

Beltwide Cotton Conferences

JANUARY 3-6, 2012 • ORLANDO WORLD CENTER MARRIOTT • ORLANDO, FLORIDA

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.



Courtesy Orlando World Center Marriott



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GENERAL INFORMATION

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

REGISTRATION

Early registration ends December 14, 2011. 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 Registration Desk, located in the Orlando World Center Marriott, Crystal Foyer, to print your name tag.

Not registered?

Go to the Beltwide Registration Desk located in the Orlando World Center Marriott, Crystal Foyer, 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 4 **Noon – 6:00 p.m.**
 Thursday, January 5 **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 3 **10:00 a.m. - 5:00 p.m.**
 Wednesday, January 4 **8:00 a.m. - 5:00 p.m.**
 Thursday, January 5 **8:00 a.m. - 5:00 p.m.**
 Friday, January 6 **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 Orlando World Center Marriott, Palms registration desk, Tuesday - Friday.

HOTEL INFORMATION

Orlando World Center Marriott

8701 World Center Drive
 Orlando, FL 32821

For reservations:

Call: 800-266-9432 (US toll free)
 506-474-2009

Online: <https://resweb.passkey.com/go/NationalCottonCouncil2012>

\$154 single/double rate (*Applicable taxes NOT included*)

Parking:

Valet \$23.43/day or Self \$13.85/day (*Taxes included*)

AIRLINE TICKETS & RENTAL CAR RESERVATIONS

Discounted fares are available on Delta and American by booking your flight with Mary Saemenes, travel consultant at Travelennium at 888-232-1738.

Special discounted car rental rates are also available by calling Mary Saemenes, travel consultant at Travelennium at 888-232-1738.

Travel may also be booked online for the Beltwide, other business, or personal travel using Trip Manager, the NCC's [online travel service](#).

AIRPORT GROUND TRANSPORTATION

Orlando International Airport is located approximately 20 minutes from the Orlando World Center Marriott. Transfer cost by shuttle is approximately \$30 round trip and by taxi is approximately \$55. A [Mears Motor Shuttle discount coupon](#) is available on the Beltwide website.

BELTWISE CONCIERGE

Stop by the Beltwide Concierge Desk located near the conference registration for assistance with:

- Special Pricing on *Conference Only* Attraction Tickets
- Dining Reservations
- Golf Tee Times and Reservations
- Shopping Information
- Information on Local Parks and Activities

BELTWIDE 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@traveleppium.com

SCHEDULE OF EVENTS

TUESDAY, JANUARY 3		
8:00a – 12:00p	Extension Cotton Specialist Meeting (By Invitation Only)	New York/New Orleans
8:00a – 6:00p	Precision Cotton Researcher's Meeting (By Invitation Only)	Crystal Ballrooms K-L
8:00a – 10:00p	Speaker Practice Room	Palms Registration 2
10:00a – 5:00p	CEU Desk	Palms Registration Desk
10:00a – 5:00p	Confex Presentation Downloading Room	Chicago
10:00a – 5:00p	Conference Registration NCC Membership Desk Cotton Crafts Store Beltwide Concierge Desk - Attraction and Dinner Information Internet Café	Crystal Ballroom Foyer
10:00a – 5:00p	News Room	Anaheim/Atlanta
12:00p – 1:00p	Consultants Conference Luncheon	Crystal Ballroom J1
1:00p – 6:00p	Consultants Conference General Session	Crystal Ballroom M
3:00p – 6:00p	USDA-ARS Cotton Geneticists Meeting (By Invitation Only)	Crystal Ballrooms D-F
WEDNESDAY, JANUARY 4		
6:30a – 7:45a	Cotton Incorporated Media Breakfast (By Invitation Only)	Miami
7:00a – 8:00a	Continental Breakfast	Crystal Ballroom Foyer
7:00a – 10:00p	Speaker Practice Room	Palms Registration 2
7:30a – 5:00p	Conference Registration NCC Membership Desk Beltwide Concierge Desk - Attraction and Dinner Information Internet Café	Crystal Ballroom Foyer
7:30a – 5:00p	CEU Desk	Palms Registration Desk
7:30a – 5:30p	Confex Presentation Downloading Room	Chicago
8:00a – 9:30a	Spouse Hospitality	Tuscany's Restaurant
8:00a – 10:00a	Cotton Production Conference	Crystal Ballrooms G-H
8:00a – 5:00p	Cotton Crafts Store	Crystal Ballroom Foyer
8:00a – 5:00p	News Room	Anaheim/Atlanta
10:00a – 10:30a	Coffee Break	Crystal Ballroom Foyer
10:30a – 12:00p	Conventional Cotton: Back to The Future?	Crystal Ballrooms A-B-C

SCHEDULE OF EVENTS

BELTWISE COTTON CONFERENCES • JANUARY 3-6, 2012 • ORLANDO, FLORIDA

SCHEDULE OF EVENTS

Schedule / Maps

10:30a – 12:00p	Extension Cotton Specialist Workshop	Crystal Ballrooms N-P-Q
10:30a – 12:00p	Ecological Concepts for Cotton Insect and Crop Management - A Precision Agriculture Approach	Crystal Ballroom F
10:30a – 12:00p	Social Media in Production Agriculture	Crystal Ballroom J1
12:00p – 1:00p	Cotton Grower Beltwide Luncheon (By Invitation Only)	Grand Ballroom 7
12:00p – 6:00p	Cotton Foundation Technical Exhibits and Poster Board Session	Royal/Sabal/Sago
12:15p – 1:15p	Technical Chairpersons Meeting & Lunch	Miami
1:30p – 3:00p	National Cotton Variety Test Program Meeting (By Invitation Only)	Miami
1:30p – 3:30p	Irrigation Essentials for Cotton	Canary 3-4
1:30p – 3:30p	Tools to Conduct On-Farm Tests	Crystal Ballrooms A-B-C
1:30p – 5:30p	Thrips and Nematode Management: Making the Right Decisions on Early-Season Pest Control	Canary 1-2
1:30p – 5:45p	New Developments from Industry	Crystal Ballroom M
1:30p – 6:00p	Cotton Options Workshop	Crystal Ballrooms N-P-Q
2:00p – 4:00p	Coffee Break - Cotton Foundation Technical Exhibits	Royal/Sabal/Sago
3:00p – 4:30p	Bayer Crop Science/Ed Keane (By Invitation Only)	St. Louis
3:30p – 4:00p	Coffee Break	Crystal Ballroom Foyer
4:00p – 8:00p	BASF Hospitality Suite (By Invitation Only)	Grand Ballroom 6
5:00p – 6:00p	RBTN Group and Cotton Germplasm Committee Meeting	Crystal Ballrooms D-E
6:30p – 9:30p	Cotton Specialist of the Year Banquet (By Invitation Only)	Shark's Underwater Grill, SeaWorld Orlando
THURSDAY, JANUARY 5		
6:30a – 8:00a	Farm Press/Cotton Foundation High Cotton Awards Breakfast (By Invitation Only)	Crystal Ballroom G1
7:00a – 10:00p	Speaker Practice Room	Palms Registration 2
7:30a – 5:00p	Conference Registration NCC Membership Desk Beltwide Concierge Desk - Attraction and Dinner Information Internet Café	Crystal Ballroom Foyer
7:30a – 5:00p	CEU Desk	Palms Registration Desk
7:30a – 5:30p	Confex Presentation Downloading Room	Chicago
8:00a – 9:30a	Spouse Hospitality	Tuscany's Restaurant
8:00a – 10:00a	Enhanced Efficiency Nitrogen Fertilizers	Crystal Ballroom H
8:00a – 10:00a	Ecological Concepts for Cotton Insect and Crop Management - A Precision Agriculture Approach	Crystal Ballroom F
8:00a – 10:00a	Management of Nematodes in Cotton Using Site-Specific Strategies	Crystal Ballrooms K-L
8:00a – 10:00a	Glyphosate-Resistant Weed Control Systems: Managing Around the Consistent Inconsistencies of Pre Emergence Herbicides	Canary 1 & 2
8:00a – 10:00a	Cotton Insect Research and Control Roundtable	Crystal Ballrooms N-P
8:00a – 5:00p	News Room	Anaheim/Atlanta
8:00a – 5:00p	Cotton Crafts Store	Crystal Ballroom Foyer
9:00a – 5:00p	Confex Presentation Downloading Room	Chicago
10:00a – 10:30a	Coffee Break	Crystal Ballroom Foyer
10:00a – 11:00a	Coffee Break – Exhibits	Royal/Sabal/Sago
10:00a – 4:00p	Cotton Foundation Technical Exhibits	Royal/Sabal/Sago
10:00a – 10:00p	Poster Board Session	Royal
10:30a – 12:00p	Cotton Economic Outlook Symposium	Canary 3 & 4
10:30a – 12:00p	Partitioning and Translocation in Relation to Efficient Production and Yield Formation	Crystal Ballroom J1
10:30a – 12:00p	Cotton Utilization Conference: A Life Cycle Approach	Crystal Ballrooms A-B

SCHEDULE OF EVENTS

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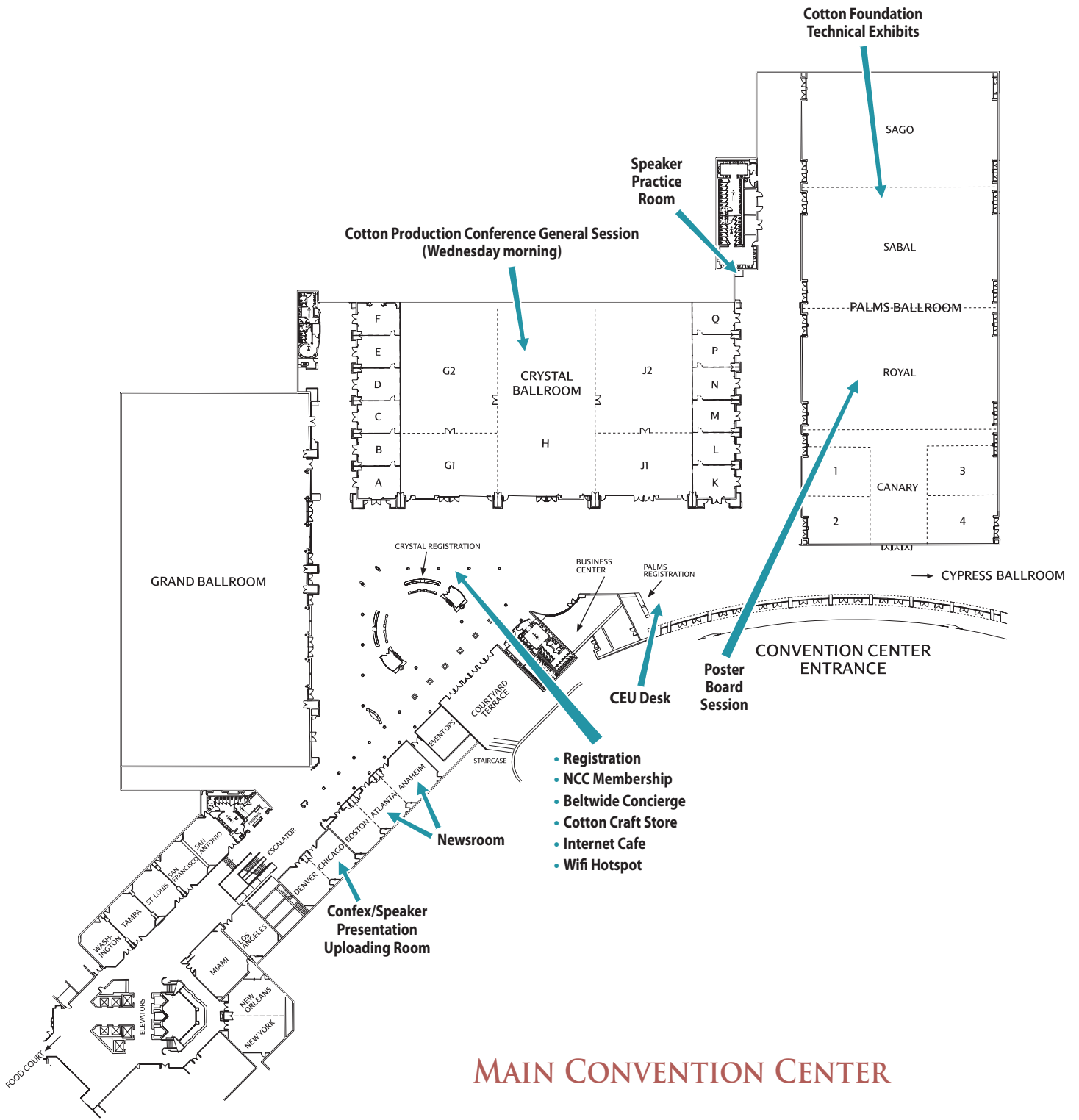


