

Beltwide Cotton Conferences

January 4-7, 2011 • Atlanta, Georgia • Atlanta Marriott Marquis



National
Cotton
Council
OF AMERICA





BELTWISE 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 marketplace 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 website 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

Early registration ends December 14, 2010. Anyone registering for the Conferences after this date must pay the full registration fee. Register online at <http://beltwide.cotton.org/registration>.

Registration Through December 14th

NCC or Cotton Foundation Members	\$125.00
Non-Members	\$250.00
Students	\$ 55.00
Research, Extension, Associations, Consultants	\$125.00

Registration Beginning December 15th

NCC or Cotton Foundation Members	\$150.00
Non-Members	\$300.00
Students	\$ 75.00
Research, Extension, Associations, Consultants	\$150.00

ON-SITE

Already registered?

Go to the Beltwide Cotton Conferences' Registration Desk, located in the Atlanta Marriott Marquis Hotel, Marquis Level, to print your name tag.

Not registered?

Go to the Beltwide Registration Desk located in the Marriott Marquis Hotel, Marquis Level, 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 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.

Cotton Foundation Exhibit Hours:

Wednesday, January 5 **Noon – 6:00 p.m.**
 Thursday, 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.

Hours:

Tuesday, January 4 **10:00 a.m. - 5:00 p.m.**
 Wednesday, January 5 **8:00 a.m. - 5:00 p.m.**
 Thursday, January 6 **8:00 a.m. - 5:00 p.m.**
 Friday, 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 Marriott Marquis Hotel, Marquis Level, Tuesday - Friday.

HOTEL INFORMATION

Atlanta Marriott Marquis Hotel

265 Peachtree Center
 Atlanta, GA 30303

For reservations:

Call: (866) 469-5475
 Online: cwp.marriott.com/atlmq/beltwidecottonconference

\$149 single/double rate*
 Valet parking \$28.00/day*

*Applicable taxes not included

AIRLINE TICKETS & RENTAL CAR RESERVATIONS

Visit the Beltwide web site www.beltwide.cotton.org to get price quotes and make air and car reservations online using Trip Manager, the NCC's online travel service, or by calling Mary Saemenes, travel consultant at Travelennium at 888-232-1738 or by email at msaemenes@travelennium.com. Fare discounts with Delta and American will be reflected when you book through Travelennium.

Special discounted car rental rates are also available by calling Mary Saemenes, travel consultant at Travelennium at 888-232-1738 or by email at msaemenes@travelennium.com. You may also call Hertz at 800-654-3131 or online at www.hertz.com. Refer to Hertz Discount number 1715002.

AIRPORT GROUND TRANSPORTATION

Atlanta Hartsfield International Airport is located 13 miles from the Marriott Marquis. Transfer cost by shuttle is \$16.50 each way and by taxi is approximately \$20.

BELTWISE CONCIERGE

- Dining Reservations (Individual or Group)
- Car Rental
- Shopping

Stop by the Beltwide Concierge Desk located near the conference registration on the Marquis Level for assistance.



BELTWISE CONTACTS

	Contact	Phone	Fax	Email
Coordinator	Bill Robertson	(901) 274-9030	(901) 725-0510	brobertson@cotton.org
Meeting Arrangements	Ellen Ferrell Debbie Richter	(901) 274-9030 (901) 274-9030	(901) 725-0510 (901) 725-0510	eferrell@cotton.org drichter@cotton.org
Registration	Buzz Shellabarger	(901) 274-9030	(901) 725-0510	bshellabarger@cotton.org
Cotton Crafts Store	Debbie Richter	(901) 274-9030	(901) 725-0510	drichter@cotton.org
Cotton Foundation Exhibits	Don Parker Debbie Richter	(901) 274-9030 (901) 274-9030	(901) 725-0510 (901) 725-0510	dparker@cotton.org drichter@cotton.org
Media	Marjory Walker Cotton Nelson	(901) 274-9030 (901) 274-9030	(901) 725-0510 (901) 725-0510	mwalker@cotton.org cnelson@cotton.org
Air Travel/ Rental Car	Mary Saemenes	(888) 232-1738 (901) 762-7018	(901) 766-0126	msaemenes@travelennium.com

SCHEDULE OF EVENTS

TUESDAY, JANUARY 4		
8:00a- 12:00p	Extension Cotton Specialists Working Group Annual Meeting (by invitation only)	Marquis 103
8:00a- 5:00p	AMVAC Staff Meeting - II (by invitation only)	Lobby 502
9:00a- 6:00p	Weed Science Society of America – Resistance Management Group (by invitation only)	Lobby 504
10:00a- 5:00p	Conference Registration NCC Membership Desk Tour Ticket Desk Cotton Craft Store CEU Desk Internet Café	Marquis Foyer
10:00a- 5:00p	News Room	Marquis 301 - 302
10:00a- 5:00p	Confex Presentation Uploading Room	Marquis 303
12:00p- 1:00p	Cotton Consultants Lunch	International 4 - 6
1:00p- 6:00p	Cotton Consultants General Session	International 7- 10
3:00p- 6:00p	Cotton Consultants Technology Showcase	International 1 - 3
3:30p- 6:00p	USDA-ARS Cotton Geneticists Meeting (by invitation only)	Lobby 506-507
WEDNESDAY, JANUARY 5		
6:30a- 8:00a	NCC/CI News Briefing (by invitation only)	Marquis 101
7:00a- 8:00a	Continental Breakfast	Atrium Ballroom Foyer
7:00a- 10:00p	Speaker Practice Room	Marquis 201
7:30a- 5:00p	Conference Registration NCC Membership Desk Tour Ticket Desk CEU Desk Internet Café	Marquis Foyer
7:30a- 5:30p	Confex Presentation Uploading Room	Marquis 303
8:00a- 9:30a	Spouse Hospitality Room	Atrium Pulse Loft
8:00a-10:00a	Cotton Production Conference	Atrium Ballroom
8:00a- 5:00p	News Room	Marquis 301 - 302
8:00a- 5:00p	Cotton Crafts Store	Marquis Ballroom Foyer
10:00a- 10:30a	Coffee Break	Marquis Ballroom Foyer



SCHEDULE OF EVENTS

Schedule / Room Maps

10:30a- 12:00p	Industry Update: What's in the Pipeline? (Repeated on Thursday)	Atrium Ballroom
10:30a- 12:00p	Precision Ag - Spatial Sampling for Cotton Pest Management – Basic and Intermediate Concepts	Marquis 103 - 104
12:00p- 1:00p	Cotton Grower Beltwide Luncheon (by invitation only)	Atrium 601 - 602
12:00p - 1:30p	Cotton Incorporated - Cotton Specialists (by invitation only)	Atrium 708
12:00p- 6:00p	Cotton Foundation Technical Exhibits	Marquis Ballroom
12:00p- 10:00p	Poster Session	Marquis Imperial B
12:15p- 1:15p	Technical Chairpersons Meeting (by invitation only)	Lobby 508
1:30p- 2:30p	Cotton Crop Insurance Workshop	International 5 - 6
1:30p- 3:30p	Irrigation Workshop	International 1 - 3
1:30p- 3:30p	Extension Cotton Specialists Workshop	International 7 - 8
1:30p- 6:00p	New Developments from Industry	Marquis Imperial A
1:30p- 6:00p	What's Going on with Dual Gene Bt Cotton? Why Are We Spraying More for Caterpillar Control?	Atrium 706 - 707
2:00p- 3:30p	Cotton Research and Promotion Program Press Conference (by invitation only)	Lobby 506 - 507
2:30p- 3:30p	Cotton Options Workshop	International 5 - 6
3:00p- 4:00p	Regional Breeder Testing Network	Marquis 102
3:30p- 4:00p	Coffee Break	Marquis/Atrium Foyers
4:00p- 5:30p	National Cotton Variety Testing Committee Meeting (by invitation only)	Lobby 508
4:00p- 6:00p	Cotton Options Advanced Workshop	International 5 - 6
4:00p- 6:00p	Sustainability, Natural Resource Conservation and Farm Profitability	International 9 - 10
4:00p- 6:00p	Precision Ag - Integration of Spatial Information for Implementation of Cotton Pest Management - Advanced Concepts and Procedures	Marquis 103 - 104
5:30p- 6:30p	Cotton Germplasm Meeting	Lobby 506 - 507
6:00p- 7:00p	Deltapine Reception	Atrium Ballroom
THURSDAY, JANUARY 6		
6:30a- 8:00a	Cotton Foundation High Cotton Awards Breakfast (by invitation only)	Atrium 704
7:00a- 10:00p	Speaker Practice Room	Marquis 201
7:30a- 5:00p	Conference Registration NCC Membership Desk Tour Ticket Desk CEU Desk Internet Café	Marquis Foyer
7:30a- 5:30p	Confex Presentation Uploading Room	Marquis 303
8:00a- 9:30a	Spouse Hospitality Room	Atrium Pulse Loft
8:00a- 10:00a	Weed and Resistance Management Workshop	Atrium A
8:00a- 5:00p	Cotton Crafts Store	Marquis Ballroom Foyer
8:00a- 5:00p	News Room	Marquis 301-302
8:00a- 10:00p	Poster Session	Marquis Imperial B
10:00a- 10:30a	Coffee Break	Marquis/Atrium/International Foyers
10:00a- 4:00p	Cotton Foundation Technical Exhibits	Marquis Ballroom
10:30a- 12:00p	Industry Update: What's in the Pipeline? (Repeat of Wednesday)	Atrium A
10:30a- 12:00p	Cotton Flowering and Fruiting	International 9
10:30a- 12:00p	Cotton Weed Science Research – Special Session	International 7-8
10:30a- 12:00p	Cotton Insect Research and Control – Producer's Roundtable	Marquis Imperial A
10:30a- 12:00p	The Impact of Losing Temik 15G and Future Prospects for Nematode Management	International 3



SCHEDULE OF EVENTS

Schedule / Room Maps

10:30a- 12:00p	Cotton Soil Management and Plant Nutrition – Special Session	International 5-6
10:30a- 12:00p	Cotton Economic Outlook Symposium	Atrium 706-707
10:30a- 12:00p	Cotton Utilization Conference: A Look into the Future	International B
1:30p- 5:15p	Cotton Engineering-Systems Conference	Atrium 602
1:30p- 5:15p	Cotton Utilization Conference - Fabric Chemistry & Products Symposium	International A
1:30p- 6:00p	Cotton Insect Research & Control Conference – Session A	Marquis Imperial A
1:30p- 5:15p	Cotton Insect Research & Control Conference – Session B	Marquis 106-107
1:30p- 7:00p	Cotton Agronomy and Physiology Conference – Session A	International 9
1:30p- 5:40p	Cotton Utilization Conference - Nonwovens Symposium	International B
1:30p- 5:45p	Cotton Quality Measurements	International C
1:30p- 6:00p	Cotton Economics and Marketing Conference	International 1-2
1:30p- 6:00p	Cotton Ginning Conference	Atrium 601
1:30p- 6:00p	Cotton Improvement Conference	Marquis 103-105
1:30p- 6:00p	Cotton Weed Science Research Conference	International 7-8
1:30p- 6:00p	Cotton Soil Management & Plant Nutrition Conference	International 5-6
1:30p- 6:45p	Cotton Disease Council	International 3
2:00p- 5:30p	Cotton Agronomy and Physiology Conference – Session B	International 10
3:15p- 4:00p	Coffee Break	Marquis Imperial B
5:00p- 6:00p	Journal of Cotton Science Editorial Board	Lobby 508
5:30p- 6:30p	Cotton Industry Support Group Meeting	Atrium 601
6:30p- 9:00p	Joint Cotton Breeding Committee	Lobby 507
FRIDAY, JANUARY 7		
7:00a- 5:00p	Speaker Practice Room	Marquis 201
7:30a- 12:00p	Confex Presentation Uploading Room	Marquis 303
7:30a- 2:00p	Conference Registration NCC Membership Desk CEU Desk Internet Café	Marquis Foyer
7:45a- 12:30p	Cotton Weed Science Research Conference	International 7-8
8:00a- 9:30a	Spouse Hospitality	Atrium Pulse Loft
8:00a- 10:00a	Cotton Utilization Conference : Textile Technology Symposium	International A
8:00a- 10:00a	Cotton Engineering-Systems Conference	Atrium 602
8:00a- 10:15a	Cotton Disease Council	International 3
8:00a- 11:30a	Cotton Ginning Conference	Atrium 601
8:00a- 11:45a	Cotton Agronomy and Physiology Conference	International 9
8:00a- 12:00p	News Room	Marquis 301-302
8:00a- 12:00p	Poster Session	Marquis Imperial B
8:00a- 12:30p	Cotton Insect Research & Control Conf. – Session A	Marquis Imperial A
8:00a- 12:00p	Cotton Insect Research & Control Conf. – Session B	Marquis 106-107
8:00a- 10:00a	Cotton Insect Research & Control Conf. – Session C	Marquis 102
8:00a- 12:00p	Cotton Utilization Conference : Nonwovens Symposium	International B
8:00a- 1:00p	Cotton Craft Store	Marquis Ballroom Foyer
8:00a- 5:45p	Cotton Improvement Conference	Marquis 103-105
8:25a- 12:00p	Cotton Economics and Marketing Conference	International 1-2
10:00a- 10:30a	Coffee Break	Marquis/Atrium/International Foyers
10:30a- 12:00p	Joint Session – Cotton Quality Measurements and Utilization Conferences	International A
11:30a- 12:00p	Joint Engineering Systems/Ginning Conferences	Atrium 601
3:00p- 3:30p	Coffee Break	Marquis Foyer



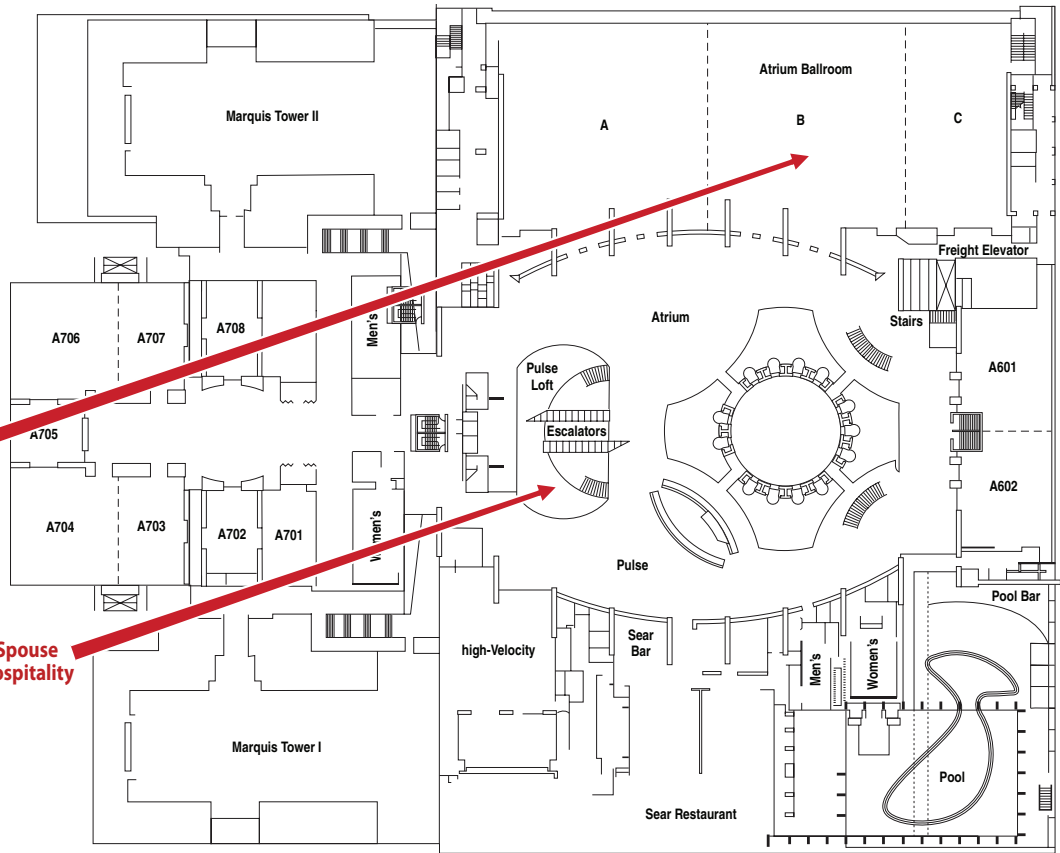
MEETING ROOM FLOOR PLANS

ATRIUM LEVEL

Atrium
Lobby
Marquis
International

Cotton Production
Conference General
Session

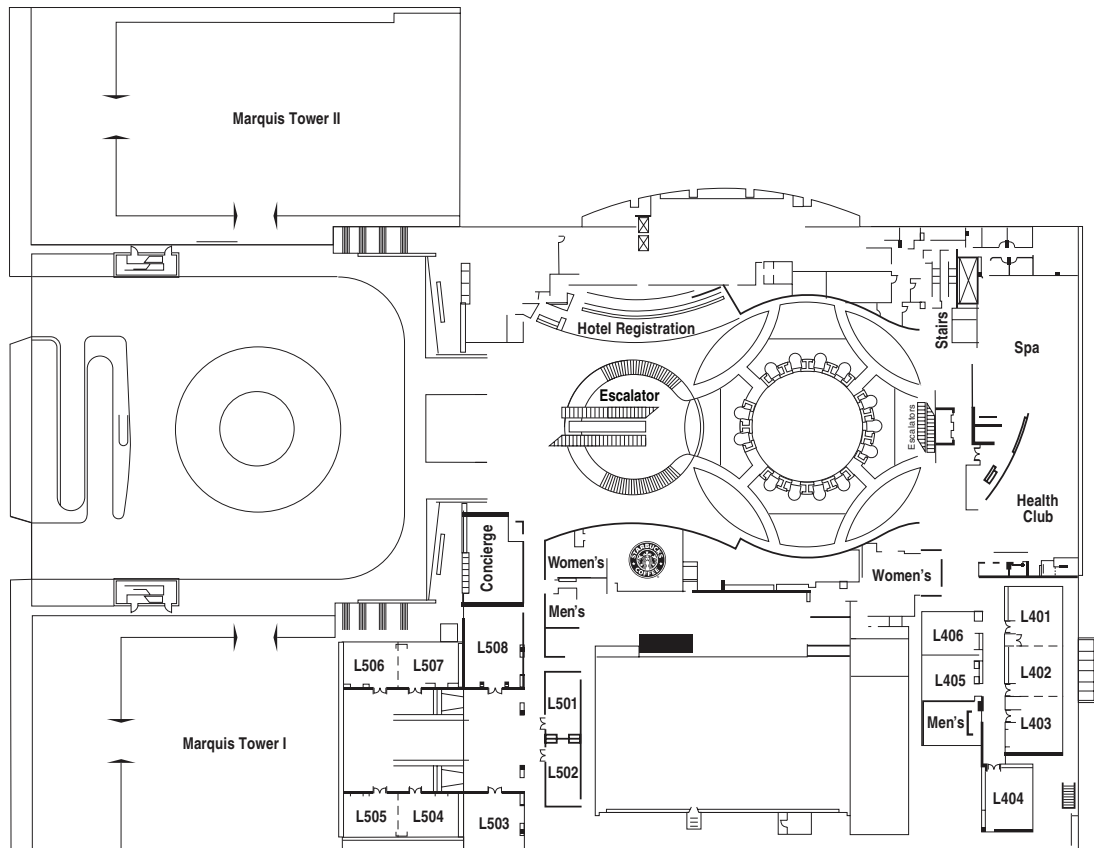
Spouse
Hospitality



LOBBY LEVEL

Atrium
Lobby
Marquis
International

Front
Entrance



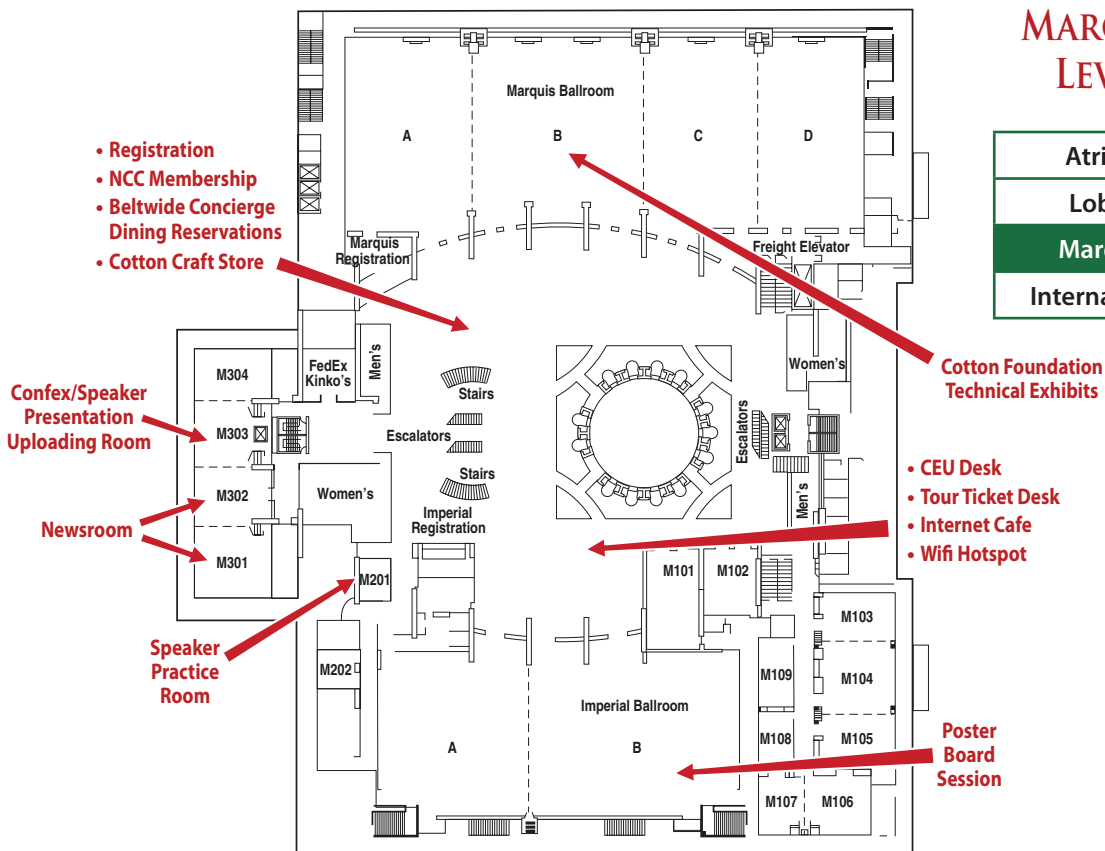


MEETING ROOM FLOOR PLANS

Schedule / Room Maps

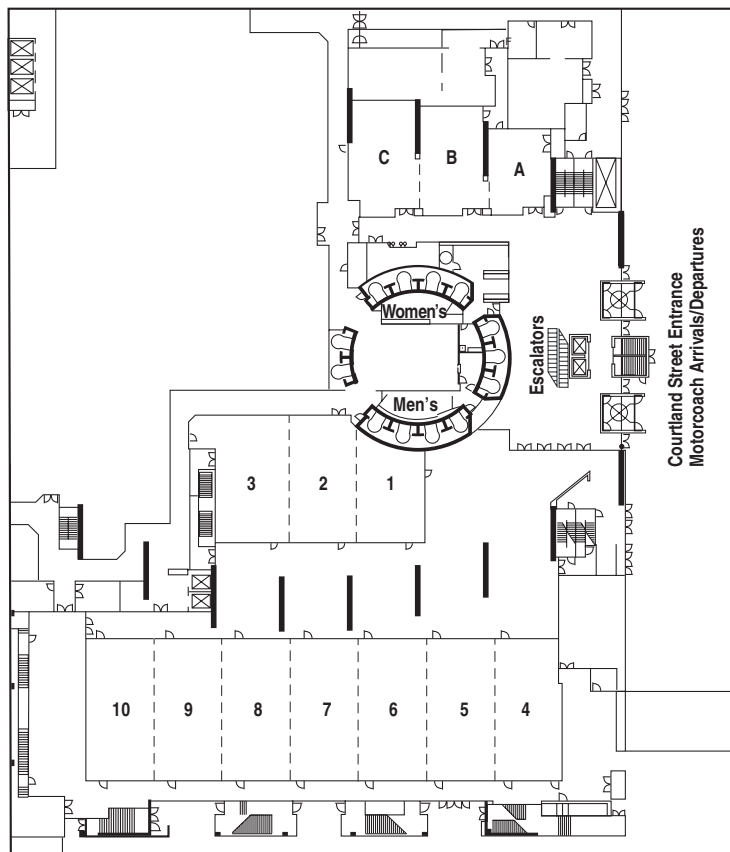
MARQUIS LEVEL

Atrium
Lobby
Marquis
International



INTERNATIONAL LEVEL

Atrium
Lobby
Marquis
International





ATLANTA AREA MAP

Schedule / Room Maps





SPOUSE PROGRAM AND TOUR

Tour Ticket Information

You are encouraged to reserve your tour tickets prior to your arrival. If minimum tour numbers are not met by the sign-up deadline of Tuesday, December 14, some tours may be canceled.

Pre-ordered and on-site tickets (based on availability) may be picked up at the Tour Ticket Desk located on the Marquis Level at the Atlanta Marriott Marquis Hotel.

Hospitality Room

A continental breakfast will be provided for all registered spouses in the Atlanta Marriott Marquis Hotel, Pulse Loft, Atrium Level, Wednesday – Friday, January 5-7, 8:00 – 9:30 a.m.

COOKING CLASS AND LUNCH WITH MARRIOTT MARQUIS CHEF

Wednesday, January 5
10:00 a.m. - 12:30 p.m.
\$46 per person

(15 person minimum - 30 person maximum)

Join Marriott Marquis' Senior Banquet Chef, April Shepperson, for an entertaining morning of food and fun. The epitome of Atlanta chic, the magnificent Atlanta Marriott Marquis will be the site of your chef instructed lunch.

April has worked in the culinary industry for over 15 years and worked for Marriott International for over 10 years. In addition to preparing banquet meals for convention groups such as the Belt-wide Cotton Conferences, April teaches evening courses at Emory University. She will share her knowledge and love of cooking while answering all your questions.

Following the cooking demonstration, you will end this experience by enjoying all three dishes that Chef April has prepared for you.

CHEF TO PREPARE:

- Shrimp And Corn Chowder
- Crab Cake Salad
- Key Lime Tarts

COOKING CLASS ORDER FORM

Download registration form and fax (credit card payment only) or mail to:

ATTN: Debbie Richter
National Cotton Council
7193 Goodlett Farms Parkway
Cordova, TN 38016

Fax: 901-725-0510

email: drichter@cotton.org



Courtesy of Gloval Events Partners Atlanta



Spouse Program

THE GOOD LIFE IN HISTORIC BUCKHEAD

Thursday, January 6
1 - 5 p.m

\$55 per person

(We must have 20 reservations by December 23 to avoid tour cancellation)

Buckhead is Atlanta's premier residential and shopping district, but it was not always so. In the 1850's, Buckhead was a spot on a rugged country trail where settlers and Indians sometimes crossed paths. A gentleman by the name of Irby had a store in the area, and being quite proud of a large buck he shot, he nailed the head on the side of his store. Thereafter, locals said "I'll meet you at the buck head" . . . and Buckhead was born.



