with cotton experts and other attendees will provide an opportunity to learn from the success of others in areas of cotton production including but not limited to conservation programs, insect management, variety selection, and weed/resistance management. All are welcome and are encouraged to visit one or all these roundtable discussions.

Conservation Programs

Mardi Gras Ballroom Salon D

New Orleans Marriott

1:30 PM-3:30 PM

Organizer: *Robbie Minnich, National Cotton Council, Washington, DC*

Bruce Knight, a former USDA undersecretary and former chief of the Natural Resources Conservation Service, will lead discussion of conservation program details and the ways that producers can increase their odds of acceptance. Workshop attendees are encouraged to ask questions about various conservation programs and will be able to hear from producer leaders about their experiences.

Insect Management

Galleries 1 & 2

New Orleans Marriott

1:30 PM-3:30 PM

Organizers: *Gus Lorenz, University of Arkansas Cooperative Extension Service, Lonoke, AR; John J. Adamczyk, USDA, ARS, KSARC, Weslaco, TX*

Weed / Resistance Management

Galleries 1 & 2

New Orleans Marriott

4:00 PM-6:00 PM

Organizer: *Ken Smith, University of Arkansas, Southeast Research and Extension Center, Monticello, AR*

Variety Selection

Mardi Gras Ballroom Salon D

New Orleans Marriott

4:00 PM-6:00 PM

Organizer: *Tom Barber, Division of Agriculture, University of Arkansas, Little Rock, AR*

4:00 PM Choosing a Planting System: Variety and Technology Selection

Tom Barber, U of A Division of Agriculture, Little Rock, AR, **Darrin M. Dodds**, Mississippi State University, Mississippi State, MS and **Chris L. Main**, University of Tennessee, Jackson, TN

4:30 PM Value of On-Farm Testing for Variety Selection

Darrin M. Dodds, Mississippi State University, Mississippi State, MS, **Christopher Main**, University of Tennessee, Jackson, TN and **Tom Barber**, U of A Division of Agriculture, Little Rock, AR

5:00 PM Variety Recommendations for Cotton Diseases on the Southern High Plains of Texas

Jason E. Woodward, Texas AgriLife Extension Service, Lubbock, TX and **Terry A. Wheeler**, Texas Agrilife Research, Lubbock, TX

5:30 PM A Consultant's Perspective

Roger Carter, Agricultural Management Services, Inc., Clayton, LA

The Profit's In The Details: Manage Risk By Knowing More

Preservation Hall Studio 2

New Orleans Marriott

2:00 PM-3:30 PM

Organizer: *Jeanne Reeves, Cotton Incorporated, Cary, NC*

In this economy, knowledge is power. Working smarter, not harder, can give your operation the edge it needs to maximize profits and manage risk. Cotton Incorporated, Red Wing Software and MapShots – in conjunction with Cotton Grower Magazine – will give you a hands-on look at grower-proven production and financial software tools designed to help you make smarter production decisions, better manage details and costs, and help improve your bottom line. It's all in the numbers. Plan to attend the special session on The Profit's in the Details: Manage Risk by Knowing More during the 2010 Beltwide Cotton Conferences.

Site Specific Management Of Nematodes: A Multi-State Evaluation Of Fumigation And Selected Nematicides

Galleries 4 & 5

New Orleans Marriott

1:30 PM-6:00 PM

Organizers: *Bobby Haygood, Dow AgroSciences, Indianapolis, IN; Eugene Burris, LSU Agricultural Center, Northeast Research Station, St. Joseph, LA*

1:30 PM Introductory Remarks

Charles Overstreet, LSU AgCenter, Baton Rouge, LA

1:31 PM Site-Specific Management Strategies Used in Louisiana

Charles Overstreet, LSU Agricultural Center, Department of Plant Pathology and Crop Physiology, Baton Rouge, LA, **Eugene Burris**, LSU Agricultural Center, Northeast Research Station, St. Joseph, LA, **Dennis Burns**, LSU Agricultural Center, St. Joseph, LA, **Edward C. McGawley**, Dept. of Plant Pathology and Crop Physiology, Baton Rouge, LA, **Boyd Padgett**, LSU AgCenter Northeast Region, Winnsboro, LA and **R. L. Frazier**, LSU Agricultural Center, Tallulah, LA

1:45 PM Using Verification Strips to Delineate Treatment Zones

Dennis Burns, LSU Agricultural Center, St. Joseph, LA, **Eugene Burris**, LSU Agricultural Center, Northeast Research Station, St. Joseph, LA and **Charles Overstreet**, LSU Agricultural Center, Department of Plant Pathology and Crop Physiology, Baton Rouge, LA

2:00 PM Precision Agriculture -- From Theory to Practical Application for Managing Nematodes in Arkansas

Scott Monfort, University of Arkansas Cooperative Extension Service, Lonoke, AR and **T.L. Kirkpatrick**, University of Arkansas, Hope, AR



55th Annual Beltwide Cotton Production Conference

Tuesday Workshops and Seminars

2:15 PM Site-Specific Nematode Control

Scott Monfort¹, T.L. Kirkpatrick², Amy Greenwalt Carroll¹, Michael Emerson¹, J.D. Barham², R.E. Dunham² and David Wildy³, (1)University of Arkansas Cooperative Extension Service, Lonoke, AR, (2)University of Arkansas, Hope, AR, (3)Manila, AR

2:30 PM Risk Management Zones for Southern Root-Knot Nematodes: The Reality and Challenges in Georgia

R. C. Kemerait¹, C. D. Perry², B. V. Ortiz³, P. Lu¹, R. F. Davis⁴, D. Sullivan⁵, F.H. Sanders¹ and R. L. Nichols⁶, (1)Department of Plant Pathology, University of Georgia, Tifton, GA, (2)University of Georgia - Tifton Campus, Tifton, GA, (3)Auburn University, Auburn, AL, (4)USDA-ARS, Tifton, GA, (5)USDA-ARS SEWRL, Tifton, GA, (6)Cotton Incorporated, Cary, NC

2:45 PM Development and Assessment of Risk Zones for Management of Southern Root-Knot Nematodes at Three Locations in Georgia

C. D. Perry¹, R. C. Kemerait², B. V. Ortiz³, P. Lu², R. F. Davis⁴, D. Sullivan⁵ and R. L. Nichols⁶, (1)University of Georgia - Tifton Campus, Tifton, GA, (2)Department of Plant Pathology, University of Georgia, Tifton, GA, (3)Auburn University, Auburn, AL, (4)USDA-ARS, Tifton, GA, (5)USDA-ARS SEWRL, Tifton, GA, (6)Cotton Incorporated, Cary, NC

3:00 PM Site-Specific Nematicide Placement - A South Carolina Perspective

Will Henderson, Ahmad Khalilian and John D. Mueller, Clemson University, Blackville, SC

3:15 PM Industry Involvement in Idea Generation, Funding, Research, and Implementation of University Research

A. W. Weiss, J. D. Busacca, A. J. Fordice, R.A. Haygood, M. B. Hoffman and J. D. Lane, Dow AgroSciences LLC, Indianapolis, IN

3:30 PM Break

4:00 PM Panel Discussion Moderated by Andy Fordice, Dow AgroSciences

4:01 PM Utilization of Precision Agriculture to Develop Site Specific Treatment of Nematodes in the North Delta

R. A. Haygood, Dow AgroSciences, Indianapolis, IN, A. J. Fordice, Dow AgroSciences LLC, Indianapolis, IN, Terry L. Kirkpatrick, University of Arkansas, Hope, AR and W. Scott Monfort, University of Arkansas, Fayetteville, AR

4:15 PM Farmer Applied Site Specific Telone Applications in Arkansas

Bruce Bond, Bond Farms, Lake Village, AR

4:30 PM Farmer Applied Site-Specific Applications in Arkansas

David Wildy, Manila, AR

4:45 PM Farmer Applied Site-Specific Telone Applications in Georgia

Debbie Waters, Innovative Crop Technologies, Cordele, GA

5:00 PM Evaluation of GPS/GIS Technology as a Means of Effectively Controlling Root-Knot Nematode through Precision Placement of the Nematicide Telone II

E. Randall Norton¹, Tim B. Hatch¹, Cody V. Innes¹ and Michael A. McClure², (1)The University of Arizona, Safford, AZ, (2)University of Arizona, Tucson, AZ

5:15 PM Concluding Remarks

Cotton Options Workshop

Mardi Gras Ballroom Salons A, B & C New Orleans Marriott

2:30 PM-5:30 PM

Organizers: Mike Stevens, Swiss Financial Services, Mandeville, LA; John R. C. Robinson, Texas A&M University, College Station, TX

Today's ever-changing market reinforces the advisability of developing a strong risk management program that makes use of innovative marketing strategies, crop insurance and advanced farm and financial management techniques. The use of options as a marketing and risk management tool is the focus in this session. The first hour is oriented towards those market participants that have minimal experience using options trading to hedge price risks and will cover terminology and basic options strategies. The remaining 90 minutes will involve a hands-on market trading game, where participants make pre-harvest or post-harvest hedging and cash sale decisions in a series of hypothetical supply/demand scenarios in the upcoming 2010/11 marketing year. This active learning approach is an excellent method for reinforcing the concepts of hedging, as well as a good way to get producers thinking about the market possibilities for the upcoming crop.



55th Annual Beltwide Cotton Production Conference

Tuesday Workshops and Seminars

Effective And Efficient Irrigation For Cotton Production - Session A

Gallery 3

New Orleans Marriott

4:00 PM-6:00 PM

Organizer: Dana O. Porter, Texas A&M AgriLife Research and Extension Center, Lubbock, TX

4:00 PM Overview of the Irrigation Workshop: Welcome and Introductions

Dana O. Porter, Texas A&M AgriLife Research and Extension Center, Lubbock, TX

4:10 PM Irrigation Issues in the Cotton Belt and Research Programs Addressing Them

Ed M. Barnes, Cotton Incorporated, Cary, NC

4:40 PM Irrigation Management for Cotton Production: Irrigation Scheduling

Dana O. Porter, Texas A&M AgriLife Research and Extension Center, Lubbock, TX

4:55 PM Irrigation Management for Cotton: Crop Water Requirements

Brian G. Leib, University of Tennessee - Biosystems Engineering & Soil Science, Knoxville, TN

5:25 PM Irrigation Management for Cotton Production: The UGA EASY Pan Irrigation Scheduler

Dan Thomas, Louisiana State University, Baton Rouge, LA

Effective And Efficient Irrigation For Cotton Production - Session B

Gallery 6

New Orleans Marriott

4:35 PM-6:00 PM

Organizer: Dana O. Porter, Texas A&M AgriLife Research and Extension Center, Lubbock, TX

4:35 PM Efficiency and Economics: Irrigation Pump Efficiency

Nich Kenny, Texas AgriLife Extension Service, Amarillo, TX

5:00 PM Efficiency and Economics: Pumping Plant Efficiency Testing

Ron Sheffield, Louisiana State University AgCenter, Baton Rouge, LA

5:25 PM Getting the Most From Irrigation Technologies

Dana O. Porter, Texas A&M AgriLife Research and Extension Center, Lubbock, TX



55th Annual Beltwide Cotton Production Conference

Wednesday Morning, January 6

Grand Ballroom

Sheraton New Orleans

Presiding: Chuck Coley, Chairman, American Cotton Producers, Vienna, GA

8:00 **Introductory Remarks** – Chuck Coley, Chairman, American Cotton Producers, Vienna, GA

8:05 **Cotton Foundation Report** – Mark Nichols, Chairman, The Cotton Foundation, Altus, OK

8:15 **Review of 2009** – Chris Main, University of Tennessee, Jackson, TN

8:35 **Cropping Decisions Panel**

Moderator: Chuck Coley, Chairman, American Cotton Producers, Vienna, GA

Larry McClendon, Producer, Marianna, AR

Jimmy Webb, Producer, Albany, GA

Bob Walker, Producer, Somerville, TN

9:05 **Innovative Grower Panel**

Moderator: Kenneth Hood, Producer, Gunnison, MS

Southeast – David Grant, Producer, Garysburg, NC

MidSouth – John Lindamood, Producer, Tiptonville, TN

Southwest – Stacy Smith, Producer, Wilson, TX

West – Steve Sossaman, Producer, Queen Creek, AZ

9:55 **Wrap-up** – Kenneth Hood, Producer, Gunnison, MS

10:00 **Adjourn**





55th Annual Beltwide Cotton Production Conference

Wednesday Workshops and Seminars

Geographical Sampling Concepts And Techniques For Cotton Pest Management - Basic And Intermediate Concepts

Galerie 6

New Orleans Marriott

10:30 AM-12:00 PM

Organizers: Patrick J. English, Mississippi State University, Delta Research and Extension Center, Stoneville, MS; Jeffery L. Willers, USDA-ARS, Mississippi State, MS

Adopting a geographical perspective reduces the sampling time for several cotton pests (including tarnished plant bugs) without loss of accuracy. Reasons why site-specific thresholds use sample extremes instead of sample averages are discussed. A simple technique to graph geographical trends based on sample extremes is demonstrated. Building a site-specific cotton pesticide application map to reduce control costs is illustrated using field counts. Also shown is how a blanket application is also a site-specific application.

Cotton Insect Research & Control Special Session: Boll Weevil Symposium - Complications, Challenges, And Solutions For Achieving Eradication In The United States

Mardi Gras Ballroom Salon D

New Orleans Marriott

10:30 AM-12:00 PM

Organizers: John J. Adamczyk, USDA, ARS, KSARC, Weslaco, TX; Gus Lorenz, University of Arkansas Cooperative Extension Service, Lonoke, AR; John Westbrook, USDA-ARS, APMRU, College Station, TX; James Coppedge, USDA-ARS, College Station, TX

10:30 AM Overview of the Texas Boll Weevil Eradication Program
Larry E. Smith, Texas Boll Weevil Eradication Foundation, Abilene, TX

10:45 AM Status of Boll Weevil Eradication in Mexico
Theodore Boratynski, USDA-APHIS, Brawley, CA

10:55 AM Addressing the Challenge Presented by Volunteer Cotton in the Lower Rio Grande Valley of Texas
Randy J. Coleman, USDA, ARS, BIRU, Weslaco, TX

11:05 AM Unique Situations and Challenges for the Texas Boll Weevil Eradication Program in the Wintergarden Area of Texas
Noel Troxclair, Texas Agrilife Extension Service, Uvalde, TX

11:15 AM Problems, Challenges, and Potential Solutions for Completing Boll Weevil Eradication in the Southern Blacklands of Texas
Charles P.C. Suh, USDA-ARS, APMRU, College Station, TX

11:25 AM ARS, University, and Regulatory Partnerships Needed to Address the Challenge and Complete Eradication

John K. Westbrook, USDA-ARS, APMRU, College Station, TX, John J. Adamczyk, USDA, ARS, BIRU, Weslaco, TX and Charles Allen, Texas AgriLife Extension, San Angelo, TX and David Kostroun, Assistant Commissioner for Regulatory Programs, Texas Department of Agriculture, Austin, TX

11:40 AM Open Discussion

Cotton Boll Damaging Organisms

Galerie 3

New Orleans Marriott

10:30 AM-12:00 PM

Organizer: Enrique Gino Medrano, USDA-ARS-SPARC Cotton Pathology Research Unit, College Station, TX

10:30 AM The Bug Problem in Cotton - Can We Manage Stink Bugs and Boll-Rotting Pathogens without a Crystal Ball?

Jeremy K. Greene, Clemson University, Blackville, SC and Enrique Gino Medrano, USDA-ARS-SPARC Cotton Pathology Research Unit, College Station, TX

10:45 AM Rotten Bugs - Implications of Insect Feeding On Boll Rots

Scott D. Stewart, The University of Tennessee, Jackson, TN

11:00 AM Interrelationships Among Stink Bug Management, Cotton Fiber Quality and Boll Rot

Michael D. Toews¹, Phillip M. Roberts¹ and Enrique Gino Medrano², (1) University of Georgia, Tifton, GA, (2)USDA-ARS-SPARC Cotton Pathology Research Unit, College Station, TX

11:15 AM Internal Boll Rots Associated with Feeding by Hemipterous Insects: A Review

Alois A. Bell, USDA-ARS-Southern Plains Agricultural Research Center, College Station, TX, Enrique Gino Medrano, USDA-ARS-SPARC, College Station, TX and Jesus Esquivel, Southern Plains Agricultural Research Center, College Station, TX

11:30 AM Investigations of Boll Damage Caused by Piercing/Sucking Pests and Disease Agent Transmission

Enrique Gino Medrano¹, Jesus Esquivel², Al. A. Bell¹, Jeremy Greene³, P. M. Roberts⁴, Jack Bachelier⁵, J. J. Marois⁶, D. Wright⁷ and R. L. Nichols⁸, (1)USDA-ARS-SPARC, College Station, TX, (2)Southern Plains Agricultural Research Center, College Station, TX, (3)Clemson, Blackville, SC, (4)Dept. of Plant Pathology, The University of Georgia, Tifton, GA, (5)North Carolina State University, Raleigh, NC, (6)University of Florida, NFREC, Quincy, FL, (7)University of Florida, Quincy, FL, (8)Cotton Incorporated, Cary, NC



55th Annual Beltwide Cotton Production Conference

Wednesday Workshops and Seminars

Cotton Economic Outlook Symposium

Galleries 1 & 2

New Orleans Marriott

10:30 AM-12:00 PM

Organizer: Gary Raines, FCStone LLC, Nashville, TN

10:30 AM Welcoming Remarks

10:35 AM Challenges Facing the World Cotton Market
Terry P. Townsend, International Cotton Advisory Committee, Washington, DC

10:55 AM Cotton Risk Management Programs

Keith H. Coble, Mississippi State, Mississippi State, MS

11:15 AM Speech by Commissioner Michael V. Dunn, CFTC

Michael V. Dunn, U.S. Commodity Futures Trading Commission, Washington, DC

Extension Cotton Specialists Working Group

Galleries 4 & 5

New Orleans Marriott

10:30 AM-12:00 PM

Organizer: Darrin M. Dodds, Mississippi State University, Mississippi State, MS

10:30 AM Nitrogen Use Requirements of Modern Cotton Cultivars Based on Seed Size

Christopher L. Main, University of Tennessee, Jackson, TN, L. T. Barber, Division of Agriculture, University of Arkansas, Little Rock, AR, Darren M. Dodds, Mississippi State University, Mississippi State, MS, Keith L. Edmisten, North Carolina State University, Raleigh, NC, Michael A. Jones, Clemson University, Florence, SC, Jared R. Whitaker, University of Georgia, Statesboro, GA, Gaylon Morgan, Texas AgriLife Extension Service, College Station, TX, J. C. Banks, Oklahoma Cooperative Extension, Altus, OK, R. K Boman, Texas AgriLife Extension Service, Lubbock, TX and E. Randall Norton, University of Arizona, Safford, AZ

11:00 AM Cotton Response to Topical Fungicide Application

Darrin M. Dodds¹, Tom Allen², J.C. Banks³, Tom Barber⁴, Randal K. Boman⁵, N.W. Buehring⁶, S. Duncan⁷, Keith L. Edmisten⁸, Christopher L. Main⁹, E. Randall Norton¹⁰, Alexander M. Stewart¹¹, Jared R. Whitaker¹² and J. E. Woodward⁵, (1)Mississippi State University, Mississippi State, MS, (2) Mississippi State University, Stoneville, MS, (3)Oklahoma State University, Altus, OK, (4)U of A Division of Agriculture, Little Rock, AR, (5)Texas AgriLife Extension Service, Lubbock, TX, (6)Mississippi State University, Verona, MS, (7)Kansas State University, Manhattan, KS, (8)North Carolina State University, Raleigh, NC, (9)University of Tennessee, Jackson, TN, (10) University of Arizona, Safford, AZ, (11)Louisiana State University, Alexandria, LA, (12)University of Georgia, Statesboro, GA

Variable Rate Nitrogen Applications Using On-The-Go Optical Sensors: Do They Have a Place on My Farm?

Mardi Gras Ballroom Salon E

New Orleans Marriott

10:30 AM-12:00 PM

Organizer: David Dunn, University of Missouri, Portageville, MO

10:30 AM Discussion

10:35 AM Introductory Remarks

10:45 AM Crop Reflectance as an Indicator of Nitrogen Availability and Fertilizer Needs to Maximize Profitability in Cotton Production

Jac Varco, Mississippi State University, Starkville, MS

11:10 AM Sensor Based Variable Rate Application for Cotton

Randy Taylor, Oklahoma State University, Stillwater, OK

11:35 AM Getting N Rates Right: Crop Sensors to Guide Variable - Rate N

Peter Scharf, University of Missouri-Columbia, Columbia, MO

Overview Session

Southern Regional Research Center

10:30 AM-1:00 PM

Organizer: Brian Condon, USDA-ARS-SRRC, New Orleans, LA; Mourad Krifa, The University of Texas at Austin, Austin, TX

A special feature of this year's Utilization Conferences is an open house at the Southern Regional Research Center. A tour of the newly constructed Cotton Nonwovens Research Laboratory of the USDA Agricultural Research Service will include an introduction and overview of cotton research at SRRC with demonstrations of the needlepunch, hydroentanglement and chemical finishing capabilities. For more information, contact Dr. Brian Condon, Research Leader, Cotton Chemistry and Utilization at brian.condon@ars.usda.gov.



Technical Conferences Program

64th Annual Cotton Agronomy & Physiology Conference

Wednesday Afternoon, January 6

Wednesday Afternoon - Session A

Galerie 6

New Orleans Marriott

1:30 PM-7:00 PM

Organizer: Russell C. Nuti, USDA-ARS, National Peanut Research Laboratory, Dawson, GA

1:30 PM Improving Yield and Quality on a Sandy Soil in a Humid Region

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

2:00 PM Impact of Planting Date and Irrigation Level on Cotton Lint Yield and Fiber Quality

William T. Pettigrew, USDA-ARS, Stoneville, MS

2:15 PM Planting and Defoliation Timing Impacts on Cotton Yield and Quality

Kipling S. Balkcom¹, Jason S. Bergtold², C. Dale Monks³, Andrew J. Price¹ and Dennis P. Delaney⁴, (1)USDA-ARS, Auburn, AL, (2)Kansas State University, Auburn, KS, (3)Auburn University, Auburn, AL, (4)ACES, Auburn, AL

2:30 PM Strategies Toward Very Low Nitrogen Cotton

Kater Hake, Cotton Incorporated, Cary, NC

2:45 PM Can Leguminous Cover Crops Replace Fertilizer Nitrogen in Mississippi Delta Cotton Production?

Robert M. Zablotowicz, Krishna N. Reddy, L. Jason Krutz, Ryan Jackson, Leslie Price and R. Earl Gordon, USDA-ARS, CPSRU, Stoneville, MS

3:00 PM Nitrogen and Water Requirements of Cotton in a Sod Based Rotation

D.L. Wright¹, J. J. Marois², George Anguelov² and Cheryl Mackowiak², (1) University of Florida, NFREC, Quincy, FL, (2)University of Florida, Quincy, FL

3:15 PM A Comparison of Cotton Performance and Water Use Efficiency in Two Long-Term Tillage Systems

Wilson H. Faircloth, USDA-ARS, National Peanut Research Lab, Dawson, GA and Diane L. Rowland, Texas A&M Univ./Texas AgriLife Research, Uvalde, TX

3:30 PM Break at Poster Session With Authors Present at Posters - Marriott Acadia

4:00 PM Deficit Drip Irrigation Impacts on Growth and Fruit Retention of Pima Cotton

Robert Hutmacher, University of California Shafter REC, Shafter, CA

4:15 PM Economic Water Use Efficiency in Cotton

Russell C. Nuti, Marshall C. Lamb and Ronald B. Sorensen, USDA-ARS, National Peanut Research Laboratory, Dawson, GA

4:30 PM Cotton Fruiting Endurance - Determination of Maturity Over Two Irrigation Regimes

Christopher L. Main¹, Keith L. Edmisten², Glen L. Ritchie³, Joel C. Faircloth⁴, Steven M. Brown⁵, A. Reed Parker⁴, Scott W. Fuchs⁴ and Mustafa McPherson⁶, (1)University of Tennessee, Jackson, TN, (2)North Carolina State University, Raleigh, NC, (3)Tifton, GA, (4)Dow AgroSciences, Indianapolis, IN, (5)PhytoGen Cottonseed, Dow AgroSciences, Tifton, GA, (6)Phytogen Seed Company, LLC, Leland, MS

4:45 PM Cotton Seeding Rates: How Low Can We Go?