SCHEDULE OF EVENTS

10:30a – 12:20p	The Trouble with Leaf Spots and Cotton: Opportunities for Management	Crystal Ballrooms K–L
10:30a – 6:00p	Cotton Improvement Conference	Crystal Ballroom C
1:30p – 5:30p	Cotton Utilization: Fabric Chemistry, Nonwovens, & Products Symposium	Washington
1:30p – 5:30p	Cotton Engineering-Systems Conference	Crystal Ballrooms A–B
1:30p – 5:30p	Cotton Quality Measurements	Miami
1:30p – 5:30p	Cotton Disease Council	Crystal Ballrooms K–L
1:30p – 5:30p	Cotton Economics and Marketing Conference	Canary 4
1:30p – 5:30p	Cotton Insect Research & Control Conference – Session B	Crystal Ballrooms N-P
1:30p – 5:30p	Cotton Agronomy & Physiology Conference - Session A	Crystal Ballroom J1
1:30p – 6:00p	Cotton Soil Management & Plant Nutrition Conference	Crystal Ballroom H
1:30p – 6:30p	Cotton Insect Research & Control Conference - Session A	Crystal Ballroom M
1:30p – 6:00p	Cotton Ginning Conference	Crystal Ballrooms D-E
1:30p – 6:30p	Cotton Weed Science Research Conference	Canary 1 - 2
2:00p – 3:30p	Cotton Research & Promotion Press Conference (By Invitation Only)	New Orleans
2:00p – 6:00p	Cotton Agronomy & Physiology Conference - Session B	Crystal Ballroom G1
3:15p – 4:00p	Coffee Break, Inside Poster Board Session	Royal
5:00p – 6:00p	Journal of Cotton Science Editorial Board	St. Louis
5:30p – 6:15p	Cotton Industry Support Group	Crystal Ballrooms D-E
6:30p – 9:00p	Joint Cotton Breeding Committee	San Francisco
FRIDAY, JANUARY 6		
7:00a – 3:00p	Speaker Practice Room	Palms Registration 2
7:30a – 12:00p	CEU Desk	Palms Registration Desk
7:30a – 12:00p	Confex Presentation Downloading Room	Chicago
7:30a – 12:00p	Conference Registration NCC Membership Desk Internet Café	Crystal Ballroom Foyer
7:30a – 1:00p	Beltwide Concierge Desk - Attraction and Dinner Information	Crystal Ballroom Foyer
8:00a – 9:30a	Spouse Hospitality	Tuscany's Restaurant
8:00a – 10:00a	Cotton Quality Measurements	Miami
8:00a – 10:00a	Cotton Ginning Conference	Crystal Ballrooms D-E
8:00a – 10:00a	Cotton Economics and Marketing Conference	Canary 4
8:00a – 10:00a	Cotton Insect Research & Control Conference – Session B	Crystal Ballrooms N-P
8:00a – 11:00a	Cotton Engineering-Systems Conference	Crystal Ballrooms A-B
8:00a – 11:45a	Cotton Weed Science Research Conference	Canary 1 - 2
8:00a – 12:00p	News Room	Anaheim/Atlanta
8:00a – 12:00p	Poster Board Session	Royal
8:00a – 12:00p	Cotton Utilization Conference: Textile Technology Symposium	Washington
8:00a – 12:15p	Cotton Agronomy & Physiology Conference - Session A	Crystal Ballroom J1
8:00a – 1:00p	Cotton Crafts Store	Crystal Ballroom Foyer
8:00a – 1:00p	Cotton Insect Research & Control Conference – Session A	Crystal Ballroom M
8:00a – 2:30p	Cotton Improvement Conference	Crystal Ballroom C
8:15a – 10:00a	Cotton Disease Council	Crystal Ballrooms K-L
8:30a – 11:00a	Cotton Agronomy and Physiology-Session B	Crystal Ballroom G1
10:00a – 10:30a	Coffee Break	Crystal Ballroom Foyer
10:30a – 12:00p	Joint Session: Engineering Systems/Ginning Conference	Crystal Ballrooms D-E

MEETING ROOM FLOOR PLANS

Schedule / Maps



MAIN CONVENTION CENTER

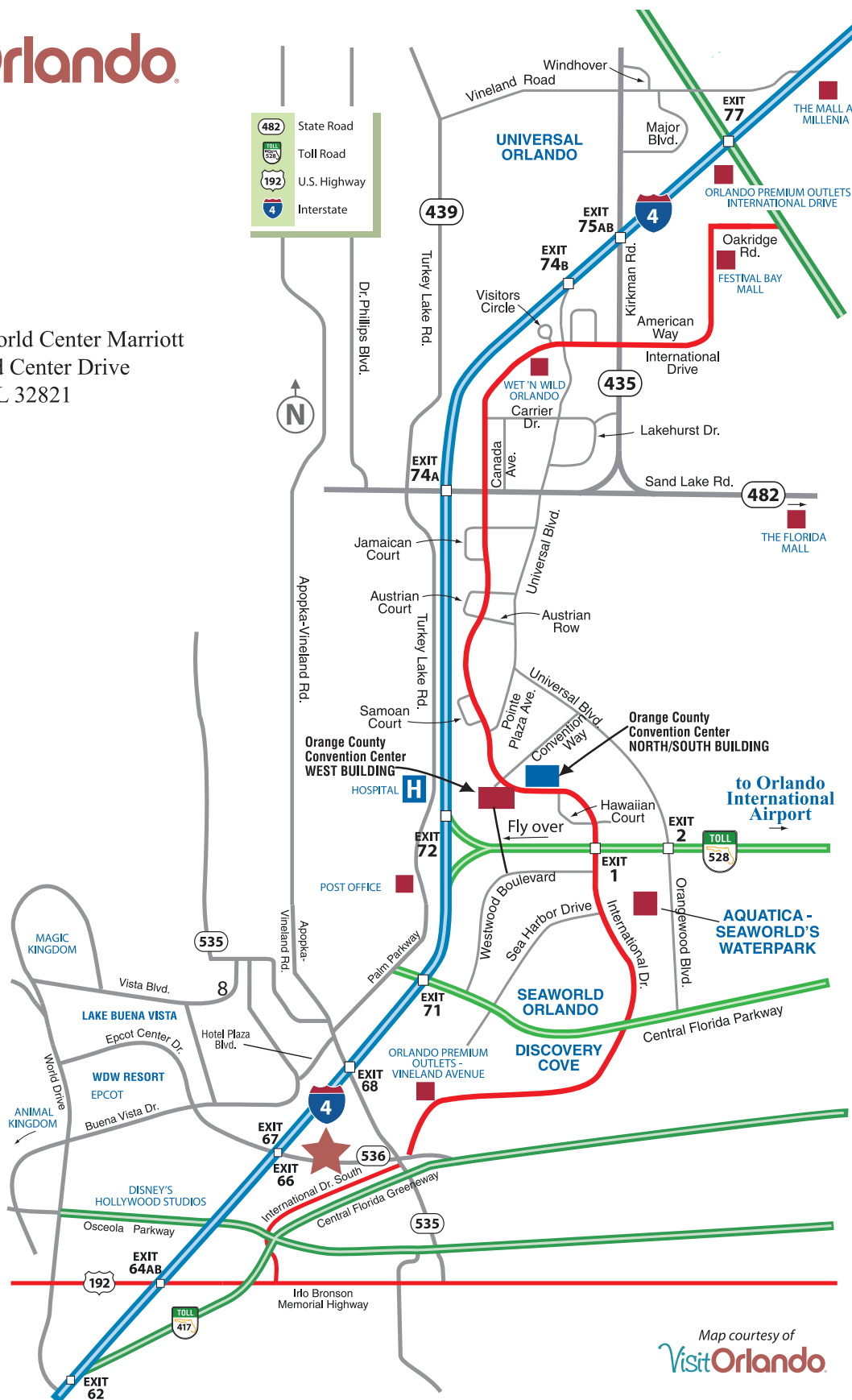
ORLANDO AREA MAP

BELTWISE COTTON CONFERENCES • JANUARY 3-6, 2012 • ORLANDO, FLORIDA

ORLANDO AREA MAP

VisitOrlando®

★ Orlando World Center Marriott
8701 World Center Drive
Orlando, FL 32821



Schedule / Maps

Map courtesy of VisitOrlando®

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/2012/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.

5TH ANNUAL COTTON CONSULTANTS CONFERENCE

Tuesday, January 3, 2012

Cotton Consultants Lunch

Crystal Ballroom JI — Noon-1:00 PM

Cotton Consultants Session

Crystal Ballroom M — 1:00 PM-6:00 PM

Presiding: David Hydrick, Hydrick Crop Consulting, Jonesboro, AR

1:00 PM Welcome - David Hydrick

1:10 PM Season Overview

Texas - Central

Mark Nemecek, MJN Consulting Services, Hewitt, TX

Texas - High Plains

Bob Glodt, Agri-Search, Inc., Plainview, TX

Mid-South

Tucker Miller, Miller Entomology Service, Inc., Drew, MS

Southeast

Stan Winslow, Tidewater Agronomics, Inc., Camden, NC

Discussion

2:10 PM New Products/Technologies/Concerns

Nematodes/Disease

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

Insects

Jack Bacheler, NC State, Raleigh, NC

Weeds

Daniel Stephenson, LSU AgCenter, Alexandria, LA

3:00 PM Break

3:30 PM Myths and Facts of Pigweed Control

Moderator: Bob Nichols, Cotton Incorporated, Cary, NC

Larry Steckel, University of Tennessee, Jackson, TN

Alan York, NC State, Raleigh, NC

Ken Smith, University of Arkansas, Monticello, AR

Jason Bond, Mississippi State, Stoneville, MS

Andy Vangilder, University of Arkansas, Piggott, AR

5:00 PM Industry Update from Sponsors

6:00 PM Adjourn



57TH ANNUAL BELTWISE COTTON PRODUCTION CONFERENCE

Wednesday Morning, January 4, 2012

Crystal Ballrooms G & H
8:00 AM-10:00 AM

Presiding: Charles Parker, Chairman, National Cotton Council

8:00 AM **Introductory Remarks** – Charles Parker, Chairman, National Cotton Council

8:10 AM **Cotton Belt Weather Patterns** – John Christy, University of Alabama, Huntsville, AL

8:25 AM **2011 in Review** – David Wright, University of Florida, Quincy, FL

8:45 AM **Managing Cotton With a Changing Arsenal of Tools** –
Don Parker, National Cotton Council, Cordova, TN
Larry Steckel, University of Tennessee, Jackson, TN
Terry Kirkpatrick, University of Arkansas, Hope, AR
Phillip Roberts, University of Georgia, Tifton, GA

9:20 AM **Washington Update** – John Maguire, National Cotton Council, Washington, DC

9:40 AM **Cotton's 2012 Market Outlook** – J. Michael Quinn, Carolinas Cotton Growers Cooperative, Garner, NC

10:00 AM **Adjourn**



Production: Wednesday

57TH ANNUAL BELTWISE COTTON PRODUCTION CONFERENCE

WORKSHOPS AND SEMINARS

Wednesday, January 4, 2012

Wednesday Morning

CONVENTIONAL COTTON: BACK TO THE FUTURE?**Crystal Ballroom A-C (Orlando World Center Marriott) - 10:30 AM-12:00 PM***Official: Fred Bourland***10:30 AM Shift From Conventional to Transgenic Cultivars Since the Mid 1990's****Fred Bourland**, University of Arkansas - Northeast Research and Extension Center, Keiser, AR**10:45 AM Insect Control without Bt****R. G. Luttrell**, R. E. Jackson and K. C. Allen, USDA-ARS, SIMRU, Stoneville, MS**11:00 AM Unconventional Weed Control in Conventional Cotton****K. L. Smith**, University of Arkansas - Division of Agriculture, Monticello, AR**11:15 AM Comparison of Conventional and Transgenic Cotton Production Systems in Alabama****Tim D. Reed**¹, Charlie Burmester², C. Dale Monks³ and Eric Schavey², (1)Auburn University, Madison, AL, (2)Auburn University, Belle Mina, AL, (3)Auburn University, Auburn, AL**11:30 AM My "Recent" Experience with Conventional Cotton: Grower Perspective****Bruce Bond**, Bond Farm, Portland, AR**ECOLOGICAL CONCEPTS FOR COTTON INSECT AND CROP MANAGEMENT - A PRECISION AGRICULTURE APPROACH****Crystal Ballroom F (Orlando World Center Marriott) - 10:30 AM-12:00 PM***Officials: Jeffery L. Willers**Pat J. English***10:30 AM Ecological Concepts for Cotton Insect and Crop Management - A Precision Agriculture Approach****J.L. Willers**, USDA-ARS, Starkville, MS and Pat J. English, Mississippi State University, Stoneville, MS**EXTENSION COTTON SPECIALIST WORKSHOP****Crystal Ballrooms N-Q (Orlando World Center Marriott) - 10:30 AM-12:00 PM***Official: Christopher L. Main***10:30 AM Chemical Cotton Stalk Destruction: What Will Be the Herbicide Options in the Future****Gaylon Morgan**¹, Dan Fromme² and Dale Mott¹, (1)Texas AgriLife Extension Service, College Station, TX, (2)Texas AgriLife Extension, Corpus Christi, TX**10:50 AM Plant Populations: How Skippy Stands Impact Cotton Production****Mike A. Jones**, Clemson University, Florence, SC and Gene Stevens, University of Missouri - Delta Center, Portageville, MO**11:10 AM Variable Rate Seeding: Concepts and Practical Applications****Tom Barber**, U of A Division of Agriculture, Little Rock, AR**11:30 AM Replacing a Variety Legend: Evaluating New Varieties for Performance****Guy D. Collins**, University of Georgia, Tifton, GA and Jared R. Whitaker, University of Georgia, Statesboro, GA**SOCIAL MEDIA IN PRODUCTION AGRICULTURE****Crystal Ballroom J1 (Orlando World Center Marriott) - 10:30 AM-12:00 PM***Official: Angus Catchot***10:30 AM New vs Old Information Sources to Clientele****Owen Taylor**, AgFax Media, Brandon, MS**10:55 AM Mississippi Crop Situation-A Team Blog****Angus Catchot** and Darrin M. Dodds, Mississippi State University, Mississippi State, MS**11:10 AM Blogging From a County Agent Perspective****Rome Ethredge**, University of Georgia, Donalsonville, GA**11:25 AM Accountability- Tracking Your Progress****Scott Stewart**, The University of Tennessee, Jackson, TN**11:40 AM Discussion**