Today, Atlantans are still saying "I'll meet you in Buckhead" because it is one of the most fashionable areas of the city. There are hundreds of beautiful homes and scores of interesting restaurants and shops . . . and though the buck

head is gone (but Irby Avenue is still there!) the legend lives on. You will get a taste of the good life in Buckhead as we visit some of the best it has to offer.

Visit the Atlanta History Center with its regal Swan House, quaint Tullie Smith House, and the Atlanta History Museum with the recently opened Centennial Olympic Games Exhibit. Although you won't find Tara inside the Atlanta History Museum, you will find remnants of the past and how they relate to the present success of Atlanta, the newest International City. Exhibits tracing Georgia's history from her humble beginnings as a frontier land where Indians and settlers crossed paths are on display. The trials and tribulations of the unknown soldiers who were forever changed by the Civil War are a haunting reminder of the past. From the heroic civil rights movement, to the cultural conglomeration and modernization of the Phoenix City, the Atlanta History Museum celebrates the cultivation of the South.



Guests will enjoy visiting the new Centennial Olympic Games Museum which opened at the Atlanta History Center on July 15, 2006. With its spectacular collection of multimedia

presentations, artifacts, images, and interactive displays, and a second level dedicated to an interactive Sports Lab, the Centennial Olympic Games Museum at the Atlanta History Center houses one of the most significant exhibitions on Olympic sport and history in the world.

Located in the new 27,500 square foot Fentener van Vlissingen Family Wing, the museum guides visitors through the history of the Olympic movement from the inception of the Olympic Games in ancient Greece to the history of the modern Olympic Games beginning in 1896, to the 17 days of the Centennial Olympic Games and their legacy.

The Tullie Smith House, an Atlanta "plantation plain style" farmhouse of the 1840's, has been completely restored and authentically furnished. It represents the type of "working plantation" one might have found around Atlanta before the Civil War and is a more realistic interpretation than Tara from "Gone with the Wind." You will enjoy browsing among the several outbuildings, including a wonderful detached kitchen, a blacksmith shop and stables.

The Swan House, a former private home, was built for Mr. Inman and his wife in 1929. Mr. Inman was one of the city's leading developers and one of the wealthiest citizens in the early part of the century. Beautiful landscaping and large-scale architecture depict the privileged lifestyle they led. The Swan motif appears in every room of this 1920's Phillip Schutze masterpiece as a symbol of graciousness and elegance.



Images courtesy of Global Events Partners Atlanta

Reserve your tickets:

www.cotton.org/beltwide/assets/website_documents/2011/buckhead-tickets.pdf

BELTWISE 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/2011/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/sessions 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.

4TH ANNUAL COTTON CONSULTANTS CONFERENCE

Tuesday, January 4, 2011

Cotton Consultants Lunch

International 4 - 6 — Noon-1:00 PM

Cotton Consultants Session

International 7 - 10 — 1:00 PM-6:00 PM

Presiding: Bob Griffin, Griffin Ag Consulting, Jonesboro, AR

1:00 PM Welcome - Bill Robertson, National Cotton Council, Cordova, TN

1:15 PM Season Overview

Texas - South

Paul Pilsner, Costal Ag Consulting Inc., San Benito, TX

Texas - High Plains

Brant Baugh, Extension Agent/IPM, Texas AgriLife Extension, Lubbock, TX

Mid-South

David Hydrick, Hydrick Crop Consulting, Inc., Jonesboro, AR

Southeast

Billy McLawhorn, McLawhorn Crop Services, Inc., Cove City, NC

Discussion

2:15 PM New Products/Technologies/Concerns

Nematodes/Disease

Robert C. Kemerait, University of Georgia Extension Service, Tifton, GA

Insects

Phillip Roberts, University of Georgia, Tifton, GA

Weeds

A. Stanley Culpepper, University of Georgia, Tifton, GA

3:00 PM Technology Showcase

International 1 - 3

4:00 PM Industry Update from Sponsors

Monsanto

David W. Albers, Monsanto, St. Louis, MO

Bayer CropScience

Andy Hurst, Bayer CropScience, RTP, NC

Syngenta Crop Protection

Keith Driggs, Syngenta Crop Protection, North Little Rock, AR

Dow AgroSciences

Joel C. Faircloth, Dow AgroSciences, Pfafftown, NC and Herbert Miller, Dow AgroSciences, Indianapolis, IN

5:00 PM Reception

6:00 PM Adjourn



56TH ANNUAL BELTWISE COTTON PRODUCTION CONFERENCE

PRODUCTION CONFERENCE - WEDNESDAY MORNING

Wednesday, January 5, 2011

Atrium Ballroom — 8:00 AM-10:00 AM

Presiding: Eddie Smith, Chairman, National Cotton Council, Floydada, TX

8:00 AM Introductory Remarks - Eddie Smith, Chairman, National Cotton Council, Floydada, TX

8:15 AM 2010 In Review
Guy D. Collins, University of Georgia, Tifton, GA

8:35 AM Southern Friends of IPM Pulling Together Award
Presenter: Stephen Toth, Associate Director, Southern Region IPM Center

8:40 AM Overview of Resistance Education - NCC
Don Parker, National Cotton Council, Cordova, TN

8:45 AM Overview of Resistance Education - WSSA
David Shaw, Mississippi State University, Mississippi State, MS

9:10 AM Washington Update
John Maguire, National Cotton Council, Washington, DC

9:30 AM Cotton's 2011 Market Outlook
T. Jordan Lea, President of ACSA and CEO of Eastern Trading, Greenville, SC

10:00 AM Adjourn



Production: Wednesday

56TH ANNUAL BELTWISE COTTON PRODUCTION CONFERENCE

WORKSHOPS AND SEMINARS

Wednesday, January 5, 2011

Wednesday Morning

INDUSTRY UPDATE: WHAT'S IN THE PIPELINE?**(Repeated on Thursday)****Atrium Ballroom — 10:30 AM-12:00 PM***Presiding: Chuck Coley, Producer, Vienna, GA*

Attendees will have the opportunity to hear from industry representatives regarding new technologies, chemistries, and other products that are in development and projected release dates. Industry members participating in this session include: Bayer CropScience, Dow AgroSciences, and Monsanto. This session will be repeated.

PRECISION AG - SPATIAL SAMPLING FOR COTTON PEST MANAGEMENT - BASIC AND INTERMEDIATE CONCEPTS**Marquis - 103 & 104 — 10:30 AM-12:00 PM**

Adopting a geographical perspective reduces sampling time for several cotton pests without loss of accuracy. Reasons why site-specific thresholds use sampling extremes instead of sample averages are discussed. Methods of zone delineation and interpretation will be described in relation to sampling site placement. Timing issues for sprays will be discussed on a field- and farm-scape scales.

Wednesday Afternoon

NEW DEVELOPMENTS FROM INDUSTRY - VARIETIES**Marquis Imperial A — 1:30 PM-3:30 PM****1:30 PM Advances in High Quality Conventional Cottons**

Gerald O. Myers¹, Fred Bourland², Peng W. Chee³, Jane K. Dever⁴, Steve Hague⁵, C. Wayne Smith⁵, Jinfa Zhang⁶, Eric F. Hequet⁷ and Don. C. Jones⁸, (1)LSU AgCenter, Baton Rouge, LA, (2)University of Arkansas - Northeast Research and Extension Center, Keiser, AR, (3)University of Georgia, Tifton, GA, (4)Texas AgriLife Research, Lubbock, TX, (5)Texas A&M University, College Station, TX, (6)New Mexico State University, Las Cruces, NM, (7)Fiber and Biopolymer Research Institute - Dept. Plant & Soil Science, Texas Tech University, Lubbock, TX, (8)Cotton Incorporated, Cary, NC

1:40 PM New Varieties for 2011 from All-Tex Seed**C. G. Cook**, All-Tex Seed, Victoria, TX**1:50 PM New Cotton Varieties for West Texas from Bayer CropScience****Kenny D. Melton**, Daniel B. Olivier, E. Margaret Shields, Steve D. Calhoun and David Becker, Bayer CropScience, Lubbock, TX**2:00 PM New Deltapine Class of 10 through Class of 12 Varieties for West Texas Markets**David W. Albers, Monsanto, St. Louis, MO and **Eric C. Best**, Monsanto, Lubbock, TX**2:10 PM New GlyTol® Varieties from Bayer CropScience, FM 9101GT and FM 9103GT****Daniel B. Olivier**, Kenny D. Melton, David Becker and E. Margaret Shields, Bayer CropScience, Lubbock, TX**2:20 PM PHY 367 WRF, an Early Maturing, Root Knot Nematode Tolerant Variety from PhytoGen Cottonseed / Dow AgroSciences**

S.W. Fuchs¹, J.C. Faircloth², S. M. Brown², A. Reed Parker³, Chad Brewer², Mustafa McPherson⁴ and D.W. Canfield⁵, (1)PhytoGen Cottonseed, Dow AgroSciences, San Angelo, TX, (2)PhytoGen Cottonseed, Dow AgroSciences, Indianapolis, IN, (3)Dow AgroSciences, Indianapolis, IN, (4)Phytogen Seed Company, LLC, Leland, MS, (5)Phytogen Cottonseed, Dow AgroSciences, Indianapolis, IN

2:30 PM Dyna-Gro 2450 B2RF: a New Early-Mid Maturity Variety with Bollgard II and Roundup Ready Flex Traits
Larry G. Stauber, Dyna-Gro Seed, Marion, AR**2:40 PM A New LLB2 Cotton Variety from Bayer CropScience**
Stephen D. Lee, Bayer CropScience, Jonesboro, AR, A. White, Bayer CropScience, McCarley, MS and S. Nichols, Bayer Crop Science, Lubbock, TX**2:50 PM NG 4010 B2RF****Doug Fairbanks**, Americot, Inc., Shallowater, TX**3:00 PM New Cotton Varieties from Bayer CropScience**

Kyle A. Fontenot, Bayer CropScience, West Monroe, LA, Kenny D. Melton, Bayer CropScience, Lubbock, TX and **Deborah Brickle Brown**, Bayer CropScience, Elgin, SC

3:10 PM NG 4012 B2RF**Tom Brooks**, Americot, Inc., Lubbock, TX**EXTENSION COTTON SPECIALISTS WORKSHOP****International 7 & 8 — 1:30 PM-3:30 PM****1:30 PM Cotton Response to Foliar Fungicides**

Jared R. Whitaker¹, Darrin M. Dodds², Christopher L. Main³, L. T. Barber⁴, R. K. Boman⁵ and Jason E. Woodward⁵, (1)University of Georgia, Statesboro, GA, (2)Mississippi State University, Mississippi State, MS, (3)University of Tennessee, Jackson, TN, (4)Division of Agriculture, University of Arkansas, Little Rock, AR, (5)Texas AgriLife Extension Service, Lubbock, TX

2:00 PM Cotton Cultivar Response to Nitrogen Fertilization

Christopher L. Main, University of Tennessee, Jackson, TN, L. T. Barber, Division of Agriculture, University of Arkansas, Little Rock, AR, Darrin M. Dodds, Mississippi State University, Mississippi State, MS, Keith L. Edmisten, North Carolina State University, Raleigh, NC, Michael A. Jones, Clemson University, Florence, SC, Gaylon Morgan, Texas AgriLife Extension, College Station, TX, R. K. Boman, Texas AgriLife Extension Service, Lubbock, TX, E. Randall Norton, University of Arizona, Safford, AZ, Shane Osborne, Oklahoma State University, Altus, OK, S. Duncan, Kansas State University, Manhattan, KS, Jared R. Whitaker, University of Georgia, Statesboro, GA and R. L. Nichols, Cotton Incorporated, Cary, NC

56TH ANNUAL BELTWISE COTTON PRODUCTION CONFERENCE

WORKSHOPS AND SEMINARS

Wednesday, January 5, 2011

IRRIGATION WORKSHOP - PAPERS

International 1 & 2 — 1:30 PM-3:30 PM

1:30 PM Cotton Water Relations from the Roots to the Stomata**Glen Ritchie**, University of Georgia - Soil and Crop Science Dept., Tifton, GA**1:50 PM Cotton Water Use and Yield in Response to Deficit Irrigation Strategies, Tillage, and Application Method****R. Louis Baumhardt** and Paul D. Colaizzi, USDA/ARS, Bushland, TX**2:10 PM Genesis of Shallow Subsurface Drip Irrigation (S³DI) for Row Crops in the Southeast****Ronald B. Sorensen**, USDA-ARS, National Peanut Research Laboratory, Dawson, GA

IRRIGATION WORKSHOP - POSTERS

International 3 — 1:30 PM-3:30 PM

1. Mississippi Web-Based Irrigation Scheduling Tool**Gretchen F. Sassenrath**, USDA-ARS, Stoneville, MS and Amy M. Schmidt, Mississippi State Extension Service, Mississippi State, MS**2. Online Irrigation Scheduling Tools for Cotton****Carlos J. Fernandez**, Texas AgriLife Research and Extension Center, Corpus Christi, TX**3. Irrigator Pro for Cotton: a Windows Based Irrigation Scheduling Software Package****Marshall C. Lamb**, USDA-ARS, National Peanut Research Laboratory, Dawson, GA**4. Water and Irrigation Management in Arizona Cotton Production Systems****R. Norton**, University of Arizona, Safford, AZ**5. Variable-Rate Irrigation Management Using Irrigator-Pro****Ken C. Stone**, P.J. Bauer and W.J. Busscher, USDA-ARS, Florence, SC**6. California Approaches to Irrigation Management****Dan S. Munk**, Fresno, CA and R.B. Hutmacher, University of California - Davis, Davis, CA

COTTON CROP INSURANCE WORKSHOP

International 5 & 6 — 1:30 PM-2:30 PM

*Presiding: Gary Adams, National Cotton Council, Cordova, TN***1:30 PM Review of Cotton Combo Crop Insurance Policy Provisions****Michael Moore**, Regional Director, USDA Risk Management Agency, Valdosta, GA**2:00 PM Review of Cottonseed Insurance Product****Shawn Wade**, Communications Director, Plains Cotton Growers, Inc., Lubbock, TX**2:20 PM Questions and Answers**

WHAT'S GOING ON WITH DUAL GENE BT COTTON? WHY ARE WE SPRAYING MORE FOR CATERPILLAR CONTROL?

Atrium - 706 & 707 — 1:30 PM-6:00 PM

1:30 PM Introductory Remarks - Don Parker, National Cotton Council, Cordova, TN

UNIVERSITY AND USDA-ARS PANEL PRESENTATIONS

1:35 PM First Hand Experiences with Dual Bt Cottons in the MidSouth**J. Gore**¹, **Angus Catchot**², **D. R. Cook**¹, **Gus M. Lorenz**³, **B.R. Leonard**⁴ and **Scott D. Stewart**⁵, (1)Mississippi State University, Stoneville, MS, (2)Mississippi State University, Mississippi State, MS, (3)University of Arkansas Cooperative Extension Service, Little Rock, AR, (4)LSU AgCenter, Macon Ridge Research Station, Winnsboro, LA, (5)The University of Tennessee, Jackson, TN**1:50 PM First Hand Experiences with Dual Bt Cottons in the Southeast****Jeremy K. Greene**, Clemson University, Blackville, SC**2:05 PM Increased Survival of Bollworms on Bollgard II Cotton Compared to Lab Based Colony****R. E. Jackson**, USDA-ARS, SIMRU, Stoneville, MS, **Angus Catchot**, Mississippi State University, Mississippi State, MS, **J. Gore**, Mississippi State University, Stoneville, MS and **Scott D. Stewart**, The University of Tennessee, Jackson, TN**2:20 PM Farmscape Changes Affecting Bollworms in Bt Cottons****Roger Leonard**, Louisiana State University, Winnsboro, LA**2:35 PM University and USDA-ARS Panel Discussion****3:05 PM Cotton Consultants Panel Presentations and Discussion****3:30 PM Break**

INDUSTRY PANEL PRESENTATIONS

4:00 PM Monsanto Co. Technical Presentation**4:15 PM Dow AgroScience Technical Presentation****4:30 PM Industry Panel Discussion and New Bt Cottons in Development (Monsanto Co., Dow AgroScience, and Bayer CropScience)****5:00 PM Final Question and Answer Session**

COTTON OPTIONS WORKSHOP

International 5 & 6 — 2:30 PM-6:00 PM

Presiding: John R. C. Robinson, Texas A&M University, Department of Agricultural Economics, 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 part will

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be 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 time 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 2011/12 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.

NEW DEVELOPMENTS FROM INDUSTRY - VARIETIES, CHEMISTRY, EMERGING TECHNOLOGY, AND EQUIPMENT

Marquis Imperial A — 4:00 PM-5:40 PM

4:00 PM DP1133 BZRF: a New Deltapine Class of 11 Variety
David W. Albers, Monsanto, St. Louis, MO

4:10 PM PHY 565 WRF, a Mid - Full Maturing Variety from PhytoGen Cottonseed / Dow AgroSciences

A. Reed Parker¹, Joel Faircloth², S. M. Brown³, S.W. Fuchs⁴, Chad Brewer³, Joseph T. Johnson³ and D.W. Canfield⁵, (1)Dow AgroSciences, Indianapolis, IN, (2)Dow Agrosciences, Collierville, TN, (3)PhytoGen Cottonseed, Dow AgroSciences, Indianapolis, IN, (4)PhytoGen Cottonseed, Dow AgroSciences, San Angelo, TX, (5) Phytogen Cottonseed, Dow AgroSciences, Indianapolis, IN

4:20 PM DP1137 BZRF: a New Deltapine Class of 11 Variety
David W. Albers, Monsanto, St. Louis, MO

4:30 PM PHY 569 WRF, a New Mid to Full Maturity Variety from PhytoGen Cottonseed / Dow AgroSciences

Steven M. Brown¹, Joel C. Faircloth², Scott W. Fuchs¹, A. Reed Parker¹, Frank C. Bordelon¹ and Joseph T. Johnson¹, (1)PhytoGen Cottonseed, Dow AgroSciences, Indianapolis, IN, (2)Dow AgroSciences, Pfafftown, NC

4:40 PM New 915 Hooded Sprayer Designed to Fight Resistant Weeds

Steve D. Woodham, Willmar Fabrication, LLC, Thomasville, GA and Steve W. Claussen, Willmar Fabrication, LLC, Willmar, MN

4:50 PM Belay® Insecticide, a New Insecticide for Cotton

Mike Ansolabehere, Valent U.S.A. Corporation, Fresno, CA, Frank Carey, Valent USA, Olive Branch, MS, Patrick A. Clay, Valent U.S.A. Corporation, Maricopa, AZ, John Cranmer, Valent USA Company, Cary, NC, Carlos Granadino, Valent U.S.A. Corporation, Germantown, TN, Bill Odle, Valent USA, Richardson, TX and Jeffery Smith, Valent USA, Gilbert, AZ

5:00 PM Bidrin XP: New Co-Formulated Blend of Dicrotophos and Bifenthrin

Paul D. Vaculin, AMVAC Chemical Corporation, Collierville, TN

5:10 PM In-Crop Weed Control and Crop Safety in Cotton with Warrant Herbicide, a New Tool for Weed Management

Luke M. Etheredge, Monsanto, Llano, TX, Dennis H. Williamson, Monsanto, Wilson, NC and Shea W. Murdock, Monsanto, St. Louis, MO

5:20 PM Temperature Flow and Pressure Monitoring Helps Keep Producton at Maximum Rate

Michael Gvili, Advanced Sensing And Controls Inc., Hudson, MA

5:30 PM RapidEye and the Red Edge

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

SUSTAINABILITY, NATURAL RESOURCE CONSERVATION AND FARM PROFITABILITY

International 9 & 10 — 4:00 PM-6:00 PM

Efforts by the National Cotton Council, Cotton Incorporated, USDA's National Resource Conservation Service and other producer, agribusiness, and conservation organizations are successfully raising recognition of agriculture's strong record of improved conservation through the Field to Market Alliance. Recent studies conducted on behalf of Field to Market members have documented agriculture's improved "footprint" through the adoption of efficient and environmentally responsible production practices. Specific work includes information on cotton production that will be discussed. This workshop will introduce Field to Market and the information being developed on behalf of production agriculture to tell our sustainability story. There will also be a demonstration of a tool for farmers to readily assess their farm's "Fieldprint" and discover how this connects to improved farm profitability from efficiency gains along with providing access to conservation programs that can further improve a farm's long-term profitability.

Formal presentations will be made by the following speakers at designated stations regarding their involvement with Field to Market:

- Sarah Alexander, Director of Sustainability and Leadership Programs, The Keystone Center, Keystone, CO
- Kevin Norton, State Conservationist, USDA/NRCS, Alexandria, LA
- Joe Russo, President, ZedX, Inc., Bellefonte, PA

Hands on demonstration of the Field to Market Grower Tool will be available to attendees to round out the workshop.

Presentations will begin shortly after 4:00 pm and rotate to the various speakers. Attendees will have an opportunity to visit with speakers between presentations.

PRECISION AG - INTEGRATION OF SPATIAL INFORMATION FOR IMPLEMENTATION OF COTTON PEST MANAGEMENT - ADVANCED CONCEPTS AND PROCEDURES

Marquis - 103 & 104 — 4:00 PM-6:00 PM

The mechanics of geographically-based field sampling using imagery is described and differences between a field-average threshold and a site-specific threshold are explained. Building a site-specific cotton pesticide application map based on field counts will be illustrated for controlling costs. Issues with application delivery at management zone interfaces or zones of uncertainty will be discussed. Concepts will be presented as modules allowing various levels of investment of a precision agricultural system.

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WORKSHOPS AND SEMINARS

Thursday, January 6, 2011

Thursday Morning

WEED & RESISTANCE MANAGEMENT WORKSHOP

Atrium A — 8:00 AM-10:00 AM

8:00 AM **Welcome and Introduction****Ken Smith**, University of Arkansas Division of Agriculture, Monticello, AR8:10 AM **Combating Resistant Weeds While Preserving Conservation Programs****Norman Widman**, National Agronomist, USDA-NRCS, Washington, DC8:30 AM **Commitment from the Agriculture Industry to Provide Effective Herbicide Tools****Thomas J. Holt**, President SWSS and Manager Biology, BASF Corporation, Research Triangle Park, NC8:50 AM **Your Resistance Commodity Dollars****Don Parker**, National Cotton Council, Cordova, TN and Robert L. Nichols, Cotton Incorporated, Cary, NC9:20 AM **Answers from Your University Weed Scientists****Larry Steckel**, The University of Tennessee, Jackson, TN9:40 AM **Questions and Closing Comments****Ken Smith**, University of Arkansas Division of Agriculture, Monticello, AR

COTTON ECONOMIC OUTLOOK SYMPOSIUM

Atrium - 706 & 707 — 10:30 AM-12:00 PM

*Presiding: Carol Skelly, USDA World Agricultural Outlook Board, Washington, DC*10:30 AM **Welcoming Remarks**10:35 AM **Cotton Marketer of the Year Award**10:45 AM **The Outlook for Cotton: Macroeconomic and Policy Factors****Terry Barr**, CoBank, Washington, DC11:05 AM **Prospects for U.S. and World Cotton Supply and Demand in 2011/12****Jarral Neeper**, Calcot, LTD., Bakersfield, CA11:25 AM **U.S. Area and Prices in the up Market: How Will Producers Respond?****John Robinson**, Texas A&M University, College Station, TX11:45 AM **Questions and Answers**

COTTON FLOWERING AND FRUITING

International 9 — 10:30 AM-12:00 PM

10:30 AM **Anatomy and Morphology of Fruiting Forms****Jack Mauney**, Jarman Enterprises, Mesa, AZ10:45 AM **Photosynthesis and Carbon Partitioning (Source-Sink Relationships)****William T. Pettigrew**, USDA-ARS, Stoneville, MS11:00 AM **Management and Environmental Effects on Fruiting****K. Raja Reddy**, Mississippi State University, Mississippi State, MS11:15 AM **Modification of Cotton Flowering and Fruiting with PGRs****J. Tom Cothren**, Texas AgriLife Research, College Station, TX

COTTON INSECT RESEARCH AND CONTROL - PRODUCER'S ROUNDTABLE

Marquis Imperial A — 10:30 AM-12:00 PM

Facilitated small group discussion and one-on-one interaction with cotton experts and other attendees will provide an opportunity to learn from the success of others in the area of insect management.

COTTON SOIL MANAGEMENT AND PLANT NUTRITION - SPECIAL SESSION

International 5 & 6 — 10:30 AM-12:00 PM

*Presiding: Steve Phillips, IPNI, Owens Cross Roads, AL*10:30 AM **Evaluation of Enhanced Efficiency Nitrogen Fertilizers for Cotton and Corn Production****M. Mozaffari**, University of Arkansas, Marianna, AR, Tina Gray Teague, Arkansas State University - University of Arkansas Agricultural Experiment Station, State University, AR and N. A. Slaton, University of Arkansas, Fayetteville, AR11:00 AM **Petiole Testing and Foliar Feeding Cotton****Glendon H. Harris**, University of Georgia, Tifton, GA11:30 AM **Variable Rate Application of Nitrogen on Georgia Cotton****George Vellidis**, Glen Ritchie, Heather Savelle and Glendon H. Harris, University of Georgia, Tifton, GA

COTTON UTILIZATION CONFERENCE: A LOOK INTO THE FUTURE

International B — 10:30 AM-12:00 PM

*Presiding: Alfred D. French, USDA-ARS, SRRC, New Orleans, LA*10:30 AM **Introductory Remarks**10:40 AM **Cotton's Share of the Global Fiber Market: Current Challenges and Future Outlook****Mark A. Messura**, Cotton Incorporated, Cary, NC11:10 AM **Cotton and Interactive Textiles: A Harmonious Relationship****Sundaresan Jayaraman**, Georgia Institute of Technology, Atlanta, GA

COTTON WEED SCIENCE RESEARCH - SPECIAL SESSION

International 7 & 8 — 10:30 AM-12:00 PM

10:30 AM **Glyphosate-Resistant Palmer Amaranth Gaining a Foothold in Alabama****Charles H. Burmester**, Auburn University, Tennessee Valley Regional Res and Ext Ctr, Belle Mina, AL and Michael G. Patterson, Auburn University, Auburn University, AL11:00 AM **Rethinking Weed Control: Resistance Management and Emphasis on the Soil Seedbank****Jason K. Norsworthy**, University of Arkansas, Fayetteville, AR11:30 AM **Developing a Herbicide Resistant Weed Management Plan****Eric Prostko**, University of Georgia, Tifton, GA

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WORKSHOPS AND SEMINARS

Thursday, January 6, 2011

INDUSTRY UPDATE: WHAT'S IN THE PIPELINE? (Repeat of Wednesday)

Atrium A — 10:30 AM-12:00 PM

Presiding: Kenneth Hood, Producer, Gunnison, MS

Attendees will have the opportunity to hear from industry representatives regarding new technologies, chemistries, and other products that are in development and projected release dates. Industry members participating in this session include: Bayer CropScience, Dow AgroSciences, and Monsanto.