C. Owen Gwathmey¹, Lawrence E. Steckel¹, James A. Larson² and Daniel F. Mooney², (1)University of Tennessee, Jackson, TN, (2)University of Tennessee, Knoxville, TN

5:00 PM Bx-picking: Past, Present, and Future

Glen L. Ritchie, University of Georgia, Tifton, GA and Jared R. Whitaker, University of Georgia, Statesboro, GA

5:15 PM Comparative Growth and Yield of Cotton at Various Planting Densities

Peter McGill¹, Dan D. Fromme², Gaylon Morgan³, Lawrence L. Falconer² and Dale Mott³, (1)Texas AgriLife Extension Service, Wharton, TX, (2)Texas AgriLife Extension Service, Corpus Christi, TX, (3)Texas AgriLife Extension Service, College Station, TX

5:30 PM Developing and Testing a Trafficability Index for Planting Cotton in the Texas Blackland Prairie

Adam J. Helms, Texas AgriLife Research, College Station, TX, Cristine Morgan, Texas A&M University, Soil & Crop Sciences Department, College Station, TX, Gaylon Morgan, Texas AgriLife Extension Service, College Station, TX, Ken Potter, USDA-ARS, Temple, TX and Archie Abrameit, Texas AgriLife Extension, Thrall, TX

5:45 PM Cotton Physiology Researcher of the Year and Outstanding Young Cotton Physiologist Awards

6:00 PM Agronomy and Physiology Mixer and Business Meeting

Wednesday Afternoon - Session B - Graduate Student Competition

Galerie 5

New Orleans Marriott

1:30 PM-5:45 PM

Organizer: Russell C. Nuti, USDA-ARS, National Peanut Research Laboratory, Dawson, GA

1:30 PM Keynote Speaker in Session A - Galerie 6

2:00 PM Can 1-MCP Be Used in Water Stress Remediation?

Vladimir A. da Costa and J. T. Cothren, Texas A&M University, College Station, TX

2:15 PM Cotton Response to 1-Methylcyclopropene Under Different Light Regimes and Growth Stages

Charles W. Carden, J. T. Cothren and John D. Rocconi, Texas A&M University, College Station, TX

2:30 PM Effects of Exogenously Applied Indole-3-Acetic Acid to Cotton Species

Jenny D. Clement, Steve Hague and Jean H. Gould, Texas A&M University, College Station, TX

2:45 PM Evaluation of Plant Growth Regulators in Cotton

Emmett Muennink and Craig W. Bednarz, Texas Tech University, Lubbock, TX

3:00 PM The Effects of Preconditioning Cotton for Defoliation in North Carolina

Seth Holt¹, Guy Collins², James Lanier¹, Bill Foote¹, Ranjit Riar¹, Luke O'Neal¹, James Atkins¹ and Keith Edmisten¹, (1)North Carolina State University, Raleigh, NC, (2)University of Georgia, Tifton, GA

3:15 PM Use of Pyraclostrobin and Azoxystrobin Fungicides for the Elongation of Maturity On Mid-Season Upland Varieties

John D. Rocconi and J. Tom Cothren, Texas A&M University, College Station, TX

3:30 PM Break at Poster Session With Authors Present at Posters - Marriott Acadia

4:00 PM Regulated Deficit Irrigation Application and the Physiological Responses of Cotton (*Gossypium hirsutum* L.) in Southwest Texas

Yujin Wen¹, Giovanni Piccinni², J. Tom Cothren¹, Daniel I. Leskovar³, Diane L. Rowland³ and Armen R. Kemanian⁴, (1)Texas A&M University, Texas AgriLife Research, College Station, TX, (2)Monsanto Company, Chesterfield, MO, (3)Texas A&M Research and Extension Center, Uvalde, TX, (4)Blackland Research and Extension Center, Temple, TX



Technical Conferences Program

64th Annual Cotton Agronomy & Physiology Conference

4:15 PM Irrigation Termination for Improved Fiber Maturity On the Texas High Plains

Jason Sneed¹, Craig W. Bednarz¹ and James P. Bordovsky², (1)Texas Tech University, Lubbock, TX, (2)Texas AgriLife Research, Plainview, TX

4:30 PM Analysis of Drought Tolerance and Water Use Efficiency in Cotton, Castor, and Sorghum

Cory Mills and Craig W. Bednarz, Texas Tech University, Lubbock, TX

4:45 PM Cotton Crop Coefficients (Kc values) for Northeast Louisiana Using Weighing Lysimeters

Vipan Kumar and Ernest Clawson, Northeast Research Station, Saint Joseph, LA

5:00 PM Cotton Physiological Responses to Application of Urea With NBPT and DCD Under Normal and High Temperature Conditions

Eduardo Masakazu Kawakami, Derrick M. Oosterhuis and John L. Snider, University of Arkansas, Fayetteville, AR

5:15 PM Thrips, Wheat and Intercropped Cotton

Bill Foote¹, K. L. Edmisten¹, J. E. Lanier¹, Guy Collins² and Seth Holt¹, (1)North Carolina State University, Raleigh, NC, (2)University of Georgia, Tifton, GA

5:30 PM The Effect of Soil Specific Seeding Rates On Water Stress and Cotton Yield

Scott Stanislav¹, Cristine L.S. Morgan¹, J. Alex Thomasson², Ruixiu Sui³ and J.T. Cothren¹, (1)Texas A&M University, Soil and Crop Sciences, College Station, TX, (2)Texas A&M University, Department of Biological & Agricultural Engineering, College Station, TX, (3)Texas A&M University, Department of Biological and Agricultural Engineering, College Station, TX

Thursday Morning, January 7

Thursday Morning - Session A

Galerie 6

New Orleans Marriott

8:00 AM-12:00 PM

Presiding: Craig W. Bednarz, Texas Tech University, Lubbock, TX

Organizer: Russell C. Nuti, USDA-ARS, National Peanut Research Laboratory, Dawson, GA

8:00 AM Symposium - Cotton Stress Physiology

8:01 AM Water Stress, Ethylene Synthesis, and Cotton: Are Our Textbooks Correct?

Bruce Bugbee, Utah State University, Logan, UT

8:30 AM Light and the Cotton Plant

Randy Wells, NC State University, Raleigh, NC

9:00 AM Cotton Flowers: Pollen and Petal Humidity Sensitivities Determine Reproductive Competitiveness in Diverse Environments

John J. Burke, USDA-ARS, Lubbock, TX

9:30 AM Effect of High Temperature Stress on Floral Development and Yield of Cotton

Derrick M. Oosterhuis and John L. Snider, University of Arkansas, Fayetteville, AR

10:00 AM Break

10:30 AM Cotton Variety Selection Criteria – Is Yield the Number One Factor?

Sandy Stewart and Robert Lemon, AgriThORITY, Kansas City, MO

10:45 AM An In-Depth Look at New Cotton Cultivars in Georgia

Jared R. Whitaker¹, Glen Ritchie² and Guy Collins², (1)University of Georgia, Statesboro, GA, (2)University of Georgia, Tifton, GA

11:00 AM The Transition From BGRR to B2RF Varieties and Its Impact On Cotton Management in the Southeast: Research and Observations in 2009

Guy Collins¹, Jared Whitaker², Keith Edmisten³, Bill Foote³, James Lanier³ and Seth Holt³, (1)University of Georgia, Tifton, GA, (2)University of Georgia, Statesboro, GA, (3)North Carolina State University, Raleigh, NC

11:15 AM Agronomic Performance of Advanced Experimental VipCot™ Lines Also Containing Roundup Ready® Flex

Tony Burd¹, B.W. Minton², Scott Martin³, Henry S. McLean⁴, Victor Mascarenhas⁵, Jason Sanders⁶, David Negrotto⁷ and Dave Dickerson⁷, (1)Syngenta Crop Protection, Inc., Vero Beach, FL, (2)Syngenta Crop Protection, Inc., Cypress, TX, (3)Syngenta Crop Protection, Inc., Ruston, LA, (4)Syngenta Crop Protection, Perry, GA, (5)Syngenta Crop Protection, Inc., Nashville, NC, (6)Syngenta Crop Protection, Inc., Greenwood, MS, (7)Syngenta Biotechnology, Inc., Research Triangle Park, NC

11:30 AM Cotton Hail Damage Simulation in Arizona

Guangyao (Sam) Wang¹, Pedro Andrade-Sanchez² and Mark Zarnstorff², (1)University of Arizona Maricopa Ag Center, Maricopa, AZ, (2)National Crop Insurance Services, Overland Park, KS

11:45 AM Graduate Student Paper Award Presentations

Thursday Morning - Session B

Galerie 5

New Orleans Marriott

10:30 AM-11:45 AM

Organizer: Russell C. Nuti, USDA-ARS, National Peanut Research Laboratory, Dawson, GA

10:30 AM Using GreenSeeker® to Drive Variable Rate Application of Plant Growth Regulators and Defoliants On Cotton

George Vellidis, Heather Savelle, Sergio Villagran and Glen Ritchie, University of Georgia, Tifton, GA

10:45 AM Evaluation of Mepiquat Chloride Management in Irrigated Cotton

Jeffrey C. Silvertooth, University of Arizona, Tucson, AZ, Roberto Soto-Ortiz, Universidad Autonoma de Baja California, Calexico, CA and Ramon Cinco-Castro, Algodonera de Baja California, Calexico, CA

11:00 AM Cotton Cultivar Performance Under Multiple Plant Growth Regulator Regimes

Tom Barber, U of A Division of Agriculture, Little Rock, AR, Darrin M. Dodds, Mississippi State University, Mississippi State, MS and Chris Main, University of Tennessee, Knoxville, TN

11:15 AM Chemical Stalk Destruction of Shredded and Standing Cotton Stalks in Various Production Regions of Texas

Gaylon Morgan¹, D. D. Fromme², D.A. Mott¹, Marty Jungman³, Jason Ott⁴, Jerry W. Warren⁵ and W. James Grichar⁶, (1)Texas AgriLife Extension Service, College Station, TX, (2)Texas AgriLife Extension, Corpus Christi, TX, (3)Hillsboro, TX, (4)Texas AgriLife Extension Service, Hondo, TX, (5)Texas AgriLife Extension Service, San Antonio, TX, (6)Texas AgriLife Research, Beeville, TX

11:30 AM Effect of Intercropping Corn on Egyptian Cotton Characters

Abd El-Alim Abd El-Rhman Metwally, Agronomy Department, Faculty of Agriculture, Cairo University, Giza, Egypt



Technical Conferences Program

70th Annual Cotton Disease Council

Wednesday Afternoon, January 6

Fusarium Wilt Of Cotton: Challenges Posed By The Emerging Virulent Isolates Threatening Cotton Production Worldwide

Galerie 1

New Orleans Marriott

1:30 PM-3:30 PM

Organizers: Jinggao Liu, USDA-ARS-SPARC-CPRU, College Station, TX; Terry A. Wheeler, Texas Agrilife Research, Lubbock, TX

1:30 PM An International Overview of F.o.v. in Cotton From Industrial Perspective

Muhammad A. Bhatti, Monsanto, St. Louis, MO

1:50 PM Molecular Genetic Classification of *Fusarium oxysporum f. Sp. Vasinfectum*

R. Michael Davis¹, Elizabeth A. Holmes¹, Patrick D. Colyer² and **Rebecca S. Bennett³**, (1)Department of Plant Pathology, Davis, CA, (2)Louisiana State University AgCenter, Bossier City, LA, (3)USDA-ARS, Western Integrated Cropping Systems Research Unit, Shafter, CA

2:10 PM Relationships Among Vegetative Compatibility Groupings, Toxin Production, and Virulence of *Fusarium oxysporum* to Cotton

Al. A. Bell¹, M. H. Wheeler¹, Jinggao Liu², R. D. Stipanovic¹ and Lorraine S. Puckhaber¹, (1)USDA-ARS-SPARC, College Station, TX, (2)USDA-ARS-SPARC-CPRU, College Station, TX

2:30 PM Fusaric Acid Production and Pathogenicity of *Fusarium oxysporum f. Sp. Vasinfectum*

Jinggao Liu¹, Al. A. Bell², R. D. Stipanovic² and Lorraine S. Puckhaber², (1) USDA-ARS-SPARC-CPRU, College Station, TX, (2)USDA-ARS-SPARC, College Station, TX

2:50 PM The Australian System for Ranking Variety Resistance to Fusarium Wilt

Stephen J. Allen, Cotton Seed Distributors Ltd, Narrabri, Australia

3:10 PM Progress in Breeding for Tolerance to Fusarium Wilt (FOV) Races 1 and 4 in the San Joaquin Valley (SJV) of California

Mauricio Ulloa, USDA-ARS, WICSRU, Shafter, CA, Robert B. Hutmacher, University of California - Davis, Davis, CA, Steve D. Wright, University of California, Tulare, CA, R. Michael Davis, University of California, Department of Plant Pathology, Davis, CA, Richard G. Percy, USDA-ARS, College Station, TX and Philip A. Roberts, University of California Riverside, Riverside, CA

3:30 PM Break at Poster Session With Authors Present at Posters - Marriott Acadia

Wednesday Afternoon Session Student Paper Competition

Galerie 1

New Orleans Marriott

4:00 PM-6:45 PM

Organizer: Terry A. Wheeler, Texas Agrilife Research, Lubbock, TX

4:00 PM Value of Rotational Crops for Profit Increase and Reniform Nematode Suppression With and Without a Nematicide in Alabama

Scott R. Moore¹, W. S. Gazaway¹, K. S. Lawrence¹ and R. Akridge², (1)Auburn University, Auburn University, AL, (2)Brewton Agricultural Research Unit, Brewton, AL

4:15 PM A Species Specific, PCR Assay for the Detection of *Rotylenchulus reniformis*

Kurt C. Showmaker and Gary W. Lawrence, Mississippi State University, Mississippi State, MS

4:30 PM *Fusarium Oxysporum f. Sp. Vasinfectum* Races Present in Alabama

Juan D. Castillo, Kathy S. Lawrence, Tamara S. Scott and Kathy M. Glass, Auburn University, Auburn, AL

4:45 PM Influence of Variety Selection On Soil Populations of *Verticillium Dahliae* and Potential Implications for Cotton (*Gossypium hirsutum*) Production in West Texas

Shilpi Chawla, Texas Tech University, Lubbock, TX, Jason E. Woodward, Texas AgriLife Extension Service, Texas A & M University System, 2. Texas Tech University, Lubbock, TX, Terry Wheeler, Texas AgriLife Research, Texas A & M University System, Lubbock, TX and Robert Wright, 1. Texas AgriLife Research, Texas A & M University System, 2. Texas Tech University, Lubbock, TX

5:00 PM Reniform Control Linked to Variable Rate Herbicides Used to Prevent Post Harvest Cotton Regrowth and Eliminate Winter Weeds

Dustin M. Herring¹, K. S. Lawrence¹, C. Burmeister² and Deacue Fields¹, (1)Auburn University, Auburn University, AL, (2)Auburn University, Belle Mina, AL

5:15 PM Importance of Soil Bulk Density on the Interaction Between *Meloidogyne incognita* and *Thielaviopsis basicola* On Cotton

Juan de Dios Jaraba, Jianbing Ma, Craig Rothrock and Terry Kirkpatrick, University of Arkansas, Fayetteville, AR

5:30 PM Population Densities of Reniform Nematode in Soybeans by Maturity Group and Variety Testing in Association with Dynamics of Population Development

Ben Ballard, Katheryn Lawrence, Edward Sikora and John F. Murphy, Auburn University, Auburn University, AL

5:45 PM Changes in Cotton Root Architecture Caused by *Meloidogyne incognita* and *Thielaviopsis basicola* and Their Interaction

Jianbing Ma, Juan Jaraba, Terry Kirkpatrick and Craig Rothrock, University of Arkansas, Fayetteville, AR

6:00 PM Business Meeting



Technical Conferences Program

70th Annual Cotton Disease Council

Thursday Morning, January 7

Thursday Morning Session

Galerie 1

New Orleans Marriott

8:00 AM-12:00 PM

Organizer: Terry A. Wheeler, Texas Agrilife Research, Lubbock, TX

8:00 AM Screening Cultivars for Fusarium Wilt Resistance in West Texas

Jason E. Woodward, Texas Agrilife Extension Service, Lubbock, TX and Terry A. Wheeler, Texas Agrilife Research, Lubbock, TX

8:15 AM Development of Root-Knot Nematode Resistant Germplasm with High Yield and Fiber Quality

Richard F. Davis¹, Peng W. Chee², Edward L. Lubbers² and O. Lloyd May³, (1) USDA-ARS, Tifton, GA, (2)University of Georgia, Tifton, GA, (3)Delta and Pine Land Company, Tifton, GA

8:30 AM Effect of Mowing Cotton Stalks and Preventing Plant Re-Growth On Post-Harvest Reproduction of *Meloidogyne incognita*

P. Lu¹, Richard F. Davis² and R. C. Kemerait¹, (1)Department of Plant Pathology, University of Georgia, Tifton, GA, (2)USDA-ARS, Tifton, GA

8:45 AM VOTIVO™: Contemporary Biological Nematode Control for Mainstream Commercial Agriculture

Kevin Bugg, Bayer CropScience, Research Triangle Park, NC

9:00 AM Site-Specific Management Strategies for Dealing with Multiple Nematode Pests

Charles Overstreet, LSU Agricultural Center, Department of Plant Pathology and Crop Physiology, Baton Rouge, LA, Eugene Burris, LSU Agricultural Center, Northeast Research Station, St. Joseph, LA and Dennis Burns, LSU AgCenter, St. Joseph, LA

9:15 AM Assessment and Management of Foliar Disease of Cotton in Georgia

R. C. Kemerait¹, F.H. Sanders¹, S. N. Brown², W.E. Harrison³, J. L. Jacobs⁴, W. A. Mills⁵ and J. E. Woodward⁶, (1)Department of Plant Pathology, University of Georgia, Tifton, GA, (2)University of Georgia Cooperative Extension Service, Moultrie, GA, (3)University of Georgia Cooperative Extension, Camilla, GA, (4)University of Georgia Cooperative Extension, Blackshear, GA, (5)University of Georgia, Attapulugus, GA, (6)Texas Cooperative Extension, Lubbock, TX

9:30 AM Proteomics Approach to Investigate Novel Genes Playing Important Roles in Cotton Disease Resistance

Samina Shakeel, M. Tahir and C. Madihah, Quaid-i-Azam University, Islamabad, Pakistan

9:45 AM The Relationship Between Disease Incidence, Defoliation and Yield in Cultivars Infested with *Verticillium Wilt*

Allen Scott Adair, Texas Agrilife Extension, Plainview, TX and Terry A. Wheeler, Texas Agrilife Research, Lubbock, TX

10:00 AM Break

10:15 AM Student Paper Awards

10:30 AM The Effects of *Verticillium Wilt* on Cotton Varieties

Terry A. Wheeler, Texas Agrilife Research, Lubbock, TX and Jason E. Woodward, Texas Agrilife Extension Service, Lubbock, TX



Technical Conferences Program

34th Annual Cotton Economics And Marketing Conference

Wednesday Afternoon, January 6

Wednesday Afternoon Session & Posters

Galerie 3

New Orleans Marriott

1:30 PM-6:00 PM

Organizer: Gary Raines, FCStone Fibers & Textiles, Nashville, TN

1:30 PM Welcoming Remarks

1:35 PM Estimating U.S. Household Demand for Cotton Products: Revising USDA Data

Leslie A. Meyer¹, Stephen MacDonald¹ and Bradley White², (1)USDA-ERS, Washington, DC, (2)Graduate Student, University of Delaware, Newark, DE

1:50 PM Tracing the Recovery's Effect On Clothing and Cotton Demand

Jon Devine, Cotton Incorporated, Cary, NC

2:05 PM Revisiting the Relation Between Textile Fiber Prices and Oil

Alejandro Plastina, International Cotton Advisory Committee, Washington, DC

2:20 PM Inside China's Polyester Fiber Industry: Why the Capacity Overhang?

Maria Erlinda Mutuc¹, Darren Hudson¹, Don Ethridge² and M. Dean Ethridge³, (1)Cotton Economics Research Institute at Texas Tech University, Lubbock, TX, (2)Department of Agricultural & Applied Economics, Texas Tech University, Lubbock, TX, (3)Fiber & Biopolymer Research Institute- Texas Tech University, Lubbock, TX

2:35 PM The Impact of India's Minimum Support Price on World Cotton Markets

Darren Hudson¹, Don Ethridge², Suwen Pan¹ and Maria Mutuc¹, (1)Cotton Economics Research Institute at Texas Tech University, Lubbock, TX, (2) Department of Agricultural & Applied Economics, Texas Tech University, Lubbock, TX

2:50 PM Central Asian Cotton Industry Structure and Policies

Shavkat Bazarov¹, Darren Hudson², Don Ethridge³ and Olga Murova¹, (1) Texas Tech University, Lubbock, TX, (2)Cotton Economics Research Institute at Texas Tech University, Lubbock, TX, (3)Department of Agricultural & Applied Economics, Texas Tech University, Lubbock, TX

3:05 PM Brazil's Cotton Production: Progress, Prospects and Problems

James A. Kiawu, U.S. Department of Agriculture, Economic Research Service, Washington, DC

3:20 PM The Impact of Global Financial Crisis on Chinese Cotton Production

Fangbin Qiao and Zhan Lin, CEMA, Central University of Finance and Economics, Beijing, China

3:35 PM Break at Poster Session With Authors Present at Posters - Marriott Acadia

4:00 PM Developments in the Estimation of China's Cotton Supply and Demand

Carol Skelly, USDA World Agricultural Outlook Board, Washington, DC

4:15 PM Cotton Production in Xinjiang, China

Mechel Paggi, California State University, Fresno, Fresno, CA, Fangbin Qiao, CEMA, Central University of Finance and Economics, Beijing, China and Yanqin Guo, School of Economics, Xinjiang Univ. of Finance and Economics, Uygur, China

4:30 PM Chinese Import Policy and the Impacts of the U.S. Cotton Program

Darren Hudson¹, Suwen Pan¹, Don Ethridge² and Maria Mutuc¹, (1)Cotton Economics Research Institute at Texas Tech University, Lubbock, TX, (2) Department of Agricultural & Applied Economics, Texas Tech University, Lubbock, TX

4:45 PM Market-Enhanced Technological Integration in Favor of Widespread Bt-Cotton Use in Yangtze River Valley (China)

Michel Fok, CIRAD, Montpellier, France and Naiyin Xu, Jiangsu Academy of Agricultural Sciences, Institute of Industrial Crops, Nanjing, China

5:00 PM Production and Financial Benchmarks for Texas Cotton Producers

Jason L. Johnson, Texas Cooperative Extension, Stephenville, TX, M.W. Polk, Texas AgriLife Extension, San Angelo, TX and Rob Hogan, Texas A&M University, Fort Stockton, TX

5:15 PM Picker Versus Stripper Harvesters on the High Plains of Texas

William Brock Faulkner¹, John Wanjura², R. K Boman³ and B.W. Shaw¹, (1) Texas A&M University, College Station, TX, (2)Ginning Laboratory, USDA-ARS, Lubbock, TX, (3)Texas AgriLife Extension Service, Lubbock, TX

5:30 PM Regional Economic Impact of Irrigated Versus Dryland Agriculture in the Texas Southern High Plains

Jay Yates¹, Jackie Smith¹, Jeff Pate¹, J. W. Johnson² and Justin A. Weinheimer³, (1)Texas AgriLife Extension Service, Lubbock, TX, (2)Texas Tech University and Texas Agricultural Experiment Station, Lubbock, TX, (3) Agricultural & Applied Economics, Texas Tech University, Lubbock, TX

5:45 PM Energy and Carbon: Considerations for High Plains Cotton

Justin A. Weinheimer and Phillip N. Johnson, Agricultural & Applied Economics, Texas Tech University, Lubbock, TX

6:00 PM Concluding Remarks

Cotton Economics Posters

Galerie 3

New Orleans Marriott

1:30 PM-6:00 PM

Organizer: Gary Raines, FCStone Fibers & Textiles, Nashville, TN

1. Adoption of Cotton Precision Farming Technologies in Tennessee

J. A. Larson, B. C. English, D. M. Lambert, D. F. Mooney, R. K. Roberts and M. Velandia, Department of Agricultural Economics, The University of Tennessee, Knoxville, TN

2. Cotton Precision Farming Technology Adoption in Texas

Shyam Nair, Chenggang Wang and Eduardo Segarra, Texas Tech University, Lubbock, TX