Wednesday Afternoon

TOOLS TO CONDUCT ON-FARM TESTS**Crystal Ballroom A-C (Orlando World Center Marriott) - 1:30 PM-3:30 PM***Officials: Terry Griffin**Ed Barnes***1:30 PM Capturing More Value From Your Precision Tools****Ed M. Barnes**, Cotton Incorporated, Cary, NC**2:00 PM Making the Most of Spatial Technologies: On-Farm Experiments****Terry Griffin**, University of Arkansas Division of Agriculture, Little Rock, AR**THRIPS AND NEMATODE MANAGEMENT: MAKING THE RIGHT DECISIONS ON EARLY-SEASON PEST CONTROL****Canary 1 & 2 (Orlando World Center Marriott) - 1:30 PM-5:30 PM***Officials: Gus Lorenz**Robert C. Kemerait**D. R. Cook**John Adamczyk**Ryan Jackson**Presidings: Ben Von Kanel**Brian P. Adams***1:30 PM Overview of Biology of Thrips Species Infesting Cotton in the U.S****D. R. Cook**, Mississippi State University, Stoneville, MS

57TH ANNUAL BELTWISE COTTON PRODUCTION CONFERENCE

WORKSHOPS AND SEMINARS

Wednesday, January 4, 2012

1:40 PM Thrips Wars: Challenges From the Northeast Region

D. Ames Herbert¹, Jack S. Bachelier², Dominic D. Reisig³, S. Malone¹, D. Mott¹ and J. Samler¹, (1)Virginia Tech, Suffolk, VA, (2) North Carolina State University, Raleigh, NC, (3)North Carolina State University, Vernon James Research and Extension Center, Plymouth, NC

1:55 PM Thrips Management in the Lower Southeast

Phillip M. Roberts¹, Michael Toews¹, John All¹, Jeremy K. Greene², Francis P. F. Reay-Jones³, Tim D. Reed⁴, Ronald Smith⁵ and B. L. Freeman⁵, (1)University of Georgia, Tifton, GA, (2)Clemson University, Blackville, SC, (3)Clemson University, Florence, SC, (4) Auburn University, Madison, AL, (5)Auburn University, Auburn, AL

2:10 PM Thrips Management in Cotton: A Mid-Southern Perspective

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

2:25 PM Thrips Management and Issues in Texas

David L. Kerns, Texas AgriLife Extension Service, Lubbock, TX

2:40 PM Overview of Nematodes Infesting Cotton in the U.S., Life Beyond Temik

Richard Davis, USDA, ARS, Tifton, GA

2:55 PM Nematode Management in the Mid-South

Terry Kirkpatrick, University of Arkansas, Fayetteville, AR

3:10 PM Nematode Management in the Southeast

John D. Mueller, Clemson University, Blackville, SC

3:25 PM Break**4:00 PM Overview of the Commercial Seed Treatment Process**

K. Stair and Charles T. Graham, Bayer CropScience, Grenada, MS

4:15 PM Syngenta Seed Care Technical Update

Scott Martin, Syngenta Crop Protection, Inc., Ruston, LA

4:30 PM Early Season Plant Protection Options From Bayer CropScience

Charles T. Graham, Bayer CropScience, Grenada, MS

4:45 PM Early Season Plant Protection Options From Monsanto

D. Wilson, Monsanto Company, St. Louis, MO

5:00 PM Telone II and Management of Nematodes: Developments From DowAgrosciences

A. W. Weiss, Dow AgroSciences LLC, Indianapolis, IN

NEW DEVELOPMENTS FROM INDUSTRY**Crystal Ballroom M (Orlando World Center Marriott) - 1:30 PM-5:45 PM****1:30 PM NG 1551 RF and NG 2051 B2RF, Two New NexGen Cotton Varieties for the Northern High Plains**

Dr. Tom Brooks, Americot, Inc., Lubbock, TX

1:40 PM Deltapine Class of 12 Early Maturity Cotton Varieties: DP 1212 B2RF and DP 1219 B2RF

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

1:50 PM AM 1511 B2RF a New Early-Mid Cotton Variety From Americot, Inc

Tom Brooks, Americot, Inc., Lubbock, TX

2:00 PM A New B2F Variety for West Texas From Bayer CropScience

D.B. Olivier¹, K.D. Melton¹, W.C. Elkins², S.P. Nichols³, Steve D. Calhoun¹, C.W. Bednarz¹ and T. Culp¹, (1)Bayer CropScience, Lubbock, TX, (2)Bayer CropScience, Bastrop, TX, (3)Bayer Crop Science, Lubbock, TX

2:10 PM PHY 499 WRF PERFORMANCE, A New Mid Season, Industry Standard From PhytoGen Cottonseed / Dow Agrosciences

Joel C. Faircloth, PhytoGen Cottonseed, Pfafftown, NC, S. M. Brown, PhytoGen Cottonseed, Dow AgroSciences, Indianapolis, IN, S.W. Fuchs, PhytoGen Cottonseed, Dow AgroSciences, San Angelo, TX, C.E. Brewer, PhytoGen Cottonseed, Marion, AR, R. G. Lemon, PhytoGen Cottonseed, Caldwell, TX, R. C. Nuti, PhytoGen Cottonseed, Shellman, GA, A. R. Parker, Dow AgroSciences, Indianapolis, IN, M. G. McPherson, PhytoGen Cottonseed, Greenville, MS and D.W. Canfield, PhytoGen Cottonseed, Dow AgroSciences, Indianapolis, IN

2:20 PM Dyna-Gro 2595 B2RF: A New Mid Maturity Variety with Bollgard II and Roundup Ready Flex Traits for Texas

Larry G. Stauber, Dyna-Gro Seed, Marion, AR

2:30 PM New Stoneville Cotton Varieties From Bayer CropScience

Kyle A. Fontenot, Bayer CropScience, West Monroe, LA, S.P. Nichols, Bayer Crop Science, Lubbock, TX, Stephen D. Lee, Bayer CropScience, Jonesboro, AR, Deborah Brickle Brown, Bayer CropScience, Elgin, SC, Joshua L. Mayfield, Bayer CropScience, Tifton, GA and Andy White, Bayer CropScience, McCarley, MS

2:40 PM FM 2989GLB2: A New FiberMax® Variety with GlyTol® Liberty Link® and Bollgard II® Technology From Bayer CropScience

K.D. Melton¹, D.B. Olivier¹, W.C. Elkins², S.P. Nichols¹, E.M. Shields¹, A.J. Hall¹ and W.D. Becker¹, (1)Bayer CropScience, Lubbock, TX, (2) Bayer CropScience, Bastrop, TX

2:50 PM Offering Two Powerful Weed Control Traits for Cotton Growers: A New Glytol® LibertyLink® and Bollgard II® Double-Stacked Herbicide Variety From Bayer CropScience with Full Tolerance to Glyphosate and Glufosinate

Joshua L. Mayfield¹, Andy White², Kenny D. Melton³, Steven P. Nichols³ and E.M. Shields³, (1)Bayer CropScience, Tifton, GA, (2)Bayer CropScience, McCarley, MS, (3)Bayer CropScience, Lubbock, TX

3:00 PM Deltapine Class of 12 Mid-Full Maturity Cotton Variety: DP 1252 B2RF

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

3:10 PM Revv Seed Treatment for Cotton

Roger Bowman¹, Patrick Reed² and Bret Gygi², (1)Novozymes, Munford, TN, (2)Novozymes, Brookfield, WI

57TH ANNUAL BELTWISE COTTON PRODUCTION CONFERENCE

WORKSHOPS AND SEMINARS

Wednesday, January 4, 2012

3:20 PM METLOCK™ Fungicide and Rizolex® Flowable Fungicide: Two New Seed Treatment Options for Cotton From Valent U.S.A. Corporation

Christopher B. Meador, Valent U.S.A. Corporation, Leland, MS

3:30 PM Break

4:00 PM Poncho Votivo: The Most Revolutionary Nematode Protection on the Seed; Now Available for Cotton

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

4:10 PM New Bidrin XP II® From AMVAC

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

4:20 PM Headline Fungicide and Twinline Fungicide: Foliar Application Systems for Use in Cotton

Greg Stapleton, Sandy Newell, Gary Fellows and Jennifer Holland, BASF Corporation, Research Triangle Park, NC

4:30 PM Display: A New Cotton Harvest Aid

Craig Heim, FMC Corporation, Philadelphia, PA

4:40 PM Sharpen Herbicide: A New Cotton Harvest Aid Tool in Texas

Adam Hixson¹, **Dan Westberg¹**, **Frederick Moore¹**, **John Harden¹**, **Wayne Keeling²** and **Gaylon Morgan³**, (1)BASF Corporation, Research Triangle Park, NC, (2)Texas AgriLife Research, Lubbock, TX, (3)Texas AgriLife Extension Service, College Station, TX

4:50 PM Simplicity and Efficiency Get An Upgrade, Model Year 2012 Module Express 635

Trent Haggard, Case IH, Racine, WI

5:00 PM John Deere 7760 - Model Year 2012 - Powerful and Intelligent

Robert C. Blad, John Deere Des Moines Works, Ankeny, IA

5:10 PM Smart Phone App Aids in Tracking Modules

Joseph T. Wyrick, EWR, Inc., Memphis, TN

5:20 PM Remote Monitoring Via Internet/Smart Phone, Burner/Drier Optimization

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

COTTON OPTIONS WORKSHOP

Crystal Ballrooms N-Q (Orlando World Center Marriott) - 1:30 PM-5:00 PM

Presidings: John Robinson

Kelli Merritt

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 half of the workshop will 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 discussion of more advanced strategies and emerging market issues for the upcoming season. This workshop reinforces the concepts of hedging, as well as provides timely information that will get producers thinking about the market possibilities for the upcoming crop.

IRRIGATION ESSENTIALS FOR COTTON

Canary 3 & 4 (Orlando World Center Marriott) - 1:30 PM-3:30 PM

Official: Ronald B. Sorensen

1:30 PM Most Water-Sensitive Growth Stages for Cotton

P. J. Bauer, USDA-ARS, Florence, SC, **Diane L. Rowland**, University of Florida-Agronomy, Gainesville, FL, **Wilson H. Faircloth**, USDA-ARS, National Peanut Research Lab, Dawson, GA and **Glen Ritchie**, Department of Plant and Soil Science, Texas Tech University, Lubbock, TX

1:50 PM Cotton Variety Response to Irrigation

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

2:10 PM Cotton Subsurface Drip and Overhead Irrigation Efficiency, Maturity, Yield and Quality

Jared R. Whitaker¹, **Guy D. Collins²**, **Glen Ritchie³** and **Calvin Meeks²**, (1)University of Georgia, Statesboro, GA, (2)University of Georgia, Tifton, GA, (3)Department of Plant and Soil Science, Texas Tech University, Lubbock, TX

2:30 PM Deep Subsurface Drip Irrigation for Cotton in the Southeast

Ronald B. Sorensen¹, **Christopher L. Butts¹** and **Russell C. Nuti²**, (1) USDA-ARS, National Peanut Research Laboratory, Dawson, GA, (2) PhytoGen Cottonseed, Shellman, GA

2:50 PM Irrigation of Cotton Makes "Cents"

Amanda Smith, University of Georgia, Tifton, GA

COTTON AND COTTONSEED INSURANCE UPDATE

Crystal Ballrooms N-Q (Orlando World Center Marriott) - 5:00 PM-5:30 PM

The workshop will review recent and upcoming changes to cotton crop insurance policies. Among the topics discussed will be recent crop insurance usage, choices under the combo policies, and insurance products for cottonseed. In the current market environment, producers should be aware of all risk management options that are available to their farming operation.