THE IMPACT OF LOSING TEMIK 15G AND FUTURE PROSPECTS FOR NEMATODE MANAGEMENT

International 3 — 10:30 AM-12:00 PM

10:30 AM Temik 15G: Its Past and Future

Lee Hall, Bayer CropScience, RTP, NC

10:45 AM The Use of Temik 15G on Cotton and Soybean in the Southeast

John D. Mueller, Clemson University, Blackville, SC

11:00 AM The Impact of Temik 15G on the Southern High Plains of Texas

Kerry Siders, Texas AgriLife Extension, Levelland, TX

11:15 AM The Importance of Temik 15G for Crops in the Midsouth

T.L. Kirkpatrick, University of Arkansas, Hope, AR and Charles Overstreet, LSU Agricultural Center, Department of Plant Pathology and Crop Physiology, Baton Rouge, LA

11:30 AM Nematode Management After Temik - - - New and Revised Strategies in Identification and Control

Scott Monfort, University of Arkansas Cooperative Extension Service, Lonoke, AR

11:45 AM Host Plant Resistance for Reniform and Root-Knot Nematode Management in Cotton

Richard F. Davis, USDA-ARS, Tifton, GA



TECHNICAL CONFERENCES PROGRAM

65TH ANNUAL COTTON AGRONOMY & PHYSIOLOGY CONFERENCE

Thursday, January 6, 2011

Thursday Morning

COTTON FLOWERING AND FRUITING

International 9 — 10:30 AM-12:00 PM

10:30 AM Anatomy and Morphology of Fruiting Forms

Jack Mauney, Jarman Enterprises, Mesa, AZ

10:45 AM Photosynthesis and Carbon Partitioning (Source-Sink Relationships)

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

11:00 AM Management and Environmental Effects on Fruiting

K. Raja Reddy, Mississippi State University, Mississippi State, MS

11:15 AM Modification of Cotton Flowering and Fruiting with PGRs

J. Tom Cothren, Texas AgriLife Research, College Station, TX

Thursday Afternoon

THURSDAY EARLY AFTERNOON - SESSION A

International 9 — 1:30 PM-3:30 PM

1:30 PM Variability in Fiber Quality

Gayle Davidonis, USDA, ARS Retired, Fuquay-Varina, NC

2:00 PM Lint Yield and Crop Maturity Responses to Supplemental Irrigation in Tennessee

C. Owen Gwathmey¹, **Brian G. Leib²** and **Christopher L. Main¹**, (1) University of Tennessee, Jackson, TN, (2) University of Tennessee - Biosystems Engineering & Soil Science, Knoxville, TN

2:15 PM Improving the Production and Drought Tolerance of Cotton through the Use of Conservation Tillage and Primed Acclimation

Diane L. Rowland, University of Florida, Gainesville, FL, **Wilson H. Faircloth**, USDA-ARS, National Peanut Research Lab, Dawson, GA, **Paxton Payton**, USDA/ARS, Lubbock, TX, **Jack Shallock**, Texas A&M University, Uvalde, TX and **Cristine Morgan**, Texas A&M University, Soil & Crop Sciences Department, College Station, TX

2:30 PM Cotton Irrigation Regimes Alter Accumulation of Canopy Temperature-Based Heat Units

James R. Mahan, USDA-ARS, Lubbock, TX and **Andrew Young**, Plant and Soil Science Texas Tech University, Lubbock, TX

2:45 PM Short Season Management Practices with Pima Cotton

Robert B. Hutmacher¹, **Steven D. Wright²**, **Mark P. Keeley³**, **Gerardo Banuelos²** and **Raul Delgado⁴**, (1) University of California - Davis & West Side REC, Five Points, CA, (2) University of California Cooperative Extension, Tulare, CA, (3) Univ. of California, Shafter, CA, (4) University of California, Shafter, CA

3:00 PM Continued Investigations into Water Savings Through Conservation Tillage

Wilson H. Faircloth, USDA-ARS, National Peanut Research Lab, Dawson, GA and **Diane L. Rowland**, University of Florida, Gainesville, FL

3:15 PM Impact of Tillage Treatments Across Subsurface Drip Irrigation Levels in the Texas Rolling Plains

Paul B. DeLaune, John W. Sij, S. Park and D. Jones, Texas AgriLife Research, Vernon, TX

THURSDAY EARLY AFTERNOON - SESSION B - GRADUATE STUDENT COMPETITION

International 10 — 2:00 PM-3:15 PM

2:00 PM A Hydroponic Approach to Evaluate Responses to Salinity Stress in Cotton

M. N. Castillo¹, **Jane Dever¹** and **Dick Auld²**, (1) Texas Agricultural Experiment Station, Lubbock, TX, (2) Texas Tech University, Lubbock, TX

2:15 PM Effect of 1-Methylcyclopropene on High Temperature Stressed Cotton During Reproductive Development

Justin B. Phillips, **Derrick M. Oosterhuis** and **Eduardo M. Kawakami**, University of Arkansas, Fayetteville, AR

2:30 PM The Effect of Water-Deficit Stress on the Biochemistry of the Cotton Flower

Dimitra A. Loka and **Derrick M. Oosterhuis**, University of Arkansas, Fayetteville, AR

2:45 PM Drought Stress Alters Cotton Yield and Fiber Quality

Suresh Lokhande and **K. Raja Reddy**, Mississippi State University, Mississippi State, MS

3:00 PM Evaluation of Water Use Efficiency, Yield Stability and Fiber Quality in Upland Cotton Cultivars

Matthew Stroud, Texas Tech University, Lubbock, TX

THURSDAY LATE AFTERNOON - SESSION B - GRADUATE STUDENT COMPETITION

International 10 — 4:00 PM-5:30 PM

4:00 PM Physiology and Yield Responses of Cotton to Foliar Urea with NBPT

Eduardo Kawakami and **Derrick M. Oosterhuis**, University of Arkansas, Fayetteville, AR

4:15 PM Evaluation of Cotton Pesticides and Plant Growth Regulators in Situations Where Spray Application is Delayed

Peter Eure, **D.L. Jordan**, **J.S. Bachelier**, **A.C. York**, **L.R. Fisher**, **R. Seagroves** and **J. Hinton**, North Carolina State University, Raleigh, NC

4:30 PM Using Leaf Petiole Analysis to Monitor Cotton Nutrition

Seth Holt¹, **Keith Edmisten¹**, **Randy Wells²**, **Bill Foote¹**, **James Lanier¹**, **Guy Collins³** and **Ranjit Riari¹**, (1) North Carolina State University, Raleigh, NC, (2) NC State University, Raleigh, NC, (3) University of Georgia, Tifton, GA

4:45 PM Cotton Fruiting Duration of Four Cultivars and Two Irrigation Regimes

Matthew Wiggins¹, **Christopher L. Main¹**, **Keith L. Edmisten²**, **Glen Ritchie³**, **J.C. Faircloth⁴**, **S. M. Brown⁴** and **S.W. Fuchs⁵**, (1) University of Tennessee, Jackson, TN, (2) North Carolina State University, Raleigh, NC, (3) University of Georgia, Tifton, GA, (4) PhytoGen Cottonseed, Dow AgroSciences, Indianapolis, IN, (5) PhytoGen Cottonseed, Dow AgroSciences, San Angelo, TX

TECHNICAL CONFERENCES PROGRAM

65TH ANNUAL COTTON AGRONOMY & PHYSIOLOGY CONFERENCE

Thursday, January 6, 2011 and Friday January 7, 2011

5:00 PM Mepiquat Chloride Confounds Sensor Based Nitrogen Recommendations

Bill Foote¹, K. L. Edmisten¹, Guy D. Collins², G. T. Roberson¹, Seth Holt¹, Luke O'Neal¹ and J. E. Lanier¹, (1)North Carolina State University, Raleigh, NC, (2)University of Georgia, Tifton, GA

5:15 PM Characterization of Cotton Leaf miRNAs and Changes in miRNA Expression Associated with Heat Stress in Cotton as Determined by Deep Sequencing

Hongtao Hu¹, Nardendra K. Singh¹, David Weaver², Shankar Pant¹, Min Zhong¹, **Chia Chen Weng**¹ and Robert Locy¹, (1)Auburn University, Auburn, AL, (2)Auburn University, Auburn University, AL

THURSDAY LATE AFTERNOON - SESSION A

International 9 — 4:00 PM-7:00 PM

4:00 PM Response of Deltapine Class of '09 and '10 Varieties to Irrigation Levels in West Texas

David W. Albers, Monsanto, St. Louis, MO, **Douglas J. Jost**, Monsanto, Garden City, TX and Eric C. Best, Monsanto, Lubbock, TX

4:15 PM Evaluating Performance of Cotton Varieties in Georgia Based on Vegetative Growth, Fruiting Distribution, and Maturity

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

4:30 PM Estimating Yield Potential by Planting Date Utilizing Observed Data from the Arkansas Cotton Research Verification Program

Terry Griffin, University of Arkansas Division of Agriculture, Little Rock, AR, Blake McClelland, University of Arkansas Division of Agriculture, Keiser, AR and L. T. Barber, Division of Agriculture, University of Arkansas, Little Rock, AR

4:45 PM Evaluation of Cantaloupe and Cotton Intercropping to Determine Economic Feasibility and Growth Compatibility

T. Brian Tankersley¹, Guy D. Collins², Phillip Roberts², Jill Elana Chafin² and Amanda R. Smith², (1)UGA Cooperative Extension -Tift County, Tifton, GA, (2)University of Georgia, Tifton, GA

5:00 PM Plant Growth Regulator Effects on New Cotton Cultivars

Blake McClelland, University of Arkansas Division of Agriculture, Keiser, AR, L. Tom Barber, Division of Agriculture, University of Arkansas, Little Rock, AR, Darrin M. Dodds, Mississippi State University, Mississippi State, MS and Chris L. Main, University of Tennessee, Jackson, TN

5:15 PM Defining Optimal PGR Management Strategies and Plant Populations for New Cotton Varieties in Georgia

Guy D. Collins¹, Jared R. Whitaker², Glen L. Ritchie¹ and Curtis Majeski¹, (1)University of Georgia, Tifton, GA, (2)University of Georgia, Statesboro, GA

5:30 PM Physiology Conference Business Meeting

Friday Morning

FRIDAY EARLY MORNING - SESSION A

International 9 — 8:00 AM-9:45 AM

8:00 AM Controlled Release Nitrogen Fertilizers for Cotton Production

D.J. Dunn, Andrea Jones and Gene Stevens, University of Missouri-Delta Center, Portageville, MO

8:15 AM Geminivirus-Mediated Delivery of Florigen to Ancestral Cotton Uncouples Flowering from Photoperiod and Promotes Determinate Growth

Roisin C. McGarry and **Brian G. Ayre**, University of North Texas, Denton, TX

8:30 AM Impacts of Winter Grazing on the Following Cotton Crop

David L. Wright, J. J. Marois and Gueorgui Anguelov, University of Florida, Quincy, FL

8:45 AM Cotton Plant Growth and Yield Enhancement by Lipo-Chitooligosaccharide (LCO)

Roger Bowman¹, Bret Gygi², Patrick Reed², Stew Smith³ and Ahsan Habib³, (1)EMD Crop BioScience, Munford, TN, (2)EMD Crop BioScience, Brookfield, WI, (3)EMD Crop BioScience, Milwaukee, WI

9:00 AM Incorporation of Hourly Weather Input Data to Cotton2K

Jill Booker¹, R. J. Lascano¹ and J.D Booker², (1)USDA-ARS, Lubbock, TX, (2)Texas Tech University, Lubbock, TX

9:15 AM Water Use Efficiency of Furrow Diked and Conventionally Tilled Cotton

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

9:30 AM Agronomic Performance of Varieties Tolerant to Glufosinate Herbicide

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

FRIDAY LATE MORNING - SESSION A

International 9 — 10:30 AM-11:45 AM

10:30 AM Results of Student Oral and Poster Competitions

11:00 AM 2010 Outstanding Physiology Research Awards



TECHNICAL CONFERENCES PROGRAM

71ST ANNUAL COTTON DISEASE COUNCIL

Thursday, January 6, 2011

Thursday Morning

THE IMPACT OF LOSING TEMIK 15G AND FUTURE PROSPECTS FOR NEMATODE MANAGEMENT

International 3 — 10:30 AM-12:00 PM

10:30 AM Temik 15G: Its Past and Future

Lee Hall, Bayer CropScience, Rtp, NC

10:45 AM The Use of Temik 15G on Cotton and Soybean in the Southeast

John D. Mueller, Clemson University, Blackville, SC

11:00 AM The Impact of Temik 15G on the Southern High Plains of Texas

Kerry Siders, Texas AgriLife Extension, Levelland, TX

11:15 AM The Importance of Temik 15G for Crops in the Midsouth

T.L. Kirkpatrick, University of Arkansas, Hope, AR and Charles Overstreet, LSU Agricultural Center, Department of Plant Pathology and Crop Physiology, Baton Rouge, LA

11:30 AM Nematode Management After Temik - - - New and Revised Strategies in Identification and Control

Scott Monfort, University of Arkansas Cooperative Extension Service, Lonoke, AR

11:45 AM Host Plant Resistance for Reniform and Root-Knot Nematode Management in Cotton

Richard F. Davis, USDA-ARS, Tifton, GA

Thursday Afternoon

THURSDAY EARLY AFTERNOON - STUDENT PAPER COMPETITION

International 3 — 1:30 PM-3:15 PM

Presiding: Terry L. Kirkpatrick, University of Arkansas, SWREC, Hope, AR

1:30 PM Induced Resistance to Root-Knot and Reniform Nematodes in Cotton

Sudarshan Aryal¹, Richard F. Davis², Patricia Timper³, Katherine Stevenson¹ and Pingsheng Ji¹, (1)University of Georgia, Dept. of Plant Pathology, Tifton, GA, (2)USDA-ARS, Tifton, GA, (3)USDA-ARS, Tifton, GA

1:45 PM Initial Response of Soybean Mosaic Virus, Bean Pod Mottle Viruses and Rotylenchulus Reniformis on Soybean

Ben Ballard, K. S. Lawrence, E. J. Sikora and J. F. Murphy, Auburn University, Auburn University, AL

2:00 PM Fusarium Wilt Identification and Root-Knot Nematode Effects on Commercial Cotton Cultivars in 2010

Tamara Scott, K. S. Lawrence, J. D. Castillo and K. M. Glass, Auburn University, Auburn, AL

2:15 PM Impact of Cotton Cultivar Selection on Fusarium Oxysporum f. sp. Vasinfectum Density and Fusarium Wilt Development

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

2:30 PM Effects of Soil Type on the Reproductive Potential of Rotylenchulus reniformis on Cotton

Scott R. Moore and K. S. Lawrence, Auburn University, Auburn University, AL

2:45 PM Effects of Soil Practice and Two Soilborne Pathogens on Root Morphology of Cotton in the Field

Jianbing Ma¹, Juan Jaraba¹, T.L. Kirkpatrick² and C.S Rothrock¹, (1) University of Arkansas, Fayetteville, AR, (2)University of Arkansas, Hope, AR

3:00 PM Evaluation of Bacillus Firmus (Votivo®) and Paecilomyces Lilacinus Strain 251 (NemOut®) for the Biocontrol of Reniform Nematode Rotylenchulus Reniformis

J. D. Castillo, Kathy Lawrence and Joseph Kloepper, Auburn University, Auburn, AL

THURSDAY LATE AFTERNOON

International 3 — 4:00 PM-6:00 PM

Presiding: Robert C. Kemeraite, University of Georgia Extension Service, Tifton, GA

4:00 PM Yield Drag Associated with Resistance to Root-Knot Nematodes in High-Yielding Cotton Germplasm

Richard F. Davis¹, Peng W. Chee² and Edward L. Lubbers², (1)USDA-ARS, Tifton, GA, (2)University of Georgia, Tifton, GA

4:15 PM Efficacy of PHY367WRF in Root-Knot Nematode Infested Fields

Mustafa McPherson, Phytogen Seed Company, LLC, Leland, MS and **Dru Rush**, Phytogen Seed Company, LLC, Brewton, AL

4:30 PM Prevalence of Pasteuria Sp. on Reniform Nematode in a Georgia Cotton Field

Patricia Timper, USDA ARS, Tifton GA, Tifton, GA, Richard F. Davis, USDA-ARS, Tifton, GA and Sudarshan Aryal, University of Georgia, Dept. of Plant Pathology, Tifton, GA

4:45 PM Importance of Fungal Pathogens in Stunting of Lonren Cotton Lines Grown in Reniform Nematode-Infested Fields

Alois A. Bell¹, Xiuting Zheng², David M. Stelly² and Robert L. Nichols³, (1)USDA-ARS-SPARC, College Station, TX, (2)Texas A&M University, College Station, TX, (3)Cotton Incorporated, Cary, NC

5:00 PM Break

5:15 PM Business meeting

TECHNICAL CONFERENCES PROGRAM

71ST ANNUAL COTTON DISEASE COUNCIL

Friday, January 7, 2011

Friday Morning

FRIDAY EARLY MORNING

International 3 — 8:00 AM-10:15 AM

Presiding: Terry A. Wheeler, Texas AgriLife Research, Lubbock, TX

8:00 AM The What, When and Where of Poncho®/VOTiVO™

Jennifer L. Riggs and Kevin Bugg, Bayer CropScience, Rtp, NC

8:15 AM Using Electrical Conductivity to Determine Nematode Management Zones in Alluvial Soils of the Mid-South

Charles Overstreet¹, Roberto Barbosa², Dennis Burns³, R. L. Frazier⁴, Edward C. McGawley⁵, G. Boyd Padgett⁶ and Maurice C. Wolcott², (1)LSU Agricultural Center, Department of Plant Pathology and Crop Physiology, Baton Rouge, LA, (2)LSU Agricultural Center, Dept. of Biological and Agricultural Engineering, Baton Rouge, LA, (3) LSU Agricultural Center, St. Joseph, LA, (4)LSU Agricultural Center, Tallulah, LA, (5)Dept. of Plant Pathology and Crop Physiology, Baton Rouge, LA, (6)Louisiana State University, Winnsboro, LA

8:30 AM Precision Control of Nematodes in Arizona Cropping Systems

E. Randall Norton, University of Arizona, Safford, AZ, Pedro Andrade-Sanchez, University of Arizona Maricopa Ag Center, Maricopa, AZ and Michael A. McClure, University of Arizona, Tucson, AZ

8:45 AM Progress Report on a Contemporary Survey of the Fusarium Wilt Fungus in the United States

Rebecca S. Bennett, USDA-ARS, Western Integrated Cropping Systems Research Unit, Shafter, CA, Alois A. Bell, USDA-ARS, Cotton Pathology Research Unit, College Station, TX, R. Michael Davis, University of California, Dept. of Plant Pathology, Davis, CA, Katheryn S. Lawrence, Auburn University, Dept. of Entomology and Plant Pathology, Auburn, AL and Jason E. Woodward, Texas AgriLife Extension Service, Lubbock, TX

9:00 AM In Vitro Sensitivity of Fusarium Oxysporum f. sp. Vasinfectum to Several Fungicides

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

9:15 AM Exploring the CLCrV-VIGS for Modulating Actin and Chitinase Gene Expression in Cotton

Judith K. Brown¹, J. M. Dyer², Zifu He³ and Cecilia Hernandez¹, (1) The University of Arizona, Tucson, AZ, (2)USDA-ARS, Arid-Land Agricultural Research Center, Maricopa, AZ, (3)Plant Protection Research Institute, Guangzhou, Guangdong, China

9:30 AM Analysis of Potential Cotton Pathogen Reservoirs Based on *Nezara viridula* (L.) Collections from Two Different Crop Sources

Enrique Gino Medrano¹, Michael D. Toews², Al. A. Bell¹ and Jesus Esquivel³, (1)USDA-ARS-SPARC, College Station, TX, (2)University of Georgia, Tifton, GA, (3)USDA- ARS Areawide Pest Management Research Unit, College Station, TX

9:45 AM Assessment and Management of Foliar Diseases Affecting Cotton in Georgia and Texas

R. C. Kemerait¹, Glendon H. Harris², J. E. Woodward³, F.H. Sanders¹, S. N. Brown⁴ and R. J. Byrne⁵, (1)Department of Plant Pathology, University of Georgia, Tifton, GA, (2)University of Georgia, Tifton, GA, (3)Texas Cooperative Extension, Lubbock, TX, (4)University of Georgia Cooperative Extension Service, Moultrie, GA, (5)University of Georgia Cooperative Extension, Thomasville, GA

10:00 AM The Effect of Verticillium Wilt on Cotton Cultivars in the Southern High Plains of Texas

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

35TH ANNUAL COTTON ECONOMICS AND MARKETING CONFERENCE

Thursday, January 6, 2011

Thursday Morning

COTTON ECONOMIC OUTLOOK SYMPOSIUM

Atrium - 706 & 707 — 10:30 AM-12:00 PM

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

10:30 AM Welcoming Remarks

10:35 AM Cotton Marketer of the Year Award

10:45 AM The Outlook for Cotton: Macroeconomic and Policy Factors

Terry Barr, CoBank, Washington, DC

11:05 AM Prospects for U.S. and World Cotton Supply and Demand in 2011/12

Jarral Neeper, Calcot, LTD., Bakersfield, CA

11:25 AM U.S. Area and Prices in the up Market: How Will Producers Respond?

John Robinson, Texas A&M University, College Station, TX

11:45 AM Questions and Answers



TECHNICAL CONFERENCES PROGRAM

35TH ANNUAL COTTON ECONOMICS AND MARKETING CONFERENCE

Thursday, January 6, 2011

Thursday Afternoon

THURSDAY EARLY AFTERNOON

International 1 & 2 — 1:30 PM-3:15 PM

1:30 PM Welcoming Remarks

1:35 PM 2012 Farm Bill: What's at Stake for Cotton

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

1:50 PM Analysis of Crop Insurance Policy and Coverage Options for Cotton-Peanut Farms for 2011

Nathan B. Smith, W. Donald Shurley and Amanda R. Smith, University of Georgia, Tifton, GA

2:05 PM Pass-through Analysis of Cotton Prices and the Cotton Supply Chain

Jon Devine, Cotton Incorporated, Cary, NC and Alejandro Plastina, International Cotton Advisory Committee, Washington, DC

2:20 PM Demographic and Economic Growth Changes in China and Their Impact on Demand for Textiles: Comparison of Linear Expenditure System, Almost Ideal Demand System and LinQuad Demand System Using Micro Data

Mouze Kebede, Hudson Darren and Pan Suwen, Texas Tech university, Lubbock, TX

2:35 PM Brazil's Cotton Industry: Economic Reforms and Development

James A. Kiawu, Constanza Valdes and Stephen MacDonald, U.S. Department of Agriculture, Economic Research Service, Washington, DC

2:50 PM Economics of Cotton Production, Processing, and Marketing in Southwest Afghanistan

Wes Harris, USDA-FAS/UGA, Statesboro, GA

3:05 PM Discussion

COTTON ECONOMICS POSTERS

International 1 & 2 — 1:30 PM-6:00 PM

1. Estimating Minimum Global Stocks Based on Production Availability

Carol Skelly¹, James Johnson¹, Leslie A. Meyer² and James A. Kiawu³, (1)USDA World Agricultural Outlook Board, Washington, DC, (2) USDA-ERS, Washington, DC, (3)U.S. Department of Agriculture, Economic Research Service, Washington, DC

2. Estimating the Net Returns of Managing Pigweed in Cotton

Leah Moore Duzy, A.J. Price and K.S. Balkcom, USDA-ARS, Auburn, AL

3. An Empirical Study of U.S. Cotton Price in Response to Market Shocks

Zhongyi Xiao¹, Yaling Zhou², Meichuang Wu¹ and Rui He¹, (1)Texas Tech University, Lubbock, TX, (2)Southwest University, ChongQing, China

4. Has Bio-Tech Reduced the Carbon Emissions from Cotton Production in the USA?

Lawton Lanier Nalley, Zara Niederman and Diana M. Danforth, University of Arkansas, Fayetteville, AR

5. Economic Comparison of Commercial Scale Stripper and Picker Harvest Systems in Texas South Plains

William Keeling, Texas AgriLife Research, Lubbock, TX, Jeff W. Johnson, Texas Tech University, Lubbock, TX, Randy Boman, Texas AgriLife Extension Service, Lubbock, TX and John Wanjura, USDA-ARS, Lubbock, TX

THURSDAY LATE AFTERNOON

International 1 & 2 — 4:00 PM-6:00 PM

4:00 PM Indian Government Policy and Producer Profitability in Gujarat and Maharashtra: Implications for U.S. Cotton Exports

Mechel Paggi, Srinivasa Konduru and Fumiko Yamazaki, California State University, Fresno, Fresno, CA

4:15 PM The Implications of Refuge Requirements for Bt Cotton in India on World Cotton Markets

Rohit Singla, McGill University, Sainte-Anne-de-Bellevue, QC, Canada, Phillip Johnson, Agricultural & Applied Economics, Texas Tech University, Lubbock, TX and Sukant Misra, Texas Tech University, Lubbock, TX

4:30 PM Evaluation of Subsurface Drip Irrigation Strategies for the Optimal Use of Available Water for Cotton Production in the Texas South-Plains

Tyler Cowie¹, Jeff W. Johnson¹ and James P. Bordingovsky², (1)Texas Tech University, Lubbock, TX, (2)Texas AgriLife Research, Plainview, TX

4:45 PM Evaluating Water Marketing Options Under Declining Water Availability for Cotton Production in the Southern High Plains

Rachna Tewari¹, Jeff W. Johnson¹ and James P. Bordingovsky², (1)Texas Tech University, Lubbock, TX, (2)Texas AgriLife Research, Plainview, TX

5:00 PM Optimal Spatial and Temporal Allocation of Irrigation Water for Cotton in Texas High Plains

Shyam Nair, Chenggang Wang, Stephan Maas and Dr. Eduardo Segarra, Texas Tech University, Lubbock, TX

5:15 PM How Potential Carbon Policies Could Affect Cotton Location and Production Practices in the United States

Lawton Lanier Nalley, Mike Popp and Zara Niederman, University of Arkansas, Fayetteville, AR

5:30 PM An Estimation of Carbon Emissions and the Effect of Carbon Reducing Policies on Cotton Production on the Texas High Plains Region

Andrew P. Wright, Texas Tech University, Lubbock, TX and Darren Hudson, Cotton Economics Research Institute at Texas Tech University, Lubbock, TX

5:45 PM Implications of Climate Change Legislation for U.S. Cotton Growers

George Frisvold, University of Arizona, Tucson, AZ

TECHNICAL CONFERENCES PROGRAM

35TH ANNUAL COTTON ECONOMICS AND MARKETING CONFERENCE

Friday, January 7, 2011

Friday Morning

FRIDAY EARLY MORNING

International 1 & 2 — 8:25 AM-10:00 AM

8:25 AM Welcoming Remarks

8:30 AM Farmers' Practices in Using Cotton Varieties and Seeds: A Case in Hebei Province (China)