Technical Conferences Program

34th Annual Cotton Economics And Marketing Conference

3. Estimation of Economic Impact Multipliers for the Texas Coastal Bend Cotton Industry

Rebekka Dudensing, Texas AgriLife Extension Service, College Station, TX and Lawrence L. Falconer, Texas AgriLife Extension Service, Corpus Christi, TX

4. Evaluating Land Tenure Systems in Louisiana Cotton Production for Grower Profitability

Michael A. Deliberto, Kenneth W. Paxton and Michael E. Salassi, LSU Agricultural Center, Baton Rouge, LA

5. Findings of a 2009 Precision Farming Survey of Cotton Farmers in Florida

S. L. Larkin, Food and Resource Economics, University of Florida, Gainesville, FL

6. High Plains Cotton Profitability Project

Jackie Smith¹, Jay Yates¹, John Robinson², Jeff Pate¹ and Mark Welch², (1) Texas AgriLife Extension Service, Lubbock, TX, (2) Texas AgriLife Extension Service, College Station, TX

7. Mississippi Findings from a 2009 Precision Farming Survey

Steven W. Martin, Mississippi State University, Stoneville, MS

8. ~~Organic Certification as a Barrier to Trade? The Case of SSA Organic Cotton Textile Trade~~

J. Daniel Cook, U.S. International Trade Commission, Washington, DC

9. Status of Cotton Precision Farming in North Carolina: 2009 Update Based On New Survey Data

Rod Rejesus and Michele Marra, North Carolina State University, Raleigh, NC

10. Status of Cotton Precision Farming in Twelve Southern States

R. K. Roberts¹, D. F. Mooney¹, B. C. English¹, J. A. Larson¹, D. M. Lambert¹, M. Velandia¹, S. L. Larkin², M. C. Marra³, R. Rejesus³, S. W. Martin⁴, K. W. Paxton⁵, A. Mishra⁵, C. Wang⁶, E. Segarra⁶ and J. M. Reeves⁷, (1) Department of Agricultural Economics, The University of Tennessee, Knoxville, TN, (2) Food and Resource Economics, University of Florida, Gainesville, FL, (3) Agricultural and Resource Economics, North Carolina State University, Raleigh, NC, (4) Delta Research and Extension Center, Mississippi State University, Stoneville, MS, (5) Agricultural Economics and Business Development, Baton Rouge, LA, (6) Department of Agricultural and Applied Economics, Texas Tech University, Lubbock, TX, (7) Cotton Incorporated, Cary, NC

11. Status of Precision Agriculture Adoption by Louisiana Cotton Producers

Kenneth W. Paxton and Huizhen Niu, LSU AgCenter, Baton Rouge, LA

Thursday Morning, January 7

Thursday Morning Session

Galerie 3

New Orleans Marriott

8:00 AM-12:00 PM

Organizer: Gary Raines, FCStone Fibers & Textiles, Nashville, TN

8:00 AM Welcoming Remarks

8:05 AM Mississippi Delta Cotton, the Cropland Data Layer, and Soil Maps, 2006-2009

Thomas L. Gregory, USDA-NASS, Jackson, MS and Fred L. Shore, Mississippi Department of Agriculture and Commerce, Jackson, MS

8:25 AM Economic Evaluation of Limited Irrigation Production Strategies

Daniel K. Pate, Texas Tech University, Lubbock, TX, Jeff Johnson, Texas Agricultural Experiment Station, Lubbock, TX and James P. Bordovsky, Texas AgriLife Research, Plainview, TX

8:45 AM A Meta-Analytic Synthesis of Insecticide Termination Decision Rules

Terry Griffin, University of Arkansas - Division of Agriculture, Little Rock, AR

9:05 AM A Budget Analysis of Glyphosate-Resistant Palmer Amaranth Control and Seed Technology Choices in Georgia Cotton

W. Don Shurley, Amanda R. Smith, A. Stanley Culpepper and Phillip M. Roberts, The University of Georgia, Tifton, GA

9:25 AM Factors Contributing to the Perceived Usefulness of Soil Test Information

Dayton M. Lambert¹, Roland K. Roberts¹, Sherry L. Larkin² and David Harper³, (1) Department of Agricultural Economics, The University of Tennessee, Knoxville, TN, (2) University of Florida, Gainesville, FL, (3) University of Tennessee, Knoxville, TN

9:45 AM Cotton Marketer of the Year Award

10:00 AM Break

10:30 AM Trends in Cotton Precision Farming Adoption in Twelve Southern States: 2000-2008

B. C. English¹, D. F. Mooney¹, M. Velandia¹, J. A. Larson¹, R. K. Roberts¹, D. M. Lambert¹, S. L. Larkin², M. C. Marra³, R. Rejesus³, S. W. Martin⁴, K. W. Paxton⁵, A. Mishra⁵, C. Wang⁶, E. Segarra⁶ and J. M. Reeves⁷, (1) Department of Agricultural Economics, The University of Tennessee, Knoxville, TN, (2) Food and Resource Economics, University of Florida, Gainesville, FL, (3) North Carolina State University, Raleigh, NC, (4) Mississippi State University, Stoneville, MS, (5) Agricultural Economics and Business Development, Baton Rouge, LA, (6) Department of Agricultural and Applied Economics, Texas Tech University, Lubbock, TX, (7) Cotton Incorporated, Cary, NC

10:45 AM Costs and Returns of Using On-Board Module Building Harvesters with Skip-Row Cotton

Gregory Ibendahl¹, Michael Herbert Willcutt² and Stan R. Spurlock¹, (1) Mississippi State University, Mississippi State, MS, (2) MSUES Ag. & Bio. Engineering, Mississippi State, MS

11:00 AM A Nonparametric Analysis of Multidimensional Quality Attributes and Input Use in Cotton

Shiliang Zhao¹, Chenggang Wang¹, Eduardo Segarra¹ and Kevin Bronson², (1) Texas Tech University, Lubbock, TX, (2) Texas AgriLife Research, Lubbock, TX

11:15 AM An Economic Analysis of Irrigation and Tillage for Cotton in Southwest Georgia

Amanda R. Smith¹, W.D. Shurley¹, G.L. Ritchie¹ and C.D. Perry², (1) The University of Georgia, Tifton, GA, (2) The University of Georgia, Camilla, GA

11:30 AM Introducing CPAIDA: The Cotton Precision Agriculture Investment Decision Aid

D. F. Mooney, J.A. Larson, R.K. Roberts and B.C. English, Department of Agricultural Economics, The University of Tennessee, Knoxville, TN

11:45 AM Discussion

11:55 AM Concluding Remarks



Technical Conferences Program

59th Annual Cotton Engineering-Systems Conference

Wednesday Afternoon, January 6

Wednesday Afternoon Session

Preservation Hall Studios 9 & 10

New Orleans Marriott

1:30 PM-6:00 PM

Organizer: John Wanjura, Ginning Laboratory, USDA-ARS, Lubbock, TX

1:30 PM Soil Compaction Patterns by Conventional and on Board Module Building Systems:

Subodh S. Kulkarni¹, Leo Espinoza¹, Terry Griffin², Sreekala G. Bajwa³ and Ed M. Barnes⁴, (1)University of Arkansas Division of Agriculture Cooperative Extension Service, Little Rock, AR, (2)University of Arkansas - Division of Agriculture, Little Rock, AR, (3)University of Arkansas, Fayetteville, AR, (4) Cotton Incorporated, Cary, NC

1:45 PM Using Days Suitable for Fieldwork Information in the Farm-Management Decision-Making Process

Terry Griffin, University of Arkansas - Division of Agriculture, Little Rock, AR

2:00 PM Analysis of NDVI Benefits From Biomass Estimates

Marisol Benitez Ramirez, **Philip Allen**, John B. Wilkerson and William E. Hart, University of Tennessee, Knoxville, TN

2:15 PM An Assessment of Different Irrigation Scheduling Methods in Arkansas

M. Ismanov and Leo Espinoza, University of Arkansas Division of Agriculture Cooperative Extension Service, Little Rock, AR

2:30 PM Irrigation and Tillage of Cotton in a Corn/Cotton Rotation

James E. Hanks and **Daniel K. Fisher**, USDA Agricultural Research Service, Stoneville, MS

2:45 PM Methodology for Developing a Crop Yield Stability Map for a Field

James M. McKinion, Johnnie N. Jenkins and Jeffrey L. Willers, USDA-ARS-GAPARU, Mississippi State, MS

3:00 PM Break at Poster Session With Authors Present at Posters - Marriott Acadia

3:15 PM Sensor Based Variable Rate Harvest Aids

Randy Taylor¹, Shane Osborne² and J.C. Banks², (1)Oklahoma State University, Stillwater, OK, (2)Oklahoma State University, Altus, OK

3:30 PM Sensor Based, Site-Specific Nitrogen Management in Cotton

Ahmad Khalilian¹, Wesley Porter², **Will Henderson¹** and Young Han², (1) Clemson University, Blackville, SC, (2)Clemson University, Clemson, SC

3:45 PM Determination of Cotton Plant Injury by Aerial Application of Glyphosate Using Remote Sensing and Spray Drift Sampling

Yanbo Huang¹, Steven J. Thomson¹, B. V. Ortiz², Krishna N. Reddy¹, Wei Ding³ and Robert M. Zablotowicz¹, (1)USDA ARS, Stoneville, MS, (2)Auburn University, Auburn, AL, (3)Northeast Agricultural University, Harbin, China

4:00 PM Effects of Harvesting Method on Fiber and Yarn Quality From Irrigated Cotton on the High Plains

William Brock Faulkner¹, John Wanjura², Eric F. Hequet³, R. K Boman⁴ and B.W. Shaw¹, (1)Texas A&M University, College Station, TX, (2)USDA-ARS, Lubbock, TX, (3)Fiber and Biopolymer Research Institute - Dept. Plant & Soil Science, Texas Tech University, Lubbock, TX, (4)Texas AgriLife Extension Service, Lubbock, TX

4:15 PM Harvest Timing and Techniques to Optimize Fiber Quality - Initial Findings

J.D. Wanjura¹, M.S. Kelley², R. K Boman² and G.A. Holt¹, (1)USDA-ARS, Lubbock, TX, (2)Texas AgriLife Extension Service, Lubbock, TX

4:30 PM Optimum Spindle Speed for Spindle Pickers

Kevin D. Baker, USDA, Agricultural Research Service, SW Cotton Ginning Research Lab, Mesilla Park, NM

4:45 PM Autonomous Module Forming System

Robert G. Hardin IV, USDA-ARS Cotton Ginning Laboratory, Stoneville, MS and Stephen W. Searcy, Texas A&M University, College Station, TX

5:00 PM Prediction of Seed and Fiber Quality for Long-Term Storage of Seed Cotton

Mark Hamann, C. B. Parnell, W. B. Faulkner and R. O. McGee, Texas A&M University, College Station, TX

5:15 PM Cotton Gin Byproducts: Substrate for Eco-Friendly Packaging and Insulation Sheets/Panels

G.A. Holt¹, E. Bayer², G. McIntyre², A. Poetzch², J Wanjura¹ and M Pelletier¹, (1)USDA-ARS, Lubbock, TX, (2)Ecovative Design, LLC, Green Island, NY

5:30 PM An Update on the Bio-Energy Conversion Processes Utilizing Cotton Gin Trash

Sergio C. Capareda, Texas A&M University, College Station, TX

Thursday Morning, January 7

Thursday Morning Session

Preservation Hall Studios 9 & 10

New Orleans Marriott

8:00 AM-10:00 AM

Organizer: John Wanjura, Ginning Laboratory, USDA-ARS, Lubbock, TX

8:00 AM Cotton Fiber Properties Associated with Narrow-Row and Twin-Row Planting

J. Clif Boykin, USDA-ARS Cotton Ginning Research Unit, Stoneville, MS and Krishna N. Reddy, USDA ARS, Stoneville, MS

8:15 AM Effect of Mechanical Actions on Cotton Fiber Quality and Foreign-Matter Particle Attachment to Cotton Fibers

Ruixiu Sui, USDA-ARS Cotton Ginning Research Unit, Stoneville, MS, J. Alex Thomasson, Texas A&M University, Department of Biological & Agricultural Engineering, College Station, TX, Richard K. Byler, USDA-ARS, Stoneville, MS, J. Clif Boykin, USDA, ARS, Cotton Ginning Lab, Stoneville, MS and Edward M. Barnes, Cotton Incorporated, Cary, NC

8:30 AM Improvement of a Harvester Based, Multispectral, Seed Cotton Fiber Quality Sensor

Vince P. Schielack III¹, J. A. Thomasson¹, Ruixiu Sui², Cristine Morgan³ and Eric F. Hequet⁴, (1)Texas A&M University, Bio. & Ag. Engineering, College Station, TX, (2)USDA-ARS Cotton Ginning Research Unit, Stoneville, MS, (3) Texas A&M University, Soil & Crop Sciences Department, College Station, TX, (4)Fiber and Biopolymer Research Institute - Dept. Plant & Soil Science, Texas Tech University, Lubbock, TX

8:45 AM Cotton Fiber Quality Characterization with Vis-NIR Reflectance Spectroscopy: Toward An Optimal Sensor

Yufeng Ge, TAMU - BAEN Dept., College Station, TX, Ruixiu Sui, USDA-ARS Cotton Ginning Research Unit, Stoneville, MS and **J. Alex Thomasson**, Texas A&M University, Department of Biological & Agricultural Engineering, College Station, TX

9:00 AM Evaluation of EPA Approved FRM PM10 Samplers at Different Sampler Flow Rates

Mary K. Thelen and William B. Faulkner, Texas A&M University, College Station, TX



Technical Conferences Program

59th Annual Cotton Engineering-Systems Conference

9:15 AM Comparison of AERMOD and ISCST3 Emissions Factors for PM From Cotton Harvesting

Venkata S.V. Botlaguduru¹, John D. Wanjura², Russell O. McGee¹ and Calvin B. Parnell, Jr.¹, (1)Texas A&M University, College Station, TX, (2)USDA-ARS Cotton Production and Processing Research Unit, Lubbock, TX

9:30 AM Improving Water Quality with Better Management Practices in Midsouth Cotton

Daniel Robert Sappington¹, Teresa Brueggen², Jennifer L. Bouldin³, Steve Green³, Calvin Shumway³ and Tina Gray Teague³, (1)Ecotoxicology Research Facility, State University, AR, (2)Arkansas State University, State University, AR, (3)Arkansas State University - University of Arkansas Agricultural Experiment Station, State University, AR

26th Annual Cotton Ginning Conference

Wednesday Afternoon, January 6

Wednesday Afternoon Session

Preservation Hall Studios 1, 2, & 3

New Orleans Marriott

1:30 PM-6:00 PM

Presiding: Sledge Taylor, President, National Cotton Ginners' Association, Como, MS

Organizer: Harrison Ashley, National Cotton Council, Cordova, TN

1:30 PM Quality of the 2009 Cotton Crop

Robbie Seals, USDA/AMS/Cotton Program, Bartlett, TN

1:45 PM Ginning Picker and Stripper Harvested High Plains Cotton

J.D. Wanjura¹, W. B. Faulkner² and G.A. Holt¹, (1)USDA-ARS, Lubbock, TX, (2)Texas A&M University, College Station, TX

2:00 PM Automation of the Cherokee Round-Up Module Unwrapper

Mark D. Cory, Cherokee Fabrication Co. Inc., Salem, AL and Steve T. Evans, Cherokee Fabrication, Salem, AL

2:15 PM Ginning Three Module Types and the Resulting Fiber Quality

Richard K. Byler, USDA-ARS, Stoneville, MS, M.H. Willcutt, Mississippi State University, Mississippi State, MS, Michael J. Buschermohle, University of Tennessee, Knoxville, TN, TN, William D. Mayfield, Mayfield Consultants, Henderson, TN and Edward M. Barnes, Cotton Incorporated, Cary, NC

2:30 PM Quality Comparison of Saw and Roller Ginning Three Mid-South Cultivars

Richard K. Byler, USDA-ARS, Stoneville, MS, Robert G. Hardin IV, USDA-ARS Cotton Ginning Laboratory, Stoneville, MS, C. D. Delhom, USDA-ARS-SRRC, New Orleans, LA and Carlos B. Armijo, USDA-ARS Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM

2:45 PM High Capacity Gin Stands Enable New Plant Configurations

Ira R. Burge, Continental Eagle Corp, Prattville, AL

3:00 PM Multibar Sawless Lint Cleaner Lag Set Selection Using Desirability Functions and Cluster Analysis

G.A. Holt¹, J.D. Wanjura¹, Gary Gamble², Devron Thibodeaux², Roy V. Baker³, Carlos Armijo⁴ and Edward M. Barnes⁵, (1)USDA-ARS, Lubbock, TX, (2)Agricultural Research Service, USDA, Clemson, SC, (3)Retired USDA-ARS, Lubbock, TX, (4)Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM, (5)Cotton Incorporated, Cary, NC

3:15 PM The Value of New Technology in Cotton Ginning

Joe David Blakemore, B&B Cotton Co, Campbell, MO

3:30 PM Break at Poster Session With Authors Present at Posters - Marriott Acadia

4:00 PM Meeting International Fiber Quality Demands

Michael D. Watson and Vikki B. Martin, Cotton Incorporated, Cary, NC

4:15 PM Overview of the USDA, AMS, Cotton and Tobacco Programs' Daily Spot Cotton Quotations Program and Their Role in Establishing Commodity Credit Corporation (CCC) Loan Premiums and Discounts

Barbara Meredith, USDA, AMS, Cotton and Tobacco Programs, Memphis, TN

4:30 PM Update on International Activities in Cotton Classification and Standardization

James L. Knowlton, USDA, AMS, Cotton Program, Memphis, TN

4:45 PM A Non-Invasive Cotton Moisture Measuring Device for Ginning

Stuart G. Gordon, CSIRO Materials Science and Engineering, Belmont, Australia and Andrzej S. Krajewski, CSIRO Materials Science and Engineering, Belmont VIC, Australia

5:00 PM The State of the U.S. Ginning Industry

Charles C. Owen, Glenbar Gin, Inc., Pima, AZ

Thursday Morning, January 7

Thursday Morning Session

Preservation Hall Studios 1, 2, & 3

New Orleans Marriott

8:00 AM-10:00 AM

Presiding: Kirk Gilkey, Cross Creek II Gin, LLC, 1st Vice President, National Cotton Ginners' Association, Corcoran, CA

Organizer: Harrison Ashley, National Cotton Council, Cordova, TN

8:00 AM Declining Cotton Acreage Impacts on U.S. Cotton Ginning Industry Structure and Costs

Maria Erlinda Mutuc and Darren Hudson, Cotton Economics Research Institute at Texas Tech University, Lubbock, TX

8:15 AM Measuring the Supply of Cotton Ginning Infrastructure in Louisiana

J. Matthew Fannin, Kenneth Paxton and Huizhen Niu, LSU AgCenter, Baton Rouge, LA

8:30 AM Benefits of Onsite Energy Production for Cotton Gins

Cory L. Multer¹, Calvin B. Parnell¹, Russell O. McGee² and Sergio C. Capareda², (1)Texas A&M University, College Station, TX, (2)College Station, TX

8:45 AM Cotton Program Grading Branch Operations

Chuck Dubose, USDA, AMS, Cotton and Tobacco Programs, Memphis, TN

9:00 AM Cottonseed Marketing Panel Discussion: Sid Brough, Dwayne Alford, Robert Royal, Kent Fountain, Paul Scruggs, and Ben Morgan

Harrison Ashley, National Cotton Council, Cordova, TN



Technical Conferences Program

Joint Session: Cotton Engineering-Systems And Ginning Conferences

Thursday Morning, January 7

Thursday Morning Session

Preservation Hall Studios 1, 2, & 3

New Orleans Marriott

10:30 AM-12:00 PM

Presiding: Thomas D. Valco, USDA, ARS, Stoneville, MS

Organizer: Harrison Ashley, National Cotton Council, Cordova, TN

10:30 AM Varietal Variability for Cotton Ginning Efficiency
Efrem Bechere, W. R. Meredith and J. C. Boykin, USDA, Stoneville MS, MS

10:45 AM Using High-Speed Video to Examine Differential Roller Ginning of Upland Cotton

Carlos B. Armijo¹, Donald W. Van Doorn², Sidney E. Hughs¹ and Marvis N. Gillum³, (1)USDA-ARS Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM, (2)Lummus Corporation, Savannah, GA, (3)USDA-ARS, Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM

11:00 AM Characterization of Cotton Gin Particulate Matter Emissions – First Year

Derek P. Whitelock, USDA-ARS Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM, **J. Clif Boykin**, USDA-ARS Cotton Ginning Research Unit, Stoneville, MS, Michael D. Buser, Oklahoma State University - Biosystems and Agricultural Engineering, Stillwater, OK and Greg A. Holt, USDA-ARS Cotton Production and Processing Research Unit, Lubbock, TX

11:15 AM Advanced Simulation of Seed Cotton Long Range Transportation

Kaela Steubing, Cory Multer, Russell McGee and Calvin Parnell, BAEN, College Station, TX

11:30 AM Benchmark Study of the UGA Micro Gin: Second Year Result

Changying Li, Department of Biological & Agricultural Engineering, University of Georgia, Tifton, GA, Andy Knowlton, University of Georgia, Tifton, GA and Scott N. Brown, University of Georgia - Cooperative Extension, Moultrie, GA

11:45 AM Effects of Friction Reduction On Fiber Damage in a Saw-Type Lint Cleaner

J. Alex Thomasson, Texas A&M University, Department of Biological & Agricultural Engineering, College Station, TX, Ruixiu Sui, USDA-ARS Cotton Ginning Research Unit, Stoneville, MS, Richard K. Byler, USDA-ARS, Stoneville, MS and Edward M. Barnes, Cotton Incorporated, Cary, NC

Thursday Afternoon, January 7

Thursday Afternoon Session

Preservation Hall Studios 1, 2, & 3

New Orleans Marriott

1:30 PM-3:00 PM

Presiding: Thomas D. Valco, USDA, ARS, Stoneville, MS

Organizer: Harrison Ashley, National Cotton Council, Cordova, TN

1:30 PM Fire Prevention Strategies Using Spark Detection
Mike Viniconis, Argus Fire Control, Charlotte, NC and Neil Turner, Samuel Jackson, Rockwall, TX

1:45 PM Cotton Warehouse Flow Survey

Dale W. Thompson and Dale L. Cougot, National Cotton Council, Cordova, TN

2:00 PM Energy Use Patterns in Gins

Paul A. Funk, USDA-ARS-Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM, Robert G. Hardin IV, USDA-ARS Cotton Ginning Laboratory, Stoneville, MS and Thomas D. Valco, USDA, ARS, Stoneville, MS

2:15 PM Approaches to Characterize Lint Removed During Lint Cleaning

C. D. Delhom¹, J. Clif Boykin², Vikki B. Martin³ and Edward M. Barnes³, (1) USDA-ARS-SRRC, New Orleans, LA, (2)USDA, ARS, Cotton Ginning Lab, Stoneville, MS, (3)Cotton Incorporated, Cary, NC

2:30 PM Using ASTM Standard Test Methods for Water Vapor Transmission of Bale Bagging Materials to Predict Bale Weight Change During Storage

Andrew G. Jordan, Jordan Associates, Cordova, TN and Richard K. Byler, USDA-ARS, Stoneville, MS

2:45 PM Student Competition - Awards Presentation

William B. Faulkner, Texas A&M University, College Station, TX and Subodh S. Kulkarni, University of Arkansas Division of Agriculture Cooperative Extension Service, Little Rock, AR



Technical Conferences Program

62nd Annual Cotton Improvement Conference

Wednesday Afternoon, January 6

Wednesday Afternoon Session

Mardi Gras Ballroom Salons F, G & H

New Orleans Marriott

1:30 PM-6:00 PM

Presiding: Edward L. Lubbers, University of Georgia, Tifton, GA; Vasu Kuraparthi, North Carolina State University, Raleigh, NC

Organizer: Peng Chee, University of Georgia, Tifton, GA

1:30 PM Identification of Drought Tolerant Germplasm and QTLs in a Backcross Inbred Population of Cotton

Nicholas Adams¹, Sanjay Bajaj¹, Robert P. Flynn², Richard G. Percy³, S. Ed Hughes⁴ and Jinfa Zhang¹, (1)New Mexico State University, Las Cruces, NM, (2)New Mexico State University, Artesia, NM, (3)USDA-ARS, College Station, TX, (4)USDA-ARS-Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM

1:45 PM Microarray Analysis of Cytoplasmic Male Sterility and Restoration in Cotton