57TH ANNUAL BELTWISE COTTON PRODUCTION CONFERENCE

WORKSHOPS AND SEMINARS

Thursday, January 5, 2012

Thursday Morning

GLYPHOSATE-RESISTANT WEED CONTROL SYSTEMS: MANAGING AROUND THE CONSISTENT INCONSISTENCIES OF PRE-EMERGENCE HERBICIDES**Canary 1 & 2 (Orlando World Center Marriott) - 8:00 AM-10:00 AM***Official: Larry Steckel***8:00 AM Cotton Injury As Influenced by Herbicides, Irrigation, Seedling Vigor, Seeding Depth, and Environmental Stresses****A. Stanley Culpepper**, University of Georgia, Tifton, GA, Tim Moore, University of Georgia, Colquitt, GA, Rome Ethredge, University of Georgia, Donalsonville, GA and Wes Briggs, Briggs Crop Protection, Bainbridge, GA**8:30 AM Affects of Irrigation Type and Timing on Herbicide Performance****J. K. Norsworthy**, University of Arkansas, Fayetteville, AR**9:00 AM Preemergence Herbicides: A Necessary Evil****A.C. York**, North Carolina State University, Raleigh, NC**9:20 AM Residual Herbicides Are Cornerstone of Glyphosate-Resistant Italian Ryegrass Control****Jason Bond**, Mississippi State University, Stoneville, MS**9:40 AM The Double Edged Sword of Pre Emergence Herbicides****Larry Steckel**, The University of Tennessee, Jackson, TN**ECOLOGICAL CONCEPTS FOR COTTON INSECT AND CROP MANAGEMENT - A PRECISION AGRICULTURE APPROACH****Crystal Ballroom F (Orlando World Center Marriott) - 8:00 AM-10:00 AM***Officials: Jeffery L. Willers**Pat J. English***8:00 AM Ecological Concepts for Cotton Insect & Crop Management - A Precision Agriculture Approach****J.L. Willers**, USDA-ARS, Starkville, MS and Pat J. English, Mississippi State University, Stoneville, MS**MANAGEMENT OF NEMATODES IN COTTON USING SITE-SPECIFIC STRATEGIES****Crystal Ballrooms K & L (Orlando World Center Marriott) - 8:00 AM-10:00 AM***Official: Robert Kemerait***8:00 AM Investing in the Future of Nematode Management**
Robert L. Nichols, Cotton Incorporated, Cary, NC**8:10 AM The Influence of Apparent Electrical Conductivity of the Soil on Nematicides in Cotton****Charles Overstreet**, LSU Agricultural Center, Department of Plant Pathology and Crop Physiology, Baton Rouge, LA, Edward C. McGawley, Dept. of Plant Pathology and Crop Physiology, Baton Rouge, LA, Dennis Burns, LSU Agricultural Center, St. Joseph, LA, R. L. Frazier, LSU Agricultural Center, Tallulah, LA and Roberto Barbosa, LSU Agricultural Center, Dept. of Biological and Agricultural Engineering, Baton Rouge, LA**8:25 AM Effect of Soil Texture on the Damage Caused to Cotton by Reniform Nematodes****Will Henderson**¹, Ahmad Khalilian¹, J. D. Mueller¹, W. Scott Monfort¹, T.L. Kirkpatrick², Terry Griffin³ and C. Overstreet⁴, (1) Clemson University, Blackville, SC, (2)University of Arkansas, Hope, AR, (3)University of Arkansas Division of Agriculture, Little Rock, AR, (4)LSU AgCenter, Baton Rouge, LA**8:40 AM Evolution of Nematode Management in Cotton: Dow Agrosiences' Commitment to Site Specific Technology****R. A. Haygood**, A. W. Weiss, J. D. Busacca, W. S. Daniel, L. M. Giles, E. L. Buchanan and S. T. Stum, Dow AgroSciences, Indianapolis, IN**8:55 AM Equipment for Site-Specific Telone Applications****Michale Dubose**, Chemical Containers, Jacksonville, FL**9:10 AM From the Field: The Reality of Site-Specific Applications with Cotton Growers****D. R. Burns**, LSU AgCenter, St. Joseph, LA**9:25 AM A Grower's Perspective on the Implementation of Site-Specific Nematode Management****Bruce Bond**, Bond Farms, Lake Village, AR**9:45 AM Discussion****ENHANCED EFFICIENCY NITROGEN FERTILIZERS****Crystal Ballroom H (Orlando World Center Marriott) - 8:00 AM-10:00 AM***Official: M. Mozaffari***8:00 AM Understanding Enhanced Efficiency Nitrogen Fertilizers: Tools or Toys?****Alan Blaylock**, Agrium Advanced Technologies, Loveland, CO**8:30 AM New Technology N Products in Alabama****Charles Mitchell**, Auburn University, Auburn, AL, Dexter Watts, USDA-ARS Soil Dynamics Lab, Auburn, AL and Don Moore, Prattville Research Unit, Prattville, AL**9:00 AM Enhanced Efficiency Nitrogen Fertilizers for Cotton in the Southeast - Where Do They Fit?****Glendon H. Harris**, University of Georgia, Tifton, GA

57TH ANNUAL BELTWISE COTTON PRODUCTION CONFERENCE

WORKSHOPS AND SEMINARS

Thursday, January 5, 2012

COTTON INSECT RESEARCH AND CONTROL ROUNDTABLE**Crystal Ballrooms N-P (Orlando World Center Marriott) - 8:00 AM-10:00 AM***Official: Gus Lorenz*

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 with regard to arthropod management. All are welcome and are encouraged to participate in this roundtable discussion.

COTTON ECONOMIC OUTLOOK SYMPOSIUM**Canary 3 & 4 (Orlando World Center Marriott) - 10:30 AM-12:00 PM***Presiding: Alejandro Plastina***10:30 AM Welcoming Remarks****10:35 AM Cotton Marketer of the Year Award****10:45 AM Long-Term World Market Outlook****Terry P. Townsend**, International Cotton Advisory Committee**11:05 AM Short-Term U.S. Market Outlook****Gary Adams**, National Cotton Council**11:25 AM Price Risk Management for Cotton Producers****Antonio V. Esteve**, President, International Cotton Association**11:45 AM Discussion****COTTON UTILIZATION CONFERENCE: A LIFE CYCLE APPROACH****Crystal Ballrooms A & B (Orlando World Center Marriott) - 10:30 AM-12:00 PM***Officials: Alfred D. French**Mourad Krifa***10:30 AM Benchmarking the Environmental Aspects of Cotton Fiber and Fabric Production Using a Life Cycle Approach****Janet Reed**, Michele L. Wallace, Megan H. Peterson and Ed M. Barnes, Cotton Incorporated, Cary, NC**PARTITIONING AND TRANSLOCATION IN RELATION TO EFFICIENT PRODUCTION AND YIELD FORMATION****Crystal Ballroom J1 (Orlando World Center Marriott) - 10:30 AM-12:00 PM***Officials: Derrick Oosterhuis**Glen Ritchie***10:30 AM Environmental Stress and Partitioning****K. Raja Reddy**, Mississippi State University, Mississippi State, MS**10:50 AM Alteration of Cotton Source-Sink Relations by Crop Management Practices****C. Owen Gwathmey**, University of Tennessee, Jackson, TN**11:10 AM Partitioning and Translocation - Cotton Anatomy and Morphology****D. M. Oosterhuis**, University of Arkansas, Fayetteville, AR and Jack Mauney, Jarman Enterprises, Mesa, AZ**11:30 AM The Vascular System of Cotton****Jack Mauney**, Jarman Enterprises, Mesa, AZ**COTTON IMPROVEMENT - THURSDAY MORNING****Crystal Ballroom C (Orlando World Center Marriott) - 10:30 AM-12:00 PM****10:30 AM Identification of Molecular Markers Associated with a Gene Susceptible to the Herbicide Envoke® in Cotton****David Fang¹**, J. C. McCarty², Ping Li¹ and J. N. Jenkins², (1)USDA-ARS-SRRC, New Orleans, LA, (2)USDA/ARS Crop Science Research Laboratory, Mississippi State, MS**10:45 AM Mapping and DNA Sequence Analysis of BACs From Chromosomes 11 and 21 Targeting Nematode and Other Pathogen Resistance Genes****Congli Wang¹**, Mauricio Ulloa², Christopher Saski³ and **Philip A. Roberts¹**, (1)University of California Riverside, Riverside, CA, (2) USDA-ARS, WICSRU, Shafter, CA, (3)Clemson University, Clemson, SC**11:00 AM Marker Assisted Selection for Nematode Resistance - Progress****Ted P. Wallace¹**, Peggy M. Thaxton², Jim Nichols², Brian E. Scheffler³ and Jodi A. Scheffler⁴, (1)Mississippi State University, Mississippi State, MS, (2)Mississippi State University, Stoneville, MS, (3)USDA-ARS Genomics and Bioinformatics Research Unit, Stoneville, MS, (4) USDA-ARS Crop Genetics Research Unit, Stoneville, MS**11:15 AM Performance Evaluation of LONREN and BARBREN Reniform Nematode Resistant Germplasm Lines****Roelof B. Sikkens¹**, Alois A. Bell², Terry A. Wheeler³, C. Overstreet⁴, David B. Weaver¹, K. S. Lawrence¹ and R. L. Nichols⁵, (1)Auburn University, Auburn University, AL, (2)USDA-ARS-SPARC, College Station, TX, (3)Texas Agrilife Research, Lubbock, TX, (4)LSU AgCenter, Baton Rouge, LA, (5)Cotton Incorporated, Cary, NC**11:30 AM Pest Resistance and Agronomic Performance of Upland Cotton Lines Following Eight Generations of Introgression of the BNL3279_105 DNA Marker From *Gossypium barbadense* GB713****Alois A. Bell**, USDA-ARS-Southern Plains Agricultural Research Center, College Station, TX**11:45 AM Inheritance and Variability of Tolerance to *Verticillium Dahliae* Kleb Among Geographically Remote F1-F2 Hybrids of *Gossypium Hirsutum* L****V. A. Avtonomov¹**, **Robert D. Stipanovic²**, A. A. Bell², O. H. Kimsanbaev¹, Shadman Namazov³, U. K. Qayumov¹, Sh. B. Amanturdiyev¹ and G. X. Aziziva¹, (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)The Uzbek Scientific Research Institute of Cotton Breeding and Seed Production, Tashkent, Uzbekistan

57TH ANNUAL BELTWISE COTTON PRODUCTION CONFERENCE

WORKSHOPS AND SEMINARS

Thursday, January 5, 2012

**THE TROUBLE WITH LEAF SPOTS AND COTTON:
OPPORTUNITIES FOR MANAGEMENT****Crystal Ballrooms K & L (Orlando World Center Marriott) - 10:30
AM-12:20 PM***Official: Robert Kemerait***10:30 AM An Overview of Foliar Diseases Affecting Cotton****R. C. Kemerait**, Department of Plant Pathology, University of Georgia, Tifton, GA**10:40 AM Evaluation of Fungicides for Management of
Alternaria and Stemphylium Leaf Spot Diseases****Jason E. Woodward**, Texas AgriLife Extension Service, Lubbock, TX**11:00 AM Crop Nutrition and the Management of
Stemphylium Leaf Spot****Glendon H. Harris**, University of Georgia, Tifton, GA and R. C. Kemerait, Department of Plant Pathology, University of Georgia, Tifton, GA**11:20 AM Assessment of *Corynespora* Leaf Spot in Georgia****J. T. Walls**¹, F.H. Sanders², J. T. Flanders³, J. Kichler⁴, M. Crosby⁵, A. Fulmer⁶ and R. C. Kemerait², (1)University of Georgia, Tifton, GA, (2)Department of Plant Pathology, University of Georgia, Tifton, GA, (3)University of Georgia, Cairo, GA, (4)University of Georgia, Oglethorpe, GA, (5)University of Georgia Cooperative Extension, Swainsboro, GA, (6)University of Georgia, Tifton, GA, Afghanistan**11:40 AM The Resurgence of Bacterial Blight on Cotton in
Arkansas****C. S. Rothrock**¹, T.L. Kirkpatrick², Tom Barber³, C. M. Coker⁴ and S. E. Smith¹, (1)Dept. of Plant Pathology, University of Arkansas, Fayetteville, AR, (2)University of Arkansas, Hope, AR, (3)U of A Division of Agriculture, Little Rock, AR, (4)U of A Division of Agriculture, Monticello, AR**12:00 PM The Impact of Angular Leaf Spot in Mississippi in
2011****Tom Allen**, Mississippi State University, Stoneville, MS