Guiyan Wang, Hebei Agricultural University, Baoding, China and Michel Fok Ah Chuen, CIRAD, Montpellier, France

8:45 AM Conventional vs. Transgenic: The Showdown

Rob Hogan, Texas AgriLife Extension, Fort Stockton, TX, Jason L. Johnson, Texas AgriLife Extension, Stephenville, TX, Warren L. Multer, Texas AgriLife Extension, Garden City, TX and M.W. Polk, Texas AgriLife Extension, San Angelo, TX

9:00 AM A Multinomial Logit Analysis of the Adoption of Cotton Precision Farming Technologies

Shyam Nair¹, Chenggang Wang¹, Dr. Eduardo Segarra¹, Jeanne Reeves² and Eric Belasco¹, (1)Texas Tech University, Lubbock, TX, (2) Cotton Incorporated, Cary, NC

9:15 AM An Investment Comparison Between Conventional and Conservation Tillage Equipment for Cotton

Amanda R. Smith¹, W.D. Shurley² and Nathan B. Smith¹, (1)University of Georgia, Tifton, GA, (2)The University of Georgia, Tifton, GA

9:30 AM Changes in Relative Commodity Prices and the Outlook for Arkansas Cotton Acreage

Archie Flanders, University of Arkansas, Keiser, AR

9:45 AM Discussion

FRIDAY LATE MORNING

International 1 & 2 — 10:30 AM-12:00 PM

10:30 AM Economic Impact of Double Planting and the Benefits of Automatic Section Control Technology for Planters

M. Velandia, Department of Agricultural Economics, The University of Tennessee, Knoxville, TN, Michael J. Buschermohle, Biosystems Engineering and Soil Science, The University of Tennessee, Knoxville, TN and Brandon M. Jernigan, University of Tennessee, Knoxville, TN

10:45 AM A Simulation Analysis of Cotton Gin Financial Viability Under Risk

Dr. Caren Fullerton, Lubbock Christian University, Lubbock, TX, Dr. Phillip Johnson, Agricultural & Applied Economics, Texas Tech University, Lubbock, TX, Dr. Eduardo Segarra, Texas Tech University, Lubbock, TX, Dr. Thomas Knight, Texas Tech University Department of Applied and Agricultural Economics, Lubbock, TX and Dr. Chris Quinn-Trank, Texas Tech University Area of Management, Lubbock, TX

11:00 AM Evaluation of the COTMAN Program: Focus Group and Quantitative Survey Methods

Diana M. Danforth¹, Karen K. Ballard², Terry Griffin², Patricia F. O'Leary³, Ben Thompson² and Eric J. Wailes¹, (1)University of Arkansas, Division of Agriculture, Fayetteville, AR, (2)University of Arkansas, Division of Agriculture, Little Rock, AR, (3)Cotton Incorporated, Cary, NC

11:15 AM Concluding Remarks

11:30 AM Business Meeting

60TH ANNUAL COTTON ENGINEERING-SYSTEMS CONFERENCE

Thursday, January 6, 2011

Thursday Afternoon

THURSDAY EARLY AFTERNOON

Atrium - 602 — 1:30 PM-3:15 PM

1:30 PM Evaluation of Select Blends of Cotton By-Products in the Manufacture of Biodegradable Packaging Material

Greg Holt¹, Gavin McIntyre², Daniel Flagg² and Eben Bayer², (1) USDA-ARS, Lubbock, TX, (2)Ecovative Design, LLC, Green Island, NY

1:45 PM Optimizing Esterification and Viscosity of Vegetable Oils from Four Sources

Tina P. Thomas, University of Georgia, Griffin, GA and Dick L. Auld, Texas Tech University & Texas AgriLife Research, Lubbock, TX

2:00 PM Advances in Gasification and Pyrolysis Research Using Various Biomass Feedstock

S.C. Capareda, College Station, TX

2:15 PM Economic Analysis of Gasification of Cotton Gin Trash for Power Production

Tommy Gilley, Shane Saucier, Saad Azeem, **Russell McGee** and Calvin Parnell, Jr., Texas A&M University, College Station, TX

2:30 PM Explosibility Testing of Cotton Gin Dust

Andrew Contreras, Francis Vanderlick, **Calvin Parnell** and Russell McGee, Texas A&M University, College Station, TX

2:45 PM Combined Empirical Model of Lint-Cleaner Effects on Fiber Quality

Yufeng Ge, Biological & Agricultural Engineering, College Station, TX, J. A. Thomasson, Texas A&M University, Bio. & Ag. Engineering, College Station, TX and Ed M. Barnes, Cotton Incorporated, Cary, NC

3:00 PM Soil Compaction in Cotton Fields of Mid-South

Subodh S. Kulkarni¹, Leo Espinoza¹ and Terry Griffin², (1)University of Arkansas Division of Agriculture Cooperative Extension Service, Little Rock, AR, (2)University of Arkansas Division of Agriculture, Little Rock, AR



TECHNICAL CONFERENCES PROGRAM

60TH ANNUAL COTTON ENGINEERING-SYSTEMS CONFERENCE

Thursday, January 6, 2011 and Friday, January 7, 2011

THURSDAY LATE AFTERNOON

Atrium - 602 — 4:00 PM-5:15 PM

4:00 PM Ginning Picker and Stripper Harvested High Plains Cotton - Update

John D. Wanjura¹, W. B. Faulkner², G.A. Holt³ and M.G. Pelletier³, (1) USDA-ARS Cotton Production and Processing Unit, Lubbock, TX, (2) Texas A&M University, College Station, TX, (3)USDA-ARS, Lubbock, TX

4:15 PM Picker vs. Stripper Harvesting in the Texas High Plains: Agronomic Implications

Randal K. Boman¹, John D. Wanjura², Eric F. Hequet³, Mark S. Kelley¹ and Chris W. Ashbrook¹, (1)Texas Agrilife Extension Service, Lubbock, TX, (2)USDA-ARS Cotton Production and Processing Unit, Lubbock, TX, (3)Fiber and Biopolymer Research Institute - Dept. Plant & Soil Science, Texas Tech University, Lubbock, TX

4:30 PM Spindle Picker Harvest Speed Effects

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

4:45 PM Irrigation Scheduling at a Whole Farm Level

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

5:00 PM Subsurface Drip Irrigation Management in Southeast Crop Rotations

C. D. Perry¹, Glen Ritchie², Jared R. Whitaker³, Rad Yager¹, W. Don Shurley⁴ and R. Scott Tubbs⁴, (1)University of Georgia - Strippling Irrigation Research Park, Camilla, GA, (2)University of Georgia - Soil and Crop Science Dept., Tifton, GA, (3)University of Georgia, Statesboro, GA, (4)University of Georgia, Tifton, GA

Friday Morning

FRIDAY EARLY MORNING

Atrium - 602 — 8:00 AM-10:00 AM

8:00 AM Using RTK in Lieu of LIDAR for Developing Crop Stability Maps for Production Fields

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

8:15 AM Influence of Planter Width on Double Planted Acreage in Cotton Fields

Brandon M. Jernigan¹, Michael J. Buschermohle², Willam E. Hart¹, John B. Wilkerson¹ and Robert S. Freeland¹, (1)Biosystems Engineering & Soil Science, University of Tennessee, Knoxville, TN, (2) Biosystems Engineering & Soil Science, The University of Tennessee, Knoxville, TN

8:30 AM Sensor Based Nitrogen Management for Cotton Production in Coastal Plain Soils

Ahmad Khalilian¹, Wesley M. Porter², Will Henderson¹ and Young Han³, (1)Clemson University, Blackville, SC, (2)Oklahoma State University, Stillwater, OK, (3)Clemson University, Clemson, SC

8:45 AM Development of On-The-Go Nitrogen Application Algorithms Based on NDVI

Terry Griffin, University of Arkansas Division of Agriculture, Little Rock, AR and Edward M. Barnes, Cotton Incorporated, Cary, NC

9:00 AM An Update on Site-Specific Nematicide Placement (SNP) System in Cotton

Ahmad Khalilian¹, J. D. Mueller¹, Will Henderson¹ and Young Han², (1)Clemson University, Blackville, SC, (2)Clemson University, Clemson, SC

9:15 AM Evaluation of Optical Sensors as a Variable Rate Defoliation Aid

Wesley M. Porter¹, Shane Osborne² and Randy Taylor¹, (1)Oklahoma State University, Stillwater, OK, (2)Oklahoma State University Southwest REC, Altus, OK

9:30 AM Ground-Based Technologies for Cotton Root Rot Control

Curtis D. Cribben¹, J. Alex Thomasson¹, Yufeng Ge², **Matthew D. Korte**¹ and Robert L. Nichols³, (1)Texas A&M University, College Station, TX, (2)TAMU - BAEN Dept., College Station, TX, (3)Cotton Incorporated, Cary, NC

9:45 AM Using Multispectral Imagery to Monitor Cotton Root Rot Expansion within a Growing Season

Chenghai Yang¹, Gary N. Odvody², Carlos J. Fernandez², Juan A. Landivar² and Robert L. Nichols³, (1)USDA-ARS, Weslaco, TX, (2)Texas AgriLife Research and Extension Center, Corpus Christi, TX, (3)Cotton Incorporated, Cary, NC

TECHNICAL CONFERENCES PROGRAM

27TH ANNUAL COTTON GINNING CONFERENCE

Thursday, January 6, 2011

Thursday Afternoon

THURSDAY EARLY AFTERNOON

Atrium - 601 — 1:30 PM-3:30 PM

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

1:30 PM Quality of 2010 Cotton Crop

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

1:45 PM Ginning U.S. Cotton for Domestic and Export Markets

S. E. Hughes¹, C. B. Armijo², R. K. Byler³ and D. P. Whitelock², (1)USDA-ARS-Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM, (2)USDA-ARS Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM, (3)USDA-ARS, Stoneville, MS

2:00 PM Highlights from the National Cotton Council's Vision 21 - Cotton Flow Study

Dale W. Thompson, National Cotton Council, Cordova, TN

2:15 PM Microwave Moisture Imaging of Cotton Bales with Metal Wire-Ties

Mathew G. Pelletier¹, Steve T. Evans², Joseph A. Viera³, Greg A. Holt⁴ and John D. Wanjura¹, (1)USDA-ARS, Lubbock, TX, (2)Cherokee Fabrication Co. Inc., Salem, AL, (3)Microsemi Corp. Sensors Group, Lowell, MA, (4)USDA-ARS Cotton Production and Processing Research Unit, Lubbock, TX

2:30 PM Evaluation of Mass-Flow Sensor at Gin

Ruixiu Sui, USDA-ARS Crop Production Systems Research Unit, Stoneville, MS and R. K. Byler, USDA-ARS, Stoneville, MS

2:45 PM Fiber-Seed Attachment Force Measurements: Differentiating Between Cotton Cultivars

J. Clif Boykin, USDA-ARS Cotton Ginning Research Unit, Stoneville, MS and Efreem Bechere, USDA-ARS, Stoneville, MS

3:00 PM Survey of Seed Cotton Cleaning Equipment in Mid-South Gins

Robert G. Hardin IV, USDA-ARS Cotton Ginning Research Unit, Stoneville, MS

3:15 PM Effects of Processing Rate on Seed Cotton Cleaning Equipment Performance

Robert G. Hardin IV and Richard K. Byler, USDA-ARS Cotton Ginning Research Unit, Stoneville, MS

THURSDAY LATE AFTERNOON

Atrium - 601 — 4:15 PM-6:00 PM

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

4:15 PM Miniature Spinning as a Tool for Ginning Research

C. D. Delhom, USDA-ARS-SRRC, New Orleans, LA, D.P. Thibodeaux, USDA-ARS-SAA, Cotton Quality Research Station, Clemson, SC and R. K. Byler, USDA-ARS, Stoneville, MS

4:30 PM Characterization of Cotton Gin Particulate Matter Emissions – Second Year

D. 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

4:45 PM Energy Conservation Principles

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

5:00 PM Energy Monitoring in Gins

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

5:15 PM Seed Cotton Dryer Survey

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

5:30 PM Concluding Remarks



TECHNICAL CONFERENCES PROGRAM

27TH ANNUAL COTTON GINNING CONFERENCE

Friday, January 7, 2011

Friday Morning

FRIDAY EARLY MORNING

Atrium - 601 — 8:00 AM-11:30 AM

Presiding: Kent Fountain, Southeastern Gin & Peanut, Surrency, GA

8:00 AM Stover Round Module Trailer

Jimmy Stover, Stover Equipment Co., Inc., Corpus Christi, TX

8:15 AM Technology Offerings for Improved Fiber Quality and Gin Plant Operational Efficiency

Ross D. Rutherford, Lummus Corporation, Lubbock, TX

8:30 AM IR Sensors Help Detect Start of Gin Fire

Michael Gvili, Advanced Sensing And Controls Inc., Hudson, MA

8:45 AM Super High Capacity Saw Gin Update

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

9:00 AM Capacity Robbers Panel Discussion

Kent Fountain, Southeastern Gin, Surrency, GA

Ross Rutherford, Lummus Corporation, Lubbock, TX

Wes Morgan, Rolling Hills Gin, New London, NC

Craig Huckaby, Arabi Gin Company, Arbia, GA

Richard Kelley, Burlison Cotton Gin, Burlison, TN

David Blakemore, B&B Cotton Company, Campbell, MO

John Fabian, Kimbell Gin Equipment, Lubbock, TX

10:00 AM Break

10:30 AM Multibar Sawless Lint Cleaner; Field Testing Results

Greg Holt¹, Joe W. Thomas², Ed M. Barnes³, Gary Gamble⁴, John Wanjura¹, Mathew Pelletier¹ and Roy V. Baker⁵, (1)USDA-ARS, Lubbock, TX, (2)Lummus Corporation, Savannah, GA, (3)Cotton Incorporated, Cary, NC, (4)Agricultural Research Service, USDA, Clemson, SC, (5)Retired USDA-ARS, Lubbock, TX

10:45 AM Removing Seed Coat Fragments with Newly-Designed Lint Cleaner Grid Bars

C. B. Armijo¹, D. P. Whitelock¹, Sidney E. Hughs¹, Edward M. Barnes² and Marvis N. Gillum¹, (1)USDA-ARS Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM, (2)Cotton Incorporated, Cary, NC

11:00 AM Investigation of Fiber Maturity Effect on Saw-Type Lint Cleaner Fiber Damage and Yarn Properties

R. K. Byler¹, C. D. Delhom², G. F. Sassenrath¹ and Mourad Krifa³, (1) USDA-ARS, Stoneville, MS, (2)USDA-ARS-SRRC, New Orleans, LA, (3) The University of Texas at Austin, Austin, TX

11:15 AM Air-Bar Cotton Lint Cleaner

Ruixiu Sui, USDA-ARS Crop Production Systems Research Unit, Stoneville, MS and R. K. Byler, USDA-ARS, Stoneville, MS

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

Atrium - 601 — 11:30 AM-12:00 PM

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

11:30 AM Student Paper Presentation Awards

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

11:45 AM Concluding Remarks

63RD ANNUAL COTTON IMPROVEMENT CONFERENCE

Thursday, January 6, 2011

Thursday Afternoon

THURSDAY EARLY AFTERNOON

Marquis - 103 - 105 — 1:30 PM-3:15 PM

1:30 PM Introductory Remarks

1:45 PM The Evaluation and Inheritance of Several Traits Associated with Lint Percent in Cotton

E. Margaret Shields, Bayer CropScience, Lubbock, TX, Jane Dever, Texas AgriLife Research, Lubbock, TX, Dick L. Auld, Texas Tech University, Lubbock, TX and Delbert Hess, Bayer CropScience, Abilene, TX

2:00 PM Exotic Germplasm Introgression Effects on Adapted Cotton Genotypes

Madan Mohan Chapala¹, David Weaver¹, B. Todd Campbell², Edzard van Santan¹ and Rachel Sharpe¹, (1)Auburn University, Auburn University, AL, (2)USDA-ARS, Florence, SC

2:15 PM Evaluation of Resistance to Cotton Fleahopper (Pseudatomoscelis seriatus Reuter) Injury in Cotton

G.S. Cutts¹, A.E. Knutson Texas AgriLife Research and Extension², C.W. Smith Soil and Crop Science¹ and M. Campos Texas AgriLife Research and Extension², (1)Texas A&M University, College Station, TX, (2) Texas A&M University, Dallas, TX

2:30 PM Analysis of Mitochondrial Genes and the Association with Cytoplasmic Male Sterility

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



TECHNICAL CONFERENCES PROGRAM

63RD ANNUAL COTTON IMPROVEMENT CONFERENCE

Thursday, January 6, 2011 and Friday January 7, 2011

2:45 PM Identification of Cotton Germplasm and Molecular Markers for Salt Tolerance

Tiwari Rashmi¹, Michael D. Gill², S. Bajaj³, Don. C. Jones⁴, James Mac Stewart⁵, Sidney E. Hughs⁶ and Jinfa Zhang¹, (1)New Mexico State University, Las Cruces, NM, (2)New Mexico Department of Agriculture, Las Cruces, NM, (3)Department of Plant and Environmental Sciences, New Mexico State University, Las Cruces, NM, (4)Cotton Incorporated, Cary, NC, (5)University of Arkansas, Fayetteville, AR, (6)USDA-ARS Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM

3:00 PM Identification of Cotton Germplasm and Molecular Markers for Drought Tolerance

Nicholas Adams¹, Robert Flynn², S. Bajaj³, Richard G. Percy⁴, Don. C. Jones⁵, Sidney E. Hughs⁶ and Jinfa Zhang¹, (1)New Mexico State University, Las Cruces, NM, (2)Artesia Agricultural Science Center, New Mexico State University, Artesia, NM, (3)Department of Plant and Environmental Sciences, New Mexico State University, Las Cruces, NM, (4)USDA-ARS, Southern Plains Agricultural Research Center, Crop Germplasm Research Unit, College Station, TX, (5) Cotton Incorporated, Cary, NC, (6)USDA-ARS Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM

THURSDAY LATE AFTERNOON

Marquis - 103 - 105 — 4:00 PM-6:00 PM

4:00 PM Comparison of Sampling Techniques to Determine Cotton Fiber Quality and Yield

Neha Kothari¹, Steve Hague¹ and Eric F. Hequet², (1)Texas A&M University, College Station, TX, (2)Fiber and Biopolymer Research Institute - Dept. Plant & Soil Science, Texas Tech University, Lubbock, TX

4:15 PM Improvement of Cotton (*Gossypium hirsutum*) Fiber Spinning Quality Through Selection and Inheritance of Fiber Elongation

Juliana Osorio, Texas A&M University, College Station, TX and Jane K. Dever, Texas A&M University, Lubbock, TX

4:30 PM Evaluation of Upland Cotton Fibers Producing Superior Yarn

Eng Hwa Ng, Wayne Smith, Steven Hague and Eric Hequet, Texas A&M University, College Station, TX

4:45 PM Top Cross Assessment of Combining Ability for Extra Long Staple Trait in Upland Cotton

Kendra Gregory¹, Benjamin Beyer¹, C. Wayne Smith², Steven Hague¹ and R. Percy³, (1)Texas A&M University, College Station, TX, (2)Texas A&M, College Station, TX, (3)USDA-ARS, College Station, TX

5:00 PM Diallel Analysis of Fiber Length and Fiber Bundle Strength Using Extra Long Staple Upland, Mutated Upland, and Interspecific Hybrid Germplasm

Kolbyn S. Joy¹, C. Wayne Smith¹, Steve Hague¹ and Don. C. Jones², (1)Texas A&M University, College Station, TX, (2)Cotton Incorporated, Cary, NC

5:15 PM Assessing the Potential of Sealand Lines for Fiber Quality Improvement of Upland Cotton (*G. hirsutum*)

Pawan Kumar, Rippy Singh, Edward L. Lubbers, Andrew H. Paterson and Peng W. Chee, University of Georgia, Tifton, GA

5:30 PM Twenty-Five Years of Introgression Breeding Through Interspecific Hybridization Between *Gossypium Hirsutum* and *G. barbadense*

Jinfa Zhang, New Mexico State University, Las Cruces, NM

5:45 PM CottonDB Breeders Toolbox, a New Feature for Cotton Breeders

Jing Yu¹, Russell J. Kohel², Lori L. Hinze², James Frelichowski², John Z. Yu² and Richard G. Percy², (1)USDA-ARS/TAMU, College Station, TX, (2)USDA-ARS, Southern Plains Agricultural Research Center, Crop Germplasm Research Unit, College Station, TX

Friday Morning

FRIDAY EARLY MORNING

Marquis - 103 - 105 — 8:00 AM-10:00 AM

8:00 AM Introductory Remarks

8:05 AM Diversity of Cotton and Cotton Germplasm of Mexico

James McD Stewart, University of Arkansas, Fayetteville, AR

8:20 AM Preliminary Assessment of the Efficacy of a Core Marker Set in Revealing Genetic Diversity in the U.S. Germplasm Collection

Richard Percy¹, David Fang², Lori Hinze¹, John Z. Yu³, J. Frelichowski¹, Brian Scheffler⁴ and Michael Gore⁵, (1)USDA-ARS, College Station, TX, (2)USDA-ARS, Southern Regional Research Center, New Orleans, LA, (3)USDA-ARS, Southern Plains Agricultural Research Center, Crop Germplasm Research Unit, College Station, TX, (4)USDA-ARS, Stoneville, MS, (5)USDA-ARS, Maricopa, AZ

8:35 AM Update on Cotton Race-Stock Screening and Phenotypic Characterization

Jane Dever and Monica Sheehan, Texas AgriLife Research, Lubbock, TX

8:50 AM The Use of Genetic Diversity, Both Near and Far, on Cotton Improvement

Gerald O. Myers, LSU AgCenter, Baton Rouge, LA

9:05 AM Genetic Diversity and Agronomic Potential of Cultivars Within the U.S. Cotton Collection

Lori Hinze¹, Jane Dever² and Richard Percy¹, (1)USDA-ARS, College Station, TX, (2)Texas AgriLife Research, Lubbock, TX

9:20 AM Discussion

FRIDAY LATE MORNING

Marquis - 103 - 105 — 10:30 AM-12:00 PM

10:30 AM Use of GGE Biplot to Evaluate Variety Performance in the Mid-South and Southeast

Mustafa McPherson¹, Joe Johnson¹ and Dru Rush², (1)Phytogen Seed Company, LLC, Leland, MS, (2)Phytogen Seed Company, LLC, Brewton, AL



TECHNICAL CONFERENCES PROGRAM

63RD ANNUAL COTTON IMPROVEMENT CONFERENCE

Friday January 7, 2011

10:45 AM Length Distribution as a Breeding Tool to Improve Multiple Fiber Properties

Carol M. Kelly¹, Jane K Dever¹ and Eric F. Hequet², (1)Texas AgriLife Research, Lubbock, TX, (2)Fiber and Biopolymer Research Institute - Dept. Plant & Soil Science, Texas Tech University, Lubbock, TX

11:00 AM Quality Score: Improvements in Predictive Value

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 Effects of Exogenously Applied Indole-3-Acetic Acid (IAA) to Cotton

Jenny D. Clement¹, Steve Hague² and Jean H. Gould², (1)CSIRO, Narrabri, NSW, Australia, (2)Texas A&M University, College Station, TX

11:30 AM Water Deficit Stress Induced Gene Expression

B. Todd Campbell¹, Wonkeun Park¹, Phil J. Bauer¹ and Brian E. Scheffler², (1)USDA-ARS, Florence, SC, (2)USDA-ARS Genomics and Bioinformatics Research Unit, Stoneville, MS

11:45 AM Award Presentations

Friday Afternoon

FRIDAY EARLY AFTERNOON

Marquis - 103 - 105 — 1:30 PM-3:30 PM

1:30 PM Mapping of SSR Markers Associated with Reniform Nematode Resistance in An Interspecific Cross of *Gossypium*

Osman A. Gutierrez¹, A. Forest Robinson², Johnie N. Jenkins³, Jack C. McCarty³, Martin J. Wubben³, Franklin E. Callahan³ and Robert L. Nichols⁴, (1)Department of Plant and Soil Sciences, Mississippi State University, Mississippi State, MS, (2)USDA-ARS, College Station, TX, (3)USDA-ARS, Mississippi State, MS, (4)Cotton Incorporated, Cary, NC

1:45 PM Are *Ren^{ari}* From *Gossypium aridum* and *Ren^{lon}* From *G. longicalyx* Duplicate Genes?

David Fang, USDA-ARS, Southern Regional Research Center, New Orleans, LA and Salliana R. Stetina, USDA-ARS Crop Genetics Research Unit, Stoneville, MS

2:00 PM LONREN Germplasm Response to Nematode Inoculation Level

Roelof B. Sikkens, Scott Moore, Kathy Lawrence, Tingting Wu and David Weaver, Auburn University, Auburn University, AL

2:15 PM LONREN X FM966 Progeny Evaluation in a Field Infested with Reniform Nematode

David Weaver, Roelof B. Sikkens, Scott Moore, Kathy Lawrence and Rachel Sharpe, Auburn University, Auburn University, AL

2:30 PM Development of Mississippi Cotton Breeding Lines Resistant to Reniform and Root-Knot Nematodes via Marker Assisted Selection

Ted P. Wallace¹, Peggy Thaxton², Osman A. Gutierrez¹, Brian Scheffler³, Sally Stetina³ and Jodi Scheffler³, (1)Mississippi State University, Mississippi State, MS, (2)Mississippi State University, Stoneville, MS, (3)USDA-ARS, Stoneville, MS

2:45 PM Reevaluation of the Nematode Resistance in the M-120 RNR by Pima S6 Population

Yajun He¹, Khalid Hussain¹, Xinlian Shen¹, Richard F. Davis² and Peng W. Chee¹, (1)University of Georgia, Tifton, GA, (2)USDA-ARS, Tifton, GA

3:00 PM Developing Conventional Cotton Cultivars with Value Added Traits

Dick L. Auld, Texas Tech University & Texas AgriLife Research, Lubbock, TX, Jacob M. Rieff, Texas Tech University, Lubbock, TX and Efreem Bechere, USDA-ARS, Stoneville, MS

3:15 PM Diallel Analysis of Earliness Among Brazilian and U.S. Upland Cotton

Camilo de Leis Morello¹, C. Wayne Smith², Steve Hague² and Eng Hwa Ng³, (1)Embrapa, Goiânia, Brazil, (2)Texas A&M, College Station, TX, (3)Texas A&M University, College Station, TX

FRIDAY LATE AFTERNOON

Marquis - 103 - 105 — 4:00 PM-5:45 PM

4:00 PM Cotton Flowers: Investigating the Inheritance of Pollen Humidity Sensitivities and Flower Shape

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

4:15 PM Identification of SNP Markers for Gland Morphogenesis in Cotton

John Z. Yu, Jaemin Cho and Russell J. Kohel, USDA-ARS, Southern Plains Agricultural Research Center, Crop Germplasm Research Unit, College Station, TX

4:30 PM Alternative Respiration During Cotton Growth and Development

Robert J. Wright¹, Hanh Pham¹, Hirut Kebede¹ and Norma Trolinder², (1)Texas Tech University and Texas AgriLife Research Center, Texas A & M System, Lubbock, TX, (2)Quannah, TX

4:45 PM Elevated Growing Degree Days Influence Transition Stage Timing During Cotton (*Gossypium hirsutum* L.) Fiber Development Resulting in Increased Fiber Strength

Doug J. Hinchliffe¹, William R. Meredith², Chris Delhom³, Devron P. Thibodeaux⁴ and David Fang¹, (1)USDA-ARS, Southern Regional Research Center, New Orleans, LA, (2)USDA-ARS, Stoneville, MS, (3) USDA-ARS-SRRC, New Orleans, LA, (4)USDA-ARS-SAA, Clemson, SC

5:00 PM Does Cellulose Have a Protein Component?