Hideaki Suzuki¹, Laura Rodriguez-Urbe¹, James Stewart² and Jinfa Zhang¹, (1)New Mexico State University, Las Cruces, NM, (2)University of Arkansas, Fayetteville, AR

2:00 PM Genetic Diversity Studies at Various Levels of Exotic Germplasm Introgression

Madan Mohan Chapala, Rachel Sharpe and David B. Weaver, Auburn University, Auburn University, AL

2:15 PM Transgressive Segregation in Upland Cotton

Benjamin Beyer¹, C. W. Smith¹, Gregory L. Berger² and Steve Hague¹, (1) Texas A&M University, College Station, TX, (2)Virginia Tech University, Blacksburg, VA

2:30 PM Phenotypic Evaluation of 63 Mutated Lines of TAM 94 L-25

Nino Brown¹, C. Wayne Smith², Steve Hague¹, Dick L. Auld³ and Justin C. Duncan⁴, (1)Texas A&M University, College Station, TX, (2)Texas A&M, College Station, TX, (3)Texas Tech University, Lubbock, TX, (4)Cotton Improvement Lab, College Station, TX

2:45 PM Genetic Analysis of AFLP Markers Associated with Seed Quality Traits in Upland Cotton (*Gossypium hirsutum*)

A. Badigannavar and Gerald O. Myers, LSU AgCenter, Baton Rouge, LA

3:00 PM Evaluation of Sea Island x Upland Inbred Lines

Neha Kothari, Steve Hague and Wayne Smith, Texas A&M University, College Station, TX

3:15 PM Within-Boll Lint Yield Components of Extra Long Staple Uplands

Kolbyn S. Joy, C. Wayne Smith and **Steve Hague**, Texas A&M, College Station, TX

3:30 PM Break at Poster Session With Authors Present at Posters - Marriott Acadia

4:00 PM Resistance to Reniform Nematode From *G. hirsutum* and *G. longicalyx* Sources: A Comparison

Çigdem Sürmelioglu, Roelof B. Sikkens, Rachel R. Sharpe, Scott R. Moore, Edzard van Santen, Kathy S. Lawrence and David B. Weaver, Auburn University, Auburn, AL

4:15 PM Association Analysis and Genotyping of Fiber Quality Trait of *Gossypium hirsutum* Lines for Resistance in Reniform Nematodes

Megha V. Sharma¹, Stella Kantartzis¹, David B. Weaver² and James Stewart¹, (1)University of Arkansas, Fayetteville, AR, (2)Auburn University, Auburn University, AL

4:30 PM Seedling Vigor Effects on Evaluation of Genetic Resistance to Reniform Nematode in *Gossypium hirsutum*

Roelof B. Sikkens, Çigdem Sürmelioglu, Rachel Sharpe, Scott R. Moore, Edzard van Santen, Kathy S. Lawrence and David B. Weaver, Auburn University, Auburn University, AL

4:45 PM Assessment of Acala/Upland and Pima Cottons Response to Fusarium Wilt Disease in the San Joaquin Valley of California

Robert B. Hutmacher, University of California - Davis, Davis, CA, Mauricio Ulloa, USDA-ARS, WICSRU, Shafter, CA, R. Michael Davis, University of California, Department of Plant Pathology, Davis, CA, Steve D. Wright, University of California, Tulare, CA, Brian Marsh, Univ. of California, Shafter, CA, Peter Goodell, Cooperative Extension, Univ Calif, Parlier, CA, Gerardo Banuelos, University of California Cooperative Extension, Tulare, CA, Mark Keeley, University of California Dept Plant Sciences, Shafter, CA and Dan Munk, University of CA Cooperative Extension - Fresno County, Fresno, CA

5:00 PM Early Molecular Events in Conferring Resistance to Verticillium Wilt Disease in Pima Cotton Revealed by Next-Generation Sequencing

Thea Wilkins¹, Ingrid E. Lindquist², Uzma Qaisar¹, Arvind K. Bharti², Terry Wheeler³, Gregory D. May² and Joann Mudge², (1)Plant and Soil Science Texas Tech University, Lubbock, TX, (2)National Center for Genome Resources, Santa Fe, NM, (3)Texas AgriLife Research and Extension Center, Lubbock, TX

5:15 PM Evaluation of Nectariless Breeding Lines for Resistance to Tarnished Plant Bugs

Ted P. Wallace, Mississippi State University, Mississippi State, MS and Jeff Gore, Mississippi State University, DREC, Stoneville, MS

5:30 PM Training Plant Breeding Graduate Students at the Tecoman Winter Nursery

Steve Hague¹, Jane Dever², R. L. Nichols³ and Don C. Jones³, (1)Texas A&M University, College Station, TX, (2)Texas AgriLife Research, Lubbock, TX, (3)Cotton Incorporated, Cary, NC

5:45 PM Interspecific Chromosome Substitution Lines: a Unique Genetic Resource for Cotton Research

Sukumar Saha, Dwaine A. Raska, Jixiang Wu, Johnnie N. Jenkins, Jack C. McCarty, B.T. Campbell and David M. Stelly

Thursday Morning, January 8

Characterizing And Locating Genes For Resistance To Cotton Nematodes

Mardi Gras Ballroom Salons F, G & H

New Orleans Marriott

8:00 AM-10:00 AM

Organizer: Peng Chee, University of Georgia, Tifton, GA; Jodi Scheffler, USDA-ARS, Stoneville, MS; Robert L. Nichols, Cotton Incorporated, Cary, NC

8:00 AM Inheritance of Resistance to Root-Knot Nematodes in Primitive Cotton Accessions From Mexico

James L. Starr¹, C. W. Smith¹, **E. R. Moresco¹** and R. L. Nichols², (1)Texas A&M University, College Station, TX, (2)Cotton Incorporated, Cary, NC

8:15 AM Development of Upland Cotton Plants Highly Resistant to the Reniform Nematode From the *G. hirsutum* x *G. thurberi* x *G. longicalyx* Hybrid

Guy Gustave Mergeai, J.-P. Baudoin and O.N. Konan, Gembloux Agricultural University, Gembloux, Belgium



Technical Conferences Program

62nd Annual Cotton Improvement Conference

8:30 AM SSR Markers Associated With Root-Knot Nematode Resistance

Johnie N. Jenkins¹, Osman A. Gutierrez², Jack C. McCarty¹ and Martin J. Wubben³, (1)USDA/ARS, Mississippi State, MS, (2)Department of Plant and Soil Sciences, Mississippi State University, Mississippi State, MS, (3)USDA-ARS, Mississippi State, MS

8:45 AM Phenotypic and Genetic Evaluation of LONREN Germplasm

R. L. Nichols¹, A.A. Bell², D.M. Stelly³, Nilesh D. Dighe⁴, Monica Menz², J. L. Starr⁴, Don L. Keim⁶, Jack E. Jones⁷, C. Overstreet⁸, David Fang⁹, Robert Lemon¹⁰, Paula Agudelo¹¹, C. G. Cook¹², Gene Burris¹³ and A. F. Robinson¹⁴, (1)Cotton Incorporated, Cary, NC, (2)USDA-ARS, College Station, TX, (3) Texas A&M Univ., College Station, TX, (4)Texas A&M University, College Station, TX, (5)Syngenta Seeds SAS, Beaufort, France, (6)Delta & Pine Land Business of Monsanto Co., Scott, MS, (7)JAJG Genetics, Baton Rouge, LA, (8) LSU AgCenter, Baton Rouge, LA, (9)USDA-ARS, Southern Regional Research Center, New Orleans, LA, (10)AgriThory, Kansas City, MO, (11)Clemson University, Clemson, SC, (12)All-Tex Seed, Victoria, TX, (13)LSU AgCenter Northeast Research Station, St. Joseph, LA, (14)Bryan, TX

9:00 AM Overview on Use of GB713 in Breeding for Resistance to Reniform Nematode in Cotton

Lawrence D. Young and Salliana R. Stetina, USDA-ARS Crop Genetics Research Unit, Stoneville, MS

9:15 AM Exploring New Sources of Resistance to Reniform Nematode, *Gossypium aridum* and Beyond

Jodi A. Scheffler¹, Gabriela Romano², Erik J. Sacks³, Salliana R. Stetina¹, A. F. Robinson⁴, David Fang⁵ and Osman A. Gutierrez⁶, (1)USDA-ARS Crop Genetics Research Unit, Stoneville, MS, (2)USDA-ARS, Stoneville, MS, (3) Mendel Biotechnology, Hayward, CA, (4)Robinson, Inc., College Station, TX, (5)USDA-ARS, Southern Regional Research Center, New Orleans, LA, (6) Department of Plant and Soil Sciences, Mississippi State University, Mississippi State, MS

9:30 AM Genetic and Physical Mapping of Root-Knot Nematode Resistance On Chromosome 11 of Acala NemX Cotton

P. A. Roberts¹, Congli Wang¹ and Mauricio Ulloa², (1)University of California Riverside, Riverside, CA, (2)USDA-ARS, WICSRU, Shafter, CA

9:45 AM High-Resolution Genetic Mapping of the Mi-C11 Locus On Chromosome 11

Xinlian Shen¹, Yajun He¹, Richard Davis², Robert L. Nichols³ and **Peng Chee**¹, (1)University of Georgia, Tifton, GA, (2)USDA-ARS, Tifton, GA, (3)Cotton Incorporated, Cary, NC

Thursday Morning Session

Mardi Gras Ballroom Salons F, G & H

New Orleans Marriott

10:30 AM-12:00 PM

Presiding: B. T. Campbell, USDA-ARS, Coastal Plains Soil, Water, and Plant Research Center, Florence, SC

Organizer: Peng Chee, University of Georgia, Tifton, GA

10:30 AM 50th Anniversary of the National Cotton Variety Testing Program

W. R. Meredith, USDA, Stoneville MS, John R. Gannaway, Texas AgriLife Research, Lubbock, TX and Fred M. Bourland, Northeast Research and Extension Center, Keiser, AR

10:45 AM Improving Cotton (*Gossypium hirsutum* L.) for Fiber and Yarn Quality

Carol Mason Kelly, Texas Tech University / Texas A&M Experiment Station, Lubbock, TX, Eric F. Hequet, Fiber and Biopolymer Research Institute - Dept. Plant & Soil Science, Texas Tech University, Lubbock, TX and **Jane K. Dever**, Texas Agrilife Research, Lubbock, TX

11:00 AM Use of HVI and AFIS Data From Multi-Year RBTN Trial Data to Predict Spinning Performance

Don C. Jones¹, William C. Bridges² and Elizabeth L. Crouch², (1)Cotton Incorporated, Cary, NC, (2)Clemson University - Department of Applied Economics and Statistics, Clemson, SC

11:15 AM Relationship of Q-Score and Loan Value

Rob Hogan¹, Fred Bourland², Ed M. Barnes³ and Don C. Jones³, (1)Texas A&M University, Fort Stockton, TX, (2)University of Arkansas, Keiser, AR, (3) Cotton Incorporated, Cary, NC

11:30 AM Use of Q-Score in a Cotton Breeding and Variety Testing Program

Fred Bourland¹, Don C. Jones², Rob Hogan³ and Ed M. Barnes², (1)University of Arkansas, Keiser, AR, (2)Cotton Incorporated, Cary, NC, (3)Texas A&M University, Fort Stockton, TX

11:45 AM A Comparison of Frequently Used Cotton Boll Sampling Methods

Tyson Andrew Phillips and Gerald O. Myers, LSU AgCenter, Baton Rouge, LA

Thursday Afternoon, January 7

Thursday Afternoon Session

Mardi Gras Ballroom Salons F, G & H

New Orleans Marriott

1:30 PM-5:15 PM

Presiding: Lori Hinze, USDA-ARS, College Station, TX; Michael Gore, USDA-ARS, Maricopa, AZ

Organizer: Peng Chee, University of Georgia, Tifton, GA

1:30 PM Determination of Optimum Data Sets to Employ for Choosing Cotton Cultivars

Archie Flanders, University of Arkansas, Keiser, AR and Fred Bourland, University of Arkansas - Northeast Research and Extension Center, Keiser, AR

1:45 PM Regional Breeders Testing Network [RBTN]: An Update

Don C. Jones, Cotton Incorporated, Cary, NC and Ted P. Wallace, Mississippi State University, Mississippi State, MS

2:00 PM Conventional Breeder Seed Increase Program

Don C. Jones, Cotton Incorporated, Cary, NC, Fred Bourland, University of Arkansas - Northeast Research and Extension Center, Keiser, AR, Gerald O. Myers, LSU AgCenter, Baton Rouge, LA and Jay Subramani, University of Arizona, Maricopa, AZ

2:15 PM GlyTol™ and GlyTol™ + LibertyLink® Cotton Technologies and Their Tolerance to Multiple Glyphosate Formulations

Gary Henniger¹, **Scott Baker**², Robert Humphries³, Mark Rinehardt⁴, Linda Trolinder¹ and Jonathan Holloway¹, (1)Bayer CropScience, Lubbock, TX, (2) Bayer CropScience, Memphis, TN, (3)Bayer CropScience, Shafter, CA, (4) Bayer CropScience, Wilson, NC



Technical Conferences Program

62nd Annual Cotton Improvement Conference

2:30 PM Performance of GlyTol™ + LibertyLink® Cotton Technologies - A US Cotton Belt Perspective

Gary Henniger¹, Jonathan Holloway¹, Mark Rinehardt², Scott Baker³, Robert Humphries⁴ and Linda Trolinder¹, (1)Bayer CropScience, Lubbock, TX, (2)Bayer CropScience, Wilson, NC, (3)Bayer CropScience, Memphis, TN, (4)Bayer CropScience, Shafter, CA

2:45 PM The Construction of a Gossypium AD-Genome-wide Comprehensive Reference Map Based on Diverse Data Resources

Jing Yu, USDA-ARS/TAMU, College Station, TX, Russell J. Kohel, USDA-ARS, College Station, TX and C. Wayne Smith, Texas A&M, College Station, TX

3:00 PM Development of Core SSR Markers for Gossypium Germplasm Characterization

John Z. Yu¹, David Fang², Mauricio Ulloa³, Richard G. Percy¹, Russell J. Kohel¹, Lori L. Hinze¹, James Frelichowski¹, Jaemin Cho¹, Todd Campbell⁴, Peng Chee⁵, Jinfa Zhang⁶, Ibrokhim Abdurakhmonov⁷, Abdusattor Abdulkarimov⁷ and Don C. Jones⁸, (1)USDA-ARS, College Station, TX, (2)USDA-ARS, New Orleans, LA, (3)USDA-ARS, Shafter, CA, (4)USDA-ARS, Florence, SC, (5)University of Georgia, Tifton, GA, (6)New Mexico State University, Las Cruces, NM, (7)Institute of Genetics and Plants Experimental Biology, Tashkent, Uzbekistan, (8)Cotton Incorporated, Cary, NC

3:15 PM Genetic Diversity of Diploid and Tetraploid Cottons Determined by SSR Markers

Yuksel Bolek and Adem Bardak, Kahramanmaraş Sutcu Imam University, Kahramanmaraş, Turkey

3:30 PM Break

3:45 PM Is There a Relationship Between Development of Leaf and Ovule Trichomes?

Rickie B. Turley and Kevin C. Vaughn, USDA-ARS, Stoneville, MS

4:00 PM Comparison of G. Hirsutum and G. Barbadense Clarifies Potential Roles of Cell Wall-Mediated Fiber Bundling in Fiber Development and Quality Characteristics

Candace H. Haigler¹, Bir Singh¹ and Utku Avci², (1)North Carolina State University, Raleigh, NC, (2)Univ. of Georgia/Complex Carbohydrate Research Center, Athens, GA

4:15 PM Auxin Is Involved Intranscriptional Regulation of Gossypium Hirsutum Cellulose Synthase Catalytic Subunit 4 in Transgenic Arabidopsis and Cultured Cotton Fibers

Hee Jin Kim¹, Norimoto Murai¹ and Barbara A. Triplett², (1)Louisiana State University, Baton Rouge, LA, (2)USDA-ARS, New Orleans, LA

4:30 PM Toward Identification of the Complete Aquaporin Gene Family in Cotton – A Possible Way to Improve Cotton Production

Wonkeun Park¹, Brian Scheffler², Phil J. Bauer¹ and **B. Todd Campbell**¹, (1)USDA-ARS, Florence, SC, (2)USDA-ARS-CGRU, MSA Genomics Laboratory, Stoneville, MS

4:45 PM Production and Testing of Transgenic Cotton That Expresses Transcription

Aman Mittal¹, Qingjun Luo¹, Craig Bednarz², John J. Burke³ and **Chris Rock**¹, (1)Dept. Biological Sciences, Lubbock, TX, (2)Texas Tech University, Lubbock, TX, (3)USDA-ARS, Lubbock, TX

5:00 PM Business Meeting



Technical Conferences Program

63rd Annual Cotton Insect Research And Control Conference

Wednesday Afternoon, January 6

Wednesday Afternoon - Session A

Mardi Gras Ballroom Salon D

New Orleans Marriott

1:30 PM-6:00 PM

Presiding: Michael D. Toews, University of Georgia, Department of Entomology, Tifton, GA; Megha N. Parajulee, Texas AgriLife Research, Lubbock, TX

1:30 PM Introductory Remarks - John Adamczyk and Gus Lorenz

1:35 PM Cotton Insect Losses - 2009

Michael Williams, Mississippi State University, Abbeville, MS

1:45 PM Multi-State Standardized Miticide Test in Mid-southern Cotton

Jeff Gore¹, John Frederick Smith¹, **Scott D. Stewart**², Angus Catchot¹, Don Cook¹, B. R. Leonard³, Gus Lorenz⁴, Scott Akin⁴, Glenn Studebaker⁴, Ryan Jackson⁵ and K. V. Tindall⁶, (1)Mississippi State University, Mississippi State, MS, (2)The University of Tennessee, Jackson, TN, (3)LSU AgCenter, Winnsboro, LA, (4)University of Arkansas Cooperative Extension Service, Lonoke, AR, (5) USDA-ARS, SIMRU, Stoneville, MS, (6)Univ. of Missouri, Portageville, MO

2:00 PM Multistate Evaluation of Cotton Yield Loss Caused by Twospotted Spider Mite

J. F. Smith¹, A. L. Catchot¹, Scott D. Stewart², B. R. Leonard³, D. S. Akin⁴, G.M. Lorenz⁵, K. V. Tindall⁶, Glenn E. Studebaker⁷, J. Gore⁸ and D. R. Cook⁸, (1)Mississippi State University, Mississippi State, MS, (2)The University of Tennessee, Jackson, TN, (3)LSU AgCenter, Winnsboro, LA, (4)University of Arkansas, Monticello, AR, (5)Cooperative Extension Service University of Arkansas, Little Rock, AR, (6)Univ. of Missouri, Portageville, MO, (7)University of Arkansas, Keiser, AR, (8)Mississippi State University, Stoneville, MS

2:15 PM Efficacy of Selected Miticides in Louisiana Cotton, 2006-2009

Joshua H. Temple¹, Paul P. Price², Karla Emfinger³, Jarrod T. Hardke¹, Eugene Burris⁴, Jonathan W. Sharp⁵ and B. Roger Leonard⁶, (1)LSU AgCenter, Baton Rouge, LA, (2)LSU AgCenter, Winnsboro, LA, (3)Winnsboro, LA, (4)LSU Agricultural Center, Northeast Research Station, St. Joseph, LA, (5)LSU Agcenter, Winnsboro, LA

2:30 PM Elevated Numbers of Spider Mites on Thiamethoxam Seed-Treated Cotton in a Greenhouse Study

Adrianna Szczepaniec and Micky D. Eubanks, Texas A&M University, College Station, TX

2:45 PM Evaluation of Foliar Insecticide Applications Following Preventative Insecticide for Control of Thrips

D. Scott Akin¹, Gus Lorenz², Glenn E. Studebaker³, B. Rogers Leonard⁴, Scott D. Stewart⁵, Jack Reed⁶, Angus Catchot⁶, D. R. Cook⁷, Jeff Gore⁸, Chris Daves⁹, Ryan Jackson¹⁰, K. C. Allen¹⁰, David L. Kerns¹¹, Michael D. Toews¹², Phillip Roberts¹², K. V. Tindall¹³, Ames Herbert¹⁴, Jeremy K. Greene¹⁵ and Jack Bachelier¹⁶, (1)University of Arkansas, Monticello, AR, (2)University of Arkansas Cooperative Extension Service, Lonoke, AR, (3)University of Arkansas, Keiser, AR, (4)LSU AgCenter, Macon Ridge Station, Winnsboro, LA, (5)The University of Tennessee, Jackson, TN, (6)Mississippi State University, Mississippi State, MS, (7)Mississippi State University, Stoneville, MS, (8)Mississippi State University, DREC, Stoneville, MS, (9)Mississippi State University, Raymond, MS, (10)USDA-ARS, SIMRU, Stoneville, MS, (11)Texas AgriLife Extension Service, Lubbock, TX, (12)University of Georgia, Tifton, GA, (13)Univ. of Missouri, Portageville, MO, (14)Virginia Tech, Suffolk, VA, (15)Clemson University, Blackville, SC, (16)North Carolina State University, Raleigh, NC

3:00 PM Evaluating Critical Periods of Early Season Thrips Control

Phillip M. Roberts¹, Jeremy Greene² and Michael Toews¹, (1)University of Georgia, Tifton, GA, (2)Clemson, Blackville, SC

3:15 PM In-Season Use of Temik for Insect Management in Cotton

D. R. Cook¹, J. Gore¹, A. L. Catchot², S. D. Stewart³, G. M. Lorenz⁴, B. R. Leonard⁵, K. V. Tindall⁶, D. S. Akin⁷, G. Studebaker⁸, F. R. Musser² and E. Burris⁹, (1)Mississippi State University, DREC, Stoneville, MS, (2)Mississippi State University, Mississippi State, MS, (3)Jackson, TN, (4)Univ. of Arkansas Cooperative Extension Service, Little Rock, AR, (5)LSU AgCenter, Macon Ridge Research Station, Winnsboro, LA, (6)Univ. of Missouri, Portageville, MO, (7)University of Arkansas, Monticello, AR, (8)Univ. of Ark.- NEREC, Keiser, AR, (9)LSU AgCenter, Northeast Research Station, St. Joseph, LA

3:30 PM Break at Poster Session With Authors Present at Posters - Marriott Acadia

4:00 PM Volunteer Cotton and Infestation by the Boll Weevil in the Lower Rio Grande Valley of Texas

R. J. Coleman, USDA, ARS, Beneficial Insects Research Unit, Weslaco, TX and John Adamczyk, Beneficial Insects Research Unit, Weslaco, TX

4:15 PM Arkansas Boll Weevil Eradication Update, 2009

Danny Kiser and Michael Catanach, Arkansas Boll Weevil Eradication Program, Little Rock, AR

4:30 PM 2009 Progress Report- Texas Boll Weevil Eradication Program and the Texas Pink Bollworm Program

Larry E. Smith, Lindy W. Patton and Patrick B. Burson, Texas Boll Weevil Eradication Foundation, Abilene, TX

4:45 PM Seasonal Dynamics of Insect Community Structure in Texas High Plains Cotton

Ram B. Shrestha, **Anup Bastola** and Megha N. Parajulee, Texas AgriLife Research, Lubbock, TX

5:00 PM Effect of Nitrogen Fertility on Agronomic Parameters and Arthropod Activity in Drip Irrigated Cotton

Megha N. Parajulee¹, Stanley C. Carroll¹, Ram B. Shrestha¹, Raymondbo J. Kesey¹, Douglas M. Nesmith² and James P. Bordovsky², (1)Texas AgriLife Research, Lubbock, TX, (2)Texas AgriLife Research, Plainview, TX

5:15 PM Temperature and Host Relationships of the Stinkbug Parasitoid *Aridelus rufotestaceus* (Hymenoptera: Braconidae)

John R. Ruberson¹, Melissa D. Thompson¹, Scott R. Shaw², Walker A. Jones³, Phillip Roberts¹ and Michael D. Toews¹, (1)University of Georgia, Tifton, GA, (2)University of Wyoming, Laramie, WY, (3)USDA, ARS, BIRU, Weslaco, TX

5:30 PM Business Meeting

Wednesday Afternoon - Student Paper Competition

Mardi Gras Ballroom Salons B & C

New Orleans Marriott

1:45 PM-4:00 PM

Presiding: Dominic D. Reisig, North Carolina State University, Vernon James Research and Extension Center, Plymouth, NC

Organizer: Glenn E. Studebaker, University of Arkansas, Keiser, AR

1:45 PM Can We Rely on a Single Insecticide for Tarnished Plant Bug Control in Louisiana Cotton?