TECHNICAL CONFERENCES PROGRAM

66TH ANNUAL COTTON AGRONOMY & PHYSIOLOGY CONFERENCE

Thursday, January 5, 2012

Thursday Morning

PARTITIONING AND TRANSLOCATION IN RELATION TO EFFICIENT PRODUCTION AND YIELD FORMATION

Crystal Ballroom J1 (Orlando World Center Marriott) - 10:30 AM-12:00 PM

Officials: Derrick Oosterhuis

Glen Ritchie

10:30 AM Environmental Stress and Partitioning

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

10:50 AM Alteration of Cotton Source-Sink Relations by Crop Management Practices

C. Owen Gwathmey, University of Tennessee, Jackson, TN

11:10 AM Partitioning and Translocation - Cotton Anatomy and Morphology

D. M. Oosterhuis, University of Arkansas, Fayetteville, AR and Jack Mauney, Jarman Enterprises, Mesa, AZ

11:30 AM The Vascular System of Cotton

Jack Mauney, Jarman Enterprises, Mesa, AZ

Thursday Afternoon

COTTON AGRONOMY & PHYSIOLOGY - THURSDAY EARLY AFTERNOON - SESSION A

Crystal Ballroom J1 (Orlando World Center Marriott) - 1:30 PM-3:15 PM

1:30 PM Two Year Evaluation of Cucurbit Crops (Cantaloupe and Watermelon) and Cotton Intercropping to Determine Economic Feasibility and Growth Compatibility

T. Brian Tankersley¹, Guy Collins², A. Stanley Culpepper², Amanda R. Smith² and Phillip Roberts², (1)UGA Cooperative Extension -Tift County, Tifton, GA, (2)University of Georgia, Tifton, GA

1:45 PM Abiotic Stresses and Cotton Growth and Development

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

2:15 PM Forty Years of Ag. Research Funding At Cotton Incorporated

Kater Hake, Bob Nichols, Pat O'Leary, Don Jones, Tom Wedegaertner, Jeanne Reeves, Ed Barnes and Janet Reed, Cotton Incorporated, Cary, NC

2:30 PM The Effects of Early Season Physical Injury on Cotton Growth, Maturity, and Yield

Guy D. Collins, University of Georgia, Tifton, GA and Jared R. Whitaker, University of Georgia, Statesboro, GA

2:45 PM Impact of Elevated CO2 and Temperature On Cotton Growth, Physiology and Biochemistry

Paxton Payton¹, Michael Bange², Renee Smith³, Katie Broughton⁴, Remko Duursma³ and David Tissue³, (1)USDA/ARS, Lubbock, TX, (2)CSIRO Plant Industry, Narrabri, Australia, (3)University of Western Sydney, Richmond NSW, Australia, (4)CSIRO Cotton Research Unit - Myall Vale, Narrabri NSW, Australia

3:00 PM Cytokinin Amelioration of Yield Losses From Drought and Nematodes

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

COTTON AGRONOMY & PHYSIOLOGY - THURSDAY EARLY AFTERNOON - SESSION B - GRADUATE STUDENT COMPETITION

Crystal Ballroom G1 (Orlando World Center Marriott) - 2:00 PM-3:30 PM

2:00 PM Transgenic Cottons Show Differential Responses to Drought-Stress and Herbivory by Western Flower Thrips

Justin G. Fiene¹, Chris Rock², Lauren Kalns³, Christian Nansen⁴ and Gregory A. Sword¹, (1)Department of Entomology, Texas A&M University, College Station, TX, (2)Dept. Biological Sciences, Lubbock, TX, (3)Department of Entomology, College Station, TX, (4)Texas AgriLife Research, Lubbock, TX

2:15 PM Effect of 1-MCP Application on Heat Stressed Cotton During Reproductive Development

Justin B. Phillips, University of Arkansas, Fayetteville, AR

2:30 PM Defining Optimal Irrigation Strategies for Cotton Using Sub-Surface Drip and Overhead Irrigation Systems in Georgia

Calvin D. Meeks¹, Jared R. Whitaker², Glen L. Ritchie³, Calvin D. Perry⁴ and Guy D. Collins¹, (1)University of Georgia, Tifton, GA, (2)University of Georgia, Statesboro, GA, (3)Texas Tech University, Lubbock, TX, (4)University of Georgia - Stripling Irrigation Research Park, Camilla, GA

2:45 PM Water Deficit and Irrigation Response in Upland Cotton

Matthew S. Wiggins¹, H. Adam Duncan², Brian G. Leib² and Christopher L. Main¹, (1)University of Tennessee, Jackson, TN, (2)University of Tennessee, Knoxville, TN

3:00 PM Temperature Relationships of Cotton Yield

Toby R. FitzSimons and Derrick M. Oosterhuis, University of Arkansas, Fayetteville, AR

3:15 PM Management of Cotton Grown Under Sub-Surface Drip and Furrow Irrigation with Differing Plant Densities

Alexis D. White, Texas A&M University- College Station, College Station, TX and J. T. Cothren, Texas A&M University, College Station, TX

TECHNICAL CONFERENCES PROGRAM

66TH ANNUAL COTTON AGRONOMY & PHYSIOLOGY CONFERENCE

Thursday, January 5, 2012

COTTON AGRONOMY & PHYSIOLOGY - THURSDAY LATE AFTERNOON - SESSION A

Crystal Ballroom J1 (Orlando World Center Marriott) - 4:00 PM-5:30 PM

4:00 PM The Effect of Episodic Drought Stress on Yield and Fiber Quality of Cotton Cultivars in West Texas

Fulvio R. Simao¹, Glen Ritchie¹ and C.W. Bednarz², (1)Texas Tech University, Lubbock, TX, (2)Bayer CropScience, Lubbock, TX

4:15 PM Investigation for Alternatives to 2,4-D for Post-Harvest Cotton Stalk Destruction

Dan D. Fromme, Texas AgriLife Extension Service, Corpus Christi, TX, Gaylon D. Morgan, Texas AgriLife Extension Service, College Station, TX, R.B. Lassiter, Dow AgroSciences LLC, Little Rock, AR and V. B. Langston, Dow AgroSciences, Indianapolis, IN

4:30 PM On-Farm Cotton Trials Using Precision Ag in Northeast Louisiana

Dennis Burns¹, Sterling Blanche², Charles Overstreet³, John Kruse² and R.L. Frazier⁴, (1)LSU Agricultural Center, St. Joseph, LA, (2)LSU Agricultural Center, Alexandria, LA, (3)LSU Agricultural Center, Baton Rouge, LA, (4)LSU Agricultural Center, Tallulah, LA

4:45 PM SPAD Meter Measurements and Cotton N Management

Guangyao (Sam) Wang and Ruth K. Assimwe, University of Arizona Maricopa Ag Center, Maricopa, AZ

5:00 PM Evaluation of Foliar Fertilizer on Nutrient Deficient Cotton

Rex Friesen, Southern Kansas Cotton Growers, Winfield, KS and R. L. Nichols, Cotton Incorporated, Cary, NC

5:15 PM Cotton Variety Performance in On-Farm Trials in the Mid-South

John S. Kruse, LSU AgCenter, Alexandria, LA, Tom Barber, U of A Division of Agriculture, Little Rock, AR, Darrin M. Dodds, Mississippi State University, Mississippi State, MS, Christopher L. Main, University of Tennessee, Jackson, TN and Blake McClelland, University of Arkansas Division of Agriculture, Keiser, AR

COTTON AGRONOMY & PHYSIOLOGY - THURSDAY LATE AFTERNOON - SESSION B - GRADUATE STUDENT COMPETITION

Crystal Ballroom G1 (Orlando World Center Marriott) - 4:00 PM-6:00 PM

4:00 PM Cotton Plant Damage Recovery Comparison Between Different Variety Types in a Short Growing Season

Reagan K. Anders¹, Jane K. Dever¹ and Mark Zarnstorff², (1)Texas Agrilife Research, Lubbock, TX, (2)National Crop Insurance Services, Overland Park, KS

4:15 PM Effects of Irrigation Termination Date on Cotton Yield and Fiber Quality

Heath R. Reeves and Glen L. Ritchie, Texas Tech University, Lubbock, TX

4:30 PM Effect of Nitrogen on Fiber Quality of Cotton Varieties with Varying Reactions to Verticillium Wilt

Caleb R. Albers, Texas Tech University, Lubbock, TX, Jason E. Woodward, Texas AgriLife Extension Service, Lubbock, TX, Eric C. Best, Monsanto, Lubbock, TX, Douglas J. Jost, Monsanto - D&PL West, Garden City, TX and Peter A. Dotray, Texas Tech University, AgriLife Research, and Texas AgriLife Extension Service, Lubbock, TX

4:45 PM Effect of Plant Growth Regulator Application on Cotton Growth and Development

Chase Samples¹, Darrin M. Dodds¹, L. Tom Barber² and Christopher Main³, (1)Mississippi State University, Mississippi State, MS, (2) Division of Agriculture, University of Arkansas, Little Rock, AR, (3) University of Tennessee, Jackson, TN

5:00 PM WUE and Irrigation Response of Cotton Cultivars Grown on Sub-Surface Drip in West Texas

Michael Chase Snowden, Texas Tech University, Lubbock, TX, Glen Ritchie, Department of Plant and Soil Science, Texas Tech University, Lubbock, TX and Thomas Thompson, Virginia Tech, Blacksburg, VA

5:15 PM Management of Micronaire Values by Defoliation Timing in Three Mid-Full Season Cultivars

Ross A. Rinderknecht, Texas A&M University- College Station, College Station, TX and Joe T. Cothren, Texas A&M University, College Station, TX

5:30 PM Business Meeting

TECHNICAL CONFERENCES PROGRAM

66TH ANNUAL COTTON AGRONOMY & PHYSIOLOGY CONFERENCE

Friday, January 6, 2012

Friday Morning

COTTON AGRONOMY & PHYSIOLOGY - FRIDAY EARLY MORNING - SESSION A

Crystal Ballroom J1 (Orlando World Center Marriott) - 8:00 AM-10:00 AM

8:00 AM Irrigation and Water Conservation Research in Cotton
R. C. Nuti, Phytogen Cottonseed, Shellman, GA

8:30 AM Cotton Variety Response to Irrigation
Christopher L. Main, University of Tennessee, Jackson, TN, L. Tom Barber, Division of Agriculture, University of Arkansas, Little Rock, AR and Darrin M. Dodds, Mississippi State University, Mississippi State, MS

8:45 AM Characterization of Whole-Plant Water Economy in Cotton Genotypes

Murilo M. Maeda¹, Carlos J. Fernandez², Joe T. Cothren¹ and Juan C. Correa², (1)Texas A&M University, College Station, TX, (2)Texas AgriLife Research and Extension Center, Corpus Christi, TX

9:00 AM Cotton Production Systems in a Changing Texas High Plains Environment

Cora Lea W. Emerson¹, James P. Bordovsky², Dick L. Auld³, J. T. Mustian² and Andy M. Cranmer², (1)Texas Tech University & Texas AgriLife Research, Plainview, TX, (2)Texas AgriLife Research, Plainview, TX, (3)Texas Tech University & Texas AgriLife Research, Lubbock, TX

9:15 AM A Method for Establishing Crop Coefficients for Drip and Sprinkler Irrigated Cotton

Daniel S. Munk¹, Robert B. Hutmacher², Steve D. Wright³, Brian H. Marsh⁴ and Jonathon F. Wroble¹, (1)University of California, Fresno, CA, (2)University of California - Davis & West Side REC, Five Points, CA, (3)University of California, Tulare, CA, (4)University of California, Bakersfield, CA

9:30 AM Irrigation Initiation and Termination Effects on Cotton Yield and Fiber Quality

Tom Barber, U of A Division of Agriculture, Little Rock, AR, Jarett Chapman, University of Arkansas Division of Agriculture, Little Rock, AR and Paul Francis, University of Arkansas Division of Agriculture, Monticello, AR

9:45 AM Managing DP Varieties Under Various Watering Regimes

Douglas J. Jost, Monsanto - D&PL West, Garden City, TX, Dave Albers, Delta and Pine Land Company, Scott, MS and James C. Graham, Monsanto Company, West Chesterfield, MO

COTTON AGRONOMY & PHYSIOLOGY - FRIDAY EARLY MORNING - SESSION B

Crystal Ballroom G1 (Orlando World Center Marriott) - 8:45 AM-10:00 AM

8:45 AM Hemigossypol Is Present in Glanded Cottonseed (*Gossypium hirsutum*)

Tanya A. Wagner, Jinggao Liu, Robert D. Stipanovic, Lorraine S. Puckhaber and Alois A. Bell, USDA ARS SPARC, College Station, TX

9:00 AM Controlled Release Nitrogen Fertilizers for Cotton Production in Missouri, How Do They Perform in Small Plot and Field Scale Trials?