Allen K. Murray, Glycozyme, Inc., Irvine, CA and Robert L. Nichols, Cotton Incorporated, Cary, NC

5:15 PM Updates on Cotton Fiber Initiation

Rickie B. Turley, Stoneville, MS

5:30 PM Missteps Along the Historic Path of Cellulose Chemistry

Allen K. Murray, Glycozyme, Inc., Irvine, CA and Robert L. Nichols, Cotton Incorporated, Cary, NC

TECHNICAL CONFERENCES PROGRAM

64TH ANNUAL COTTON INSECT RESEARCH AND CONTROL CONFERENCE

Thursday, January 6, 2011

Thursday Morning

COTTON INSECT RESEARCH AND CONTROL - PRODUCER'S ROUNDTABLE

Marquis Imperial A — 10:30 AM-12:00 PM

Facilitated small group discussion and one-on-one interaction with cotton experts and other attendees will provide an opportunity to learn from the success of others in the area of insect management.

Thursday Afternoon

THURSDAY EARLY AFTERNOON - SESSION A

Marquis Imperial A — 1:30 PM-3:30 PM

Presiding: Noel Troxclair, Texas AgriLife Extension, Uvalde, TX

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

1:35 PM Cotton Insect Losses - 2010

Michael Williams, Mississippi State University, Abbeville, MS

1:45 PM TwinLink™ Cotton Performance Across the Cotton Belt

Mark Rinehardt, Bayer CropScience, Wilson, NC, Walt Mullins, Bayer CropScience, Collierville, TN, Scott Baker, Bayer CropScience, Memphis, TN and Jonathan Holloway, Bayer CropScience, Lubbock, TX

2:00 PM Performance of TwinLink™ Technology Against Mid-South Lepidopteran Pests

B. Rogers Leonard, LSU AgCenter, Macon Ridge Station, Winnsboro, LA, Gus Lorenz, University of Arkansas Cooperative Extension Service, Lonoke, AR, Angus Catchot, Mississippi State University, Mississippi State, MS, J. Gore, Mississippi State University, Stoneville, MS, Walt Mullins, Bayer CropScience, Memphis, TN and Jonathan Holloway, Bayer CropScience, Lubbock, TX

2:15 PM Pink Bollworm Mortality Dynamics in TwinLink™ Cotton

Peter Ellsworth¹, Shujuan Li¹, Bruce Tabashnik², Jonathan Holloway³ and Robert Humphries⁴, (1)University of Arizona, Maricopa, AZ, (2)University of Arizona, Tucson, AZ, (3)Bayer CropScience, Lubbock, TX, (4)Bayer CropScience, Shafter, CA

2:30 PM Efficacy of TwinLink™ Traits Against Beet and Fall Armyworm Larvae

John J. Adamczyk¹, Jonathan Holloway², Shoil Greenberg¹, Scott Armstrong¹, Linda Trolinder² and Walt Mullins², (1)USDA, ARS, BIRU, Weslaco, TX, (2)Bayer CropScience, Lubbock, TX

2:45 PM Bollgard III® Impact on Damage and Survivorship of Fall Armyworm on Cotton Fruiting Forms

Jarrold T. Hardke¹, B. Rogers Leonard², Joshua H. Temple¹, Konasale J. Anilkumar³ and Robert S. Brown⁴, (1)LSU AgCenter, Baton Rouge, LA, (2)LSU AgCenter, Macon Ridge Station, Winnsboro, LA, (3)Monsanto Company, St. Louis, MO, (4)Monsanto Company, Chesterfield, MO

3:00 PM Assessment of Lep-Resistant Cotton Varieties in NC and VA

D. Ames Herbert¹, Jack S. Bachelor², Sean Malone¹ and D. Mott², (1)Virginia Tech, Suffolk, VA, (2)North Carolina State University, Raleigh, NC

3:15 PM Performance of New and Existing Bt Cotton Technologies When Inundated with Heavy/Natural Populations of Bollworm in SC - 2010

Jeremy K. Greene¹, Dan Robinson¹, Kristen M. Carter² and Ginger N. Devinney², (1)Clemson University, Blackville, SC, (2)Clemson University, Clemson, SC

THURSDAY EARLY AFTERNOON - STUDENT PAPER COMPETITION

Marquis - 106 & 107 — 1:30 PM-3:30 PM

Presiding: Jeremy K. Greene, Clemson University, Edisto Research and Education Center, Blackville, SC

1:30 PM Establishment of Spider Mites on Cotton Plants in a Semi-Arid Environment

Natalie Kincy¹, Xavier Martini² and Christian Nansen², (1)Texas Tech University, Lubbock, TX, (2)Texas AgriLife Research, Lubbock, TX

1:45 PM Western Flower Thrips in Cotton: Pest or a Beneficial Natural Enemy?

Justin G. Fiene¹, Lauren Kalns¹, Christian Nansen¹, Pete Krauter¹ and Xavier Martini², (1)Department of Entomology, Texas A&M University, College Station, TX, (2)Texas AgriLife Research, Lubbock, TX

2:00 PM Fall Armyworm Damage Potential and Survivorship on Selected Transgenic Cottons

Jarrold T. Hardke, LSU AgCenter, Baton Rouge, LA and B. Rogers Leonard, LSU AgCenter, Macon Ridge Station, Winnsboro, LA

2:15 PM Population Level Genetic Variability of Cotton Fleahopper (*Pseudatomoscelis seriatus*) in the United States

Apurba K. Barman¹, Megha N. Parajulee², C. Sansone³ and R.F. Medina¹, (1)Texas A&M University, College Station, TX, (2)Texas AgriLife Research and Extension Center, Lubbock, TX, (3)Texas AgriLife Extension, San Angelo, TX

2:30 PM Lepidopteran Adult Feeding Disruption Test (FDT) to Detect Insecticide Resistance

Jaap B. van Kretschmar¹, J. R. Bradley¹, A. R. Cabrera-Cordon² and R. M. Roe¹, (1)North Carolina State University, Raleigh, NC, (2)USDA ARS CMAVE, Gainesville, FL

2:45 PM The Impact of Planting Date and Varietal Maturity on Tarnished Plant Bug Management

Brian P. Adams¹, A. L. Catchot¹, Jeff Gore², Fred Musser¹, D. R. Cook³ and D. M. Dodds⁴, (1)Mississippi State University, Mississippi State, MS, (2)Mississippi State University, DREC, Stoneville, MS, (3)Mississippi State University, Stoneville, MS, (4)Mississippi State University, Starkville, MS



TECHNICAL CONFERENCES PROGRAM

64TH ANNUAL COTTON INSECT RESEARCH AND CONTROL CONFERENCE

Thursday, January 6, 2011

3:00 PM Effects of Precision-Applied In-Furrow Nematicide/ Insecticide (Temik™) and Seed Treatments (AERIS™, AVICTA™) in Management Zones Defined by Soil Electrical Conductivity on Populations of Thrips and Nematodes in Cotton

Ginger N. Devinney¹, Jeremy Greene², J. D. Mueller³, Francis P. F. Reay-Jones⁴, Kristen M. Carter¹, Will Henderson³ and Dan Robinson³, (1)Clemson University, Clemson, SC, (2)Clemson, Blackville, SC, (3) Clemson University, Blackville, SC, (4)Clemson University, Florence, SC

3:15 PM Development of Treatment Thresholds for Bollworm (*Helicoverpa zea*) in Second-Generation Bt Cotton

Kristen M. Carter¹, Jeremy K. Greene², Francis P. F. Reay-Jones³, Ginger N. Devinney¹ and Dan Robinson⁴, (1)Clemson University, Clemson, SC, (2)Clemson University, Blackville, SC, (3)Clemson University, Florence, SC, (4)Clemson, Blackville, SC

THURSDAY LATE AFTERNOON - STUDENT PAPER COMPETITION CONTINUES

Marquis - 106 & 107 — 4:00 PM-5:15 PM

Presiding: Bobby Haygood, Dow AgroSciences, Indianapolis, IN

4:00 PM Residual Activity of Selected Insecticides on Green Stink Bugs

Wes McPherson¹, A. L. Catchot², Fred Musser², D. R. Cook³ and K. C. Allen⁴, (1)MSU, Mississippi State, MS, (2)Mississippi State University, Mississippi State, MS, (3)Mississippi State University, Stoneville, MS, (4)USDA-ARS, SIMRU, Stoneville, MS

4:15 PM The Impact and Management of Tetranychus Urticae on Cotton

William S. Scott¹, A. L. Catchot¹, J. Gore², D. R. Cook² and Fred Musser¹, (1)Mississippi State University, Mississippi State, MS, (2) Mississippi State University, Stoneville, MS

4:30 PM Miticide Efficacy, Threshold Evaluation and Impact of Fertility on Mite Outbreaks

Bo Kesey, Texas Agrilife Research and Extension Service, Lubbock, TX, David Kerns, Texas Agrilife Extension Service, Lubbock, TX, Brant Baugh, Texas Cooperative Extension, Lubbock, TX and Megha N. Parajulee, Texas Agrilife Research, Lubbock, TX

4:45 PM Influence of Herbicide System on Spider Mite Infestations in Georgia Cotton

Ryne Brannen, Phillip M. Roberts and A. Stanley Culpepper, University of Georgia, Tifton, GA

5:00 PM Efficacy of Selected Compounds for Control of the Heliothine Complex in Conventional Cotton

K. Colwell¹, G. M. Lorenz², Nikki Taillon³, Ben Thresh⁴, Jason Fortner³ and B. VonKanel³, (1)Univ. of Arkansas CES- Lonoke, Lonoke, AR, (2) Univ. of Arkansas Cooperative Extension Service, Little Rock, AR, (3) University of Arkansas Cooperative Extension Service, Little Rock, AR, (4)University of Arkansas, Lonoke, AR

THURSDAY LATE AFTERNOON - SESSION A

Marquis Imperial A — 4:00 PM-6:00 PM

Presiding: Timothy J. Dennehy, Monsanto Company, Global Scientific Affairs, St. Louis, MO

4:00 PM Update on Monitoring of Resistance to Bt Cotton in Key Lepidopteran Pests in the USA

Timothy J. Dennehy¹, Matthew Carroll¹, John T. Greenplate¹, Graham P. Head¹, William Moar¹, Paula A Price¹, Waseem Akbar¹, D. Scott Akin², J.R. Bradley³, D. R. Cook⁴, Jeremy K. Greene⁵, Ryan Jackson⁶, David Kerns⁷, B. Rogers Leonard⁸, Juan Lopez⁹, Phillip Roberts¹⁰, Ronald Smith¹¹, John VanDuyn¹² and Gopalan C. Unnithan¹³, (1)Monsanto Company, St. Louis, MO, (2)University of Arkansas, Monticello, AR, (3)Chemtrol Scientific Testing, Edenton, NC, (4)Mississippi State University Extension Service, Verona, MS, (5) Clemson University, Blackville, SC, (6)USDA-ARS, SIMRU, Stoneville, MS, (7)Texas AgriLife Extension Service, Lubbock, TX, (8)LSU AgCenter, Macon Ridge Station, Winnsboro, LA, (9)USDA-ARS-SPARC, College Station, TX, (10)University of Georgia, Tifton, GA, (11)Auburn University, Auburn, AL, (12)North Carolina State University, Raleigh, NC, (13)University of Arizona, Tucson, AZ

4:15 PM Bt Cottons in Pakistan: Current Status

Ihsan Ullah, Muhammad Zaffar Iqbal, Ghulam Sarwar, Azhar Iqbal, Huma Lubna Shaheen, Syeda Maria Hasni and Shakra Jamil, Agricultural Biotechnology Research Institute, Faisalabad, Pakistan

4:30 PM First Instance of Field Failure of First-Generation Bt Cotton Documented with Pink Bollworm in Gujarat State, India

P. J. Suresh¹, K.S. Mohan², K.C. Ravi², Graham Head³ and **Timothy J. Dennehy**³, (1)Monsanto India Limited, Mumbai, India, (2)Monsanto Research Center, Bangalore, India, (3)Monsanto Company, St. Louis, MO

4:45 PM WideStrike™ Insect Protection: Adoption, Performance, and Observations Since Commercialization

J.D. Siebert¹, M.W. Siebert¹, N. P. Storer², L. B. Braxton³ and J. S. Richburg⁴, (1)Dow AgroSciences, Greenville, MS, (2)Dow AgroSciences, Kensington, MD, (3)Dow AgroSciences, Travelers Rest, SC, (4)Dow AgroSciences, Headland, AL

5:00 PM Synergistic Interaction of Bio-Active Reagents with Bt Against Cotton Worms

Yu Cheng Zhu, Zibiao Guo and Randy Luttrell, USDA-ARS, Stoneville, MS

5:30 PM Business Meeting

TECHNICAL CONFERENCES PROGRAM

64TH ANNUAL COTTON INSECT RESEARCH AND CONTROL CONFERENCE

Friday, January 7, 2011

Friday Morning

FRIDAY EARLY MORNING - SESSION A

Marquis Imperial A — 8:00 AM-10:00 AM

Presiding: C. A. Smith, University of Florida, IFAS, Marianna, FL

8:00 AM Management of Tarnished Plant Bug, *Lygus lineolaris*, in Mid-Southern U.S. Cotton with Dow AgroSciences' Transform™ (sulfoxaflor)

M.W. Siebert¹, L.C. Walton², R.B. Lassiter³, R.A. Haygood⁴, J.D. Siebert and J.D. Thomas⁵, (1)Dow AgroSciences LLC, Greenville, MS, (2)Dow AgroSciences LLC, Tupelo, MS, (3)Dow AgroSciences LLC, Little Rock, AR, (4)Dow AgroSciences LLC, Collierville, TN, (5)Dow AgroSciences LLC, Indianapolis, IN

8:15 AM Transform™: Field Performance Against *Lygus hesperus* in Cotton

J.M. Richardson¹, B.A. Castro¹, J.D. Thomas¹, P.C. Ellsworth², L.D. Godfrey³ and D.L. Kerns⁴, (1)Dow AgroSciences LLC, Indianapolis, IN, (2)University of Arizona, Maricopa, AZ, (3)University of California, Davis, CA, (4)Texas AgriLife Extension Service, Lubbock, TX

8:30 AM Transform™: Field Performance Against Cotton Aphids, *Aphis gossypii* Glover, in Cotton

Boris A. Castro, Dow AgroSciences, LLC, Fresno, CA, J.M. Richardson, Dow AgroSciences, LLC, Hesperia, CA, M.W. Siebert, Dow AgroSciences LLC, Greenville, MS, L. Walton, Dow AgroSciences, LLC, Tupelo, MS and James D. Thomas, Dow AgroSciences LLC, Indianapolis, IN

8:45 AM Fit of Rynaxypyr® for Control of Key Pests in Cotton Production

Michael T. Edwards¹, Richard M. Edmund², J. Dan Smith³, Glenn G. Hammes⁴, Daniel W. Sherrod⁵ and Lars D. Swanson⁵, (1)DuPont Crop Protection, Pierre Part, LA, (2)DuPont Crop Protection, Little Rock, AR, (3)DuPont Crop Protection, Madison, MS, (4)DuPont Crop Protection, Blairsville, GA, (5)DuPont Crop Protection, Memphis, TN

9:00 AM In Field Characteristics of Flubendiamide (Belt 480SC); Residual Efficacy and Impact of Application Technique on Efficacy

Ralph D. Bagwell, Bayer CropScience, RTP, NC

9:15 AM Monitoring Cotton Aphid and Tarnished Plant Bug Susceptibility to Neonicotinoids and Sulfoxaflor in the Mid-South

J. Gore¹, D. R. Cook¹, Gordon Snodgrass², Angus Catchot³, B. R. Leonard⁴, Scott D. Stewart⁵ and Gus Lorenz⁶, (1)Mississippi State University, Stoneville, MS, (2)Stoneville, MS, (3)Mississippi State University, Mississippi State, MS, (4)LSU AgCenter, Macon Ridge Research Station, Winnsboro, LA, (5)The University of Tennessee, Jackson, TN, (6)University of Arkansas Cooperative Extension Service, Lonoke, AR

9:30 AM Biochemical Characterization of Sulfoxaflor

T. C. Sparks¹, Gerald B. Watson¹, Gerrit deBoer¹, James Hasler¹, **Michael Loso**¹, Jonathan Babcock¹ and Trent Perry², (1)Dow AgroSciences LLC, Indianapolis, IN, (2)University of Melbourne, Parkville, Australia

9:45 AM Efficacy and Yield Effects of Diamond Insecticide Applications for Tarnished Plant Bug

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

FRIDAY EARLY MORNING - SESSION B

Marquis - 106 & 107 — 8:00 AM-10:00 AM

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

8:00 AM Efficacy of Selected Insecticides for Control of Cotton Aphid in Louisiana

Joshua H. Temple¹, Karla Emfinger², Jarrod T. Hardke¹, Jessica L. Moore¹, Paul P. Price³, Patrick Chapman² and B. Rogers Leonard², (1)LSU AgCenter, Baton Rouge, LA, (2)LSU AgCenter, Macon Ridge Station, Winnsboro, LA, (3)LSU AgCenter, Winnsboro, LA

8:15 AM Thrips Management Timing and Action Threshold Considerations

David L. Kerns, Texas AgriLife Extension Service, Lubbock, TX, Monti Vandiver, Texas AgriLife Extension Service, Farwell, TX, Dustin Patman, Texas AgriLife Extension Service, Crosbyton, TX and Megha N. Parajulee, Texas AgriLife Research, Lubbock, TX

8:30 AM Assessment of Various Seed Applied Insect Management Systems for Control of Early Season Insects

Charles T. Graham, Bayer CropScience, Grenada, MS and Louis J. Holloway, Bayer CropScience, Rtp, NC

8:45 AM Evaluation of Automatic Insecticide Applications Following Preventative Insecticides for Thrips

D. Scott Akin¹, Gus Lorenz², G.E. Studebaker³, Scott D. Stewart⁴, B. Rogers Leonard⁵, Stephen Micinski⁶, Jeremy K. Greene⁷, Ryan Jackson⁸, K. C. Allen⁹, Angus Catchot¹⁰, Jack Reed¹⁰, Jeff Gore¹¹, D. R. Cook¹², K. V. Tindall¹³, David Kerns¹⁴, Phillip Roberts¹⁵, Michael D. Toews¹⁵, Ames Herbert¹⁶, J.S. Bachelier¹⁷ and Dominic D. Reisig¹⁸, (1) University of Arkansas, Monticello, AR, (2)University of Arkansas Cooperative Extension Service, Lonoke, AR, (3)Cooperative Extension Service University of Arkansas, Keiser, AR, (4)The University of Tennessee, Jackson, TN, (5)LSU AgCenter, Macon Ridge Station, Winnsboro, LA, (6)Red River Research Station, Bossier City, LA, (7)Clemson University, Blackville, SC, (8)USDA-ARS, CPSRU, Stoneville, MS, (9)USDA-ARS, SIMRU, Stoneville, MS, (10)Mississippi State University, Mississippi State, MS, (11)Mississippi State University, DREC, Stoneville, MS, (12)Mississippi State University, Stoneville, MS, (13)Univ. of Missouri, Portageville, MO, (14)Texas AgriLife Extension Service, Lubbock, TX, (15)University of Georgia, Tifton, GA, (16)Virginia Tech, Suffolk, VA, (17)North Carolina State University, Raleigh, NC, (18)North Carolina State University, Vernon James Research and Extension Center, Plymouth, NC



TECHNICAL CONFERENCES PROGRAM

64TH ANNUAL COTTON INSECT RESEARCH AND CONTROL CONFERENCE

Friday, January 7, 2011

9:00 AM Management of Stink Bugs in Cotton Using a Soybean Trap Crop

Glynn Tillman and Carroll Johnson, USDA, ARS, Tifton, GA

9:15 AM Concept to Delivery: A Pocket-Size Scouting Decision Aid for Stink Bug Scouting in the Southeast

Jack Bachelier¹, D. Ames Herbert², Jeremy Greene³, Phillip Roberts⁴ and Michael Toews⁴, (1)North Carolina State University, Raleigh, NC, (2)Virginia Tech, Suffolk, VA, (3)Clemson, Blackville, SC, (4)University of Georgia, Tifton, GA

9:30 AM A Landscape Perspective of Stink Bugs in Cotton

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

9:45 AM Understanding Colonization of Cotton Fields by Stink Bugs

Michael D. Toews¹, John Herbert¹, Francis P. F. Reay-Jones² and Jeremy Greene², (1)University of Georgia, Tifton, GA, (2)Clemson University, Florence, SC

FRIDAY EARLY MORNING - SESSION C

Marquis - 102 — 8:00 AM-10:00 AM

Presiding: Fred Musser, Mississippi State University, Department of Entomology and Plant Pathology, Mississippi State, MS

8:00 AM Effect of Cotton Fleahopper Density on Pre-Flower Fruit Loss and Plant Biomass in Cotton

Megha N. Parajulee¹, Yubin Yang², Llyod T. Wilson² and Diwash Neupane³, (1)Texas AgriLife Research and Extension Center, Lubbock, TX, (2)Texas AgriLife Research, Beaumont, TX, (3)Texas AgriLife Research, Lubbock, TX

8:15 AM Texas Resistance Monitoring Program Reveals Increase in Cypermethrin Susceptibility in Helicoverpa Zea (Boddie) Populations in 2010

Patricia V. Pietrantonio, Texas AgriLIFE Research, College Station, TX, Satnam Singh, Punjab Agricultural University, Regional Station, Faridkot, India, **Liliana Castillo**, Greenville College, Greenville, IL, Lori Nemec, Department of Entomology, college Station, TX, Roy Parker, Texas Cooperative Extension, Corpus Christi, TX, Manda G. Cattaneo, Texas AgriLife Extension Service, Seminole, TX, Blayne Reed, Reed Consulting, Kress, TX, Kerry Siders, Texas AgriLIFE Extension, Levelland, TX, Noel Troxclair, Texas Agrilife Extension Service, Uvalde, TX and Monti Vandiver, Texas AgriLife Extension Service, Farwell, TX

8:30 AM 2010 Pyrethroid Resistance Monitoring of Bollworms

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

8:45 AM 2010 Progress Report- Texas Boll Weevil Eradication Program and the Texas Pink Bollworm Program

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

9:00 AM Boll Weevil Eradication Update - Arkansas, 2010

Michael Catanach and Daniel Kiser, Arkansas Boll Weevil Eradication Program, Benton, AR

9:15 AM Arizona Pink Bollworm Eradication Program Update 2010

Leighton R. Liesner¹, Larry Antilla¹, Mike Whitlow¹ and Robert T. Staten², (1)Arizona Cotton Research & Protection Council, Phoenix, AZ, (2)USDA, APHIS, PPQ, CPHST - Retired, Phoenix, AZ

9:30 AM Control of Spider Mites in the Mid-South

Ben Von Kanel¹, Angus Catchot¹, J. Gore², D. R. Cook², B. R. Leonard³, S. D. Stewart⁴, G. Lorenz⁵, Scott Akin⁶ and Glenn Studebaker⁶, (1)Mississippi State University, Mississippi State, MS, (2)Mississippi State University, Stoneville, MS, (3)LSU AgCenter, Winnsboro, LA, (4)Jackson, TN, (5)University of Arkansas, Keiser, AR, (6)University of Arkansas Cooperative Extension Service, Lonoke, AR

9:45 AM Late Season Yield Loss from Spider Mites on Cotton in the Mid-South

A. L. Catchot¹, J. Gore², D. R. Cook², B. R. Leonard³, G. Lorenz⁴, Scott D. Stewart⁵, K. V. Tindall⁶, D. S. Akin⁷, G. Studebaker⁸, R. E. Jackson⁹ and W.S. Scott¹, (1)Mississippi State University, Mississippi State, MS, (2)Mississippi State University, Stoneville, MS, (3)LSU AgCenter, Macon Ridge Station, Winnsboro, LA, (4)University of Arkansas, Keiser, AR, (5)The University of Tennessee, Jackson, TN, (6)Univ. of Missouri, Portageville, MO, (7)University of Arkansas, Monticello, AR, (8)Univ. of Ark.- NEREC, Keiser, AR, (9)USDA-ARS, SIMRU, Stoneville, MS

FRIDAY LATE MORNING - SESSION B

Marquis - 106 & 107 — 10:30 AM-12:00 PM

Presiding: Michael D. Toews, University of Georgia, Department of Entomology, Tifton, GA

10:30 AM Sensitive, Broad-Spectrum Biosensors for Monitoring Current and Any Future Transgenic Plant Technologies for Insect Control

R. M. Roe¹, Ana Cabrera¹, Hosam Ezzledin¹, J. Van Kretschmar¹ and B.W. Bissinger², (1)North Carolina State University, Raleigh, NC, (2)Department of Entomology, NC State University, Raleigh, NC

10:45 AM Temporal Analysis of Electronic Nose (E-nose) Detection of Stink Bug-Injured Cotton Bolls Under Laboratory and Field Conditions

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

11:00 AM Drought Stress and Genotype Interactions Influence Oviposition of Spider Mite on Cotton

Xavier Martini¹, Natalie Kincy² and Christian Nansen¹, (1)Texas AgriLife Research, Lubbock, TX, (2)Texas Tech University, Lubbock, TX

TECHNICAL CONFERENCES PROGRAM

64TH ANNUAL COTTON INSECT RESEARCH AND CONTROL CONFERENCE

Friday, January 7, 2011

11:15 AM Gene Knockdown in *Lygus Lineolaris* by RNA Interference

Margaret L. Allen, US Department of Agriculture, Stoneville, MS and William Benjamin (III) Walker, The Swedish University of Agricultural Sciences, Alnarp, Sweden

11:30 AM Challenges for Rearing of the Stink Bug: Successes, Failures, and RNAi Screening

Jaap B. van Kretschmar¹, A. Dhammi¹, D. Reisig² and R. M. Roe¹, (1) North Carolina State University, Raleigh, NC, (2) North Carolina State University, Plymouth, NC

11:45 AM Bio-Control Potential of the Entomopathogenic Fungus *Beauveria Bassiana* on Mole Crickets, *Gryllotalpa Gryllotalpa* (Orthoptera: Gryllotalpidae)