Jonathan W. Sharp¹, Josh T. Copes², Eugene Burris³, Paul P. Price⁴, Joshua H. Temple⁵, Jarrod T. Hardke⁵ and B. R. Leonard⁴, (1)LSU Agcenter, Winnsboro, LA, (2)Winnsboro, LA, (3)LSU Agricultural Center, Northeast Research Station, St. Joseph, LA, (4)LSU AgCenter, Winnsboro, LA, (5)LSU AgCenter, Baton Rouge, LA

2:00 PM Sublethal Effects of Selected Insecticides on *Lygus hesperus* Oviposition in Cotton

Abhilash Balachandran¹, David L. Kerns² and Megha N. Parajulee¹, (1)Texas AgriLife Research, Lubbock, TX, (2)Texas AgriLife Extension Service, Lubbock, TX



Technical Conferences Program

63rd Annual Cotton Insect Research And Control Conference

2:15 PM Tarnished Plant Bug Movement in a Cotton / Corn Ecosystem

Ankit Kumar and Fred Musser, Mississippi State University, Mississippi State, MS

2:30 PM Fruit Injury and Developing Action Thresholds in Dual Gene Transgenic Cotton

Ben Von Kanel, Gus Lorenz, Kyle Colwell, Nikki Taillon and Heather Wilf, University of Arkansas Cooperative Extension Service, Little Rock, AR

2:45 PM Effects of Seed and Soil Applied Insecticides on Twospotted Spider Mite on Cotton

J. F. Smith¹, A. L. Catchot¹, F. R. Musser¹ and J. Gore², (1)Mississippi State University, Mississippi State, MS, (2)Mississippi State University, Stoneville, MS

3:00 PM Mechanisms of Pyrethroid Insecticide Resistance in *Helicoverpa Zea* (Boddie) (Lepidoptera: Noctuidae)

Bradley W. Hopkins, Texas A&M University, Corpus Christi, TX and Patricia V. Pietrantonio, Texas AgriLife Research, College Station, TX

3:15 PM Defining the Toxicity of Novel Insecticides Against Fall Armyworm

Jarrold T. Hardke¹, Joshua H. Temple¹ and B. R. Leonard², (1)LSU AgCenter, Baton Rouge, LA, (2)LSU AgCenter, Macon Ridge Research Station, Winnsboro, LA

3:30 PM Efficacy of Selected Insecticides Against Eggs of *Euschistus servus* (Say) and *Acrosternum hilare* (Say) (Hemiptera: Pentatomidae) and the Egg Parasitoid, *Telenomus podisi* Ashmead (Hymenoptera: Scelionidae)

Amanda L. Koppel¹, D. Ames Herbert² and Sean Malone², (1)Virginia Tech, Blacksburg, VA, (2)Virginia Tech, Suffolk, VA

3:45 PM Genetic Population Structure of *Lygus hesperus* in the Texas High Plains

Ram B. Shrestha, Megha N. Parajulee and Stanley C. Carroll, Texas AgriLife Research, Lubbock, TX

4:00 PM Break

Wednesday Afternoon - Session B

Mardi Gras Ballroom Salons B & C

New Orleans Marriott

4:30 PM-5:30 PM

Presiding: D. S. Akin, University of Arkansas, Monticello, AR

4:30 PM Contrasting Pest Control Practices and Agronomic Performance Between the Sustainable Cotton Project's BASIC Management System and Conventional Cotton Production Practices in California

Bruce A. Roberts, Department of Plant Science, CSU-Fresno, Fresno, CA and Peter B. Goodell, Cooperative Extension, Univ Calif, Parlier, CA

4:45 PM Differentiation of Cotton Pollen

Hali McCurry, Texas A&M University, College Station, TX and Gretchen D. Jones, USDA-ARS, APMRU, College Station, TX

5:00 PM Plant Defenses and Predators: How Aphids Interact With Other Herbivores in Cotton

Ricardo Ramirez and Micky D. Eubanks, Texas A&M University, College Station, TX

5:15 PM Transcriptomics by Massive Parallel, Pyrosequencing of the Green Stink Bug: Functional Gene Ontology and New Targets for Control

R. Michael Roe, Ana R. Cabrera, Jaap B. van Kretschmar, Leonardo C. Magalhaes, Clyde E. Sorenson, Jack, S. Bacheler and Sayed M. S. Khalil, North Carolina State University, Raleigh, NC

Thursday Morning, January 7

Thursday Morning - Session A

Mardi Gras Ballroom Salon D

New Orleans Marriott

8:00 AM-1:00 PM

Presiding: K. V. Tindall, University of Missouri, Portageville, MO; K. C. Allen, USDA-ARS, SIMRU, Stoneville, MS

8:00 AM An Introduction to Sulfoxaflor: A Novel Insecticide from Dow AgroSciences for Control of Sap-Feeding Insects

J.D. Thomas, J. M. Babcock, R. Brinkmeyer, B. A. Houtman, S. Keeler, V. J. Kramer, K. Qin, T. C. Sparks and K. L. Steffey, Dow AgroSciences LLC, Indianapolis, IN

8:15 AM Performance of Dow AgroSciences Sulfoxaflor Insecticide Against Tarnished Plant Bug, *Lygus lineolaris*, on Mid-South Cotton

M.W. Siebert, L.C. Walton, R.B. Lassiter, R. A. Haygood, J.D. Thomas and J.S. Richburg, Dow AgroSciences LLC, Indianapolis

8:45 AM Control of Cotton Aphids, *Aphis gossypii* Glover, With Dow AgroSciences Sulfoxaflor Insecticide in Cotton

L.C. Walton, B.A. Castro, M.W. Siebert, R.B. Lassiter, R.A. Haygood, J.M. Richardson, L.B. Braxton, J.D. Thomas, J.S. Richburg and F.J. Haile, Dow AgroSciences LLC, Indianapolis, IN

9:00 AM Bioassays and Management of Cotton Aphids With Neonicotinoids and Sulfoxaflor

Jeff Gore, Mississippi State University, DREC, Stoneville, MS, D. R. Cook, Mississippi State University, Stoneville, MS, Angus Catchot, Mississippi State University, Mississippi State, MS, B. R. Leonard, LSU AgCenter, Winnsboro, LA, G. M. Lorenz, University of Arkansas Division of Agriculture, Little Rock, AR and Scott D. Stewart, The University of Tennessee, Jackson, TN

9:15 AM Management Strategies and New Insecticides for Tarnished Plant Bug in the Delta

A. L. Catchot, Mississippi State University, Mississippi State, MS, J. Gore, Mississippi State University, Stoneville, MS, Scott D. Stewart, The University of Tennessee, Jackson, TN, G. Lorenz, University of Arkansas, Keiser, AR and B. R. Leonard, LSU AgCenter, Winnsboro, LA

9:30 AM Insecticide Use Strategies Against Tarnished Plant Bug in Arkansas and Louisiana

B. Rogers Leonard¹, G. M. Lorenz², K.D. Emfinger¹, K. Colwell², J. Hardke³ and B. VonKanel², (1)LSU AgCenter, Winnsboro, LA, (2)Univ. of Arkansas Cooperative Extension Service, Little Rock, AR, (3)LSU AgCenter, Baton Rouge, LA

9:45 AM Susceptibilities of Tarnished Plant Bug and Stink Bug Nymphs to Various Insecticides

K. C. Allen¹, F. R. Musser², R. E. Jackson¹ and Gordon Snodgrass³, (1)USDA-ARS, SIMRU, Stoneville, MS, (2)Mississippi State University, Mississippi State, MS, (3)USDA, Stoneville, MS

10:00 AM Break

10:30 AM Landscape Movement of Tarnished Plant Bug

R. E. Jackson¹, Gordon Snodgrass² and K. C. Allen¹, (1)USDA-ARS, SIMRU, Stoneville, MS, (2)USDA, Stoneville, MS

10:45 AM Variation Among Samplers Using the Sweep Net for *Lygus hesperus* Adults in Cotton

Dale Spurgeon and William R. Cooper, USDA, ARS, WICSRU, Shafter, CA

11:00 AM Control of *Lygus hesperus* and Cotton Yield Response With Belay Insecticide (Clothianidin) in the Western United States

Patrick A. Clay, Valent U.S.A. Corporation, Maricopa, AZ, Mike Ansolabehere, Valent U.S.A. Corporation, Fresno, CA and Carlos Granadino, Valent U.S.A. Corporation, Germantown, TN



Technical Conferences Program

63rd Annual Cotton Insect Research And Control Conference

11:15 AM Do Stink Bugs in Corn Impact Cotton?

Glynn Tillman, USDA, ARS, Tifton, GA

11:30 AM Border Applications of Insecticide to Manage Stink Bugs in South Carolina and Georgia Cotton

Francis P. F. Reay-Jones, Clemson University, Florence, SC, Jeremy K. Greene, Clemson University, Blackville, SC and Michael D. Toews, University of Georgia, Tifton, GA

11:45 AM Stink Bug Distribution and Reproductive Capacity in Georgia Cotton Farmscapes

John J. Herbert and Michael D. Toews, University of Georgia, Tifton, GA

12:00 PM Exploiting Volatile Emissions From Cotton Bolls as a Management Tool for Stink Bugs

David Degenhardt, Jeremy K. Greene and Ahmad Khalilian, Clemson University, Blackville, SC

12:15 PM Newest Eco-Friendly, Efficient and Affordable Way of Cotton Treatment Against Spider Mites

Firuzza Ibdova, Samarkand State University, Samarkand, Uzbekistan

Thursday Morning - Session B

Mardi Gras Ballroom Salons B & C

New Orleans Marriott

8:00 AM-1:00 PM

Presiding: Timothy J. Dennehy, Monsanto Company, St. Louis, MO; John J. Adamczyk, USDA, ARS, KSARC, Weslaco, TX

8:00 AM Pyrethroid Resistance Monitoring of Bollworms

Fred Musser, Mississippi State University, Mississippi State, MS, Ryan Jackson, USDA-ARS, SIMRU, Stoneville, MS, Megha N. Parajulee, Texas AgriLife Research, Lubbock, TX, John J. Adamczyk, USDA, ARS, BIRU, Weslaco, TX, B. Rogers Leonard, LSU AgCenter, Macon Ridge Station, Winnsboro, LA, Gus M. Lorenz, University of Arkansas Cooperative Extension Service, Little Rock, AR, D. S. Akin, University of Arkansas, Monticello, AR, Scott D. Stewart, The University of Tennessee, Jackson, TN, K. V. Tindall, Univ. of Missouri, Portageville, MO, D. Ames Herbert, Virginia Tech, Suffolk, VA, Jeremy K. Greene, Clemson University, Blackville, SC and Phillip M. Roberts, University of Georgia, Tifton, GA

8:15 AM Monitoring for Pyrethroid Resistance in Bollworm (*Helicoverpa zea*) Populations in Texas and Tamaulipas, Mexico - 2009

Bradley W. Hopkins¹, Patricia V. Pietrantonio¹, R.R. Minzenmayer², Glen Moore³, Roy D. Parker⁴, Terry Pitts⁵, Blayne Reed⁶, Jared Ripple⁷, C.G. Sansone⁸, Kerry Siders⁹, Noel Troxclair¹⁰, Monit Vandiver¹¹ and Jesus Vargas-Camplis¹², (1)Texas AgriLIFE Research, College Station, TX, (2)Texas AgriLife Extension Service, Ballinger, TX, (3)Texas AgriLIFE Extension, Waxahachie, TX, (4)Texas AgriLIFE Extension, Corpus Christi, TX, (5)Oklahoma State University Extension, Altus, OK, (6)Reed Consulting, Kress, TX, (7)Texas AgriLife Extension, Georgetown, TX, (8)Texas AgriLIFE Extension, San Angelo, TX, (9)Texas AgriLIFE Extension, Levelland, TX, (10)Texas AgriLife Extension Service, Uvalde, TX, (11)Texas AgriLIFE Extension, Lubbock, TX, (12)Patronato para Investigacion, Rio Bravo, Tamaulipas, Mexico

8:30 AM Monitoring Insecticide Resistance in Field Populations of the Tarnished Plant Bug Using Biochemical and Molecular Approaches

Yu Cheng Zhu and Gordon Snodgrass, USDA-ARS, Stoneville, MS

8:45 AM Measuring Generation Survival of Bollworm on Bollgard and Bollgard II Cotton: Implications for Resistance Monitoring

R. G. Luttrell and M. I. Ali, University of Arkansas, Fayetteville, AR

9:00 AM Update on Susceptibility of Key Cotton Pests to Bt Toxins Cry1Ac and Cry2Ab

Timothy J. Dennehy, Graham P. Head, Konasale J. Anilkumar and Paula A. Price, Monsanto Company, St. Louis, MO

9:15 AM Managing Insect Resistance in the Cotton Belt with Syngenta's VipCot™ Cotton and Agrisure Viptera™ Corn Traits

Ryan W. Kurtz, Syngenta Biotechnology, Inc., Research Triangle Park, NC

9:30 AM Analysis of Critical Differences Between Laboratory- and Field-Based Measurements of Insect Resistance and Their Ramifications for IRM

Timothy J. Dennehy, Graham P. Head and William J. Moar, Monsanto Company, St. Louis, MO

9:45 AM Development of Hydrateable, Commercially-Relevant Artificial Cotton Leaves and Assay Architecture for Monitoring Insect Resistance to Bt

R. Michael Roe, Ana R. Cabrera, Jaap B. van Kretschmar, Jack S. Bacheler, Hannah J. Burrack and Clyde E. Sorenson, North Carolina State University, Raleigh, NC

10:00 AM Break

10:30 AM Performance of Commercially Available Technologies of 2nd-Generation Bt Cotton on Bollworm in SC

Jeremy K. Greene and Dan Robinson, Clemson University, Blackville, SC

10:45 AM Agronomic Performance and Insecticidal Efficacy of TwinLink™ Cotton from Bayer CropScience

Jonathan Holloway, M Rinehardt, L Trolinder, R Humphries, G Henniger and S Baker, Bayer CropScience, Lubbock, TX

11:00 AM VipCot™ Performance in Advanced Experimental Lines Also Containing Roundup Ready® Flex

B.W. Minton¹, Scott Martin², Jason Sanders³, Henry McLean⁴, Victor Mascarenhas⁵, Tony Burd⁶, David Negrotto⁷ and Dave Dickerson⁷, (1) Syngenta Crop Protection, Inc., Cypress, TX, (2)Syngenta Crop Protection, Inc., Ruston, LA, (3)Syngenta Crop Protection, Inc., Greenwood, MS, (4) Syngenta Crop Protection, Inc., Perry, GA, (5)Syngenta Crop Protection, Inc., Nashville, NC, (6)Syngenta Crop Protection, Inc., Vero Beach, FL, (7) Syngenta Biotechnology, Inc., Research Triangle Park, NC

11:15 AM Cotton Plants Expressing a Hemipteran-Active *Bacillus thuringiensis* Crystal Protein Impact the Development and Survival of *Lygus hesperus* Nymphs

James A. Baum, Uma R. Sukuru, Stephen R. Penn, Steven E. Meyer, Shubha Subbarao, Xiaohong Shi, Stanislaw Flasiński, Gregory R. Heck, Robert S. Brown and Thomas L. Clark, Monsanto Company, Chesterfield, MO

11:30 AM Gossypol Expression on Cotton Seed and Its Influence On Heliothine Attack

Carlos A. Blanco, Jodi Scheffler and Gabriela Romano, USDA-ARS, Stoneville, MS

11:45 AM Efficacy of Coragen (Rynaxypyr) on Lepidopterous Pests

L. N. Owen¹, A. L. Catchot¹, J. Gore², D. R. Cook² and J. F. Smith¹, (1)Mississippi State University, Mississippi State, MS, (2)Mississippi State University, Stoneville, MS

12:00 PM Odorant Binding Genes of the Tarnished Plant Bug, *Lygus lineolaris*

O. P. Perera¹, Gordon Snodgrass¹, Jeff Gore² and Patricia F. O'Leary³, (1) USDA, Stoneville, MS, (2)Mississippi State University, DREC, Stoneville, MS, (3)Cotton Incorporated, Cary, NC

12:15 PM Current Status and Future Prospects for Transgenic Insect Control in Cotton

John T. Greenplate, Monsanto, Saint Louis, MO

12:30 PM Use of Video Assays to Assess Feeding Behavior by *Lygus hesperus* Knight (Hemiptera: Miridae)

William Rodney Cooper and Dale W. Spurgeon, USDA-ARS-WICSRU, Shafter, CA



Technical Conferences Program

22nd Annual Cotton Quality Measurements Conference

Wednesday Afternoon, January 6

Wednesday Afternoon Session

Balcony J

New Orleans Marriott

1:30 PM-6:00 PM

Presiding: Devron P. Thibodeaux and Jonn Foulk, USDA-ARS-SAA, Cotton Quality Research Station, Clemson, SC

Organizer: Gary Gamble, USDA-ARS, Cotton Quality Research Station, Clemson, SC

1:30 PM Welcoming Remarks

1:45 PM A New Approach to Cotton Trash Measurements
Devron P. Thibodeaux, Yongliang Liu, Gamble Gary and Jonn Foulk, USDA-ARS-SAA, Clemson, SC

2:00 PM The Importance and Detection of Cotton Identity Theft: Concepts and Procedures

Yehia Elmogahzy and **Ramsis Farag**, Department of Polymer and Fiber Engineering - Auburn University, Auburn, AL

2:15 PM The Detection of Cotton Identity Theft: Fiber Evaluation

Ramsis Farag, Department of Polymer and Fiber Engineering - Auburn University, Auburn, AL

2:30 PM High Volume Testing Result Variation - Results From the CSITC Round Trials

Axel Drieling, Faserinstitut Bremen e.V. / Lab of the Bremen Cotton Exchange, Bremen, Germany

2:45 PM Preliminary Studies of Cotton Non-Lint Content Identification by Near-Infrared Spectroscopy

Chanel A. Fortier¹, James E. Rodgers¹, Michael Santiago Cintron¹ and J. A. Foulk², (1)SRRC-ARS-USDA, New Orleans, LA, (2)USDA ARS CQRS, Clemson, SC

3:00 PM Preliminary Studies of Cotton Non-Lint Content Identification by Ultraviolet-Visible Spectroscopy

Chanel A. Fortier¹, James E. Rodgers¹ and J. A. Foulk², (1)SRRC-ARS-USDA, New Orleans, LA, (2)USDA ARS CQRS, Clemson, SC

3:15 PM Break at Poster Session With Authors Present at Posters - Marriott Acadia

4:15 PM Validation Studies of the Karl Fischer Reference Method for Moisture in Cotton

Joseph G. Montalvo, Terri M. Von Hoven, Thomas North and Sherwin Cheuk, USDA-ARS-SRRC, New Orleans, LA, LA

4:30 P Preliminary Comparison of Portable Near Infrared (NIR) Instruments for Laboratory Measurements of Cotton Micronaire

James E. Rodgers¹, Chanel A. Fortier¹, Xiaoliang Cui¹ and Vikki Martin², (1) SRRC-ARS-USDA, New Orleans, LA, (2)Cotton Incorporated, Cary, NC

4:45 PM Examination of the Relationships Between Individual Fibers Tensile Properties and Bundle Tensile Properties

Eric F. Hequet and Nouredine Abidi, Fiber and Biopolymer Research Institute - Dept. Plant & Soil Science, Texas Tech University, Lubbock, TX

5:00 PM Effects of Main Stem and Branch Node on AFIS Length

Jonn A. Foulk, USDA-ARS, Clemson, SC, Phil J. Bauer, USDA-ARS, Florence, SC and Herman Senter, Clemson University, Clemson, SC

5:15 PM Single Fiber Testing Via Favimat

C. D. Delhom¹, X. Cui¹ and Devron P. Thibodeaux², (1)USDA-ARS-SRRC, New Orleans, LA, (2)USDA-ARS-SAA, Clemson, SC

5:30 PM Using Partial Least Squares Regression to Obtain Cotton Fiber Length Distributions From the Beard Testing Method

Yiyun Cai¹, Xiaoliang Cui², Rachid Belmasrou³, Linxiong Li³, Chris Delhom⁴, James E. Rodgers², Vikki B. Martin⁵ and Michael Watson⁶, (1)Louisiana State University, Metairie, LA, (2)SRRC-ARS-USDA, New Orleans, LA, (3)University of New Orleans, New Orleans, LA, (4)USDA-ARS-SRRC, New Orleans, LA, (5)Cotton Incorporated, Cary, NC, (6)Cary, NC

Thursday Morning, January 7

Thursday Morning Session

Balcony J

New Orleans Marriott

8:00 AM-10:00 AM

Organizer: Gary Gamble, USDA-ARS, Cotton Quality Research Station, Clemson, SC

8:15 AM A Comparative Study on Parameters Used for Characterizing Cotton Short Fibers

Xiaoliang Cui¹, Yiyun Cai², James E. Rodgers¹, Devron P. Thibodeaux³, Vikki B. Martin⁴ and Michael Watson⁵, (1)SRRC-ARS-USDA, New Orleans, LA, (2) Louisiana State University, Metairie, LA, (3)USDA-ARS-SAA, Clemson, SC, (4) Cotton Incorporated, Cary, NC, (5)Cary, NC

8:30 AM Introducing CottonScope: A Rapid and Precise Measurement of Cotton Fibre Maturity Based on SiroMat

Mark Brims, Bsc Electronics Pty Ltd, Perth, Australia and **Hy Hwang**, BSC Electronics Pty Ltd, Perth, Australia

8:45 AM An Inter-Laboratory Trial of Upgraded Cottonscan Instruments for Rapid Determination of Average Fiber Linear Density (Fiber Fineness)

A. M. Abbott¹, G.J. Higgerson¹, S.R. Lucas¹, G.R.S. Naylor¹, Eric F. Hequet² and **Devron P. Thibodeaux**³, (1)CSIRO, Belmont, Victoria, Australia, (2)Fiber and Biopolymer Research Institute - Dept. Plant & Soil Science, Texas Tech University, Lubbock, TX, (3)USDA-ARS-SAA, Clemson, SC

9:00 AM Relationships Between Fiber Length Distribution and Fiber Maturity

Eric F. Hequet and Nouredine Abidi, Fiber and Biopolymer Research Institute - Dept. Plant & Soil Science, Texas Tech University, Lubbock, TX

9:15 AM HVI Color and UV/Visible Spectral Response of Cotton Fibers

Yongliang Liu, Gary Gamble and Devron Thibodeaux, Agricultural Research Service, USDA, Clemson, SC

9:30 AM Effect of Inert Gases on the Moisture Loss of Cotton
Sherwin Y. Cheuk, Joseph G. Montalvo, Brian Condon, Terri M. von Hoven and Thomas North, USDA-ARS-SRRC, New Orleans, LA

9:45 AM HPLC and TGA Investigations of the Secondary Cell Wall Development in Cotton Fibers

Nouredine Abidi, Luis Cabrales and Eric F. Hequet, Fiber and Biopolymer Research Institute - Dept. Plant & Soil Science, Texas Tech University, Lubbock, TX



Technical Conferences Program

27th Annual Cotton Soil Management And Plant Nutrition Conference

Wednesday Afternoon, January 6

Wednesday Afternoon Session

Mardi Gras Ballroom Salon E

New Orleans Marriott

1:30 PM-6:00 PM

Presiding: David Dunn, University of Missouri, Portageville, MO Univ., Lubbock, TX

Organizer: David Dunn, University of Missouri, Portageville, MO

1:30 PM Introductory Remarks

1:35 PM Fertilizer BMPs for Cotton Production in the South
Steve Phillips, IPNI, Owens Cross Roads, AL

2:05 PM Potassium Nutrition for Shorter Season Cotton Varieties

Glendon H. Harris, University of Georgia, Tifton, GA

2:35 PM Getting N Rates Right: Crop Sensors to Guide Variable-Rate N

Peter Scharf¹, **Luciane F. Oliveira**¹, **Earl Vories**², **Gene Stevens**³ and **D.J. Dunn**³, (1)University of Missouri-Columbia, Columbia, MO, (2)USDA-ARS, Portageville, MO, (3)University of Missouri-Delta Center, Portageville, MO

3:05 PM Discussion

3:15 PM Break at Poster Session With Authors Present at Posters - Marriott Acadia

4:15 PM Interrelationships of Yields With Canopy NDVI, Plant Height, and Leaf Nitrogen

Frank Yin, University of Tennessee, Jackson, TN

4:35 PM In-Season Estimation of Lint Yield Potential Using Early to Mid-Season Canopy Reflectance