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

9:15 AM Effects of Extreme Air Temperature and Humidity on the Insecticidal Expression Level of Bt Cotton

Dehua Chen¹, Yuan Chen², Li Zhang³ and Yuan Chen¹, (1) Yangzhou University, China, Yangzhou, China, (2)Texas A&M University Department of Soil and Crop Sciences, College Station, TX, (3)Yangzhou University, Yangzhou, China

9:30 AM Virus-Induced Gene Silencing of GFP in Cotton Fiber

John Richard Tuttle, Candace H. Haigler and Dominique Robertson, North Carolina State University, Raleigh, NC

COTTON AGRONOMY & PHYSIOLOGY - FRIDAY LATE MORNING - SESSION A

Crystal Ballroom J1 (Orlando World Center Marriott) - 10:30 AM-12:15 PM

10:30 AM Application of An Australian Model to Predict Fiber Characteristics of Cotton Grown in Texas

James R. Mahan, USDA-ARS, Lubbock, TX, Michael P. Bange, CSIRO and Cotton Catchment Communities CRC, Narrabri, Australia and Paxton Payton, USDA/ARS, Lubbock, TX

10:45 AM Cotton Variety Characteristics and Their Impact on Cotton Leaf Grade

Zachary P. Eder¹, Gaylon Morgan¹, Dan Fromme¹, Dale Mott¹ and Fred M. Bourland², (1)Texas AgriLife Extension Service, College Station, TX, (2)University of Arkansas-NEREC, Keiser, AR

11:00 AM Break

11:15 AM Student Presentation and Outstanding Physiology Awards

COTTON AGRONOMY & PHYSIOLOGY - FRIDAY LATE MORNING - SESSION B

Crystal Ballroom G1 (Orlando World Center Marriott) - 10:30 AM-11:00 AM

10:30 AM Utilizing Boll Production and Distribution to More Effectively Understand Performance of Cotton Varieties in Georgia

Jared R. Whitaker, University of Georgia, Statesboro, GA, Guy Collins, University of Georgia, Tifton, GA and Glen L. Ritchie, Texas Tech University, Lubbock, TX

10:45 AM Agronomic and Economic Results From a Three-Year Cotton Seeding Rate Field-Scale Experiments in Arkansas

Terry Griffin, University of Arkansas Division of Agriculture, Little Rock, AR, L. Tom Barber, Division of Agriculture, University of Arkansas, Little Rock, AR and Jarett W. Chapman, U of A Division of Agriculture, Little Rock, AR

CANCELLED

TECHNICAL CONFERENCES PROGRAM

72ND ANNUAL COTTON DISEASE COUNCIL

Thursday, January 5, 2012

Thursday Morning

MANAGEMENT OF NEMATODES IN COTTON USING SITE-SPECIFIC STRATEGIES

Crystal Ballrooms K & L (Orlando World Center Marriott) - 8:00 AM-10:00 AM

Official: Robert Kemerait

8:00 AM Investing in the Future of Nematode Management

Robert L. Nichols, Cotton Incorporated, Cary, NC

8:10 AM The Influence of Apparent Electrical Conductivity of the Soil on Nematicides in Cotton

Charles Overstreet, LSU Agricultural Center, Department of Plant Pathology and Crop Physiology, Baton Rouge, LA, Edward C. McGawley, Dept. of Plant Pathology and Crop Physiology, Baton Rouge, LA, Dennis Burns, LSU Agricultural Center, St. Joseph, LA, R. L. Frazier, LSU Agricultural Center, Tallulah, LA and Roberto Barbosa, LSU Agricultural Center, Dept. of Biological and Agricultural Engineering, Baton Rouge, LA

8:25 AM Effect of Soil Texture on the Damage Caused to Cotton by Reniform Nematodes

Will Henderson¹, Ahmad Khalilian¹, J. D. Mueller¹, W. Scott Monfort¹, T.L. Kirkpatrick², Terry Griffin³ and C. Overstreet⁴, (1)Clemson University, Blackville, SC, (2)University of Arkansas, Hope, AR, (3) University of Arkansas Division of Agriculture, Little Rock, AR, (4)LSU AgCenter, Baton Rouge, LA

8:40 AM Evolution of Nematode Management in Cotton: Dow Agrosciences' Commitment to Site Specific Technology

R. A. Haygood, A. W. Weiss, J. D. Busacca, W. S. Daniel, L. M. Giles, E. L. Buchanan and S. T. Stum, Dow AgroSciences, Indianapolis, IN

8:55 AM Equipment for Site-Specific Telone Applications

Michale Dubose, Chemical Containers, Jacksonville, FL

9:10 AM From the Field: The Reality of Site-Specific Applications with Cotton Growers

D. R. Burns, LSU AgCenter, St. Joseph, LA

9:25 AM A Grower's Perspective on the Implementation of Site-Specific Nematode Management

Bruce Bond, Bond Farms, Lake Village, AR

9:45 AM Discussion

THE TROUBLE WITH LEAF SPOTS AND COTTON: OPPORTUNITIES FOR MANAGEMENT

Crystal Ballrooms K & L (Orlando World Center Marriott) - 10:30 AM-12:20 PM

Official: Robert Kemerait

10:30 AM An Overview of Foliar Diseases Affecting Cotton

R. C. Kemerait, Department of Plant Pathology, University of Georgia, Tifton, GA

10:40 AM Evaluation of Fungicides for Management of Alternaria and Stemphylium Leaf Spot Diseases

Jason E. Woodward, Texas AgriLife Extension Service, Lubbock, TX

11:00 AM Crop Nutrition and the Management of Stemphylium Leaf Spot

Glendon H. Harris, University of Georgia, Tifton, GA and R. C. Kemerait, Department of Plant Pathology, University of Georgia, Tifton, GA

11:20 AM Assessment of Corynespora Leaf Spot in Georgia

J. T. Walls¹, F.H. Sanders², J. T. Flanders³, J. Kichler⁴, M. Crosby⁵, A. Fulmer⁶ and R. C. Kemerait², (1)University of Georgia, Tifton, GA, (2) Department of Plant Pathology, University of Georgia, Tifton, GA, (3) University of Georgia, Cairo, GA, (4)University of Georgia, Oglethorpe, GA, (5)University of Georgia Cooperative Extension, Swainsboro, GA, (6)University of Georgia, Tifton, GA, Afghanistan

11:40 AM The Resurgence of Bacterial Blight on Cotton in Arkansas

C. S. Rothrock¹, T.L. Kirkpatrick², Tom Barber³, C. M. Coker⁴ and S. E. Smith¹, (1)Dept. of Plant Pathology, University of Arkansas, Fayetteville, AR, (2)University of Arkansas, Hope, AR, (3)U of A Division of Agriculture, Little Rock, AR, (4)U of A Division of Agriculture, Monticello, AR

12:00 PM The Impact of Angular Leaf Spot in Mississippi in 2011

Tom Allen, Mississippi State University, Stoneville, MS

Thursday Afternoon

COTTON DISEASE COUNCIL - THURSDAY EARLY AFTERNOON - STUDENT PAPER COMPETITION

Crystal Ballrooms K & L (Orlando World Center Marriott) - 1:30 PM-3:00 PM

1:30 PM Performance Evaluation of LONREN-1 Genotypes in Response to Nematicide

Drew W. Schrimsher, Kathy S. Lawrence, Roelof B. Sikkens, David B. Weaver and Scott R. Moore, Auburn University, Auburn, AL

1:45 PM The Effect of Soil Water Availability on the Interaction of *Rotylenchulus reniformis* and Cotton in Multiple Soil Types

Scott R. Moore¹, Kathy S. Lawrence¹ and Francisco J. Arriaga², (1) Auburn University, Auburn, AL, (2)USDA-ARS, Auburn, AL

2:00 PM An Update on Lance Nematodes in Cotton Agroecosystems

Claudia M. Holguin¹, Paula Agudelo¹ and John D. Mueller², (1) Clemson University, Clemson, SC, (2)Clemson University, Blackville, SC

2:15 PM Identification and Characterization of C-Type Lectin Genes From the Reniform Nematode

Satish Ganji, Department of Biochemistry & Molecular Biology, Mississippi State, MS, Martin J. Wubben, USDA-ARS, Mississippi State, MS and J. N. Jenkins, USDA/ARS Crop Science Research Laboratory, Mississippi State, MS

TECHNICAL CONFERENCES PROGRAM

72ND ANNUAL COTTON DISEASE COUNCIL

Thursday, January 5, 2012 and Friday, January 6, 2012

2:30 PM Effects of *Thielaviopsis Basicola* and *Meloidogyne Incognita* on Cotton Seedlings: Do Spatially Separated Pathogens Interact on a Host?

Terea J. Stetina, University of Arkansas Department of Plant Pathology, Fayetteville, AR, Craig Rothrock, University of Arkansas, Fayetteville, AR and Terry L. Kirkpatrick, University of Arkansas, Hope, AR

COTTON DISEASE COUNCIL - THURSDAY LATE AFTERNOON

Crystal Ballrooms K & L (Orlando World Center Marriott) - 4:00 PM-5:30 PM

4:00 PM An Update on Verticillium Wilt of Australia

Karen A. Kirkby¹, Stephen J. Allen² and Peter A. Lonergan¹, (1) NSW Primary Industries, Narrabri, NSW, Australia, (2) Cotton Seed Distributors Ltd, Narrabri, Australia

4:15 PM Disease Development in Response to Inoculum Levels of *Fusarium oxysporum* f. sp. *vasinfectum* Race 4 Chlamydospores

Rebecca S. Bennett, USDA-ARS, Western Integrated Cropping Systems Research Unit, Shafter, CA

4:30 PM *Fusarium* Race 4 in the San Joaquin Valley: An Update

Robert B. Hutmacher, University of California - Davis & West Side REC, Five Points, CA, Mauricio Ulloa, USDA-ARS, WICSRU, Shafter, CA, S. D. Wright, University of California, Tulare, CA, R. Michael Davis, University of California, Dept. of Plant Pathology, Davis, CA, Mark Keeley, University of California Dept Plant Sciences, Shafter, CA and Gerardo Banuelos, University of California Cooperative Extension, Tulare County, Tulare, CA

4:45 PM Isolation of *Xanthomonas campestris* P.v. *Malvacearum* From Symptomatic Cotton Bolls

Jason E. Woodward¹, Ellen B. Ryan¹, Rebecca A. Grubbs¹, Mark S. Kelley² and Marvin D. Dunlap³, (1) Texas Tech University, Lubbock, TX, (2) Texas Agrilife Extension Service, Lubbock, TX, (3) Texas Agrilife Extension Service, Wellington, TX

5:00 PM A Survey of Endophytic Fungi in Asymptomatic Texas Cotton with Implications for Disease and Pest Management

Gregory A. Sword¹, Maria Julissa Ek Ramos¹, Wenqing Zhou¹, Cesar Valencia¹, Gaylon Morgan² and David L. Kerns³, (1) Department of Entomology, Texas A&M University, College Station, TX, (2) Texas Agrilife Extension, College Station, TX, (3) Texas Agrilife Extension Service, Lubbock, TX

Friday Morning

COTTON DISEASE COUNCIL - FRIDAY EARLY MORNING

Crystal Ballrooms K & L (Orlando World Center Marriott) - 8:15 AM-10:00 AM

8:15 AM MIC3 Over-Expression Reduces Cotton Susceptibility to Root-Knot Nematode

Martin J. Wubben¹, Franklin E. Callahan¹, J. N. Jenkins¹ and Jeff Velten², (1) USDA-ARS, Mississippi State, MS, (2) USDA-ARS, Lubbock, TX

8:30 AM Search for Virulence in Reniform Nematodes

J. L. Starr, Texas A&M University, College Station, TX

8:45 AM Management of Root-Knot Nematodes without Temik

Terry A. Wheeler, Texas Agrilife Research, Lubbock, TX, Kerry Siders, Texas Agrilife Extension, Levelland, TX and Manda G. Cattaneo, Texas Agrilife Extension Service, Seminole, TX

9:00 AM Potential Nematicide Options for Reniform and Root-Knot Management

Katheryn S. Lawrence and Scott R. Moore, Auburn University, Dept. of Entomology and Plant Pathology, Auburn, AL

9:15 AM Management of *Meloidogyne Incognita* with Host Resistance and Nematicides

R. C. Kemerait¹, Phillip Roberts², F.H. Sanders¹ and J. T. Walls², (1) Department of Plant Pathology, University of Georgia, Tifton, GA, (2) University of Georgia, Tifton, GA

9:30 AM A Protocol for Isolating and Enumerating *Thielaviopsis basicola* From Cotton Roots: Applications to LONREN Stunt

Alois A. Bell, USDA-ARS-Southern Plains Agricultural Research Center, College Station, TX

Technical: Thurs. - Fri.