Ahmed A. Hamed Amin and Idris Salam, Plant Protection Res. Institute, Giza, Egypt

FRIDAY LATE MORNING - SESSION A

Marquis Imperial A — 10:30 AM-12:30 PM

Presiding: Scott Akin, University of Arkansas, Cooperative Extension Service, Lonoke, AR

10:30 AM Insect Infestations, Crop Development and Evolving Management Approaches on a Northeast Arkansas Cotton Farm

Randall G. Luttrell, USDA ARS Southern Insect Management Research Unit, Stoneville, MS, K. C. Allen, USDA-ARS, SIMRU, Stoneville, MS, Patricia O'Leary, Cotton Incorporated, Cary, NC and Tina Gray Teague, Arkansas State University - University of Arkansas Agricultural Experiment Station, State University, AR

10:45 AM Early and Late Season Irrigation Timing Effects on Cotton Susceptibility to Tarnished Plant Bug in Arkansas

Tina Gray Teague, Arkansas State University - University of Arkansas Agricultural Experiment Station, State University, AR

11:00 AM Report on Midsouth Regional Plant Bug Efficacy Trial, 2009-2010

Gus Lorenz¹, S. D. Stewart², A. L. Catchot³, B. R. Leonard⁴, K. V. Tindall⁵, J. Gore⁶, D. R. Cook⁶, D. S. Akin⁷, F. R. Musser³ and G. Stuebaker⁸, (1) University of Arkansas Cooperative Extension Service, Lonoke, AR, (2) Jackson, TN, (3) Mississippi State University, Mississippi State, MS, (4) LSU AgCenter, Winnsboro, LA, (5) Univ. of Missouri, Portageville, MO, (6) Mississippi State University, Stoneville, MS, (7) University of Arkansas, Monticello, AR, (8) Univ. of Ark.- NEREC, Keiser, AR

11:15 AM Efficacy of Selected Insecticides Against Tarnished Plant Bug

Andrew Adams¹, Gordon Snodgrass², J. Gore³, F. R. Musser¹, D. R. Cook³ and A. L. Catchot¹, (1) Mississippi State University, Mississippi State, MS, (2) USDA, Stoneville, MS, (3) Mississippi State University, Stoneville, MS

11:30 AM Rates and Mixing Strategies for Managing Plant Bugs with Insecticides

S. D. Stewart¹, Gus Lorenz², Angus Catchot³, D. Scott Akin², Sandy J. Steckel² and Kyle Pearson², (1) UT Extension, Jackson, TN, (2) University of Arkansas Cooperative Extension Service, Lonoke, AR, (3) Mississippi State University, Mississippi State, MS

11:45 AM Insecticide Termination Rule for Western Tarnished Plant Bug in the Texas High Plains

Megha N. Parajulee, Mahendra B. Adhikari, David L. Kerns, Ram B. Shrestha and Stanley C. Carroll, Texas AgriLife Research and Extension Center, Lubbock, TX

12:00 PM Aldicarb Applied In-Season for Tarnished Plant Bug Management in Cotton

D. R. Cook¹, J. Gore¹, A. L. Catchot², S. D. Stewart³, G. Lorenz⁴, B. R. Leonard⁵, K. V. Tindall⁶, D. S. Akin⁷, G. Stuebaker⁸ and F. R. Musser², (1) Mississippi State University, Stoneville, MS, (2) Mississippi State University, Mississippi State, MS, (3) The University of Tennessee, Jackson, TN, (4) University of Arkansas Cooperative Extension Service, Lonoke, AR, (5) LSU AgCenter, Winnsboro, LA, (6) Univ. of Missouri, Portageville, MO, (7) University of Arkansas, Monticello, AR, (8) Univ. of Ark.- NEREC, Keiser, AR

12:15 PM Feeding Injury to Cotton Caused by *Lygus hesperus* Adults of Different Reproductive States

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



TECHNICAL CONFERENCES PROGRAM

23RD ANNUAL COTTON QUALITY MEASUREMENTS CONFERENCE

Thursday, January 6, 2011

Thursday Afternoon

THURSDAY EARLY AFTERNOON

International C — 1:30 PM-3:15 PM

1:30 PM Direct and Rapid Determination of Cotton Maturity by FT-Mid-IR Technique

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

1:45 PM Impacts of Laboratory Ginning Method on Cotton Fiber Micronaire Measurements

James E. Rodgers, Chanel A. Fortier, Xiaoliang "Leon" Cui and Christopher D. Delhom, USDA-ARS-SRRC, New Orleans, LA

2:00 PM Utilization of Fiber Drafting to Assess Surface Friction

Gary Gamble, Agricultural Research Service, USDA, Clemson, SC

2:15 PM Effect of Cotton Fiber Maturity on Yarn Quality

Eric F. Hequet¹, Nouredine Abidi¹, R. Boman² and J. Wanjura³, (1) Fiber and Biopolymer Research Institute - Dept. Plant & Soil Science, Texas Tech University, Lubbock, TX, (2) Texas AgriLife Extension Service, Lubbock, TX, (3) USDA-ARS, Lubbock, TX

2:30 PM Experience at CSIRO Using the Cottonscope Instrument Which Combines the Cottonscan and Siromat Technologies

G. R. S. Naylor, CSIRO, Belmont, Victoria, Australia

2:45 PM Improving the Accuracy of Predicting Yarn Properties by Selecting Proper Fiber Length Parameters

Xiaoliang "Leon" Cui¹, Yiyun Cai², Christopher D. Delhom³, James E. Rodgers⁴, Devron P. Thibodeaux⁵, Vikki B. Martin⁶ and Michael D. Watson⁶, (1) USDA ARS, SRRC, New Orleans, LA, (2) Louisiana State University, Metairie, LA, (3) USDA-ARS-SRRC, New Orleans, LA, (4) SRRC-ARS-USDA, New Orleans, LA, (5) USDA-ARS-SAA, Clemson, SC, (6) Cotton Incorporated, Cary, NC

3:00 PM Effect of Ginning Treatment on Fiber Quality and Yarn Quality

Chanying Li¹, Andy Knowlton¹ and D.P. Thibodeaux², (1) University of Georgia, Tifton, GA, (2) USDA-ARS-SAA, Cotton Quality Research Station, Clemson, SC

THURSDAY LATE AFTERNOON

International C — 4:00 PM-5:45 PM

4:00 PM Preliminary Cotton and Field Trash Studies Using Near-Infrared Spectroscopy

Chanel A. Fortier¹, James E. Rodgers¹, Jonn Foulk² and D. P. Whitelock³, (1) SRRC-ARS-USDA, New Orleans, LA, (2) USDA-ARS-SAA, Clemson, SC, (3) USDA-ARS Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM

4:15 PM Correlation of HVI vs. Stelometer Fiber Strength and its Application

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

4:30 PM Evaluation and Implementation of a Machine Vision System to Categorize Extraneous Matter In Cotton

M. Siddaiah¹, D. P. Whitelock², S.E. Hughs², S.L. Grantham³ and J.L. Knowlton³, (1) New Mexico State University, Mesilla Park, NM, (2) USDA-ARS Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM, (3) USDA, AMS, Cotton Program, Memphis, TN

4:45 PM Preliminary Assessment of Portable Color Spectrophotometer Measurements of Cotton Color

James E. Rodgers¹, Chanel A. Fortier¹, Xiaoliang "Leon" Cui², Chris Delhom³, Vikki Martin⁴ and Michael Watson⁵, (1) SRRC-ARS-USDA, New Orleans, LA, (2) USDA ARS, SRRC, New Orleans, LA, (3) USDA-ARS-SRRC, New Orleans, LA, (4) Cotton Incorporated, Cary, NC, (5) Cary, NC

5:00 PM Reference Test Methods for Total Water in Lint Cotton by Karl Fischer Titration and Low Temperature Distillation

Joe Montalvo, Terri Von Hoven, Sherwin Cheuk and Thomas North, USDA-ARS-SRRC, New Orleans, LA

5:15 PM On the Cellulose 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

5:30 PM Modeling the Fiber Length Distribution from Data of the Beard Testing Method

Yiyun Cai¹, Xiaoliang "Leon" Cui², James E. Rodgers³, Vikki B. Martin⁴ and Michael D. Watson⁴, (1) Louisiana State University, Metairie, LA, (2) USDA ARS, SRRC, New Orleans, LA, (3) SRRC-ARS-USDA, New Orleans, LA, (4) Cotton Incorporated, Cary, NC

28TH ANNUAL COTTON SOIL MANAGEMENT AND PLANT NUTRITION CONFERENCE

Thursday, January 6, 2011

Thursday Morning

COTTON SOIL MANAGEMENT AND PLANT NUTRITION - SPECIAL SESSION

International 5 & 6 — 10:30 AM-12:00 PM

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

10:30 AM Evaluation of Enhanced Efficiency Nitrogen Fertilizers for Cotton and Corn Production

M. Mozaffari, University of Arkansas, Marianna, AR, Tina Gray Teague, Arkansas State University - University of Arkansas Agricultural Experiment Station, State University, AR and N. A. Slaton, University of Arkansas, Fayetteville, AR

TECHNICAL CONFERENCES PROGRAM

28TH ANNUAL COTTON SOIL MANAGEMENT AND PLANT NUTRITION CONFERENCE

Thursday, January 6, 2011

11:00 AM Petiole Testing and Foliar Feeding Cotton

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

11:30 AM Variable Rate Application of Nitrogen on Georgia Cotton

George Vellidis, Glen Ritchie, Heather Savelle and Glendon H. Harris, University of Georgia, Tifton, GA

Thursday Afternoon

THURSDAY EARLY AFTERNOON

International 5 & 6 — 1:30 PM-3:15 PM

Presiding: Daryl Brian Arnall, Oklahoma State University, Stillwater, OK

1:30 PM Plant Recovery From Early N and K Stress

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

1:45 PM Calcium/Magnesium Ratios and Red or White Lime for Cotton Production

David J. Dunn, Gene Stevens and Andrea Jones, University of Missouri - Delta Center, Portageville, MO

2:00 PM Cotton Response to Residual Nitrogen Following Corn Production

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

2:15 PM Continued Evaluation of Nitrogen Management in Cotton with Mepiquat Pentaborate Following Corn Production

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

2:30 PM Controlled Release Nitrogen Fertilizers for Missouri Cotton Production

Andrea Jones, David Dunn and Gene Stevens, University of Missouri-Delta Center, Portageville, MO

2:45 PM Using Phosphorus Recovered from Animal Manure in Cotton Production

Philip J. Bauer, Ariel A. Szogi, Jeff M. Novak and Matias B. Vanotti, USDA-ARS, Florence, SC

3:00 PM Discussion

THURSDAY LATE AFTERNOON

International 5 & 6 — 4:00 PM-6:00 PM

Presiding: M. Mozaffari, University of Arkansas, Fayetteville, AR

4:00 PM Mineral Nutrition for Optimum Cotton Yield and Fiber Quality

Frank Yin, Owen Gwathmey, Chris Main and Amy Johnson, University of Tennessee, Jackson, TN

4:15 PM Incorporation of Monitoring Systems to Model Irrigated Cotton at a Landscape Level

J.D Booker, Texas Tech University, Lubbock, TX, R. J. Lascano, USDA-ARS, Lubbock, TX and Christine C. Molling, University of Wisconsin-Madison, Madison, WI

4:30 PM Comparing in Field Distribution for Zinc and Phosphorus in Plant and Soil Resulting from Applications of Composite and Mixed Fertilizers

David J. Dunn, Gene Stevens and Andrea Jones, University of Missouri - Delta Center, Portageville, MO

4:45 PM Discussion

5:00 PM Business Meeting

19TH ANNUAL COTTON UTILIZATION CONFERENCE

Thursday, January 6, 2011

Thursday Morning

COTTON UTILIZATION CONFERENCE: A LOOK INTO THE FUTURE

International B — 10:30 AM-12:00 PM

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

10:30 AM Introductory Remarks

10:40 AM Cotton's Share of the Global Fiber Market: Current Challenges and Future Outlook

Mark A. Messura, Cotton Incorporated, Cary, NC

11:10 AM Cotton and Interactive Textiles: A Harmonious Relationship

Sundaresan Jayaraman, Georgia Institute of Technology, Atlanta, GA

Thursday Afternoon

UTILIZATION: COTTON FABRIC CHEMISTRY & PRODUCTS

THURSDAY EARLY AFTERNOON

International A — 1:30 PM-3:15 PM

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

1:30 PM Exploring Enzymes on Cotton and Their Product Targets

Vince Edwards, Nicolette Prevost, Brian Condon and Alfred D. French, USDA-ARS-SRRC, New Orleans, LA



TECHNICAL CONFERENCES PROGRAM

19TH ANNUAL COTTON UTILIZATION CONFERENCE

Thursday, January 6, 2011 and Friday January 7, 2011

1:55 PM Performance Enhancement of Citric Acid as a Formaldehyde Free Easy Care Cross-Linker by Using Nano Titanium Dioxide and Novel Additive for Cotton
Muhammad Mohsin, Chris Carr and Muriel Rigout, The University of Manchester, Manchester, United Kingdom

2:20 PM Unraveling Cellulose Fibers: A Twisted Tale
Jodi A. Hadden, Complex Carbohydrate Research Center - University of Georgia, Athens, GA, Glenn P. Johnson, Srrc, SRRC, USDA-ARS, New Orleans, LA, Alfred D. French, USDA-ARS, SRRC, New Orleans, LA and Robert J. Woods, Complex Carbohydrate Research Center, Athens, GA

2:45 PM Calculations of Young's Moduli for Cellulose Iβ
Michael Santiago Cintrón¹, Glenn P. Johnson² and Alfred D. French¹, (1)USDA-ARS, SRRC, New Orleans, LA, (2)Srrc, USDA-ARS, SRRC, New Orleans, LA

THURSDAY LATE AFTERNOON

International A — 4:00 PM-5:15 PM

Presiding: J. Vincent Edwards, USDA-ARS, SRRC, New Orleans, LA

4:00 PM Digitally Printed Cotton Fabrics with Improved Visibility for Safety Apparel
Grace W. Namwamba, Southern University Agricultural Research and Extension Center, Baton Rouge, LA and Vamshi Krishna Naarani, Southern University Agricultural Research & Extension Center, Baton Rouge, LA

4:25 PM Interactions Between Cotton Denim Fabric Coated with Antimicrobial Finishes and Human Skin
Venkata Rama Kolli, Kamaleshwar P Singh and Seshadri Ramkumar, Texas Tech University, Lubbock, TX

4:50 PM Electron Density Studies of Methyl Cellobioside
 Edwin D. Stevens¹, Michael K. Dowd², Glenn P. Johnson² and **Alfred D. French²**, (1)University of New Orleans, New Orleans, LA, (2)USDA-ARS, SRRC, New Orleans, LA

UTILIZATION: NONWOVENS

THURSDAY EARLY AFTERNOON

International B — 1:30 PM-3:15 PM

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

1:30 PM Chairman's Remarks: DV Parikh, USDA-SRRC, New Orleans, LA

1:35 PM Greetings: Edgar King, USDA-ARS, Stoneville, MS

1:40 PM Welcome: Ed Cleveland, USDA-ARS, New Orleans, LA

1:45 PM Today's Cotton & the Environment: Sustainable Systems for Today and Tomorrow

Janet O'Regan, Cotton Incorporated, Cary, NC

2:10 PM Keynote Address: Cotton Nonwovens for Oil Industry
 Vinitkumar Singh and **Seshadri S. Ramkumar**, Texas Tech University, Lubbock, TX

2:35 PM Plasma Treatment of Cotton Nonwovens
Sudheer Jinka¹, Rory Wolf² and Seshadri S. Ramkumar¹, (1)Texas Tech University, Lubbock, TX, (2)Enercon Industries, Menomonee Falls, WI

3:00 PM Discussion/Announcement

THURSDAY LATE AFTERNOON

International B — 4:00 PM-5:40 PM

Presiding: Manjeshwar Kamath, Georgia Institute of Technology, Atlanta, GA

4:00 PM Comparative Study of Through-Air Bonded and Thermal Calendered Nonwovens
Gajanan S. Bhat, University of Tennessee, Knoxville, TN, Raghavendra Hegde, The University of Tennessee, Knoxville, TN, D. V. Parikh, SRRC-ARS-USDA, New Orleans, LA and Brian Condon, USDA-ARS-SRRC, New Orleans, LA

4:25 PM Filtration Efficiency of the Composite Nanofiber Media
Muralidhar Lalagiri, Vinitkumar Singh and Seshadri S. Ramkumar, Texas Tech University, Lubbock, TX

4:50 PM Antibacterial Flame Retardant Cotton High Loft Nonwovens
 Rohit Uppal¹, **Gajanan S. Bhat¹**, Kokouvi Akato², Dharnidhar Parikh³, Sunghyun Nam³ and B. Condon³, (1)University of Tennessee, Knoxville, TN, (2)University of Tennessee Nonwoven Research Laboratory, Knoxville, TN, (3)USDA-ARS-SRRC, New Orleans, LA

5:15 PM Effect of Phosphorus and Nitrogen on Thermal Decomposition Kinetics of Flame Retardant Cotton
Sunghyun Nam¹, D.V. Parikh¹, B. Condon¹ and Fei Yao², (1)USDA-ARS-SRRC, New Orleans, LA, (2)Louisiana State University, Baton Rouge, LA

Friday Morning

FRIDAY EARLY MORNING

International B — 8:00 AM-10:00 AM

Presiding: Hiram Allen, USDA-ARS, SRRC, New Orleans, LA

8:00 AM Determination of Dynamic Wiping Efficiency of Cotton-Based Nonwoven Textile Substrates for Toxic Chemical Decontamination

Utkarsh Sata¹, Carlos Brun² and Seshadri Ramkumar¹, (1)The Institute of Environmental and Human Health, Texas Tech University, Lubbock, TX, (2)Texas Tech University, Petroleum Engineering Department, Lubbock, TX

8:25 AM Microencapsulation Technology Using Essential Oils to Produce Durable Textile Functionalities
Suraj Sharma and Joo Ran Kim, Department of Textiles, Merchandising and Interiors, University of Georgia, Athens, GA

TECHNICAL CONFERENCES PROGRAM

19TH ANNUAL COTTON UTILIZATION CONFERENCE

Friday January 7, 2011

8:50 AM Degradable Mulch Evaluation: A Field Study - Year 1

Karen K. Leonas¹, Hang Liu¹, Jeremy Cowan¹, Douglas G. Hayes², Larry Wadsworth², Russell Wallace³, Carol Miles⁴, Annette Wszelaki² and Deborah Inglis⁴, (1)Washington State University, Pullman, WA, (2)University of Tennessee, Knoxville, TN, (3)Texas A&M University, Lubbock, TX, (4)Washington State University, Mt. Vernon, WA

9:15 AM Biodegradation of Nonwoven Fabrics in Soil

Duane C. Wolf, Mary M. Warnock and Edward E. Gbur, University of Arkansas, Fayetteville, AR

9:40 AM Recent Developments in Producing High Strength Fibers

Manjeshwar Kamath, Satish Kumar and Han Gi Chae, Georgia Institute of Technology, Atlanta, GA

FRIDAY LATE MORNING

International B — 10:30 AM-12:00 PM

Presiding: Janet O'Regan, Cotton Incorporated, Cary, NC

10:30 AM Our Experience in Processing Greige Cottons for Certain Nonwoven Base Materials

Michael Reynolds, Hiram Allen, Paul Sawhney, Brian Condon and Ryan Slopek, U.S.Department of Agriculture, New Orleans, LA

10:55 AM Electrokinetic Properties of Nonwoven Incontinence Devices

Vince Edwards and Brian Condon, USDA-ARS-SRRC, New Orleans, LA

11:20 AM Effect of Varying Nonwoven Cotton Substrate and the Properties of the Surfactant Solution upon the Adsorption of Aqueous Solutions of Alkyl-Dimethyl-Benzyl-Ammonium Chloride

Ryan Slopek, Brian Condon, Paul Sawhney, Michael Reynolds and Chuck Allen, U.S.Department of Agriculture, New Orleans, LA

11:45 AM Summarizing the Nonwovens Symposium

Mary Warnock, University of Arkansas, Fayetteville, AR

11:55 AM Thanks/Adjourn - Dr. G. Bhat, University of Tennessee, Knoxville, TN

UTILIZATION: TEXTILE TECHNOLOGY

TEXTILE TECHNOLOGY SYMPOSIUM

International A — 8:00 AM-10:00 AM

8:00 AM Welcoming Remarks

8:15 AM The Impact of Variety and Location on the Quality of Georgia Cotton

Devron Thibodeaux¹, Jared R. Whitaker², Andy Knowlton³, Phillip M. Roberts³, Glen Ritchie³, Guy Collins³ and Richey Seaton⁴, (1) Agricultural Research Service, USDA, Clemson, SC, (2)University of Georgia, Statesboro, GA, (3)University of Georgia, Tifton, GA, (4) Georgia Cotton Commission, Perry, GA

8:30 AM The Quality of Texas Plains Cotton: Recent Achievements and Current Challenges

Mourad Krifa, The University of Texas at Austin, Austin, TX

8:45 AM Evaluating the Immature Fiber Bias in Cotton Fiber Cross Section Analysis

Lakshmi Padmaraj, Mourad Krifa and Bugao Xu, The University of Texas at Austin, Austin, TX

9:00 AM Revisiting the Technological and Market Value of Cotton in View of the Current Global Economy

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

9:15 AM Study of Dynamic Behavior in Cotton Blended Elastomeric Slub Yarns

Sayed Ibrahim, Jiri Militky, Dana Kremenakova and Rajesh Mishra, Technical University of Liberec, Liberec, Czech Republic

9:30 AM Cottonspec – A Cotton Fibre and Yarn Quality Management Tool

Shouren Yang¹, Stuart Gordon¹ and Lamei Wu², (1)CSIRO, Geelong, Australia, (2)China Chongqing Sanxia Technical Textile Co. Ltd., Chongqing, China

9:45 AM The Quality Index of Extra Long and Strong Egyptian Cottons - A Comparative Study

Prof. Dr. Eng. Ibrahim Abdou Elhawary, Alexandria University, Alexandria., Egypt

JOINT SESSION: COTTON QUALITY MEASUREMENTS AND UTILIZATION CONFERENCES

International A — 10:30 AM-12:00 PM

10:30 AM Fiber Lengths Within Georgia Varieties

Jonn Foulk, USDA-ARS-SAA, Clemson, SC, Herman Senter, Clemson University, Clemson, SC and D.P. Thibodeaux, USDA-ARS-SAA, Cotton Quality Research Station, Clemson, SC

10:45 AM Clustering Cotton Fiber Length Distributions Using Shape Features

Mourad Krifa, The University of Texas at Austin, Austin, TX

11:00 AM Miniature Spinning as a Fiber Quality Assessment Tool

C. D. Delhom¹, X. Cui¹, D.P. Thibodeaux² and J.E. Rodgers¹, (1)USDA-ARS-SRRC, New Orleans, LA, (2)USDA-ARS-SAA, Cotton Quality Research Station, Clemson, SC

11:15 AM Quantification of Fabrics Surfaces

Jiri Militky, Dana Kremenakova and Sayed Ibrahim, Technical University of Liberec, Liberec, Czech Republic

11:30 AM Measuring the Satbility of Jacquard Knitted Fabric by IMAGE Processing

Sherien Nabil ElKateb, Alex. Univ., Faculty of Engineering. Egypt., Egypt, Alexandria, Egypt



TECHNICAL CONFERENCES PROGRAM

35TH ANNUAL COTTON WEED SCIENCE RESEARCH CONFERENCE

Thursday, January 6, 2011

Thursday Morning

COTTON WEED SCIENCE RESEARCH - SPECIAL SESSION

International 7 & 8 — 10:30 AM-12:00 PM

10:30 AM **Glyphosate-Resistant Palmer Amaranth Gaining a Foothold in Alabama**

Charles H. Burmester, Auburn University, Tennessee Valley Regional Res and Ext Ctr, Belle Mina, AL and **Michael G. Patterson**, Auburn University, Auburn University, AL

11:00 AM **Rethinking Weed Control: Resistance Management and Emphasis on the Soil Seedbank**

Jason K. Norsworthy, University of Arkansas, Fayetteville, AR

11:30 AM **Developing a Herbicide Resistant Weed Management Plan**

Eric Prostko, University of Georgia, Tifton, GA

Thursday Afternoon

THURSDAY EARLY AFTERNOON

International 7 & 8 — 1:30 PM-3:15 PM

1:30 PM **Dinitroaniline-Resistant Palmer Amaranth (*Amaranthus palmeri*) in Georgia**

William Vencill and **Jared Whitaker**, University of Georgia, Athens, GA

1:45 PM **Tolerance of WideStrike Cotton to Ignite Tank Mix Applications**

L. E. Steckel¹, **D. O. Stephenson**², **Jason A. Bond**³, **Kelly Barnett**¹ and **Scott D. Stewart**¹, (1)University of Tennessee, Jackson, TN, (2)LSU AgCenter, Alexandria, LA, (3)Mississippi State University, Stoneville, MS

2:00 PM **Tolerance of Widestrike™ Cotton to Glufosinate**

Darrin M. Dodds, Mississippi State University, Mississippi State, MS, **L. T. Barber**, Division of Agriculture, University of Arkansas, Little Rock, AR, **N.W. Buehring**, North Mississippi Research and Extension Center, Verona, MS, **Guy D. Collins**, University of Georgia, Tifton, GA and **Christopher L. Main**, University of Tennessee, Jackson, TN

2:15 PM **Managing Glyphosate-Resistant Palmer Amaranth Using 2,4-D Systems in DHT Cotton in GA, NC, and TN**

A. Stanley Culpepper, The University of Georgia, Tifton, GA, **J.S. Richburg**, Dow AgroSciences LLC, Indianapolis, IN, **A.C. York**, North Carolina State University, Raleigh, NC, **L. E. Steckel**, University of Tennessee, Jackson, TN and **L. B. Braxton**, Dow AgroSciences, Travelers Rest, SC

2:30 PM **Influence of Weed Size on Palmer Amaranth and Pitted Morningglory Control with Combinations of Glufosinate, Dicamba, and 2,4-D**

J. K. Norsworthy, **B. Johnson** and **M.J. Wilson**, University of Arkansas, Fayetteville, AR

2:45 PM **Control of Various Weeds with 2,4-D Alone or Co-Applied with Glufosinate or Glyphosate**

Daniel O. Stephenson, LSU AgCenter, Alexandria, LA, **Jason A. Bond**, Mississippi State University, Stoneville, MS, **Jonathan Seibert**, Dow AgroSciences, Greenville, MS and **Larry Walton**, Dow AgroSciences, Tupelo, MS

3:00 PM **The Effect of Dicamba on Glyphosate Activity in Grass Species**

Chad L. Smith, **Daniel B. Reynolds**, **J. Trenton Irby** and **Reed C. Storey**, Mississippi State University, Mississippi State, MS