Ernest L. Clawson, LSU AgCenter, St. Joseph, LA, **Brenda Tubaña**, Louisiana State University, Baton Rouge, LA, **Donald J. Boquet**, LSU AgCenter, Winnsboro, LA, **J. Teboh**, Louisiana State University Agricultural Center, Baton Rouge, LA and **T. Udeigwe**, Louisiana State University Agricultural Center, Saint Joseph, LA

4:55 PM Business meeting

Thursday Morning, January 7

Thursday Morning Session

Mardi Gras Ballroom Salon E

New Orleans Marriott

8:30 AM-12:00 PM

Presiding: Steve Phillips, IPNI, Owens Cross Roads, AL

Organizer: David Dunn, University of Missouri, Portageville, MO

8:30 AM Introductory Remarks

8:35 AM Impact of Tillage, Water Management, and Well Water Nitrate On Subsurface Drip Irrigated Cotton Production
Paul B. DeLaune, John W. Sij, Seong Park, David Jones and Mark E. Belew, Texas AgriLife Research, Vernon, TX

8:50 AM Variety and Soil Test Potassium Effects on Cotton Nutrition and Lint Yield

Brennan Booker and **Jac J. Varco**, Mississippi State University, Mississippi State, MS

9:05 AM Cotton Response to Urea and Organic Sources of Nitrogen

M. Mozaffari¹, **N. A. Slaton**², **Cindy G. Herron**¹ and **Doug Carroll**³, (1) University of Arkansas, Marianna, AR, (2)University of Arkansas, Fayetteville, AR, (3)University of Arkansas Soil Testing and Research Laboratory, Marianna, CO

9:20 AM Comparing Two Different Active Sensors in Predicting In-Season Plant Nitrogen Status in Irrigated Cotton

Adi Malapati¹, **Kevin F. Bronson**², **Jason Nusz**² and **Pariksha Lama**³, (1) Texas Agrilife Research and Extension Center, Lubbock, TX, (2)Texas Agrilife Research & Texas Tech Univ., Lubbock, TX, (3)Texas Tech University, Lubbock, TX

9:35 AM Sensor Based Prediction of Cotton Growth, Leaf Nitrogen, and Biomass Nitrogen

Tyson Raper, **Jac J. Varco** and **Brennan Booker**, Mississippi State University, Mississippi State, MS

9:50 AM Break

10:15 AM Energy Returns to Site-Specific Nitrogen Fertilizer Management in Cotton

Kevin F. Bronson, Texas AgriLife Research & Texas Tech Univ., Lubbock, TX and **Adi Malapati**, Texas AgriLife Research, Lubbock, TX

10:30 AM Cotton/Corn Rotation - Ten Years of Yields Across N and K Levels

M. Wayne Ebelhar, **Davis R. Clark** and **H. C. Pringle**, Mississippi State University, Stoneville, MS

10:45 AM Changes in Soil Test Nutrients With Long-Term Cotton/Corn Rotation

M. Wayne Ebelhar and **Davis R. Clark**, Mississippi State University, Stoneville, MS

11:00 AM Potential Benefits From Applications of FGD-Gypsum

Leo Espinoza, **Mukhammadzakhrab Ismanov** and **Paul Ballantyne**, University of Arkansas Division of Agriculture Cooperative Extension Service, Little Rock, AR

11:15 AM Economic Comparison of NPK Recommendations From University & Private Soil Test Labs for Cotton Production

D.J. Dunn, **A. Phillips** and **W. E. Stevens**, University of Missouri-Delta Center, Portageville, MO

11:30 AM Graduate Student Competition Awards



Technical Conferences Program

18th Annual Cotton Utilization Conference

Wednesday Afternoon, January 6

Cotton Utilization Conference: Cotton Fabric Chemistry & Products

Fabric Chemistry & Products Symposium

Balcony K

New Orleans Marriott

1:45 PM-6:00 PM

Organizer: Alfred D. French, USDA-ARS-SRRC, New Orleans, LA

1:45 PM Application of Low Level, Uniform Ultrasound Field for Acceleration of Enzymatic Bio-Processing of Cotton

Brian Condon, Michael W. Easson, Val Yachmenev, Allan Lambert and Jade Smith, United States Department of Agriculture, New Orleans, LA

2:05 PM Synthesis, Structural and Flammability Studies of Novel Triazine Derivative Phosphonates as Economic Flame Retardants for Cotton

Thach-Mien D. Nguyen, SeChin Chang, Brian Condon, Elena Graves and Jade Smith, SRRC-USDA-ARS, New Orleans, LA

2:25 PM Modeling Water Movement Through Cotton With GLYCAM-LP

Jodi A. Hadden¹, Alfred D. French², Glenn P. Johnson² and Robert J. Woods¹, (1)Complex Carbohydrate Research Center, Athens, GA, (2)SRRC, USDA-ARS, New Orleans, LA

2:45 PM Cyanuric Chloride and Hexachlorocyclotriphosphazene Derivatives as Flame Retardants in Cotton Textile Applications

B. Condon, USDA-ARS-SRRC, New Orleans, LA and Michael W. Easson, USDA, New Orleans, LA

3:05 PM Preliminary Modulus Calculations for Cellulose

Michael Santiago Cintrón¹, Alfred D. French² and Glenn P. Johnson², (1) SRRC ARS USDA, New Orleans, LA, (2)USDA, New Orleans, LA

3:25 PM Break at Poster Session with Authors Present at Posters - Marriott Acadia

4:15 PM Improving UV Protection of Cotton Fabrics Through Digital Textile Printing

Grace N. Namwamba, Southern University Agricultural Research and Extension Center, Baton Rouge, LA and Vamshi Krishna Naarani, Southern University Agricultural Research & Extension Center, Baton Rouge, LA

4:35 PM Simulation Studies of Interaction of Water Molecules With Crystalline Faces of Cotton Cellulose

Pradeep Venkataraman¹, Henry S. Ashbaugh¹, Glenn P. Johnson² and Alfred D. French², (1)Tulane University, New Orleans, LA, (2)SRRC, USDA-ARS, New Orleans, LA

4:55 PM Hydrogen Bonding in the Methanol Dimer

Alfred D. French and Glenn P. Johnson, SRRC, USDA-ARS, New Orleans, LA

Cotton Utilization Conference: Nonwovens

Wednesday Early Afternoon Session

Balcony I

New Orleans Marriott

1:45 PM-3:15 PM

Presiding: Brian D. Condon, USDA-ARS-SRRC, New Orleans, LA

Organizer: D.V. Parikh, USDA-ARS-SRRC, New Orleans, LA

1:45 PM Chairman's Opening Remarks - DV Parikh, USDA-ARS-SRRC, New Orleans, LA

1:50 PM Greetings - Edgar King, Stoneville

1:55 PM Welcome - Ed Cleveland

2:00 PM ~~How Cotton Brings Life to Nonwovens~~

Steve Gunter, ~~of Perlings, Division of Standex Engraving, Sandford, NC~~

2:25 PM Needlepunching Update

Terry Purdy, Dilo Inc., Charlotte, NC

2:50 PM High Loft Flame Retardant Nonwovens from Cotton-Based Compositions

Rohit Uppal¹, Mercemik Hatice², Gajanan Bhat², Dharnidhar V. Parikh³ and Brian Condon³, (1)University of Tennessee, Knoxville, TN, (2)The University of Tennessee, Knoxville, TN, (3)USDA-ARS-SRRC, New Orleans, LA

3:15 PM Break at Poster Session With Authors Present at Posters - Marriott Acadia

Wednesday Late Afternoon Session

Balcony I

New Orleans Marriott

4:15 PM-6:00 PM

Presiding: Charles Little Jr., Louis P. Batson Company, Greenville, SC

Organizer: D.V. Parikh, USDA-ARS-SRRC, New Orleans, LA

4:15 PM Carding Technology: Latest Technology in Web Forming With Cotton Fiber

Alexander El Helw, Fleissner GmbH, Eglesbach, Germany

4:40 PM Phosphorus-Nitrogen Synergism in the Fire Barrier of Greige Cotton Nonwoven Fabrics

Sunghyun Nam, Dharnidhar V. Parikh and Brian Condon, USDA-ARS-SRRC, New Orleans, LA

5:05 PM Evolution of Web Consolidation With Hydroentanglement

Alexander El Helw, Fleissner GmbH, Eglesbach, Germany

5:30 PM Acoustical Performance of Cotton Nonwoven Composites

Jonathan Y. Chen, The University of Texas at Austin, Austin, TX and D.V. Parikh, USDA-ARS-SRRC, New Orleans, LA

5:55 PM Announcements



Technical Conferences Program

18th Annual Cotton Utilization Conference

Thursday Morning, January 7

Cotton Utilization Conference: Nonwovens

Thursday Early Morning Session

Balcony I

New Orleans Marriott

8:00 AM-10:05 AM

Presiding: Terry Purdy, Dilo Inc., Charlotte, NC

Organizer: D.V. Parikh, USDA-ARS-SRRC, New Orleans, LA

8:00 AM Swellability of Silver (I) Antimicrobial Wound Dressings

D.V. Parikh and Tom Fink, USDA-ARS-SRRC, New Orleans, LA

8:25 AM Nanofiber Nonwovens: Importance, Productions Technologies, Properties, and Applications

Gajanan Bhat and Rohit Uppal, University of Tennessee, Knoxville, TN

8:50 AM Using a Kinetic Approach to Characterize Biodegradation Rates of Three Cellulosic Fabrics in Soil

Duane C. Wolf, Kaaron J. Davis, Mary M. Warnock and Edward E. Gbur, University of Arkansas, Fayetteville, AR

9:15 AM Thermal Analysis of Fire Retarded Biobased Composite Nonwovens: Thermal Analysis of Nonwovens and Components

Ioan Negulescu¹, Xiaoqun Zhang¹ and Dharnidhar Parikh², (1)Louisiana State University, Baton Rouge, LA, (2)USDA-ARS-SRRC, New Orleans, LA

9:40 AM The Inside Story of Cotton Batting and Wadding: The Stearns & Foster Company

Linda Pumphrey, Polyester Fibers, LLC, Cincinnati, OH

Cotton Utilization Conference: Textile Technology

Textile Technology Symposium

Balcony K

New Orleans Marriott

8:00 AM-10:00 AM

Organizer: Mourad Krifa, The University of Texas at Austin, Austin, TX

8:00 AM Welcoming Remarks

8:10 AM Introductory Remarks

8:15 AM The Quality Index of Extra Long and Strong Egyptian Cottons - a Comparative Study

Eng. Ibrahim Abdou Elhawary, Alexandria University, Alexandria, Egypt

8:30 AM Prediction of Selected Properties of Cotton Type Rotor Yarns

Jiri Militky, Dana Kremenakova, Gabriela Krupinkova and Sayed Ibrahim, Technical University of Liberec, Liberec, Czech Republic

8:45 AM Characterization of Yarn Irregularity and Variation in Yarn Diameter

Jiri Militky¹, Sayed Ibrahim¹, Dana Kremenakova¹ and Rajesh Mishra², (1) Technical University of Liberec, Liberec, Czech Republic

9:00 AM Study on the Cotton Recombing Process Based on Fiber Length Distribution by Weight

Qian Lin and Chongwen Yu, College of Textiles, Donghua University, Shanghai, China

9:15 AM Incidence of Dust and Silica in Spinning Preparation Waste of Selected Cottons

Lakshmi Padmaraj and Mourad Krifa, School of Human Ecology - Textiles and Apparel Division, The University of Texas at Austin, Austin, TX

9:30 AM Impact of Micronaire Variation on Processing Performance of Stripper-Harvested Cotton

Mourad Krifa, School of Human Ecology - Textiles and Apparel Division, The University of Texas at Austin, Austin, TX

9:45 AM Discussion

Joint Session: Nonwovens and Fabric Chemistry and Products

Balcony I

New Orleans Marriott

10:30 AM-12:40 PM

Presiding: Gajanan Bhat, University of Tennessee, Knoxville, TN

Organizer: D.V. Parikh, USDA-ARS-SRRC, New Orleans, LA

10:30 AM Effect of Chemicals and Binders on the Durability of Flame Retardant Treated Cotton Nonwovens

Gajanan Bhat¹, Hatice Mercemik¹ and Janet O'Regan², (1)University of Tennessee, Knoxville, TN, (2)Cotton Incorporated, Cary, NC

10:55 AM Cotton Fiber in Nonwovens: A Commercial Perspective

Loren M. Collins, Performance Fabrics & Fibers, Andrews, SC

11:20 AM Fundamental Cellulose Research

Alfred D. French, SRRC, USDA-ARS, New Orleans, LA

11:35 AM Panel Discussion - All Speakers and Invitees

12:35 PM Adjourn - Brian Condon or DV Parikh



Technical Conferences Program

Joint Session: Cotton Quality Measurements and Utilization Conferences

Balcony J

New Orleans Marriott

10:30 AM-12:00 PM

Organizers: Mourad Krifa, The University of Texas at Austin, Austin, TX; Gary R. Gamble, USDA-ARS, Cotton Quality Research Station, Clemson, SC

10:30 AM Genetic Variability of Cotton Fiber Length Distribution - A Progress Report

Mourad Krifa, School of Human Ecology - Textiles and Apparel Division, The University of Texas at Austin, Austin, TX, Dick Auld, Texas Tech University, Lubbock, TX and Efreem Bechere, USDA, Stoneville MS, MS

10:45 AM Seed-Coat Fragment Measurements From Bale to Fabric

Patricia D. Bel, Southern Regional Research Center, ARS, USDA, New Orleans, LA and Bugao Xu, The University of Texas at Austin, Austin, TX

11:00 AM Examination of Factors Affecting Post-Scoured Fiber Metal Content

Gary R. Gamble, USDA-ARS, Cotton Quality Research Station, Clemson, SC

11:15 AM Applying Constrained Experimental Designs for Optimizing Draft Distributions

Adel Salah Eldin Elgeheini, Eng. Ibrahim Abdou Elhawary and Wael, Ahmed Hemida, Alexandria University, Alexandria, Egypt

11:30 AM Optimizing the Cotton and Cotton / Modal Blended Fabric Properties on Single Jersey Machinery

Alaa Arafa Badr and Ashraf El-Nahrawy, Textile Engineering Department, Alexandria, Egypt

11:45 AM The Detection of Cotton Identity Theft- Evaluation of Product's Durability

Yehia Elmoghazy, Ramsis Farag and Yusuf Celikbag, Department of Polymer and Fiber Engineering, Auburn University, Auburn, AL

34th Annual Cotton Weed Science Research Conference

Wednesday Afternoon, January 6

Wednesday Afternoon Session

Galerie 2

New Orleans Marriott

1:30 PM-6:00 PM

Organizer: Darrin M. Dodds, Mississippi State University, Mississippi State, MS

1:30 PM Integrating Cover Crop Residue and Moldboard Plowing Into Glyphosate-Resistant Palmer Amaranth Management Programs

A. Stanley Culpepper¹, Jeremy M. Kichler², Lynn M. Sosnoskie¹, Alan York³, Doug Sammons⁴ and Robert Nichols⁵, (1)University of Georgia, Tifton, GA, (2)University of Georgia, Oglethorpe, GA, (3)North Carolina State University, Raleigh, NC, (4)Monsanto, St. Louis, MO, (5)Cotton Incorporated, Cary, NC

1:45 PM Managing Glyphosate-Resistant Palmer Amaranth with Residual Herbicides in Midsouth Cotton

Jason A. Bond¹, Kenneth L. Smith², Daniel O. Stephenson³, Jason K. Norsworthy⁴, Lawrence E. Steckel⁵, John-Kirk Manning¹ and J. Bryan McDuffie¹, (1)Mississippi State University, Stoneville, MS, (2)University of Arkansas, Monticello, AR, (3)LSU AgCenter, Alexandria, LA, (4)University of Arkansas, Fayetteville, AR, (5)University of Tennessee, Jackson, TN

2:00 PM Influence of Rainfall on Activation of Residual Cotton Herbicides for Controlling Palmer Amaranth

Jason K. Norsworthy¹, J. Still¹, G. M. Griffith¹, Justin D. DeVore¹ and K. L. Smith², (1)University of Arkansas, Fayetteville, AR, (2)University of Arkansas - Division of Agriculture, Monticello, AR

2:15 PM Glyphosate-Resistant Palmer Amaranth and Cotton Response to Residual At-Plant Herbicides Applied on the Soil Surface or Preplant Incorporated

Jeremy M. Kichler¹, A. Stanley Culpepper² and Jill Elana Chafin², (1)University of Georgia, Oglethorpe, GA, (2)University of Georgia, Tifton, GA

2:30 PM Palmer Amaranth Management in Texas High Plains Cotton

J. W. Keeling, P. A. Dotray and J. D. Reed, Texas AgriLife Research, Lubbock, TX

2:45 PM Cotton and Palmer Amaranth Response to Milo-Pro Applied At-Plant and Post

Lynn M. Sosnoskie¹, Jared Whitaker², Jeremy M. Kichler³, A. Stanley Culpepper¹ and Alan C. York⁴, (1)University of Georgia, Tifton, GA, (2)University of Georgia, Statesboro, GA, (3)University of Georgia, Oglethorpe, GA, (4)North Carolina State University, Raleigh, NC

3:00 PM Glyphosate-Resistant Common Waterhemp Confirmed in Texas

Ginger G. Light, Texas Tech University, Lubbock, TX, Maad Y. Mohammed, Norman Borlaug Institute for International Agriculture, College Station, TX, **Peter A. Dotray**, Texas Tech University and AgriLife Research & Extension, Lubbock, TX, James M. Chandler, Texas A & M University, College Station, TX and Robert J. Wright, Texas Tech University and Texas AgriLife Research, Lubbock, TX

3:15 PM Paraquat and Direx Combinations for Horseweed Control in Cotton

Joshua A. Still¹, Jason K. Norsworthy¹ and Kenneth L. Smith², (1)University of Arkansas, Fayetteville, AR, (2)University of Arkansas, Monticello, AR

3:30 PM Break at Poster Session With Authors Present at Posters - Marriott Acadia

3:45 PM Benchmark Study: Perspectives on Glyphosate-Resistant Crops and the Sustainability of Chemical Weed Management

M.K.D. Owen, Ames, IA, **B.G. Young**, Carbondale, IL, **D.R. Shaw**, Mississippi State University, Stoneville, MS, **R.G. Wilson**, University of Nebraska, Scottsbluff, NE, **D.L. Jordan**, North Carolina State University, Raleigh, NC, **S.C. Weller**, West Lafayette, IN and **P. Dixon**, Iowa State University, Ames, IA

4:00 PM Glyphosate Resistant Giant Ragweed Control in Cotton

Lawrence E. Steckel and Christopher L. Main, University of Tennessee, Jackson, TN

4:15 PM Benchmark Study: Comparison of Weed Management Programs, Yield, and Economic Return of Glyphosate-Based Herbicide Programs in a Continuous Cotton Rotation

D. L. Jordan¹, R.W. Seagroves¹, P. Eure², J. Hinton¹, D.R. Shaw³, J.W. Weirich⁴, J.D. Anderson⁵, W.A. Givens⁴, J.A. Huff⁶, R.G. Wilson⁷, S.C. Weller⁸, W.G. Johnson⁸, M.K.D. Owen⁹, B.G. Young¹⁰ and P. Dixon¹¹, (1)North Carolina State University, Raleigh, NC, (2)NCSU, Raleigh, NC, (3)Mississippi State University, Stoneville, MS, (4)Mississippi State, MS, (5)117 Dorman Hall, Mississippi State, MS, (6)Mississippi State University, Mississippi State, MS, (7)University of Nebraska, Scottsbluff, NE, (8)West Lafayette, IN, (9)Ames, IA, (10)Carbondale, IL, (11)Iowa State University, Ames, IA



Technical Conferences Program

34th Annual Cotton Weed Science Research Conference

Thursday Morning, January 7

Graduate Student Paper Session

Galerie 2

New Orleans Marriott

8:00 AM-10:00 AM

Organizer: Darrin M. Dodds, Mississippi State University, Mississippi State, MS

8:15 AM Palmer Amaranth, Benghal Dayflower, and Broadleaf Signalgrass Response to Glufosinate Applied Alone or Mixed With 2,4-D or Dicamba

Jill Elana Chafin¹, A. Stanley Culpepper¹ and L.B. Braxton², (1)University of Georgia, Tifton, GA, (2)Dow AgroSciences LLC, Indianapolis, IN

8:30 AM Effect of Herbicide Programs on Seed Rain in Liberty Link[®] and Roundup Ready Flex[®] Cotton

G. M. Griffith, J. K. Norsworthy, J. Still, Justin D. DeVore and M. J. Wilson, University of Arkansas, Fayetteville, AR

8:45 AM Effects of Simulated Dicamba and 2,4-D Drift on Cotton

Chad L. Smith, Daniel B. Reynolds and J. Trenton Irby, Mississippi State University, Mississippi State, MS

9:00 AM Effect of Deep Tillage and Rye on Palmer Amaranth Seed Burial and Emergence in Cotton

Justin D. DeVore, J.K. Norsworthy, J. Still, G.M. Griffith and D.B. Johnson, University of Arkansas, Fayetteville, AR

9:15 AM Control of Volunteer Roundup Ready[®] Corn and Soybean in Roundup Ready[®] Cotton

J. Trenton Irby, Daniel B. Reynolds and Chad L. Smith, Mississippi State University, Mississippi State, MS

9:30 AM Investigation Into the Effect of Tank Mixtures on the Efficacy of Saflufenacil in Glyphosate Resistant Horseweed (*Conyza Canadensis*)

Brock Waggoner¹, Lawrence Steckel¹, Christopher Main¹, Thomas Mueller² and Jason A. Bond³, (1)University of Tennessee, Jackson, TN, (2) University of Tennessee, Knoxville, TN, (3)Mississippi State University, Stoneville, MS

9:45 AM Break

Thursday Morning Session

Galerie 2

New Orleans Marriott

10:00 AM-12:00 PM

Organizer: Darrin M. Dodds, Mississippi State University, Mississippi State, MS

10:00 AM Winter Weed Management in the MidSouth

Frank Carey, Valent USA, Olive Branch, MS

10:15 AM Effect of Pendimethalin or S-Metolachlor Co-Applied With Glyphosate and Pyriithiobac on Cotton Growth and Yield

Daniel O. Stephenson¹, Jason A. Bond², Donnie K. Miller³, Eddie P. Millholton⁴, Randall L. Landry¹, John-Kirk Manning² and J. Bryan McDuffie², (1) LSU AgCenter, Alexandria, LA, (2)Mississippi State University, Stoneville, MS, (3)LSU AgCenter, Northeast Research Station, St. Joseph, LA, (4)LSU AgCenter, Bossier City, LA

10:30 AM Performance of GlyTolTM + LibertyLink[®] Cotton Technologies With Common Cotton Tankmix Partners

Robert Humphries¹, Gary Henniger², Mark Rinehardt³, Scott Baker⁴, Jonathan Holloway² and Linda Trolinder², (1)Bayer CropScience, Shafter, CA, (2)Bayer CropScience, Lubbock, TX, (3)Bayer CropScience, Wilson, NC, (4)Bayer CropScience, Memphis, TN

10:45 AM Tank Mix Combinations of Glyphosate and Glufosinate in GlyTol Plus LibertyLink Cotton

Peter A. Dotray¹, J. Wayne Keeling², Lyndell V. Gilbert³ and Jacob D. Reed³, (1)Texas Tech University, AgriLife Research, and Texas AgriLife Extension Service, Lubbock, TX, (2)Texas Agrilife Research, Lubbock, TX, (3)Texas AgriLife Research, Lubbock, TX

11:00 AM GlyTolTM + LibertyLink[®] Cotton Technologies and Their Tolerance to High Rates of Glyphosate and Glufosinate Ammonium

Mark Rinehardt¹, Gary Henniger², Robert Humphries³, Scott Baker⁴, Linda Trolinder² and Jonathan Holloway², (1)Bayer CropScience, Wilson, NC, (2) Bayer CropScience, Lubbock, TX, (3)Bayer CropScience, Shafter, CA, (4) Bayer CropScience, Memphis, TN



Technical Conferences Program

Technical Conferences Poster Board Session

Tuesday, January 5, Noon - 10:00 PM

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

Thursday, January 7, 8:00 AM - Noon

Grand Ballroom Acadia (New Orleans Marriott)