TECHNICAL CONFERENCES PROGRAM

36TH ANNUAL COTTON ECONOMICS AND MARKETING CONFERENCE

Thursday, January 5, 2012

Thursday Morning

COTTON ECONOMIC OUTLOOK SYMPOSIUM

Canary 3 & 4 (Orlando World Center Marriott) - 10:30 AM-12:00 PM

Presiding: Alejandro Plastina

10:30 AM Welcoming Remarks

10:35 AM Cotton Marketer of the Year Award

10:45 AM Long-Term World Market Outlook

Terry P. Townsend, International Cotton Advisory Committee

11:05 AM Short-Term U.S. Market Outlook

Gary Adams, National Cotton Council

11:25 AM Price Risk Management for Cotton Producers

Antonio V. Esteve, President, International Cotton Association

11:45 AM Discussion

Thursday Afternoon

COTTON ECONOMICS & MARKETING - THURSDAY EARLY AFTERNOON

Canary 4 (Orlando World Center Marriott) - 1:30 PM-3:15 PM

1:30 PM World Cotton Prices Surge to Record Highs in 2011: Causes and Consequences

Stephen MacDonald, James E. Howard and Leslie Meyer, U.S. Department of Agriculture, Economic Research Service, Washington, DC

1:45 PM Pass-Through Update

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

2:00 PM Overview of Chinese and Indian Markets from an End-Use Perspective

Jon Devine¹, Kim Kitchings¹, Gary Adams² and Michelle Huffman², (1)Cotton Incorporated, Cary, NC, (2)National Cotton Council, Cordova, TN

2:15 PM Forecasting Cotton Demand in China and India

Gary Adams¹, Michelle Huffman¹, Jon Devine² and Kim Kitchings², (1)National Cotton Council, Cordova, TN, (2)Cotton Incorporated, Cary, NC

2:30 PM A Study of Indian Government Policy on Production and Processing of Cotton: Implications for US Cotton Exports

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

2:45 PM Appreciation of the Brazilian Real to the U.S. Dollar: Effects on International Cotton Markets and Trade

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

3:00 PM Exploring the Threats and Opportunities for Cotton in the Chinese Apparel Market

Justin R. Coates, Cotton Incorporated, Cary, NC

COTTON ECONOMICS POSTERS

Canary 4 (Orlando World Center Marriott) - 1:30 PM-5:30 PM

1:30 PM Economically Optimal Plant Population Density in Midsouth Soybean Production

Nathanael Thompson¹, James A. Larson¹, Roland K. Roberts¹, Alemu Mengistu² and Eric Walker³, (1)University of Tennessee, Knoxville, TN, (2)USDA-ARS Crop Genetics Research Unit, Jackson, TN, (3)University of Tennessee Martin, Martin, TN

1:30 PM Factors Influencing the Timing of Precision Farming Technology Adoption

Pattarawan Watcharaanantapong¹, Roland K. Roberts¹, Dayton M. Lambert¹, James A. Larson¹, Margarita Velandia¹, Burton C. English¹, Roderick M. Rejesus², Michele C. Marra², Ashok K. Mishra³ and Chenggang Wang⁴, (1)The University of Tennessee, Knoxville, TN, (2)North Carolina State University, Raleigh, NC, (3)Louisiana State University, Baton Rouge, LA, (4)Texas Tech University, Lubbock, TX

1:30 PM Factors Affecting Participation in Conservation Programs: The Case of Southeastern Cotton Farmers

Hiroki Uematsu and **Ashok K. Mishra**, Louisiana State University, Baton Rouge, LA

1:30 PM The Feasibility of Handling and Marketing Cotton in Short Ton Units

Jason D. Pace, Department of Agricultural Economics, College Station, TX and Dr. John Robinson, Texas A&M University, College Station, TX

1:30 PM Analysis of Changes in Crop Insurance Elections in South Texas

Lawrence L. Falconer, Texas AgriLife Extension Service, Corpus Christi, TX and Luis Ribera, Texas AgriLife Extension Service, Weslaco, TX

1:30 PM Panel Data Analysis of U.S. Cotton Yields

Archie Flanders, University of Arkansas, Keiser, AR

COTTON ECONOMICS & MARKETING - THURSDAY LATE AFTERNOON

Canary 4 (Orlando World Center Marriott) - 4:00 PM-5:30 PM

4:00 PM Adoption of Information Technologies in Cotton Production

Nathanael Thompson¹, James A. Larson¹, Burton C. English¹, Dayton M. Lambert¹, Roland K. Roberts¹, Margarita Velandia¹ and Chenggang Wang², (1)University of Tennessee, Knoxville, TN, (2) Texas Tech University, Lubbock, TX

4:15 PM The Impact of Adoption of Precision Farming Technologies on Cotton Yield in Texas

Shyam Nair¹, Chenggang Wang¹, Eduardo Segarra¹, Jeff Johnson¹, Roderick M. Rejesus² and Michele C. Marra², (1)Texas Tech University, Lubbock, TX, (2)North Carolina State University, Raleigh, NC

TECHNICAL CONFERENCES PROGRAM

36TH ANNUAL COTTON ECONOMICS AND MARKETING CONFERENCE

Thursday, January 5, 2012 and Friday, January 6, 2012

4:30 PM Economic Incentives and Weed Resistance Management

George Frisvold, University of Arizona, Tucson, AZ and Bob Nichols, Cotton Incorporated, Cary, NC

4:45 PM Comparison of Carbon Emission Assessment Using Extension Budgeted and Locally Obtained Producer Data

Sanja Zivkovic, Texas Tech University, Lubbock, TX and Darren Hudson, Cotton Economics Research Institute at Texas Tech University, Lubbock, TX

5:00 PM An Evaluation of Cotton Cost of Production in the Mid-South

Gregory Ibendahl, Mississippi State University, Mississippi State, MS

5:15 PM Estimating the Economic Optimal Rate of Nitrogen Fertilizer: A Battle of Functional Form

Leah M. Duzy and Kipling S. Balkcom, USDA-ARS, Auburn, AL

Friday Morning

COTTON ECONOMICS & MARKETING - FRIDAY EARLY MORNING

Canary 4 (Orlando World Center Marriott) - 8:00 AM-10:00 AM

8:00 AM Economic Analysis of Subsurface Drip Irrigation (SSDI) in Georgia Cotton Production

W. Don Shurley¹, Amanda Smith¹, Calvin D. Perry², Guy Collins¹ and Calvin D. Meeks³, (1)University of Georgia, Tifton, GA, (2)University of Georgia - Stripling Irrigation Research Park, Camilla, GA, (3)Crop and Soil Sciences Department, Tifton, GA

8:15 AM Economic Analysis of the Use of Cover Crops in Georgia Cotton Under Conventional and Strip-Tillage Production

Amanda R. Smith¹, W.D. Shurley², R. Scott Tubbs¹, Michael D. Toews¹, Glendon H. Harris¹ and R. Dewey Lee², (1)University of Georgia, Tifton, GA, (2)The University of Georgia, Tifton, GA

8:30 AM Comparing the Economics of Stripper and Picker Harvesting in West Texas

Conrad Lyford, Janani Thapa, Eric Hequet and Jeff Johnson, Texas Tech University, Lubbock, TX

8:45 AM Risk Management Issues for New Cotton Producers: A Texas Example

Jason L. Johnson, Texas AgriLife Extension Service, Stephenville, TX and Rob Hogan, Texas AgriLife Extension Service, Fort Stockton, TX

9:00 AM Cotton Profitability As Influenced by Rotation, Cultivar and Irrigation Level

William Keeling¹, Jeff Johnson¹, James P. Bordovsky² and J. W. Keeling¹, (1)Texas AgriLife Research, Lubbock, TX, (2)Texas AgriLife Research, Plainview, TX

9:15 AM Does Irrigation Pay During the Hottest and Driest Summer in Texas History? A Case Study of Irrigated Cotton Farms in the Southern High Plains

Jay Yates¹, Jackie Smith¹, J. Wayne Keeling², James P. Bordovsky² and Jeff Pate¹, (1)Texas AgriLife Extension Service, Lubbock, TX, (2)Texas Agrilife Research, Lubbock, TX

9:30 AM Conference Business Meeting

TECHNICAL CONFERENCES PROGRAM

61ST ANNUAL COTTON ENGINEERING-SYSTEMS CONFERENCE

Thursday, January 5, 2012

Thursday Afternoon

COTTON ENGINEERING-SYSTEMS - THURSDAY EARLY AFTERNOON

Crystal Ballrooms A & B (Orlando World Center Marriott) - 1:30 PM-3:15 PM

1:30 PM Quality of Life Impacts of Adopting Precision Agriculture Technology on Cotton Farmers

LaVona S. Traywick, University of Arkansas, Little Rock, AR and Terry Griffin, University of Arkansas Division of Agriculture, Little Rock, AR

1:45 PM Monitoring Cotton Root Rot Progression within Growing Seasons Using Remote Sensing

Chenghai Yang¹, Gary N. Odvody², Carlos J. Fernandez², Juan A. Landivar², Richard R. Minzenmayer³ and Robert L. Nichols⁴, (1)USDA-ARS, Weslaco, TX, (2)Texas AgriLife Research and Extension Center, Corpus Christi, TX, (3)Texas AgriLife Extension Service, Ballinger, TX, (4)Cotton Incorporated, Cary, NC

2:00 PM Ground-Based Technologies for Cotton Root Rot Control: An Update

Curtis D. Cribben¹, J. Alex Thomasson¹, Yufeng Ge², Matthew D. Korte¹, Cristine L.S. Morgan¹, Chenghai Yang³ and Robert L. Nichols⁴, (1)Texas A&M University, College Station, TX, (2)TAMU - BAEN Dept., College Station, TX, (3)USDA-ARS, Weslaco, TX, (4)Cotton Incorporated, Cary, NC

2:15 PM Effects of Field Geometry and Operator Influence on Double-Planted Areas in Crop Fields

Brandon M. Jernigan¹, Michael J. Buschermohle¹, William E. Hart², John B. Wilkerson² and M. Velandia³, (1)Biosystems Engineering and Soil Science, The University of Tennessee, Knoxville, TN, (2)University of Tennessee, Knoxville, TN, (3)Department of Agricultural and Resource Economics, The University of Tennessee, Knoxville, TN

2:30 PM GPS-Based Remote Sensing for Soil Moisture Measurements

Ahmad Khalilian, Clemson University, Blackville, SC and Charles V. Privette, Clemson University, Clemson, SC

2:45 PM On-Farm Evaluation of Wireless Soil Moisture Sensors for Irrigation Management

Neill Newton, N.C. State University, Raeford, NC

3:00 PM Irrigation Scheduling Options At a Whole Farm Level

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

COTTON ENGINEERING-SYSTEMS - THURSDAY LATE AFTERNOON

Crystal Ballrooms A & B (Orlando World Center Marriott) - 4:00 PM-5:30 PM

4:00 PM A Wireless Sensor Network System for Irrigation Application in Cotton

Ruixiu Sui, USDA-ARS Crop Production Systems Research Unit, Stoneville, MS, Daniel K. Fisher, USDA Agricultural Research Service, Stoneville, MS and Ed M. Barnes, Cotton Incorporated, Cary, NC

4:15 PM Water Use Efficiency of Different Cotton Cultivars

Ahmad Khalilian¹, Young Han², Edward M. Barnes³ and Will Henderson¹, (1)Clemson University, Blackville, SC, (2)Clemson University, Clemson, SC, (3)Cotton Incorporated, Cary, NC

4:30 PM Tracking Cotton Fiber Quality throughout a Stripper Harvester

Wesley M. Porter¹, John D. Wanjura², Randy Taylor¹, Randy K. Boman³, Michael D. Buser⁴ and Edward M. Barnes⁵, (1)Oklahoma State University, Stillwater, OK, (2)USDA-ARS Cotton Production and Processing Unit, Lubbock, TX, (3)Oklahoma State University Southwest REC, Altus, OK, (4)Oklahoma State University - Biosystems and Agricultural Engineering, Stillwater, OK, (5)Cotton Incorporated, Cary, NC

4:45 PM Spindle Speed Optimization for Pickers

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

5:00 PM Bioethanol Production From Cotton Gin Trash: A New Process Route

S.C. Capareda, Jersson Escobar and Tahmina Imam, Texas A&M University, College Station, TX

5:15 PM Crop Residue Inventory Estimates for Texas High Plains Cotton

J.D. Wanjura¹, William Brock Faulkner², Ed M. Barnes³, G.A. Holt⁴ and M.G. Pelletier⁴, (1)USDA ARS CPPRU, Lubbock, TX, (2)Texas A&M University, College Station, TX, (3)Cotton Incorporated, Cary, NC, (4) USDA-ARS, Lubbock, TX

TECHNICAL CONFERENCES PROGRAM

61ST ANNUAL COTTON ENGINEERING-SYSTEMS CONFERENCE

Friday, January 6, 2012

Friday Morning

COTTON ENGINEERING-SYSTEMS - FRIDAY EARLY MORNING

Crystal Ballrooms A & B (Orlando World Center Marriott) - 8:00 AM-10:00 AM

8:00 AM Effects of Trichomes of the Leaf and Bract on Trash Content and Quality of Ginned Lint