THURSDAY LATE AFTERNOON

International 7 & 8 — 4:00 PM-6:00 PM

4:00 PM **Ignite Rate and Timing In LibertyLink Cotton**

Jason A. Bond and **Thomas W. Eubank**, Mississippi State University, Stoneville, MS

4:15 PM **Timing of Fall Residual Herbicides for Control of Glyphosate-Resistant Italian Ryegrass**

Jason A. Bond, **Thomas W. Eubank**, **Robin C. Bond** and **Vijay K. Nandula**, Mississippi State University, Stoneville, MS

4:30 PM **Managing Glyphosate-Resistant Italian Ryegrass Using Clethodim Based Programs**

Robin C. Bond, **Jason A. Bond**, **Thomas W. Eubank** and **Vijay K. Nandula**, Mississippi State University, Stoneville, MS

4:45 PM **Palmer Amaranth Seed Mortality in Response to Burial Depth and Time**

Lynn M. Sosnoskie¹, **Theodore M. Webster**² and **A. Stanley Culpepper**¹, (1)University of Georgia, Tifton, GA, (2)USDA-ARS, Tifton, GA

5:00 PM **Impact of Tillage on Controlling Palmer Amaranth by Various Residual Herbicides**

Jeremy M. Kichler, University of Georgia, Oglethorpe, GA, **A. Stanley Culpepper**, The University of Georgia, Tifton, GA and **Lynn M. Sosnoskie**, University of Georgia, Tifton, GA

5:15 PM **Influence of Deep Tillage and a Rye Cover Crop on Palmer Amaranth Emergence in Cotton**

Justin D. DeVore, **J. K. Norsworthy**, **D. B. Johnson**, **M. J. Wilson** and **G. M. Griffith**, University of Arkansas, Fayetteville, AR

5:30 PM **Palmer Amaranth Control Utilizing a High-Residue Cultivator in Cotton**

Andrew Price¹, **C. Dale Monks**² and **Michael Patterson**², (1)USDA-ARS, Auburn, AL, (2)Auburn University, Auburn, AL

5:45 PM **Palmer Amaranth and Barnyardgrass Control as Influenced by Weed Size, Glufosinate Rate, Volume, and Spray Tip**

R. C. Doherty, **K.L. Smith**, **J. A. Bullington** and **J.R. Meier**, University of Arkansas - Division of Agriculture, Monticello, AR

TECHNICAL CONFERENCES PROGRAM

35TH ANNUAL COTTON WEED SCIENCE RESEARCH CONFERENCE

Friday, January 7, 2011

Friday Morning

GRADUATE STUDENT PAPER SESSION

International 7 & 8 — 7:45 AM-10:00 AM

7:45 AM Program Approaches Using MON 63410 for Controlling Palmer Amaranth

J. A. Bullington, K. L. Smith, R. C. Doherty and J. R. Meier, University of Arkansas - Division of Agriculture, Monticello, AR

8:00 AM Evaluation of Herbicide Control of Volunteer Roundup Ready® Corn and Soybean in Roundup Ready® Cotton

Reed C. Storey, Daniel B. Reynolds, J. Trenton Irby and Chad L. Smith, Mississippi State University, Mississippi State, MS

8:15 AM Weed Response to Glufosinate Applied Alone or Mixed with 2,4-D or Dicamba in Georgia, North Carolina, and Tennessee

Rand Merchant¹, A. Stanley Culpepper¹, Alan York², L. E. Steckel³ and Lynn M. Sosnoskie¹, (1)University of Georgia, Tifton, GA, (2)North Carolina State University, Raleigh, NC, (3)University of Tennessee, Jackson, TN

8:30 AM Cotton Response to Simulated Drift Rates of Dicamba, Glufosinate, and 2,4-D

Jenny Johnson, L.R. Fisher, D.L. Jordan, K.L. Edmisten, J.A. Priest, D.S. Whitley, P.M. Eure, M.C. Vann and A.C. York, North Carolina State University, Raleigh, NC

8:45 AM Residual Programs for Control of Glyphosate-Resistant Palmer Amaranth in Liberty Link and Roundup Ready Flex Cotton

D.B. Johnson, J.K. Norsworthy and G. Griffith, University of Arkansas, Fayetteville, AR

9:00 AM Comparison of Length of Residual Palmer Amaranth Control Among Herbicides

M.J. Wilson, J. K. Norsworthy, D. B. Johnson and C. E. Starkey, University of Arkansas, Fayetteville, AR

9:15 AM Influence of Glufosinate Timing on Cotton Growth and Yield

Kelly A. Barnett¹, Lawrence E. Steckel¹, Alan C. York² and A. Stanley Culpepper³, (1)University of Tennessee, Jackson, TN, (2)North Carolina State University, Raleigh, NC, (3)University of Georgia, Tifton, GA

9:30 AM Control of Palmer Amaranth in GlyTol™ + LibertyLink® Cotton

Jacob D. Reed, Texas AgriLife Research, Lubbock, TX, Peter A. Dotray, Texas Tech University, Texas AgriLife Research, and Texas AgriLife Extension, Lubbock, TX and Wayne Keeling, Texas Agrilife Research, Lubbock, TX

9:45 AM Control of Ivyleaf Morningglory in GlyTol™ + LibertyLink® Cotton

Peter A. Dotray, Texas Tech University, Texas AgriLife Research, and Texas AgriLife Extension, Lubbock, TX, Jacob D. Reed, Texas AgriLife Research, Lubbock, TX and Wayne Keeling, Texas Agrilife Research, Lubbock, TX

FRIDAY LATE MORNING

International 7 & 8 — 10:30 AM-12:30 PM

10:30 AM GlyTol/Liberty Link Cotton: Management Considerations

Gaylon Morgan, Paul Baumann, Dale Mott and Matt Matocha, Texas AgriLife Extension, College Station, TX

10:45 AM Tolerance of GlyTol® + TwinLink® Cotton Technology From Bayer CropScience to Glyphosate and Ignite®280 Herbicides

Scott Baker, Bayer CropScience, Memphis, TN, Gary Henniger, Bayer CropScience, Lubbock, TX and Walt Mullins, Bayer CropScience, Collierville, TN

11:00 AM Comparison of GlyTol + LibertyLink Cotton Tolerance to Other Glyphosate or Glufosinate Based Cropping Systems

J. Trenton Irby¹, Darrin M. Dodds¹, Daniel B. Reynolds¹, Reed C. Storey¹, Chad L. Smith¹ and Christopher L. Main², (1)Mississippi State University, Mississippi State, MS, (2)University of Tennessee, Jackson, TN

11:15 AM Modeling the Evolution of Barnyardgrass (*Echinochloa crus-galli*) Resistance to Glyphosate in Cotton and Its Management Implications

Muthukumar Bagavathiannan¹, Jason Norsworthy¹, Kenneth L. Smith² and Paul Neve³, (1)University of Arkansas, Fayetteville, AR, (2)University of Arkansas, Monticello, AR, (3)Wellesbourne, United Kingdom

11:30 AM Glyphosate-Resistant Weed Control in Cotton

J.R. Meier, K.L. Smith, J. A. Bullington and R.C. Doherty, University of Arkansas - Division of Agriculture, Monticello, AR

11:45 AM Management of Volunteer GlyTol®/LibertyLink® Cotton

Gary Henniger, Bayer CropScience, Lubbock, TX and J. Wayne Keeling, Texas Agrilife Research, Lubbock, TX

12:00 PM Business Meeting



TECHNICAL CONFERENCES PROGRAM

TECHNICAL CONFERENCES POSTER BOARD SESSION

Wednesday, January 5, 2011, Noon - 10:00 PM

Thursday, January 6, 2011, 8:00 AM - 10:00 PM

Friday, January 7, 2011, 8:00 AM - Noon

Authors present at posters Thursday, January 6, 3:15 PM-4:00 PM

Marquis Imperial B

Posters will be on display in International 1 & 2 for the following:

COTTON ECONOMICS AND MARKETING CONFERENCE

COTTON AGRONOMY & PHYSIOLOGY CONFERENCE POSTERS

1. **Methodology for Rapid Differentiation of Genotypes of Cotton (*Gossypium* Spp.) with Molecular Markers** - Andrea Acuna and James McD. Stewart, University of Arkansas, Fayetteville, AR
2. **Genetic and Molecular Characterization of OSMII Over-Expressing Transgenic Cotton (*G. hirsutum* L.) Plants** - Shanmukh Salimath¹, Swati Tripathy¹, David Kerns² and Kent Chapman¹, (1)University of North Texas, Denton, TX, (2)Texas AgriLife Extension Service, Lubbock, TX
3. **Identification of Genes Differentially Expressed in Elongating Fiber in a Cotton Chromosome Substitution Line CS-B25** - Din-Pow Ma, Department of Biochemistry and Molecular Biology, Mississippi State University, Mississippi State, MS and Samuel Bandi, Mississippi State University, Mississippi State, MS
4. **Expression of Genes Involved in Drought Tolerance in Response to Osmotic Shock in Six Genotypes of Cotton Roots** - Cristian Ivan Delgado Salas, University of Arkansas, Fayetteville, AR
5. **The Effects of Cotton Fruiting Habits on Yield and Quality in Georgia** - Glen Ritchie, Guy Collins, Jared Whitaker and Lola Sexton, University of Georgia, Tifton, GA
6. **Improved Salt Tolerance by Alleviating the Osmotic Stress, Ion Toxicity and Nutrient Imbalance in AhCMO Transgenic Cotton** - Jianlong Dai¹, Liusheng Duan¹ and Hezhong Dong², (1)China Agricultural University, Beijing, China, (2)Cotton Research Center, Shandong Academy of Agricultural Sciences, Jinan, China
7. **Salinity Effect on Cotton N Uptake and Assimilation of Urea Applied with NBPT and DCD** - Eduardo Kawakami and Derrick M. Oosterhuis, University of Arkansas, Fayetteville, AR
8. **Salinity Stress Decreased Toxin Protein Content in Detached Leaf of Bt Cotton** - Maoying Li, Liusheng Duan, Xiaoli Tian, Zhaohu Li and Baomin Wang, State Key Laboratory of Plant Physiology and Biochemistry, Center of Crop Chemical Control, China Agricultural University, Beijing, China
9. **The Shoot Plays An Important Role in Potassium Deficiency-Induced Senescence in Cotton (*Gossypium hirsutum* L.) Seedlings** - Ye Wang, Bo Li, Zhiyong Zhang, Baomin Wang, Liusheng Duan, Zhaohu Li and Xiaoli Tian, State Key Laboratory of Plant Physiology and Biochemistry, Center of Crop Chemical Control, China Agricultural University, Beijing, China
10. **Mechanism Involved in Carbon and Nitrogen Metabolism Underlying the Genetic Variation in the Tolerance to Potassium Deficiency in Cotton (*Gossypium hirsutum* L.) Seedlings** - Ning Wang, Hanbai Hua, Zhaohu Li, Liusheng Duan and Xiaoli Tian, State Key Laboratory of Plant Physiology and Biochemistry, Center of Crop Chemical Control, China Agricultural University, Beijing, China
11. **Changes in Gene Expression Associated with Heat Stress in Cotton as Determined by Deep Sequencing of cDNA Libraries** - Shankar Pant¹, Narendra K. Singh², David Weaver², Zhong Min², Chia Chen Weng¹ and Robert D. Locy², (1)Auburn University, Auburn, AL, (2)Auburn University, Auburn University, AL
12. **The Effect of Low Temperature on the Insecticidal Properties of Bt Cotton** - Dehua Chen¹, Yuan Chen¹, Xiang Zhang², Yonghui Wang² and Mingwei Zhang², (1)Yangzhou University, China, Yangzhou, China, (2)Yangzhou University, Yangzhou, China
13. **The Role of ABA-Responsive Transcription Factors in the Regulation of Cotton Drought Stress Tolerance** - Tyson C. C. Kerr and Randy D. Allen, Oklahoma State University, Stillwater, OK
14. **Genotypic Thermotolerance is Associated with Elevated Pre-Stress Antioxidant Enzyme Activity in Cotton Leaves and Pistils** - John L. Snider, Derrick M. Oosterhuis and Eduardo M. Kawakami, University of Arkansas, Fayetteville, AR
15. **Early Leaf Development and Photosynthetic Capacity Affects Seedling Vigor of Cotton** - Melissa A. Remley¹, Shengjun Liu¹, Andrea Phillips Jones¹, Robert L. Nichols² and Felix B. Fritsch¹, (1)University of Missouri, Columbia, MO, (2)Cotton Incorporated, Cary, NC

TECHNICAL CONFERENCES PROGRAM

TECHNICAL CONFERENCES POSTER BOARD SESSION

16. **Microlysimeters to Measure the Water Use of Seedling Cotton - Jamey Duesterhaus¹**, R. J. Lascano², Jill D. Booker³, J.D Booker⁴ and T. S. Goebel², (1)USDA ARS, Lubbock, TX, (2)USDA-ARS, Lubbock, TX, (3)Texas Agricultural Experiment Station, Lubbock, TX, (4) Texas Tech University, Lubbock, TX
17. **Comparison of Lysimetric Whole-Plant Water Use Among Cotton Genotypes** - Carlos J. Fernandez¹, **Juan Carlos Correa¹**, Todd J. Jenschke², Jane K. Dever³ and Steven Hague⁴, (1)Texas AgriLife Research and Extension Center, Corpus Christi, TX, (2)Texas AgriLife Research and Extension Center at Corpus Christi, Corpus Christi, TX, (3)Texas AgriLife Research, Lubbock, TX, (4)Texas A&M University, College Station, TX
18. **Cotton Response to Irrigation Interval and Level as Affected by Field Topography Using Subsurface Drip Irrigation - Cora Lea W. Emerson¹**, James P. Bordovsky², J. T. Mustian² and Andy M. Cranmer², (1)Texas AgriLife Research and Extension, Plainview, TX, (2) Texas AgriLife Research, Plainview, TX
19. **Evaluation of Twin-Row Cotton in South Carolina - Michael A. Jones**, Clemson University, Florence, SC and Will Henderson, Clemson University, Blackville, SC
20. **Evaluation of Growth and Yield of Field Grown Cotton Across Population Densities Using Subsurface Drip and Furrow Irrigation - Alexis D. White** and J. T. Cothren, Texas A&M University- College Station, College Station, TX
21. **Crop Rotations Involving Cotton in Southeast Virginia - David L. Holshouser¹**, Pat Phipps¹, D. Ames Herbert¹, Chris Teutsch² and J.C. Faircloth³, (1)Virginia Tech - Tidewater AREC, Suffolk, VA, (2)Virginia Tech - Southern Piedmont AREC, Blackstone, VA, (3)PhytoGen Cottonseed, Dow AgroSciences, Indianapolis, IN
22. **On-Farm Glyphosate-Resistant Palmer Amaranth Management in Roundup Ready Flex, Liberty-Link, and Conventional Cotton Varieties - Michael G. Patterson¹**, C. Dale Monks¹, William C. Birdsong², Brandon A. Dillard² and Andrew J. Price³, (1)Auburn University, Auburn University, AL, (2)Auburn University, Auburn, AL, (3)USDA, Auburn University, AL
23. **On-Farm Agronomic and Economic Evaluation of Stacked-Gene Cotton Cultivars in the Coastal Bend Region of Texas - Dale A. Mott¹**, G.D. Morgan¹, M.R. Hiller², B.M. Batchelor³, P.J. McGuill⁴, C.R. Crumley⁵, K.J. Matheney⁶, J.P. Ott⁷, J.W. Ripple⁸ and J.M. Gersbach⁹, (1) Texas AgriLife Extension Service, College Station, TX, (2)Texas AgriLife Extension Service, Edna, TX, (3)Texas AgriLife Extension Service, Bay City, TX, (4)Texas AgriLife Extension Service, Wharton, TX, (5)Texas AgriLife Extension Service, Wharton, TX, (6)Texas AgriLife Extension Service, Columbus, TX, (7)Texas AgriLife Extension Service, Hondo, TX, (8)Texas AgriLife Extension, Georgetown, TX, (9)Texas AgriLife Extension Service, Cameron, TX
24. **Yield Potential, Fiber Quality and Adaptability of Glandless Cotton in New Mexico - Omololu, John Idowu¹**, Jinfa Zhang¹, Robert, Paul Flynn¹, Jane, Breen Pierce¹, Tracey Carrillo¹, Charles, Scott Bundy¹ and Thomas C. Wedegaertner², (1)New Mexico State University, Las Cruces, NM, (2)Cotton Incorporated, Cary, NC
25. **Simulated Hail Recovery Comparison Between Stripper and Picker Varieties of Upland Cotton - Reagan Anders** and Jane K Dever, AgriLife Research, Lubbock, TX
26. **Effect of Soil Fumigation and Nematode Population on Variety Performance - Darrin M. Dodds¹**, Tom Allen², D. R. Cook² and J. Gore², (1)Mississippi State University, Mississippi State, MS, (2)Mississippi State University, Stoneville, MS
27. **Plant Height, Maturity and Yield of Transgenic Bt Cotton Treated with Different Plant Growth Regulators** - Xiaoming Ren, Xifeng Fan, Mingwei Du, Xiaoli Tian, Liusheng Duan and **Zhaohu Li**, State Key Laboratory of Plant Physiology and Biochemistry, Center of Crop Chemical Control, China Agricultural University, Beijing, China
28. **1-MCP Effects on Antioxidant Activity and Gene Expression of ACC-Synthase and ACC-Oxidase in Cotton Flowers - Derrick M. Oosterhuis**, Eduardo M. Kawakami, John Snider, Justin B. Phillips and Toby R. Fitzsimons, University of Arkansas, Fayetteville, AR
29. **Effect of 1-MCP on the Cotton Flower Under Water-Deficit - Dimitra A. Loka** and Derrick M. Oosterhuis, University of Arkansas, Fayetteville, AR
30. **Cotton Seedling Leaf Area and Biomass Development Differ Among Genotypes - Shengjun Liu¹**, Melissa A. Remley², Andrea Phillips³, Fred M. Bourland⁴, Robert L. Nichols⁵ and Felix B. Fritschi¹, (1)University of Missouri, Columbia, MO, (2)University of Missouri-Columbia, Columbia, MO, (3)University of Missouri, Portageville, MO, (4)University of Arkansas-NEREC, Keiser, AR, (5)Cotton Incorporated, Cary, NC
31. **Evaluation of the Effect of 1-MCP and Ethephon on the Growth and Yield of Field-Grown Cotton - Yuan Chen**, Texas A&M University Department of Soil and Crop Sciences, College Station, TX
32. **Evaluation of Saflufenacil as a Cotton Harvest Aid in the Southern Rolling Plains - David R. Drake¹**, R.R. Minzenmayer² and P. Halfmann¹, (1)Texas AgriLife Extension, San Angelo, TX, (2)Texas AgriLife Extension Service, Ballinger, TX



TECHNICAL CONFERENCES PROGRAM

TECHNICAL CONFERENCES POSTER BOARD SESSION

33. **Application of Harvest Aids in Huanghuaihai Cotton Region of China** - Mingwei Du, Xiaoli Tian, Xiaoming Ren, Liusheng Duan and **Zhaohu Li**, State Key Laboratory of Plant Physiology and Biochemistry, Center of Crop Chemical Control, China Agricultural University, Beijing, China
34. **Management of Micronaire Values in Upland Cotton by Defoliation Timing in Three Mid-Full Season Cultivars** - **Ross A. Rinderknecht** and J. T. Cothren, Texas A&M University, College Station, TX
35. **New Chemistry for Chemical Cotton Stalk Destruction** - Gaylon Morgan, Texas AgriLife Extension, College Station, TX, Dan Fromme, Texas AgriLife Extension, Corpus Christi, TX and **Mott Dale**, Texas AgriLife Extension Service, College Station, TX

COTTON DISEASE COUNCIL POSTERS

36. **Reniform Nematode Reproduction on Soybean Cultivars and Breeding Lines in 2010** - **R. T. Robbins**¹, E. Shipe², P. Arelli³, G. Shannon⁴, Katy M. Rainey⁵, P. Chen¹, L. E. Jackson¹, E. E. Gbur⁶, D. G. Dombek¹ and Jeff T. Velie⁶, (1)University of Arkansas, Fayetteville, AR, (2)Clemson University, Clemson, SC, (3)USDA, Jackson, TN, (4)Univ. of Missouri, Delta Center, Portageville, MO, (5)Virginia Tech, Blacksburg, VA, (6)Univ. of Arkansas, Fayetteville, AR
37. **Evaluation of Variety Tolerance and Chemical Management of Southern Root-Knot Nematodes** - **Manda Cattaneo**, Texas AgriLife Extension Service, Seminole, TX, Terry A. Wheeler, Texas Agrilife Research, Lubbock, TX and Jason E. Woodward, Texas AgriLife Extension Service, Lubbock, TX
38. **New Nematicide Potentials in Cotton in the Southeast and Mid-South** - **Kathy S. Lawrence**¹, Gary W. Lawrence², Scott R. Moore¹ and Kurt C. Showmaker², (1)Auburn University, Auburn University, AL, (2)Mississippi State University, Mississippi State, MS
39. **Phylogenetic Analysis Based on the Pks Gene Involved in Fusaric Acid Biosynthesis Production Reveals Close Relationship Between US Race 1 Lineage Isolates and Australian Biotype Isolates of *Fusarium oxysporum* F. Sp. *Vasinfectedum*** - **Jinggao Liu**, Al. A. Bell, R. D. Stipanovic and Lorraine Puckhaber, USDA-ARS-SPARC, College Station, TX
40. **Genetic Analysis and QTL Mapping of Fusarium Wilt Resistance in *Gossypium barbadense* Cotton in China** - **Yanying Qu**, Quanjia Chen and Jiqin Li, Xinjiang Agriculture University, Urumqi, China
41. **Fusarium Race 4: Management Recommendations for Growers** - **Robert B. Hutmacher**¹, Steven D. Wright², Mauricio Ulloa³, R. Michael Davis⁴, Brian H. Marsh⁵, Daniel S. Munk⁶, Mark P. Keeley⁷, Gerardo Banuelos² and Raul Delgado⁸, (1)University of California - Davis & West Side REC, Five Points, CA, (2)University of California Cooperative Extension, Tulare, CA, (3)USDA-ARS, WICSRU, Shafter, CA, (4)University of California, Department of Plant Pathology, Davis, CA, (5)University of California, Bakersfield, CA, (6)University of California, Fresno, CA, (7)Univ. of California, Shafter, CA, (8)University of California, Shafter, CA
42. **Participation of Chitin-Binding Peroxidase Isoforms in the Wilt Pathogenesis of Cotton** - Egor Pshenichnov¹, **Alik Akhunov**¹, Nigora Khashimova¹, Zamira Golubenko¹ and Robert D. Stipanovic², (1)Institute of Bioorganic Chemistry, Tashkent, Uzbekistan, (2) USDA-ARS-Southern Plains Agricultural Research Center, College Station, TX
43. **Peroxidase Activity in Cotton Cell Culture Infected with *Verticillium Dahliae*** - Sergei Vshivkov¹, A. A. Akhunov², **Zamira Golubenko**¹, E. Ch. Mustakimova², F. S. Mukhamedhanova² and Robert D. Stipanovic³, (1)Institute of Bioorganic Chemistry, Tashkent, Uzbekistan, (2)Institute of Bioorganic chemistry, Tashkent, Uzbekistan, (3)USDA-ARS-Southern Plains Agricultural Research Center, College Station, TX
44. **Report of the Cottonseed Treatment Committee for 2010** - **C. S. Rothrock**¹, S. A. Winters¹, J.D. Barham², Alan B. Beach³, Melanie B. Bayles⁴, P. D. Colyer⁵, T. Kelley⁶, R. C. Kemerait⁷, K. S. Lawrence⁸, G.W. Lawrence⁹, G.B. Padgett¹⁰, P. M. Phipps¹¹, G. L. Sciumbato¹², R. Thacker¹³ and Jason 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)LSU AgCenter, Bossier City, LA, (6)Oklahoma State University, Perkins, OK, (7)Department of Plant Pathology, University of Georgia, Tifton, GA, (8)Auburn University, Auburn University, AL, (9)Mississippi State, MS, (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 AgriLife Extension Service, Lubbock, TX
45. **New Fungicides for Seedling Disease Management** - **Gary W. Lawrence**, Mississippi State University, Mississippi State, MS and Kathy S. Lawrence, Auburn University, Auburn University, AL
46. **Flutriafol for Control of *Phymatotrichopsis* Root Rot of Cotton** - **T. Isakeit**, Texas A&M University, College Station, TX, R.R. Minzenmayer, Texas AgriLife Extension Service, Ballinger, TX, David R. Drake, Texas AgriLife Extension, San Angelo, TX, Warren L. Multer, Texas AgriLife Extension, Garden City, TX, Archie Abrameit, Texas AgriLife Extension, Thrall, TX, Marty Jungman, Hillsboro, TX, Chance Crossland, Texas AgriLIFE Extension, Port Lavaca, TX and Duane T. Campion, Texas AgriLIFE Extension Service, Sinton, TX

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TECHNICAL CONFERENCES POSTER BOARD SESSION

47. **Using Fungicides to Control Foliar Cotton Diseases in Georgia - R. J. Byrne**, University of Georgia Cooperative Extension, Thomasville, GA, R. C. Kemerait, Department of Plant Pathology, University of Georgia, Tifton, GA and Guy Collins, University of Georgia, Tifton, GA

COTTON ENGINEERING-SYSTEMS CONFERENCE POSTERS

48. **Harvest Timing and Techniques to Optimize Fiber Quality in the Texas High Plains - M.S. Kelley¹**, John D. Wanjura², R.K. Boman¹, C.W. Ashbrook¹ and G.A. Holt³, (1)Texas AgriLife Extension Service, Lubbock, TX, (2)USDA-ARS Cotton Production and Processing Unit, Lubbock, TX, (3)USDA-ARS, Lubbock, TX
49. **A Comparative Study of a Microgin with a Lab Gin Stand and Commercial Gins in Southeast U.S - Chanying Li¹**, Andy Knowlton¹, S. N. Brown² and Glen Ritchie³, (1)University of Georgia, Tifton, GA, (2)University of Georgia Cooperative Extension Service, Moultrie, GA, (3)University of Georgia - Soil and Crop Science Dept., Tifton, GA