Authors present at posters Wednesday, January 6, 3:30 - 4:00 PM

Cotton Agronomy & Physiology Conference Posters

1. **Evaluation of Water Use Efficiency, Yield Stability and Fiber Quality in Cotton Varieties** - **Matthew Stroud** and Craig W. Bednarz, Texas Tech University, Lubbock, TX
2. **Effects of Water-Deficit Stress on Cotton Reproductive Development** - **Dimitra A. Loka** and Derrick M Oosterhuis, University of Arkansas, Fayetteville, AR
3. **A Novel Screening Method of Water Stress In Multiple Cotton Varieties** - **Wheelus A. Davis**, University of Georgia, Tifton, GA
4. **Simulated Hail Recovery Comparison of Two Varieties of Upland Cotton** - **Reagan K. Anders** and Jane K. Dever, Texas Agrilife Research, Lubbock, TX
5. **The Effect of an Upper Limit Temperature Threshold on Heat Unit Calculations, Defoliation Timing, Yield and Fiber Quality** - **Alexis D. White¹**, J. T. Cothren¹, J. D. Rocconi¹ and J. B. Bynum², (1)Texas A&M University- College Station, College Station, TX, (2)Monsanto Company, Cordova, TN
6. **Examining Effects of NAWF and Heat Units on Last Effective Boll Populations** - **Whitney M. Minton¹**, J. Tom Cothren² and John D. Rocconi¹, (1) Texas A&M University, College Station, TX, (2)Texas AgriLife Research, College Station, TX
7. **Genotypic Differences in Thermotolerance Are Dependent Upon Pre-Stress Capacity for Antioxidant Protection of the Photosynthetic Apparatus in Cotton** - **John L. Snider**, Derrick M. Oosterhuis and Eduardo M. Kawakami, University of Arkansas, Fayetteville, AR
8. **Impact of Light Intensity on Cotton Response to 1-Methylcyclopropene** - **Charles W. Carden¹**, J. Tom Cothren² and John D. Rocconi¹, (1)Texas A&M University, College Station, TX, (2)Texas AgriLife Research, College Station, TX
9. **Fruiting Profiles of Cotton Treated With Various 1-Methylcyclopropene Formulations** - **Jared M. Currie¹**, J. Tom Cothren² and John D. Rocconi¹, (1)Texas A&M University, College Station, TX, (2)Texas AgriLife Research, College Station, TX
10. **Abiotic Stress Impact on Reproductive Components of 1-MCP Treated Cotton Plants** - **Vladimir A. da Costa¹**, J. T. Cothren¹ and J. B. Bynum², (1) Texas A&M University, College Station, TX, (2)Monsanto Company, Cordova, TN
11. **Use of Selected Fungicides to Elongate the Maturity of Mid-Season Upland Varieties** - **John D. Rocconi** and J. Tom Cothren, Texas A&M University, College Station, TX
12. **The Lint Yield and Fiber Quality of Cotton (*Gossypium hirsutum* L.) Under Several Regulated Deficit Irrigation Schemes in Southwest Texas** - **Yujin Wen¹**, Giovanni Piccinini², J. Tom Cothren³, Daniel I. Leskovar⁴, Diane L. Rowland⁴ and Armen R. Kemanian⁵, (1)Texas A&M University, Texas Agrilife Research, College Station, TX, (2)Monsanto Company, Chesterfield, MO, (3)Texas A&M University, College Station, TX, (4)Texas A&M Research and Extension Center, Uvalde, TX, (5)Blackland Research and Extension Center, Temple, TX
13. **Planting Date Effect with Modern Cotton Cultivars** - **Christopher L. Main**, University of Tennessee, Jackson, TN, Darren M. Dodds, Mississippi State University, Mississippi State, MS and L. T. Barber, Division of Agriculture, University of Arkansas, Little Rock, AR
14. **Effects of Cotton Seeding Rate and Row Spacing on Yield and Fiber Quality** - **Jarett W. Chapman¹**, Tom Barber¹, Fred Bourland¹ and Daniel O. Stephenson², (1)U of A Division of Agriculture, Little Rock, AR, (2)LSU AgCenter, Alexandria, LA
15. **Irrigation and Variety Influences on Crop Maturity and Defoliation Timing** - Daniel S. Munk, **S. D. Wright**, R.B. Hutmacher and J.F. Wroble, University of California Cooperative Extension, Fresno, CA
16. **Irrigating Crops with Subsurface Drip on Coastal Plain Soils at the Wiregrass Research Station** - **Brandon A. Dillard¹**, W. C. Birdsong², Larry Wells³, Larry M. Curtis⁴, Brian Gamble⁵, Ted Tyson⁴ and K.B. Balkcom³, (1)Auburn University, Geneva, AL, (2)Alabama Cooperative Extension System, Headland, AL, (3)Auburn University, Wiregrass Reg. Res. & Ext. Cntr, Headland, AL, (4)Auburn University, Auburn, AL
17. **Field Evaluation of the Accuracy of the Web-Based Simulation Models CropWaterUse and IrrigationMonitor** - **Carlos J. Fernandez** and Juan C. Correa, Texas Agrilife Research and Extension Center, Corpus Christi, TX
18. **Effects of Various Mepiquat Chloride-Based Formulations on Cotton Growth and Yield** - **Carlos J. Fernandez** and Juan C. Correa, Texas Agrilife Research and Extension Center, Corpus Christi, TX
19. **The Effects of 1-Methylcyclopropene on the Physiology and Yield of Cotton** - **Derrick M. Oosterhuis**, Eduardo Kawakami, Diana Storch and John Snider, University of Arkansas, Fayetteville, AR
20. **Evaluation of Novel Mepiquat Formulations to Current Products** - **Joe Townsend**, Townsend Ag Consulting, Inc., Coahoma, MS
21. **Comparison of Growth Parameters of Pix, PixPlus, Mepiquat 90WDG, Mepiquat 90WDG Plus** - **Jeff North**, North Ag Consulting, Madison, MS
22. **Novel Formulation of Mepiquat Chloride** - **Jay Turner¹**, Steve Seckinger², Jesse H. Gaytan³ and Joseph Hickey¹, (1)Arysta LifeScience, Olive Branch, MS, (2)Arysta LifeScience North America LLC, Valdosta, GA, (3)Arysta LifeScience, Valdosta, GA
23. **Dry Mepiquat Chloride: A Comparison With Current PGRs** - **Glen L. Ritchie¹**, Lola Sexton¹, Wheelus Davis¹ and Jay Turner², (1)University of Georgia, Tifton, GA, (2)Arysta LifeScience, Olive Branch, MS
24. **Use of Blizzard at High Rates as an Alternative to Paraquat in the Texas High Plains** - Mark S. Kelley¹, Chris Ashbrook¹, **Brian Holladay¹**, Randy Boman¹ and Alan Dalrymple², (1)Texas AgriLife Extension Service, Lubbock, TX, (2)Chemtura Corporation, Brenham, TX
25. **Use of Optical Sensors to Evaluate Dicamba Injury to Cotton** - Randy Taylor¹, **Shane Osborne²**, J.C. Banks² and Eric Osterhout¹, (1)Oklahoma State University, Stillwater, OK, (2)Oklahoma State University, Altus, OK
26. **Evaluating the Feasibility of Variable Rate Application of Nitrogen in Georgia** - **George Vellidis**, Glen Ritchie, Heather Savelle and Sergio Vil-lagran, University of Georgia, Tifton, GA
27. **Differential Response of Cotton Varieties to Plant Growth Regulator Applications** - **Michael A. Jones**, Clemson University, Florence, SC, David W. Albers, Monsanto, Collierville, TN and Shannon R. Crawley, Delta and Pine Land Company, Florence, SC
28. **AgriThorty Cotton Variety Trial Results From 2009** - **Sandy Stewart** and Robert Lemon, AgriThorty, Kansas City, MO
29. **Evaluating Cotton Varieties in Georgia Within Herbicide Trait Systems** - **Sandy Stewart¹**, Robert Lemon¹, A. Stanley Culpepper² and Jared Whitaker³, (1)AgriThorty, Kansas City, MO, (2)University of Georgia, Tifton, GA, (3)University of Georgia, Statesboro, GA



Technical Conferences Program

Technical Conferences Poster Board Session

30. **On-Farm Agronomic and Economic Evaluation of Stacked-Gene Cotton Cultivars in the Coastal Bend Region of Texas** - Dale A. Mott¹, G.D. Morgan¹, D.D. Fromme², S.P. Biles³, J.D. Janak⁴, P.L. Rogers³, B.M. Batchelor⁵, M.R. Hiller⁶ and J. Stapper⁷, (1)Texas AgriLife Extension Service, College Station, TX, (2)Texas AgriLife Extension Service, Corpus Christi, TX, (3)Texas AgriLife Extension Service, Port Lavaca, TX, (4)Texas AgriLife Extension Service, Victoria, TX, (5)Texas AgriLife Extension Service, Bay City, TX, (6)Texas AgriLife Extension Service, Edna, TX, (7)Texas AgriLife Extension Service, Robstown, TX
31. **Agronomic and Economic Consequences of Using Different Cotton Technology Systems in AL- A Two Year Summary** - Charles H. Burmester, Auburn University, Tennessee Valley Regional Res and Ext Ctr, Belle Mina, AL, Tim D. Reed, Auburn University, Madison, AL, C. Dale Monks, Auburn University, Auburn, AL and Eric Schavey, Auburn University, Belle Mina, AL
32. **Differences in Rates of Leaf Emergence, and Early Leaf and Root Growth Among Diverse Cotton Genotypes** - Felix B. Fritsch¹, Shengjun Liu¹, Fred Bourland² and Robert L. Nichols³, (1)University of Missouri, Columbia, MO, (2)University of Arkansas - Northeast Research and Extension Center, Keiser, AR, (3)Cotton Incorporated, Cary, NC
33. **Differences in Seedling Vigor Among Modern Cotton Cultivars and Advanced Breeding Lines** - Shengjun Liu¹, Fred Bourland², Robert L. Nichols³, Gene Stevens⁴, Andrea Phillips Jones⁴ and Felix B. Fritsch¹, (1)University of Missouri, Columbia, MO, (2)University of Arkansas - Northeast Research and Extension Center, Keiser, AR, (3)Cotton Incorporated, Cary, NC, (4)University of Missouri-Delta Center, Portageville, MO
34. **Transgenic Cotton Plants Expressing a Castor Diverged Fatty Acid Desaturase (FAD2) Have Reduced Oil Content and Seed Size** - Shanmukh S. Salimath, Purnima Neogi, Patrick Horn and Kent D. Chapman, University of North Texas, Denton, TX
35. **Enhanced Drought Tolerance by Overexpressing of Arabidopsis Thaliana LOS5 Gene in Cotton (zhongmiansuo35)** - Yuesen Yue, Jiachang Zhang, Xiaoli Tian, Liusheng Duan and Zhaohu Li, State Key Laboratory of Plant Physiology and Biochemistry, Key Laboratory of Crop Cultivation and Farming System, Centre of Crop Chemical Control, China Agricultural University, Beijing, China
36. **Genotypic Variations in Potassium Uptake and Utilization in Cotton (Gossypium hirsutum)** - Fuqiang Yang¹, Gangwei Wang¹, Zhiyong Zhang², A. Egrinya Eneji¹, Mingcai Zhang¹, Liusheng Duan¹, Zhaohu Li¹ and Xiaoli Tian¹, (1)State Key Laboratory of Plant Physiology and Biochemistry, Key Laboratory of Crop Cultivation and Farming System, Centre of Crop Chemical Control, China Agricultural University, Beijing, China, (2)School of Life Science & Technology, Henan Institute of Science and Technology, Xinxiang, Henan, China

Cotton Disease Council Posters

37. **Seed Treatment Nematicides Against Root-Knot Nematode in Northeast Louisiana** - Terry L. Erwin¹, Richard M. Letlow¹ and Charles Overstreet², (1)LSU Agricultural Center, Bastrop, LA, (2)LSU Agricultural Center, Department of Plant Pathology and Crop Physiology, Baton Rouge, LA
38. **Control of Reniform Nematode in Central Texas Cotton With In-Furrow and Seed Applied Insecticide/Nematicide Treatments** - David R. Drake¹, R. R. Minzemeyer², P. Halfmann² and C. Sansone¹, (1)Texas AgriLife Extension, San Angelo, TX, (2)Texas AgriLife Extension, Ballinger, TX
39. **Reniform Nematode Reproduction on Soybean Cultivars and Breeding Lines in 2009** - R.T. Robbins¹, E. Shipe², P. Arelli³, P. Chen¹, G. Shannon⁴, L. E. Jackson¹, E. E. Gbur⁵, D. G. Dombek¹, C. Overstreet⁶ and Jeff T. Velie⁵, (1)University of Arkansas, Fayetteville, AR, (2)Clemson University, Clemson, SC, (3)USDA, Jackson, TN, (4)Univ. of Missouri, Delta Center, Portageville, MO, (5)Univ. of Arkansas, Fayetteville, AR, (6)LSU AgCenter, Baton Rouge, LA
40. **Microsatellites Reveal Genetic Diversity in Reniform Nematode Populations** - Renee S. Arias¹, Salliana R. Stetina², Jennifer L. Tonos², Jodi A. Scheffler² and Brian E. Scheffler¹, (1)USDA-ARS Genomics and Bioinformatics Research Unit, Stoneville, MS, (2)USDA-ARS Crop Genetics Research Unit, Stoneville, MS
41. **Evaluation of Variety Tolerance and Chemical Management of Southern Root-Knot Nematodes** - Manda Cattaneo¹, Terry A. Wheeler², Jason E. Woodward³, Mark S. Kelley⁴ and Randal K. Boman⁴, (1)Texas AgriLife Extension Service, Seminole, TX, (2)Texas Agrilife Research, Lubbock, TX, (3)Texas Agrilife Extension Service, Lubbock, TX, (4)Texas AgriLife Extension Service, Lubbock, TX
42. **Influence of Soil Properties On Nematode Populations in the Mississippi Delta** - Tom Allen¹, Angus Catchot², Darrin M. Dodds², Jeff Gore³ and Jason W. Weirich⁴, (1)Mississippi State University, Stoneville, MS, (2)Mississippi State University, Mississippi State, MS, (3)Mississippi State University, DREC, Stoneville, MS, (4)Mississippi State, MS
43. **The Potential of Silicon Soil Amendment to Reduce Severity of Fusarium Wilt of Cotton** - Linda J. Smith, John Lehane and Linda Scheikowski, Deedi (Queensland Primary Industries and Fisheries), Brisbane, Australia
44. **NPK Fertilisation Influences Severity of Fusarium Wilt of Cotton** - Linda J. Smith, John Lehane and Linda J. Scheikowski, Deedi (Queensland Primary Industries and Fisheries), Brisbane, Australia
45. **Progress Report On a Contemporary Survey of the Fusarium Wilt Fungus in the United States** - Rebecca S. Bennett¹, Elizabeth A. Holmes², R. Michael Davis², Patrick D. Colyer³, Kathy S. Lawrence⁴, Jason E. Woodward⁵, Alois A. Bell⁶, Gary W. Lawrence⁷, Craig S. Rothrock⁸ and Robert J. Wright⁹, (1)USDA-ARS-Western Integrated Cropping Systems Research Unit, Shafter, CA, (2)University of California, Davis, CA, (3)Louisiana State University AgCenter, Bossier City, LA, (4)Auburn University, Auburn University, AL, (5)Texas Agrilife Extension Service, Lubbock, TX, (6)USDA-ARS-Southern Plains Agricultural Research Center, College Station, TX, (7)Mississippi State University, Mississippi State, MS, (8)University of Arkansas, Fayetteville, AR, (9)Texas Tech University and Texas AgriLife Research, Lubbock, TX
46. **Artificial Inoculation of Crop Species in Australia with Fusarium oxysporum f.Sp. Vasinfectum** - Linda J. Scheikowski¹, John Lehane¹ and Linda J. Smith², (1)Deedi (Queensland Primary Industries and Fisheries), Toowoomba, Australia, (2)Deedi (Queensland Primary Industries and Fisheries), Brisbane, Australia
47. **Phytotoxicity of Fusaric Acid and Analogues to Cotton** - Robert D. Stipanovic¹, Lorraine S. Puckhaber², Alois A. Bell¹ and Jinggao Liu³, (1)USDA-ARS-Southern Plains Agricultural Research Center, College Station, TX, (2)USDA-ARS-SPARC, College Station, TX, (3)USDA-ARS-SPARC-CPRU, College Station, TX
48. **Fungicide Use in Cotton on the Southern High Plains of Texas** - Mitchell L. Ratliff, Texas Agrilife Extension, Lubbock, TX and Jason E. Woodward, Texas Agrilife Extension Service, Lubbock, TX
49. **Report of the Cottonseed Treatment Committee for 2009** - C. S. Rothrock¹, S. A. Winters¹, J.D. Barham², Alan B. Beach³, Melanie B. Bayles⁴, J. Caceres⁵, P. D. Colyer⁶, T. Kelley⁷, R. C. Kemerait⁸, K.S. Lawrence⁹, G.B. Padgett¹⁰, P. M. Phipps¹¹, G. L. Sciumbato¹², R. Thacker¹³ and J. E. Woodward¹⁴, (1) Department 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)Mississippi State University, Mississippi State, MS, (6)LSU AgCenter, Bossier City, LA, (7)Oklahoma State University, Perkins, OK, (8)Department of Plant Pathology, University of Georgia, Tifton, GA, (9)Auburn University, Auburn, AL, (10)LSU AgCenter Northeast Region, Winnsboro, LA, (11)Tidewater Ag Res & Ext Ctr, Virginia Tech, Suffolk, VA, (12)Delta Research and Extension Center, Mississippi State University, Stoneville, MS, (13)Oklahoma State University, Altus, OK, (14)Texas Cooperative Extension, Lubbock, TX
50. **Tracking Aspergillus flavus Infection in Cottonseed to Prevent Preharvest Aflatoxin Contamination** - K. Rajasekaran, J.W. Cary, D. Bhatnagar and T.E. Cleveland, USDA, ARS, SRRC, New Orleans, LA



Technical Conferences Program

Technical Conferences Poster Board Session

51. **Detecting Boll Rot of Cotton with an Electronic Nose** - Charles P.-C. Suh¹, Enrique Gino Medrano², Yubin Lan³ and Derrick Hall¹, (1)USDA-ARS, APMRU, College Station, TX, (2)USDA-ARS-SPARC, College Station, TX, (3)USDA-ARS-SPARC-APMRU, College Station, TX
52. **Control of Phymatotrichopsis Root Rot of Cotton With Flutriafol** - T. Isakeit, Texas A&M University, College Station, TX, R.R. Minzenmayer, Texas AgriLife Extension Service, Ballinger, TX, Archie Abrameit, Texas AgriLIFE Extension, Thrall, TX, Glen Moore, Texas AgriLIFE Extension, Waxahachie, TX and John Derek Scasta, Texas AgriLIFE Extension Service, Corsicana, TX
53. **Incidence of Crown Gall Under Various Cultural Practices** - Lindsey D. Kahler¹, Jason E. Woodward¹, Terry A. Wheeler² and James P. Bordovsky², (1)Texas Agrilife Extension Service, Lubbock, TX, (2)Texas Agrilife Research, Lubbock, TX

Cotton Economics and Marketing Conference Posters Posters will be on display in Gallerie 3 (New Orleans Marriott)

Cotton Improvement Conference Posters

54. **Comparison of HVI and Spinning Data Among Isogenic Sister-Lines** - Jenny D. Clement, Steve Hague and C. Wayne Smith, Texas A&M, College Station, TX
55. **Confirmation and Validation of Fiber Strength QTL Cluster on Chromosome 24 of Upland Cotton** - Pawan Kumar¹, Rippy Singh¹, A. H. Pater-son² and Peng Chee¹, (1)University of Georgia, Tifton, GA, (2)University of Georgia, Athens, GA
56. **Beltwide Breeders' Elite-Upland Germplasm-Pool Assessment of Fusarium Wilt (FOV) Races 1 & 4 in California** - Mauricio Ulloa, USDA-ARS, WICSRU, Shafter, CA, Robert B. Hutmacher, University of California - Davis, Davis, CA, Steve D. Wright, University of California, Tulare, CA, Benjamin T. Campbell, USDA-ARS, Florence, SC, Ted Wallace, Mississippi State University, Stoneville, MS, Gerald Myers, LSU, Baton Rouge, LA, Fred Bourland, University of Arkansas - Northeast Research and Extension Center, Keiser, AR, David Weaver, Auburn University, Auburn University, AL, Peng Chee, the University of Georgia, Tifton, GA, Ed Lubbers, University of Georgia, Tifton, GA, Peggy Thaxton, Texas A&M University, College Station, TX, Jinfa Zhang, New Mexico State University, Las Cruces, NM, Wayne Smith, Texas A&M, College Station, TX and Don. C. Jones, Cotton Incorporated, Cary, NC
57. **Improvement of Upland Cotton Through Interspecific Hybridization: Analyze of the Fibre Fineness of Bi- and Trispecific Hybrids Involving *G. longicalyx*** - Guy Gustave Mergeai, J.P. Baudoin and O.N. Konan, Gembloux Agricultural University, Gembloux, Belgium
58. **Development of Plastid Transformation Vectors to Engineer Cotton With Resistance to *Aspergillus Flavus*** - J.W. Cary¹, C.A. Chlan², K. Ra-jasekaran¹ and D. Bhatnagar¹, (1)USDA, ARS, SRRC, New Orleans, LA, (2)University of Louisiana- Lafayette, Lafayette, LA
59. **Molecular and Genetic Diversity of Cultivars in the U.S. Cotton Germplasm Collection** - Lori Hinze¹, Richard Percy¹ and Jane Dever², (1)USDA-ARS, College Station, TX, (2)Texas AgriLife Research, Lubbock, TX
60. **Dryland and Irrigated Commercial Variety Testing in Central and South Texas in 2009** - Dawn M. Deno, Steve Hague, C. Wayne Smith and Nino Brown, Texas A&M University, College Station, TX
61. **QTL Mapping for Resistance to Root-Knot Nematodes in the Primitive *Gossypium hirsutum* L. Line M495** - Yajun He¹, Naeem Iqbal¹, Xinlian Shen¹, Richard Davis² and Peng W. Chee¹, (1)the University of Georgia, Tifton, GA, (2)USDA-ARS, Tifton, GA
62. **Exploiting Agriculturally Valuable Alleles From *Gossypium mustelinum* to Improve Fiber Quality in Upland Cotton** - Baohua Wang and P.W. Chee, University of Georgia, Tifton, GA
63. **Genetic Aspects of Total and Percent (+)-Gossypol in Cotton Hybrids** - Shadman Namazov¹, Zamira Golubenko², Olga Veshkurova², Robert D. Stipanovic³, Alois A. Bell³, R. Yuldosheva¹, S.A. Usmanov¹, I. Amanturdiev¹ and T. Rakhimov¹, (1)The Uzbek Scientific Research Institute of Selection and Cotton Seed-Production, Tashkent, Uzbekistan, (2)Institute of Bioorganic chemistry, Tashkent, Uzbekistan, (3)USDA-ARS-Southern Plains Agri-cultural Research Center, College Station, TX
64. **Evaluation of Salt Tolerance in Cotton Germplasm and Breeding Lines** - S. Bajaj, Department of Plant and Environmental Sciences, New Mexico State University, Las Cruces, NM, S. Ed Hughs, USDA-ARS-Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM and Jinfa Zhang, New Mexico State University, Las Cruces, NM
65. **Phenotypic Documentation of *Gossypium* Species From the U.S. Cotton Germplasm Collection, USDA-ARS, Using Digital Photography** - M. A. Sheehan, Jane Dever and M.D. Arnold, Texas AgriLife Research, Lubbock, TX
66. **Near-Isogenic Cotton Germplasm Lines that Differ in Fiber-Bundle Strength Have Temporal Differences in Fiber Gene Expression Patterns as Revealed by Comparative High-Throughput Profiling** - Doug J. Hinchliffe¹, William R. Meredith², Kathleen M. Yeater³, Hee Jin Kim⁴, Andrew W. Woodward⁵, Z. Jeffrey Chen⁶ and Barbara A. Triplett¹, (1)USDA-ARS, New Orleans, LA, (2)USDA-ARS, Stoneville, MS, (3)USDA-ARS-SPA, Williamsburg, VA, (4)Louisiana State University, Baton Rouge, LA, (5)Rice University, Houston, TX, (6)The University of Texas, Austin, TX
67. **Cotton Germplasm Lines Released by the University of Arkansas in 2009** - Fred Bourland, University of Arkansas - Northeast Research and Extension Center, Keiser, AR and Don C. Jones, Cotton Incorporated, Cary, N
68. **Non-Glandular Trichome Cell Walls Are Compositionally Unique in Upland Cotton** - Phillip G. Cochran¹, Kevin C. Vaughn¹ and Rickie B. Turley², (1)USDA-ARS, Stoneville, MS, (2)Stoneville, MS
69. **Survey of Hairy Leaf Cotton Lines** - Rickie B. Turley, Stoneville, MS
70. **Genetic Relations Within Western US Upland Cotton Germplasm** - Edward L. Lubbers, Peng W. Chee and Andrew H. Paterson, University of Georgia, Tifton, GA
71. **A Hydroponic Approach to Evaluate Responses to Salinity Stress in Cotton** - M. N. Castillo, Texas Agricultural Experiment Station, Lubbock, TX and Jane Dever, Texas AgriLife Research, Lubbock, TX
72. **Genotypic Variation of Neps and Seed Coat Fragments in an Exotic Cotton Germplasm Population** - Linghe Zeng and William R. Meredith, USDA-ARS, Stoneville, MS
73. **KASPar: An Efficient and Cost-Effective Technology for SNP Genotyping in Cotton** - Ramesh Buyyarapu, Siva Kumpatla, Navin Elango, Wei Chen and Thomas W. Greene, Trait Genetics & Technologies, Dow AgroSciences, Indianapolis, IN