COTTON IMPROVEMENT CONFERENCE POSTERS

50. **Relationships of Ginning Energy, Ginning Rate and Fiber Quality in Upland Cotton - Efreem Bechere** and Clif Boykin, USDA-ARS, Stoneville, MS
51. **The Effect of Phytohormones to the Dynamics of Protein Biosynthesis and Enzyme Activity in Linted and Naked Seed Cottons - Alik Akhunov**, Egor Pshenichnov, Sergey Vshivkov, Zamira Golubenko, Nigora Abdurashidova and Elmira Mustakimova, Institute of Bioorganic Chemistry, Tashkent, Uzbekistan
52. **Prediction of F2 Hybrid Performance for Lint Yield and Fiber Quality by SSR-Based Genetic Distance - Linghe Zeng**, USDA-ARS, Stoneville, MS
53. **A Neural Network Approach to Optimize Cultivar Selection for Spinning - Tyson Andrew Phillips¹**, Gerald O. Myers¹, S. Brooks Blanche² and Don. C. Jones³, (1)LSU AgCenter, Baton Rouge, LA, (2)LSU AgCenter, Alexandria, LA, (3)Cotton Incorporated, Cary, NC
54. **Egg Mass Indexing as a Tool for Selecting for Reniform Nematode Resistance in Cotton - Gerald O. Myers¹**, Jack. E. Jones², John I. Dickson¹ and Charles Overstreet³, (1)LSU AgCenter, Baton Rouge, LA, (2)JAJO Genetics, Baton Rouge, LA, (3)LSU Agricultural Center, Department of Plant Pathology and Crop Physiology, Baton Rouge, LA
55. **High-Throughput Phenotyping and Genetic Analysis of the Physiological Responses of Cotton to an Arid Environment - Michael Gore¹**, Andrew French¹, Pedro Andrade-Sanchez², Michael Salvucci¹, Kelly Thorp¹, Elizabete Carmo-Silva¹, Doug Hunsaker¹ and Jeffrey White¹, (1)USDA-ARS, Maricopa, AZ, (2)University of Arizona, Maricopa, AZ
56. **Maintaining Purity in a Conventional Breeding Program - Valerie M. Morgan**, Carol M. Kelly and Jane K. Dever, Texas AgriLife Research, Lubbock, TX
57. **Cotton Germplasm Lines Released by the University of Arkansas in 2010 - Fred Bourland**, University of Arkansas - Northeast Research and Extension Center, Keiser, AR and Don C. Jones, Cotton Incorporated, Cary, NC
58. **Dryland and Irrigated Commercial Variety Testing in Central and South Texas in 2010 - Dawn M. Deno**, Steve Hague and C. Wayne Smith, Texas A&M University, College Station, TX
59. **Biochemical Criteria for Active Plant Adaptation - Rustam Shadmanov**, Institute of Genetics and Plant Experimental Biology, Tashkent, Uzbekistan and Jodi A. Scheffler, USDA-ARS Crop Genetics Research Unit, Stoneville, MS
60. **Inheritance and Variability of Some Agronomic Traits in Genetically Remote Cotton Hybrids - Shadman Namazov¹**, A. A. Bell², Robert D. Stipanovic², R. Yuldosheva¹, S.A. Usmanov¹, I. Amanturdiev¹, T. Rakhimov¹ and Zamira Golubenko³, (1)The Uzbek Scientific Research Institute of Selection and Cotton Seed-Production, Tashkent, Uzbekistan, (2)USDA-ARS-Southern Plains Agricultural Research Center, College Station, TX, (3)Institute of Bioorganic Chemistry, Tashkent, Uzbekistan
61. **Variety Performances in 2010 Mississippi State Cotton Variety Trials - P. S. Thaxton¹**, W. E. Clark¹, J. B. Creech¹, T. P. Wallace², N.W. Buehring³, M. W. Shankle⁴ and S. S. Deng¹, (1)Mississippi State University, Stoneville, MS, (2)Mississippi State University, Mississippi State, MS, (3)North Mississippi Research and Extension Center, Verona, MS, (4)Mississippi State Univ., Pontotoc, MS
62. **Production and Testing of Transgenic Cotton That Expresses Transcription Factors for Enhanced Seed and Fiber Traits and Productivity Under Drought Stress - Aman Mittal¹**, Tom Thompson², John J. Burke³ and **Chris Rock¹**, (1)Dept. Biological Sciences, Lubbock, TX, (2)Texas Tech University, Lubbock, TX, (3)USDA-ARS, Lubbock, TX



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63. **Evaluation of Chromosome Specific RI Lines for Improved Fiber Traits - S. Saha¹, J. Wu², J. N. Jenkins¹, J. C. McCarty¹, R. Hayes¹, D.M. Stelly³ and B. T. Campbell⁴,** (1)USDA/ARS Crop Science Research Laboratory, Mississippi State, MS, (2)South Dakota State University, Brookings, SD, (3)Texas A&M Univ., College Station, TX, (4)USDA-ARS, Florence, SC
64. **Chromosome Substitution From *G. barbadense* and *G. tomentosum* Alters Physiology, Agronomic, and Fiber Traits in Upland Cotton - Suresh Lokhande¹, K. Raja Reddy¹, S. Saha², John Read³, David Stelly⁴, J. N. Jenkins⁵ and Jixiang Wu¹,** (1)Mississippi State University, Mississippi State, MS, (2)USDA/ARS, Mississippi State, MS, (3)ARS/USADA, Mississippi State, MS, (4)Texas A&M University, College Station, TX, (5)USDA, Mississippi State, MS
65. **Identification of Micronaire-Related Genes Based on Comparative Oligonucleotide Microarray Analysis Between Introgression Lines - Jiwen Yu¹, Longyun Li¹, Man Wu¹, Meizhen Song¹, Shuli Fan¹, Jinfa Zhang² and Shuxun Yu¹,** (1)Cotton Research Institute, CAAS, Key Laboratory of Cotton Genetic Improvement, Ministry of Agriculture, P R China, Anyang, China, (2)New Mexico State University, Las Cruces, NM

COTTON INSECT RESEARCH AND CONTROL CONFERENCE POSTERS

66. **Sprayable Formulation for Pink Bollworm Mating Disruption - Further Developments - Michelle L. Walters¹, Jack Jenkins², Barry Barnes³, Nick Jenkins², Mike Whitlow⁴, John Claus¹, Nelson Foster¹, Larry Antilla⁴ and Robert T. Staten⁵,** (1)USDA, APHIS, PPQ, CPHST, Phoenix, AZ, (2)Pacific BioControl, Litchfield, AZ, (3)USDA, APHIS, PPQ, CPHST (seasonal), Phoenix, AZ, (4)Arizona Cotton Research & Protection Council, Phoenix, AZ, (5)USDA, APHIS, PPQ, CPHST - Retired, Phoenix, AZ
67. **Control of Mix Populations of Bollworm and Fall Armyworm in Non-Bollgard Cotton - Manda G. Cattaneo¹, David L. Kerns², Brant Baugh² and Dustin Patman³,** (1)Texas AgriLife Extension Service, Seminole, TX, (2)Texas AgriLife Extension Service, Lubbock, TX, (3) Texas AgriLife Extension Service, Crosbyton, TX
68. **Pink Bollworm Trapping in West Texas and Eastern New Mexico - Warren L. Multer¹, Manda G. Cattaneo¹, Tommy Doederlein¹, Jane Breen Pierce², Michelle L. Walters³, Richard T. Zink⁴, David L. Kerns¹ and Charles T. Allen¹,** (1)Texas AgriLife Extension, Garden City, TX, (2) New Mexico State University, Artesia, NM, (3)USDA, APHIS, PPQ, CPHST, Phoenix, AZ, (4)USDA APHIS CPHST, Fort Collins, CO
69. **Transcriptional Overexpression of Cytochrome P450 Gene(s) CYP6B8/CYP6B28, is Associated with Cypermethrin Survivorship of Field-Collected Bollworm Males (*Helicoverpa zea*) - Liliana Castillo¹, Bradley W. Hopkins², Hsiao-Ling Lu³, Satnam Singh⁴ and Patricia V. Pietrantonio²,** (1)Greenville College, Greenville, IL, (2)Texas AgriLIFE Research, College Station, TX, (3)Texas A & M University, college Station, TX, (4)Punjab Agricultural University, Regional Station, Faridkot, India
70. **Laboratory Evaluation of Selected Insecticides on Field-Collected Populations of Bollworm and Budworm--2010 Update - Gregory T. Payne,** University of West Georgia, Carrollton, GA
71. **Symptoms, Injuries, Yield Reduction and Quality Loss of Bt Cotton Attacked by the Neotropical Brown Stink Bug *Euschistus heros* (F.) (Hemiptera: Pentatomidae) - Miguel Ferreira Soria¹, Paulo Eduardo Degrande¹ and Antônio Ricardo Panizzi²,** (1) Agricultural Science College / Federal University of Grande Dourados, Dourados, Brazil, (2)Laboratory of Bioecology of Hemiptera / Embrapa Soybean, Londrina, Brazil
72. **Notes on the Basic Reproductive Biology of the Green Plant Bug Infesting South Texas Cotton - Scott Armstrong,** USDA, ARS, BIRU, Weslaco, TX and Jesus Esquivel, USDA- ARS Areawide Pest Management Research Unit, College Station, TX
73. **Potential for Using Boll Damage as a Threshold Indicator for Lygus on the Texas High Plains - Dustin Patman¹, David L. Kerns² and Brant Baugh²,** (1)Texas AgriLife Extension Service, Crosbyton, TX, (2)Texas AgriLife Extension Service, Lubbock, TX
74. **Comparing External and Internal Symptoms of Feeding Injury Caused by Sucking Bugs to Harvest Potential, with Emphasis on *Creontiades signatus* - Michael Brewer¹, Darwin Anderson¹ and J. S. Armstrong²,** (1)Corpus Christi AgriLife Research and Extension Center, Corpus Christi, TX, (2)USDA-ARS, Weslaco, TX
75. **Development of Simulation Models to Assess the Impact of Boll Weevil Populations Located on Volunteer Cotton to Commercial Fields in the Lower Rio Grande Valley - William Meikle¹, Randy Coleman² and John J. Adamczyk²,** (1)USDA, ARS, HBRU, Weslaco, TX, (2)USDA, ARS, BIRU, Weslaco, TX
76. **Seasonal, Sampler, and Time to Sample Variability in Sampling Strategies for Cotton Fleahopper and a Green Plant Bug, *Creontiades signatus* - Darwin Anderson¹, Megan Bloemer¹, Michael Brewer¹, J. S. Armstrong² and Raul Villanueva³,** (1)Corpus Christi AgriLife Research and Extension Center, Corpus Christi, TX, (2)USDA-ARS, Weslaco, TX, (3)Texas AgriLife Research and Extension Center- Weslaco, Weslaco, TX

Posters

TECHNICAL CONFERENCES PROGRAM

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77. **Comparison of Sample Methods and Sample Plans for Thrips in Cotton - Mark Muegge**, Texas Agrilife Extension, Fort Stockton, TX, David L. Kerns, Texas AgriLife Extension Service, Lubbock, TX, Warren L. Multer, Texas AgriLife Extension, Garden City, TX, Emilio Nino, Texas AgriLife Extension Service, Dimmitt, TX, Dustin Patman, Texas AgriLife Extension Service, Crosbyton, TX, Scott Russell, Texas Agrilife Extension, Brownfield, TX, Kerry Siders, Texas AgriLIFE Extension, Levelland, TX and Monit Vandiver, Texas AgriLIFE Extension, Lubbock, TX
78. **Preliminary Evaluation of Drop Cloth Sampling Efficiency for Lygus Adults in Cotton - Dale W. Spurgeon** and William Cooper, USDA-ARS-WICSRU, Shafter, CA
79. **The Potential Interaction of Foliar Herbicides and Insecticides on Seedling Cotton - Scott D. Stewart**, Sandy Steckel, Kyle Pearson and Larry Steckel, The University of Tennessee, Jackson, TN
80. **Insecticidal Control of Aphids, Impact on Lady Beetles, and Yield Response - Brant Baugh¹**, David L. Kerns¹ and Dustin Patman², (1)Texas AgriLife Extension Service, Lubbock, TX, (2)Texas AgriLife Extension Service, Crosbyton, TX
81. **Ability of Cotton to Compensate for Early-Season Fruit Loss and Impact on Yield and Lint Quality - Tommy Doederlein¹**, David L. Kerns² and Brant Baugh², (1)Texas AgriLife Extension Service, Lamesa, TX, (2)Texas AgriLife Extension Service, Lubbock, TX
82. **Evaluation of Varietal Differences in COTMAN Compensation Capacity Values in High-Input Cotton Subjected to Varying Levels of Lygus-Induced Fruit Damage - Stanley C. Carroll**, Megha N. Parajulee, W. Owen McSpadden and Ram B. Shrestha, Texas AgriLife Research and Extension Center, Lubbock, TX
83. **Evaluation of Insecticides for Control of Tarnished Plant Bug in Cotton Bordering Corn - J. Eric Howard** and D. Scott Akin, University of Arkansas, Monticello, AR
84. **Influence of Conservation Tillage and Cover Crops on Grasshopper and Thrips Population Management on Seedling Cotton - John All**, University of Georgia, Athens, GA
85. **Thrips Species Composition Across Multiple Regions: A Two-Year Summary - D. Scott Akin¹**, Jack Reed², Gus Lorenz³, G.E. Studebaker⁴, Scott D. Stewart⁵, B. Rogers Leonard⁶, Stephen Micinski⁷, Jeremy Greene⁸, Ryan Jackson⁹, K. C. Allen⁹, Angus Catchot², Jeff Gore¹⁰, D. R. Cook¹¹, K. V. Tindall¹², David Kerns¹³, Phillip Roberts¹⁴, Michael Toews¹⁴, D. Ames Herbert¹⁵, Jack Bacheler¹⁶ and Dominic D. Reisig¹⁷, (1)University of Arkansas, Monticello, AR, (2)Mississippi State University, Mississippi State, MS, (3)University of Arkansas Cooperative Extension Service, Lonoke, AR, (4)Cooperative Extension Service University of Arkansas, Keiser, AR, (5)The University of Tennessee, Jackson, TN, (6)LSU AgCenter, Macon Ridge Station, Winnsboro, LA, (7)Red River Research Station, Bossier City, LA, (8)Clemson, Blackville, SC, (9)USDA-ARS, SIMRU, Stoneville, MS, (10)Mississippi State University, DREC, Stoneville, MS, (11)Mississippi State University, Stoneville, MS, (12)Univ. of Missouri, Portageville, MO, (13)Texas AgriLife Extension Service, Lubbock, TX, (14)University of Georgia, Tifton, GA, (15)Virginia Tech, Suffolk, VA, (16)North Carolina State University, Raleigh, NC, (17)North Carolina State University, Vernon James Research and Extension Center, Plymouth, NC
86. **Addition of Starter Fertilizer to Shorten the Window of Susceptibility to Thrips - J. David Griffin** and Michael D. Toews, University of Georgia, Tifton, GA
87. **Crop Protection and Tillage – Focusing Management to Build Sustainable Cotton Systems – Year Three - Tina Gray Teague¹**, Jennifer Bouldin¹, Calvin R. Shumway¹, Archie Flanders², Steven Green¹, Richard Warby³ and D. Keith Morris³, (1)Arkansas State University - University of Arkansas Agricultural Experiment Station, State University, AR, (2)University of Arkansas, Keiser, AR, (3)Arkansas State University, State University, AR
88. **Control of Spider Mites in Cotton with Selected Miticides in Arkansas, 2010 - Jason Fortner¹**, Nichole Taillon¹, Gus Lorenz¹, K. Colwell², Ben VonKanel¹, Ben Thrash¹ and Andrew Plummer¹, (1)University of Arkansas Cooperative Extension Service, Lonoke, AR, (2) Univ. of Arkansas CES- Lonoke, Lonoke, AR
89. **Soil Pest Control in Cotton with Chlorantraniliprole + Thiametoxam - José Roberto Scarpellini**, Agência Paulista de Tecnologia dos Agronegócios - APTA - SAA, SP, Ribeirão Preto, Brazil and Guiiti Nakamura, Syngenta Proteção de Cultivos Ltda, São Paulo, Brazil
90. **Standardization of Laboratory and Field Methods for Evaluating Efficacy of Bt Cotton Traits: Approaches for Improving Present Methodologies - Shoil M. Greenberg**, Jay Alejandro and John J. Adamczyk, Jr., USDA-ARS, Weslaco, TX
91. **Influence of Cutting Alfalfa Hay on Egg Predation in Adjacent Cotton Fields in New Mexico - Jane Breen Pierce** and Patrica Monk, New Mexico State University, Artesia, NM
92. **IRAC - Insecticide Mode of Action Classification - T. C. Sparks**, Dow AgroSciences LLC, Indianapolis, IN
93. **cDNA Microarray Analysis of Gene Expression in Insecticide Susceptible and -Resistant Tarnished Plant Bug - Zibiao Guo**, Yu Cheng Zhu and Randy Luttrell, USDA-ARS, Stoneville, MS



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94. **Biology of Aridelus Rufotestaceus (Hymenoptera: Braconidae), Parasitoid of Southern Green Stink Bug Nymphs - John R. Ruberson**, Russell J. Ottens and Melissa D. Thompson, University of Georgia, Tifton, GA
95. **Differences in Tarnished Plant Bug Infestations in Different Cotton Varieties - G.E. Studebaker¹**, F. Bourland² and S. Lancaster¹, (1) Cooperative Extension Service University of Arkansas, Keiser, AR, (2) University of Arkansas, Keiser, AR
96. **Two Spotted Spider Mite, Tetranychus Urticae, Dispersal in the Presence of Seed Treatments - William S. Scott**, Angus Catchot, Jeff Gore, Fred Musser, Don Cook and Patrick English, Mississippi State University, Mississippi State, MS

COTTON QUALITY MEASUREMENTS CONFERENCE POSTERS

97. **Comparison of NIR and FT-IR Spectral Models in the Prediction of Cotton Fiber Strength - Yongliang Liu**, Gary Gamble and Devron Thibodeaux, Agricultural Research Service, USDA, Clemson, SC
98. **Maturity Ratio, Fineness and Ribbon Width Measurement Using the Water Based Cottonscope - Hy Hwang**, Cottonscope Pty Ltd, Perth, Australia
99. **A Close Look at Seed Coat Fragments as Measured by AFISPro - Patricia D. Bel**, Southern Regional Research Center, ARS, USDA, New Orleans, LA and Bugao Xu, The University of Texas at Austin, Austin, TX
100. **Single Cotton Fiber Measurement Using Fraunhofer Diffraction - Ayodeji Adedoyin¹**, Changying Li¹ and Michael D. Toews², (1) Department of Biological & Agricultural Engineering, University of Georgia, Tifton, GA, (2) University of Georgia, Tifton, GA
101. **Improved Quantification of Cottonseed Protein and Oil Content for Germplasm Screening - Patrick Horn¹**, Sylvia Blaszczyk¹, Purnima Neogil¹, Xenia Tombokan², Supriyo Ghosh², B.T. Campbell³ and Kent Chapman¹, (1) University of North Texas, Denton, TX, (2) Bruker Optics, The Woodlands, TX, (3) USDA-ARS, Florence, SC
102. **Evaluation Method of Cotton Stickiness Using Color Reaction - Joong Sik Yang**, Korea Textile Inspection & Testing Institute, Seoul, South Korea

COTTON SOIL MANAGEMENT AND PLANT NUTRITION CONFERENCE POSTERS

103. **Interaction of Nitrogen and Potassium Fertilization on Reniform Nematode Dynamics in a Cotton/Corn Rotation System - Davis R. Clark, M. Wayne Ebelhar and H. C. (Lyle) Pringle**, Mississippi State University, Stoneville, MS
104. **Cotton Growth and Yield Response to Slow-Release Nitrogen Fertilizers - Dennis Coker, Mark McFarland, Gaylon Morgan and Dale Mott**, Texas AgriLife Extension, College Station, TX
105. **Cotton Response to Irrigation Timing and Use of Enhanced Efficiency Nitrogen Fertilizer and Biosolids - Tina Gray Teague¹**, Calvin R. Shumway¹ and Morteza Mozaffari², (1) Arkansas State University - University of Arkansas Agricultural Experiment Station, State University, AR, (2) University of Arkansas Department of Soil, Crops, and Environmental Sciences, Soil Testing Laboratory, Marianna, AR
106. **Tissue Metal Nutrient Concentration as Affected by Nitrogen Nutrition of Cotton Fertilized with Poultry Litter or Ammonium Nitrate - Haile Tewolde¹**, Ardeshir Adeli¹, Karamat R. Sistani² and D.E. Rowe³, (1) Crop Science Research Lab, GAPARU, Mississippi State, MS, (2) ARS-USDA, Bowling Green, KY, (3) Mississippi State Univ., Mississippi State, MS
107. **Synergistic Effect of FGD By-Product and Broiler Litter Applications on Cotton Yield, N Utilization and Soil Nutrient Concentrations in a No-Till Field - Ardeshir Adeli¹**, Johnnie N. Jenkins² and Haile Tewolde¹, (1) Crop Science Research Lab, GAPARU, Mississippi State, MS, (2) USDA-ARS-GAPARU, Mississippi State, MS
108. **Relationships Between Cotton Nitrogen Status and Sensor Based Readings - Kipling S. Balkcom¹**, Joey N. Shaw² and John P. Fulton², (1) USDA-ARS, Auburn, AL, (2) Auburn University, Auburn, AL
109. **Utilization of Crop Sensors to Detect Cotton Growth and N Stress - Tyson Raper**, Mississippi State University, Mississippi State, MS
110. **Monitoring Soil Moisture: Comparison Between Neutron Probe and Profiler PR2 - Yujin Wen¹**, Diane L. Rowland² and J. Tom Cothren¹, (1) Texas A&M University, Texas AgriLife Research, College Station, TX, (2) University of Florida, Gainesville, FL
111. **Results from the 2010 Texas AgriLife Extension Service High Plains and Panhandle Deep Soil Sampling Project - C.W. Ashbrook¹**, M.S. Kelley¹, G.D. Chandler², R.K. Boman¹, B.W. Bean² and R.E. Brandon², (1) Texas AgriLife Extension Service, Lubbock, TX, (2) Texas AgriLife Extension Service, Amarillo, TX

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COTTON UTILIZATION CONFERENCE: TEXTILES/CHEMISTRY/NONWOVENS POSTERS

112. **Utilization of Cottonseed with Low Levels of (-)-Gossypol as a Feed for Chickens** - Zamira Golubenko¹, Shadman Namazov², Vladimir R. Khaitov³, V. V. Uzbekov⁴, Egor Pshenichnov¹, Sergey Vshivkov¹, Al. A. Bell⁵ and **Robert D. Stipanovic**⁶, (1)Institute of Bioorganic Chemistry, Tashkent, Uzbekistan, (2)The Uzbek Scientific Research Institute of Selection and Cotton Seed-Production, Tashkent, Uzbekistan, (3)Uzbek Scientific Research of Veterinary, Samarkand, Uzbekistan, (4)Institute of Bioorganic chemistry, Tashkent, Uzbekistan, (5)USDA-ARS-SPARC, College Station, TX, (6)USDA-ARS-Southern Plains Agricultural Research Center, College Station, TX

COTTON WEED SCIENCE RESEARCH CONFERENCE POSTERS

113. **Influence of a Rye Cover Crop on the Critical Weed-Free Period in Cotton** - **Justin D. DeVore**, J. K. Norsworthy, D. B. Johnson, G. M. Griffith, C. E. Starkey and M. J. Wilson, University of Arkansas, Fayetteville, AR
114. **Ignite-Based Herbicide Programs for Glyphosate-Resistant Palmer Amaranth in South Carolina Cotton** - **Jacob G. Stokes** and Michael W. Marshall, Clemson University, Blackville, SC
115. **Utility of Pymimax for Preemergence Weed Control in Louisiana Cotton** - **Donnie K. Miller**, LSU AgCenter, Northeast Research Station, St. Joseph, LA and M. S. Mathews, LSU AgCenter, Northeast Research Station, St. Joseph, LA
116. **Parameterization of the Barnyardgrass (*Echinochloa crus-galli*) Resistance Model for Cotton** - **Muthukumar Bagavathiannan**¹, Jason K. Norsworthy¹, Kenneth L. Smith² and Paul Neve³, (1)University of Arkansas, Fayetteville, AR, (2)University of Arkansas, Monticello, AR, (3)Wellesbourne, United Kingdom
117. **The Seasonality of Palmer Amaranth Seed Herbivory** - **Theodore M. Webster**, USDA-ARS, Tifton, GA
118. **Alternatives to Multiple PPO Inhibitors in No-Till Cotton** - **Charles W. Cahoon**¹, Alan C. York¹, David L. Jordan¹ and A. Stanley Culpepper², (1)N. C. State University, Raleigh, NC, (2)University of Georgia, Tifton, GA
119. **Palmer Amaranth Biotypes Confirmed Resistant to Glyphosate- and ALS-Inhibiting Herbicides in South Carolina** - **Michael W. Marshall** and Jacob G. Stokes, Clemson University, Blackville, SC
120. **Glyphosate Resistant Palmer Amaranth in Louisiana** - **Daniel O. Stephenson**, Randall L. Landry and Brandi C. Woolam, LSU AgCenter, Alexandria, LA
121. **Respect the Rotation: A Comprehensive Partnership to Preserve Herbicide and Trait Technology** - **James M. Rutledge**, Bayer CropScience, Research Triangle Park, NC
122. **Preplant Burndown and In-Season Sharpen Use in Cotton** - **Wayne Keeling**¹, Jacob D. Reed², Justin L. Spradley² and William Keeling², (1)Texas Agrilife Research, Lubbock, TX, (2)Texas AgriLife Research, Lubbock, TX
123. **Experiences with Sharpen in Oklahoma** - **Shane Osborne**, Oklahoma State University, Altus, OK
124. **Utility of Staple LX in Liberty Link Cotton in Louisiana** - **Donnie K. Miller**, LSU AgCenter, Northeast Research Station, St. Joseph, LA and M. S. Mathews, LSU AgCenter, Northeast Research Station, St. Joseph, LA
125. **Use of Staple LX with Ignite in Widestrike Cotton** - **M.J. Wilson**, J. K. Norsworthy, D. B. Johnson and G. M. Griffith, University of Arkansas, Fayetteville, AR
126. **Control of Volunteer Cotton in the Southern Rolling Plains** - **David R. Drake**¹, R.R. Minzenmayer² and P. Halfmann¹, (1)Texas AgriLife Extension, San Angelo, TX, (2)Texas AgriLife Extension Service, Ballinger, TX
127. **Weed Management in Continuous Cotton: Summary of the Benchmark Study in North Carolina and Mississippi (2006-2009)** - **David L. Jordan**¹, Rick Seagroves¹, Jamie Hinton¹, Alan York¹, David Shaw², M.K.D. Owen³, B. G. Young⁴, Robert Wilson⁵ and S. C. Weller⁶, (1)N. C. State University, Raleigh, NC, (2)Mississippi State University, Mississippi State, MS, (3)Ames, IA, (4)Carbondale, IL, (5)University of Nebraska, Scottsbluff, NE, (6)West Lafayette, IN
128. **Evaluation of Cotton for Preemergence Interactions Between Herbicides and Insecticides** - **Timothy L. Grey**, University of Georgia, Tifton, GA and Sandy Newell, BASF Corporation, Statesboro, GA
129. **Weed Population After Four Years of Liberty Link and Roundup Ready Flex Cotton** - **D. B. Johnson**, J.K. Norsworthy and G. M. Griffith, University of Arkansas, Fayetteville, AR
130. **WideStrike Cotton Variety Tolerance to Ignite Applications in Texas** - Gaylon Morgan, Dale Mott and **John Kerns**, Texas AgriLife Extension Service, College Station, TX



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