Cotton Insect Research and Control Conference Posters

74. **Summary of Insecticide Efficacy Trials for Control of Tarnished Plant Bug in Louisiana, 2007-09** - Jessica L. Moore¹, Joshua H. Temple¹, Jarrod T. Hardke¹, Karla Emfinger², Paul P. Price², Josh T. Copes², Jonathan W. Sharp², Eugene Burris³, Kyle A. Fontenot⁴ and Roger Leonard², (1)LSU AgCenter, Baton Rouge, LA, (2)LSU AgCenter, Macon Ridge Station, Winnsboro, LA, (3)LSU Agricultural Center, Northeast Research Station, St. Joseph, LA, (4) Bayer CropScience, West Monroe, LA
75. **Potential of Diamond Insecticide for Lygus Management in the Texas High Plains** - Dustin Patman¹, David Kerns², Brant Baugh² and Kerry Sid-ers³, (1)Texas AgriLife Extension Service, Crosbyton, TX, (2)Texas AgriLife Extension Service, Lubbock, TX, (3)Texas AgriLIFE Extension, Levelland, TX



Technical Conferences Program

Technical Conferences Poster Board Session

76. **Managing Tarnished Plant Bug Populations in Cotton in Arkansas - G. Stuebaker**, Univ. of Ark.- NEREC, Keiser, AR and Shawn W. Lancaster, University of Arkansas, Keiser, AR
77. **Control of Tarnished Plant Bug with Selected Insecticides in Arkansas, 2009 - K. Colwell¹**, Gus Lorenz², H. Wilf², Nichole Taillon³ and Ben Von Kanel³, (1)Univ. of Arkansas CES- Lonoke, Lonoke, AR, (2)University of Arkansas Cooperative Extension Service, Lonoke, AR, (3)University of Arkansas Cooperative Extension Service, Little Rock, AR
78. **Irrigation Timing and Tarnished Plant Bug Management - Implications for Late Season Susceptibility to Tarnished Plant Bug and COTMAN Crop Termination Decisions - Year Two - Tina Gray Teague**, Arkansas State University - University of Arkansas Agricultural Experiment Station, State University, AR and Diana M. Danforth, University of Arkansas, Fayetteville, AR
79. **Variation in White Flower Anther Injury Associated with Field Plot Size in Tarnished Plant Bug Host Plant Resistance Evaluations in Arkansas Cotton - Tina Gray Teague**, Arkansas State University - University of Arkansas Agricultural Experiment Station, State University, AR, Fred M. Bourland, University of Arkansas-NEREC, Keiser, AR, Jeffery Willers, USDA-ARS Crop Research Laboratory, Mississippi State, MS and George A. Milliken, Milliken Associates, Inc., Manhattan, KS
80. **Patterns of Zone Management Uncertainty in Cotton Using Tarnished Plant Bug Distributions, NDVI, Soil EC_e, Yield, and Thermal Imagery - Patrick J. English**, Mississippi State University, Stoneville, MS, Sherri L. DeFauw, USDA ARS, Orono, ME and Steven J. Thomson, USDA ARS, Stoneville, MS
81. **Lygus hesperus Feeding on Maturing Cotton Bolls: Adults Vs. Nymphs - Mahendra B. Adhikari¹**, Megha N. Parajulee¹, Ram B. Shrestha¹ and David L. Kerns², (1)Texas AgriLife Research, Lubbock, TX, (2)Texas AgriLife Extension Service, Lubbock, TX
82. **Effect of Roadside Alfalfa Mowing on the Abundance of Lygus hesperus in Adjacent Cotton Field: A Field Marking Study - Ram B. Shrestha, Stanley C. Carroll** and Megha N. Parajulee, Texas AgriLife Research, Lubbock, TX
83. **Influence of Cover Crops in Conservation Tillage Systems on Aldicarb Rate Requirement for Thrips Management in Cotton - Norman Dean Kemp** and John All, University of Georgia, Athens, GA
84. **Developing an Action Threshold for Thrips in the Texas High Plains - David Kerns**, Texas AgriLife Extension Service, Lubbock, TX, Megha Parajulee, Texas Agricultural Experiment Station, Vernon, TX, Monti Vandiver, Texas AgriLife Extension Service, Farwell, TX, Manda Cattaneo, Texas AgriLife Extension Service, Seminole, TX and Kerry Siders, Texas AgriLife Extension, Levelland, TX
85. **Crop Protection and Tillage - Focusing Management to Build Sustainable Cotton Systems - Tina Gray Teague**, Calvin Shumway, Jennifer Bouldin and Steve Green, Arkansas State University - University of Arkansas Agricultural Experiment Station, State University, AR
86. **Efficacy of Foliar and Preventive Insecticides Towards Thrips in the Texas High Plains - Emilio Nino**, Texas AgriLife Extension Service, Dimmitt, TX and David Kerns, Texas AgriLife Extension Service, Lubbock, TX
87. **Managing Thrips Where It Really Matters: Different Options for Early and Late Planted Cotton in Virginia and North Carolina - D. Ames Herbert¹**, Jack S. Bachelor², Sean Malone¹ and Dan Mott², (1)Virginia Tech, Suffolk, VA, (2)North Carolina State University, Raleigh, NC
88. **Development of a Thrips Resistant, Adapted Cotton Cultivar for The Texas High Plains: Screening, Crossing and Field Trials - Mark D. Arnold¹**, Jane Dever², Heather D. Elkins¹ and Monica A. Sheehan¹, (1)Texas AgriLife Research, Lubbock, TX, (2)AgriLife Research, Lubbock, TX
89. **Reduction of Thrips Populations With Tillage and Winter Cover Crops - J. David Griffin**, R. Scott Tubbs, Dylan Q. Wann and Michael D. Toews, University of Georgia, Tifton, GA
90. **Regional Thrips Trial, 2009: Thrips Species Composition - Jack Reed¹**, Scott Akin², Jack S. Bachelor³, Angus Catchot¹, D. R. Cook⁴, Chris Daves⁵, Jeremy K. Greene⁶, D. Ames Herbert⁷, David L. Kerns⁸, Roger Leonard⁹, Gus M. Lorenz¹⁰, Phillip M. Roberts¹¹, Scott D. Stewart¹², Glenn E. Stuebaker¹³, K. V. Tindall¹⁴ and Michael D. Toews¹¹, (1)Mississippi State University, Mississippi State, MS, (2)University of Arkansas Cooperative Extension Service, Lonoke, AR, (3)North Carolina State University, Raleigh, NC, (4)Mississippi State University, Stoneville, MS, (5)Mississippi State University, Raymond, MS, (6)Clemson University, Blackville, SC, (7)Virginia Tech, Suffolk, VA, (8)Texas AgriLife Extension Service, Lubbock, TX, (9)LSU Agricultural Center, Winnsboro, LA, (10)University of Arkansas Cooperative Extension Service, Little Rock, AR, (11)University of Georgia, Tifton, GA, (12)The University of Tennessee, Jackson, TN, (13)University of Arkansas, Keiser, AR, (14)Univ. of Missouri, Portageville, MO
91. **Impact of Pre-Bloom Square Loss on Yield in Late Planted Cotton in the Texas High Plains - Tommy Doederlein¹**, David Kerns² and Brant Baugh², (1)Texas AgriLife Extension Service, Lamesa, TX, (2)Texas AgriLife Extension Service, Lubbock, TX
92. **Insecticide Resistance Monitoring in Georgia: Laboratory Evaluation of Selected Insecticides on Field-Collected Bollworm and Tobacco Budworm Populations - Jesse A. Brown** and Gregory T. Payne, University of West Georgia, Carrollton, GA
93. **Evaluation of Seedling Transgenic Cotton Containing Bacillus Thuringiensis Toxins to Saltmarsh Caterpillar - Raymondbo J. Kesey**, Texas AgriLife Research, Lubbock, TX and David Kerns, Texas AgriLife Extension Service, Lubbock, TX
94. **Bollworm/Tobacco Budworm Abundance in Pheromone Traps During the Past Twenty-Four Years in Northwest Louisiana - S. Micinski** and Colleen Cookson, LSU AgCenter, Bossier City, LA
95. **Behavioral Response of Two Fall Armyworm (Spodoptera frugiperda) Strains in Dual-Toxin Bt Cottons - J. Eric Howard**, University of Arkansas, Southeast Research and Extension Center, Monticello, AR, D. Scott Akin, University of Arkansas, Monticello, AR and Ryan Jackson, USDA-ARS, SIMRU, Stoneville, MS
96. **Economic Impact of Dual-Toxin Bt Cottons in Arkansas - D. Scott Akin¹**, Gus Lorenz², Archie Flanders³ and Glenn E. Stuebaker³, (1)University of Arkansas, Monticello, AR, (2)University of Arkansas Cooperative Extension Service, Lonoke, AR, (3)University of Arkansas, Keiser, AR
97. **Artificial Infestations of Transgenic Cottons With Beet Armyworms and Evaluation of Insect Mortality and Damage Under Field Conditions - Shoil M. Greenberg**, John J. Adamczyk and C. Yang, USDA-ARS, Weslaco, TX
98. **Field Trials of the Entomopathogenic Fungus Beauveria Bassiana for Controlling Mole Crickets, Gryllotalpa Gryllotalpa (Orthoptera: Gryllotalpidae) in Cotton Fields - Ahmed A. Hamed Amin** and Idris Salam, Plant Protection Res. Institute, Giza, Egypt
99. **Evaluation of Insecticides on Cotton Fleahopper and Beneficial Arthropod Populations - Charles P.C. Suh**, USDA-ARS, APMRU, College Station, TX, Roy D. Parker, Texas AgriLife Extension, Corpus Christi, TX and Juan Lopez, USDA-ARS-SPARC-APMRU, College Station, TX
100. **Efficacy of Insecticides on Cotton Aphids and Impact on Key Aphid Predators - Brant Baugh¹**, David Kerns¹ and Dustin Patman², (1)Texas AgriLife Extension Service, Lubbock, TX, (2)Texas AgriLife Extension Service, Crosbyton, TX
101. **Impact of Alfalfa on Predation of Insects Pests in New Mexico - Jane Breen Pierce** and Patricia Yates Monk, New Mexico State University, Artesia, NM
102. **Fate of Southern Green Stink-Bug Eggs in Bt-Cotton, Round-up Ready Cotton, Soybeans and Peanuts - John R. Ruberson**, University of Georgia, Tifton, GA and Dawn Olson, USDA, ARS, Tifton, GA
103. **Population Fluctuations of the Spiny Bollworm, Earias Insulana and Its Associated Predators During 2008 and 2009 Cotton Seasons (Minia Region, Egypt) - Abdelrahman M. Younis**, Minia University, Minia, Egypt

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104. **Neotropical Brown Stink Bug *Euschistus heros* (Fabr., 1798) Attack on Bt-Cotton Bolls Cultivated in Brazilian Savannah** - Miguel Ferreira Soria¹, Paulo Eduardo Degrande¹, Antônio Ricardo Panizzi², Danielle Thomazoni¹, Everton Kodama¹ and Thiago Moreira Azambuja¹, (1)Agricultural Science College / Federal University of Grande Dourados, Dourados, Brazil, (2)Brazilian Corporation for Agricultural Research - EMBRAPA / National Center for Soybean Research, Londrina, Brazil
105. **Toxicity of Selected Insecticides and Insecticide Mixtures for Brown Stink Bug** - Juan D. Lopez¹, M. A. Latheef¹ and Bill Ree², (1)USDA-ARS, Area-wide Pest Management Research Unit, College Station, TX, (2)Texas AgriLife Extension, Bryan, TX
106. **Managing Stink Bugs in Cotton: Research in the Southeast Region** - Jack Bacheler¹, Ames Herbert², Eric L. Blinka², Jeremy Greene³, Phillip Roberts⁴, John Van Duyn⁵, Michael Toews⁴, Daniel Mott¹ and Ronald Smith⁶, (1)North Carolina State University, Raleigh, NC, (2)Virginia Tech, Suffolk, VA, (3)Clemson, Blackville, SC, (4)University of Georgia, Tifton, GA, (5)North Carolina State University, Plymouth, NC, (6)Auburn University, Auburn, AL
107. **Finding a Weevil in a Haystack?** - Noel Troxclair, Texas Agrilife Extension Service, Uvalde, TX
108. **Investigation of Pheromone-Based Factors That May Reduce Capture of Boll Weevils in Traps** - John K. Westbrook and Charles P.-C. Suh, USDA-ARS, APMRU, College Station, TX
109. **Response of Cotton Squares to Various Boll Weevil Oviposition Puncture Types** - Jesus F. Esquivel, U. S. Department of Agriculture, College Station, TX
110. **Analyses of Boll Weevils Captured Near Hay Bales** - Gretchen D. Jones, USDA-ARS. APMRU, College Station, TX and Noel Troxclair, Texas Agrilife Extension Service, Uvalde, TX
111. **Pink Bollworm Eradication in Arizona Cotton 2009 Progress Update** - Leighton Liesner¹, Larry Antilla¹, Mike Whitlow¹ and Robert T. Staten², (1) Arizona Cotton Research & Protection Council, Phoenix, AZ, (2)USDA, APHIS, PPO, CPHST - Retired, Phoenix, AZ
112. **Development of a Binomial Sampling Plan for Thrips in Cotton** - Mark Muegge, Texas Cooperative Extension, Fort Stockton, TX and David Kerns, Texas AgriLife Extension Service, Lubbock, TX

Cotton Quality Measurements Conference Posters

113. **Single Cotton Fiber Diameter Determination by Using Fraunhofer Diffraction** - Ayodeji Adedoyin and Changying Li, Department of Biological & Agricultural Engineering, University of Georgia, Tifton, GA
114. **Quantification of Oil and Protein in Cottonseed by Time-Domain Nuclear Magnetic Resonance** - Patrick J. Horn, Purnima Neogi and Kent Chapman, University of North Texas, Denton, TX
115. **Comprehensive Investigation of NIR Technique in Cotton Fiber Quality Assessment** - Yongliang Liu, Gary Gamble and Devron Thibodeaux, Agricultural Research Service, USDA, Clemson, SC

Cotton Soil Management and Plant Nutrition Conference Posters

116. **Midseason Estimates of Cotton Lint Yield Response to Nitrogen Fertilizer Using In-Season Plant-Based Indices** - J. Lofton¹, S. Bhusal¹, D. Boquet², E. Clawson³, J. Teboh¹ and B. Tubana¹, (1)Louisiana State University Agricultural Center, Baton Rouge, LA, (2)Louisiana State University Agricultural Center, Winnsboro, LA, (3)Louisiana State University Agricultural Center, St. Joseph, LA
117. **Evaluation of Two Products for Enhancing Phosphate Fertilizer Efficiency in Cotton Production** - A. Phillips, D.J. Dunn and W.E. Stevens, University of Missouri-Delta Center, Portageville, MO
118. **Comparison of Three Commercially Available Crop Sensors Utilizing NDVI for Monitoring Cotton Growth and Nitrogen Status** - Tyson Raper, Jac J. Varco and Brennan Booker, Mississippi State University, Mississippi State, MS
119. **Biochar as a Potential Soil Amendment-Fertilizer for Green and Profitable Farming Systems of the Southeastern USA** - P. G. Hunt, K. B. Cantrell, K. S. Ro, M. B. Vanotti, J. M. Novak, P. J. Bauer, A. A. Szogi and B. T. Campbell, USDA-ARS, Florence, SC
120. **Cotton/Corn/Soybean Rotations - Effects on Yield and Profitability** - M. Wayne Ebelhar, Davis R. Clark and Steven W. Martin, Mississippi State University, Stoneville, MS
121. **Winter Legume Cover Crops for Cotton: Field Experiences With Crimson Clover and Hairy Vetch** - Matthew Rhine¹, Gene Stevens¹ and James W. Heiser², (1)University of Missouri-Delta Center, Portageville, MO, (2)University of Missouri Delta Center, Portageville, MO
122. **A Receiver Hitch Mounted Device for Deep Soil Sampling** - Chris Ashbrook, Mark S. Kelley, Randy Boman and Brian Holladay, Texas AgriLife Extension Service, Lubbock, TX
123. **Repeated Poultry Litter Applications Reduce Subsequent Rates for Cotton Yield** - Haile Tewolde and Ardeshir Adeli, Crop Science Research Lab, GAPARU, Mississippi State, MS
124. **Assessment of Selected Electrical Conductivity Sensors** - Leo Espinoza, Dharmendra Saraswat and Mukhammadzakhrab Ismanov, University of Arkansas Division of Agriculture Cooperative Extension Service, Little Rock, AR
125. **Where Did the Potassium Go?** - Leo Espinoza¹, Mukhammadzakhrab Ismanov¹, Paul Ballantyne¹ and Jose Pantoja², (1)University of Arkansas Division of Agriculture Cooperative Extension Service, Little Rock, AR, (2)Iowa State University, Ames, IA

Cotton Utilization Conference: Textiles/Chemistry/Nonwovens Posters

126. **Effect on the Growth and Development of Chickens When Cottonseed is Substituted for Soybean in Their Diets** - Vladimir R. Khaitov¹, Rano Asadovna Ismatova², Zamira Golubenko³, Shadman Namazov⁴, Olga Veshkurova³, Robert D. Stipanovic³ and A. A. Bell⁵, (1)Uzbek Scientific Research of Veterinary, Samarkand, Uzbekistan, (2)Uzbek Scientific Research Institute of Veterinary, Samarkand, Uzbekistan, (3)Institute of Bioorganic chemistry, Tashkent, Uzbekistan, (4)The Uzbek Scientific Research Institute of Selection and Cotton Seed-Production, Tashkent, Uzbekistan, (5)USDA-ARS Southern Plains Agricultural Research Center, College Station, TX



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Cotton Weed Science Research Conference Posters

127. **Non-Glyphosate Programs for Palmer Amaranth Control in Cotton** - S. K. Bangarwa, J. K. Norsworthy, G. M. Griffith, Justin D. DeVore, J. Still, G. T. Jones and M. J. Wilson, University of Arkansas, Fayetteville, AR
128. **Spatial Movement of Glyphosate-Resistant Palmer Amaranth in Roundup Ready Flex® Cotton** - G. M. Griffith¹, J. K. Norsworthy¹, B. Johnson¹, S. K. Bangarwa¹, M. J. Wilson¹ and Terry Griffin², (1)University of Arkansas, Fayetteville, AR, (2)University of Arkansas - Division of Agriculture, Little Rock, AR
129. **Use of Acetochlor for Palmer Amaranth Control in Cotton** - J. Trenton Irby¹, Daniel B. Reynolds¹, Darrin M. Dodds¹, J. Anthony Mills² and Chad L. Smith¹, (1)Mississippi State University, Mississippi State, MS, (2)Monsanto, Collierville, TN
130. **Weed Management Systems for Palmer Amaranth Control in Alabama Cotton** - Michael Patterson¹, Brandon A. Dillard², Dale Monks¹ and William Birdsong¹, (1)Auburn University, Auburn, AL, (2)Auburn University, Geneva, AL
131. **Pigweed Emergence and Seed Cotton Yield as Affected by Rye Cover and Tillage System** - Andrew Price¹, Kip Balkcom¹, C. Dale Monks² and Michael G. Patterson³, (1)USDA-ARS, Auburn, AL, (2)Auburn University, Auburn, AL, (3)Auburn University, Auburn University, AL
132. **Management of Glyphosate-Resistant Palmer Amaranth in Transgenic Cotton with Flumioxazin** - John Cranmer, J.D. Smith and J.A. Pawlak, Valent U.S.A. Corporation, Walnut Creek, CA
133. **Palmer Amaranth Control in Three Cotton Tillage Systems** - A.J. Bloodworth¹, P. A. Dotray², J. W. Keeling³, L.V. Gilbert³, B. W. Bean⁴ and J. W. Johnson⁵, (1)Texas Tech University, Lubbock, TX, (2)Texas Tech University, AgriLife Research, and Texas AgriLife Extension Service, Lubbock, TX, (3)Texas AgriLife Research, Lubbock, TX, (4)Texas AgriLife Research and Extension Center, Amarillo, TX, (5)Texas Tech University and Texas AgriLife Research, Lubbock, TX
134. **Update on Herbicide Resistant Palmer Amaranth (Amaranthus Palmeri S. Wats.) in South Carolina** - Michael W. Marshall, Clemson University, Blackville, SC
135. **Horseweed Control in Oklahoma Cotton** - Shane Osborne, Oklahoma State University, Altus, OK
136. **Liberty Link Cotton Weed Control Programs** - D. K. Miller, LSU AgCenter, St. Joseph, LA
137. **Glufosinate and Insecticide Combinations in Liberty Link Cotton** - Donnie K. Miller, LSU AgCenter, Northeast Research Station, St. Joseph, LA
138. **Management of Glyphosate-Resistant Weeds in the Fall With Dual Magnum and Envoke** - J.C. Holloway, Syngenta Crop Protection, Inc., Jackson, TN
139. **Winter Weed Management With Sharpen in a No-till Cotton System** - John-Kirk Manning¹, Daniel Oliver Stephenson², Jason A. Bond¹, J. Bryan McDuffie¹, Randall L. Landry² and J. Brad Guice³, (1)Mississippi State University, Stoneville, MS, (2)LSU AgCenter, Alexandria, LA, (3)BASF, Winnsboro, LA
140. **Cotton Tolerance and Weed Management With Sharpen** - J. D. Reed, J. W. Keeling and D. M. Petty, Texas AgriLife Research, Lubbock, TX
141. **Performance of Residual Herbicides Applied in Tank-Mixtures With Staple LX and Glyphosate** - J. Bryan McDuffie¹, Jason A. Bond¹, Daniel O. Stephenson², Donnie K. Miller³, John-Kirk Manning¹ and Randall L. Landry², (1)Mississippi State University, Stoneville, MS, (2)LSU AgCenter, Alexandria, LA, (3)LSU AgCenter, Winnsboro, LA
142. **Managing Volunteer Cotton in Various Production Areas of Texas** - Gaylon Morgan¹, R.R. Minzemeyer², D.A. Mott¹, P.A. Baumann¹, D.R. Drake², P. Halfmann³ and M.E. Matocha¹, (1)Texas AgriLife Extension Service, College Station, TX, (2)Texas AgriLife Extension Service, San Angelo, TX, (3)Texas AgriLife Extension Service, Ballinger, TX
143. **Barnyardgrass Emergence and Seed Production in Cotton** - Joshua A. Still¹, Jason K. Norsworthy¹, Kenneth L. Smith², Prashant Jha¹ and Michael J. Wilson¹, (1)University of Arkansas, Fayetteville, AR, (2)University of Arkansas, Monticello, AR
144. **Does a Rye Cover Crop Change the Critical Weed-Free Period in Cotton?** - Justin D. DeVore, J.K. Norsworthy, J. Still, G.M. Griffith, D.B. Johnson, M.J. Wilson, E.K. McCallister, G.T. Jones and S.K. Bangarwa, University of Arkansas, Fayetteville, AR
145. **Controlling Volunteer Cotton With Postemergence Herbicides** - W. James Grichar¹, D. D. Fromme², P. A. Dotray³ and J. W. Keeling³, (1)Texas AgriLife Research, Beeville, TX, (2)Texas AgriLife Extension, Corpus Christi, TX, (3)Texas AgriLife Research, Lubbock, TX



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