J. Clif Boykin, USDA-ARS Cotton Ginning Research Unit, Stoneville, MS, Fred Bourland, University of Arkansas, Keiser, AR and Darrin M. Dodds, Mississippi State University, Mississippi State, MS

8:15 AM Web-Based Tool for Cotton Lint Cleaner Modeling

Yufeng Ge¹, **J. Alex Thomasson**¹, Siddharth Kumar¹ and Edward M. Barnes², (1)TAMU - BAEN Dept., College Station, TX, (2)Cotton Incorporated, Cary, NC

8:30 AM Microwave Bale Moisture Imaging At Reduced Power Levels for FCC Compliance

M.G. Pelletier¹, G.A. Holt¹ and J. D. Wanjura², (1)USDA-ARS, Lubbock, TX, (2)USDA-ARS Cotton Production and Processing Research Unit, Lubbock, TX

8:45 AM Influence of Defoliation Date and Gin-Drying Temperature on Oven Moisture and KFT Water within Cotton Cultivars

Joe Montalvo¹, Terri M. Von Hoven¹ and Richard K. Byler², (1)USDA-ARS-SRRC, New Orleans, LA, (2)USDA-ARS Cotton Ginning Research Unit, Stoneville, MS

9:00 AM Optimization of a Cottonseed Dehulling Process to Yield Intact Seed Meats

William Brock Faulkner¹, Jacob Nunneley¹ and Greg Holt², (1)Texas A&M University, College Station, TX, (2)USDA-ARS, Lubbock, TX

9:15 AM Critical Analysis of Combustible Dust Testing Method by ASTM Standards for Gin Dusts

Balaji Ganesan, Texas A&M University, College Station, TX

9:30 AM Dust Cyclone Research in the 21st Century

Paul A. Funk, USDA-ARS-Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM and Kevin D. Baker, USDA, Agricultural Research Service, SW Cotton Ginning Research Lab, Mesilla Park, NM

9:45 AM Improved Cyclone Design for Gasification of Cotton Gin Trash to Optimize Char Removal From Synthesis Gas

Shane Saucier, Texas A&M University, College Station, TX

COTTON ENGINEERING-SYSTEMS - FRIDAY LATE MORNING

Crystal Ballrooms A & B (Orlando World Center Marriott) - 10:30 AM-11:00 AM

10:30 AM Life Cycle Energy Usage and Greenhouse Gas Emissions of Australian Cotton: Impact of Farming Systems

Borzoo Ghareei Khabbaz, Guangnan Chen and Craig Peter Baillie, National Centre for Engineering in Agriculture, Toowoomba, Australia

10:45 AM An Analysis of On-Farm Energy Use and Associated Greenhouse Gas Emissions of Australian Cotton

Borzoo Ghareei Khabbaz, Craig Peter Baillie and Guangnan Chen, National Centre for Engineering in Agriculture, Toowoomba, Australia

TECHNICAL CONFERENCES PROGRAM

28TH ANNUAL COTTON GINNING CONFERENCE

Thursday, January 5, 2012 and Friday, January 6, 2012

Thursday Afternoon

COTTON GINNING - THURSDAY EARLY AFTERNOON

Crystal Ballrooms D & E (Orlando World Center Marriott) - 1:30 PM-3:30 PM

Presiding: Kent Fountain

1:30 PM Ginner's Experience in the Ginning of Onboard Picker Built Modules

Wes Morgan, Rolling Hills Gin, New London, NC

1:50 PM Automated Cotton Bale Bagging System: Using Approved Bags with the Exception of Sonic Weld on Bottom Seam

David Duke, Signode Industry Packaging Systems, Matthews, NC

2:10 PM Strategies to Increase Bale Press Capacities

Ross D. Rutherford, Lummus Corporation, Lubbock, TX, Thomas D. Valco, USDA, ARS, Stoneville, MS and Harrison Ashley, National Cotton Council, Cordova, TN

2:30 PM Enhancing Cotton Flow with Mobile Apps

Kirk D. Andrews, Cotton Incorporated, Cary, NC

2:50 PM Gin Safety and Activities of the Texas Cotton Ginners' Trust

Tim Loonam, Texas Cotton Ginners' Trust, Austin, TX

3:10 PM Review of Samuel Strapping Systems Automated Cotton Bale Bagging System Using Approved Bags

Norman Penegar, Samuel Strapping Systems, Cartersville, GA

COTTON GINNING - THURSDAY LATE AFTERNOON

Crystal Ballrooms D & E (Orlando World Center Marriott) - 4:00 PM-6:00 PM

Presiding: Kent Fountain

4:00 PM Smart Phone App Aids Gin In Handling Modules

Joseph T. Wyrick, EWR, Inc., Memphis, TN

4:15 PM The Moisture Mirror X: More Ginning Data in More Places, Including Your Smart Phone

Mark Gentry, Samuel Jackson, Inc., Lubbock, TX

4:30 PM Comparison of Selected Bale Moisture Measurements in a Commercial Gin

R. K. Byler, USDA-ARS, Stoneville, MS

4:45 PM Cotton Gin Use of Facial Recognition Software

Dwayne Alford, Yuco Gin, Yuma, AZ

5:00 PM EAGL.SYS® Module Tracking Hardware & Software for the Gins

Steve Moffett, Lubbock Electric Co., Lubbock, TX

5:15 PM 2010 Cotton Ginning Cost Survey

Thomas D. Valco, USDA, ARS, Stoneville, MS, Harrison Ashley, National Cotton Council, Cordova, TN, J. Kelley Green, Texas Cotton Ginners' Association, Austin, TX, Dennis S. Findley, Southeastern Cotton Ginners Assn., Dawsonville, GA, Timothy L. Price, Southern Cotton Ginners Assoc, Memphis, TN, J. Matthew Fannin, Louisiana State University, Baton Rouge, LA and Roger A. Isom, California Cotton Ginners' Association, Fresno, CA

5:30 PM Performance of Cotton Module Covers: A Summary of Testing and Standardization Efforts

Stephen W. Searcy, Texas A&M University, College Station, TX

Friday Morning

COTTON GINNING - FRIDAY EARLY MORNING

Crystal Ballrooms D & E (Orlando World Center Marriott) - 8:00 AM-10:00 AM

Presiding: Lee Tiller

8:00 AM Quality of 2011 Cotton Crop

Robbie L. Seals, USDA,AMS Cotton and Tobacco Programs, Memphis, TN

8:15 AM Preliminary Evaluation of Fiber Quality in Seed Cotton Cleaner Material in a Commercial Gin

Richard K. Byler, USDA-ARS Cotton Ginning Research Unit, Stoneville, MS

8:30 AM Module Averaging - Still a Preferred System After 20 Years

Darryl W. Earnest, USDA, AMS, Cotton and Tobacco Programs, Memphis, TN

8:45 AM Ginning, Lint Cleaning, Fiber Length, and Waste

S.E. Hughs¹, C. B. Armijo¹ and J. A. Foulk², (1)USDA-ARS Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM, (2)USDA ARS CQRS, Clemson, SC

9:00 AM Recovering Tag Fiber From Cottonseed Using the Power Roll Gin Stand

Thomas C. Wedegaertner, Cotton Incorporated, Cary, NC, J. Weldon Laird, Lubbock, TX and Greg A. Holt, USDA-ARS Cotton Production and Processing Research Unit, Lubbock, TX

9:15 AM Multibar Sawless Lint Cleaner: Second Year of Field Testing

G.A. Holt¹, J.D. Wanjura², M.G. Pelletier¹, Joe W. Thomas³, Ed M. Barnes⁴ and Gary Gamble⁵, (1)USDA-ARS, Lubbock, TX, (2)USDA ARS CPPRU, Lubbock, TX, (3)Lummus Corporation, Savannah, GA, (4) Cotton Incorporated, Cary, NC, (5)USDA-ARS, Clemson, SC

9:30 AM Energy Monitoring in Gins- 2011

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

TECHNICAL CONFERENCES PROGRAM

28TH ANNUAL COTTON GINNING CONFERENCE

Friday, January 6, 2012

9:45 AM Characterization of Cotton Gin Particulate Matter Emissions – Final Year of Fieldwork

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

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

Crystal Ballrooms D & E (Orlando World Center Marriott) - 10:30 AM-12:00 PM

10:30 AM Observing the Motion of Seed Coat Fragments on a Saw-Type Lint Cleaner

Carlos B. Armijo¹, Derek 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

10:45 AM Comparison of High-Speed Roller and Saw Ginning on Texas High Plains Cotton

J.D. Wanjura¹, William Brock Faulkner², C. B. Armijo³, Randy K. Boman⁴, M.S. Kelley⁵, C.W. Ashbrook⁵, D. P. Whitelock³, G.A. Holt⁶ and M.G. Pelletier⁶, (1)USDA ARS CPPRU, Lubbock, TX, (2)Texas A&M University, College Station, TX, (3)USDA-ARS Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM, (4)Oklahoma State University Southwest REC, Altus, OK, (5)Texas AgriLife Extension Service, Lubbock, TX, (6)USDA-ARS, Lubbock, TX

11:00 AM A Non-Invasive Cotton Moisture Measurement for Gin Ducts and Its Impact on Cotton Fiber Quality and Gin Performance

Andrew Krajewski and Stuart Gordon, CSIRO Materials Science and Engineering, Belmont VIC, Australia

11:15 AM Modification of Working Elements in the Fixed Batt Saw Lint Cleaner to Improve Fiber Quality and Trash Removal

Stuart Gordon, Kevin Bagshaw and Frederick Horne, CSIRO Materials Science and Engineering, Belmont VIC, Australia

11:30 AM Effect of Harvesting Methods and Cotton Fiber Maturity on Yarn Quality

Eric F. Hequet¹, Nouredine Abidi¹, Randy Boman² and John D. Wanjura³, (1)Fiber and Biopolymer Research Institute - Dept. Plant & Soil Science, Texas Tech University, Lubbock, TX, (2)Oklahoma State University Southwest REC, Altus, OK, (3)USDA-ARS Cotton Production and Processing Unit, Lubbock, TX

11:45 AM "Control Algorithm" to Optimize Seed Cotton Drying in a Cotton Gin

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

11:58 AM Student Paper Presentation Awards

W. B. Faulkner, Texas A&M University, College Station, TX

Technical: Thurs. - Fri.

TECHNICAL CONFERENCES PROGRAM

64TH ANNUAL COTTON IMPROVEMENT CONFERENCE

Thursday, January 5, 2012

Thursday Morning

COTTON IMPROVEMENT - THURSDAY MORNING

Crystal Ballroom C (Orlando World Center Marriott) - 10:30 AM-12:00 PM

10:30 AM Identification of Molecular Markers Associated with a Gene Susceptible to the Herbicide Envoke® in Cotton

David Fang¹, J. C. McCarty², Ping Li¹ and J. N. Jenkins², (1)USDA-ARS-SRRC, New Orleans, LA, (2)USDA/ARS Crop Science Research Laboratory, Mississippi State, MS

10:45 AM Mapping and DNA Sequence Analysis of BACs From Chromosomes 11 and 21 Targeting Nematode and Other Pathogen Resistance Genes

Congli Wang¹, Mauricio Ulloa², Christopher Saski³ and **Philip A. Roberts¹**, (1)University of California Riverside, Riverside, CA, (2)USDA-ARS, WICSRU, Shafter, CA, (3)Clemson University, Clemson, SC

11:00 AM Marker Assisted Selection for Nematode Resistance - Progress

Ted P. Wallace¹, Peggy M. Thaxton², Jim Nichols², Brian E. Scheffler³ and Jodi A. Scheffler⁴, (1)Mississippi State University, Mississippi State, MS, (2)Mississippi State University, Stoneville, MS, (3)USDA-ARS Genomics and Bioinformatics Research Unit, Stoneville, MS, (4)USDA-ARS Crop Genetics Research Unit, Stoneville, MS

11:15 AM Performance Evaluation of LONREN and BARBREN Reniform Nematode Resistant Germplasm Lines

Roelof B. Sikkens¹, Alois A. Bell², Terry A. Wheeler³, C. Overstreet⁴, David B. Weaver¹, K. S. Lawrence¹ and R. L. Nichols⁵, (1)Auburn University, Auburn University, AL, (2)USDA-ARS-SPARC, College Station, TX, (3)Texas Agrilife Research, Lubbock, TX, (4)LSU AgCenter, Baton Rouge, LA, (5)Cotton Incorporated, Cary, NC

11:30 AM Pest Resistance and Agronomic Performance of Upland Cotton Lines Following Eight Generations of Introgression of the BNL3279_105 DNA Marker From *Gossypium barbadense* GB713

Alois A. Bell, USDA-ARS-Southern Plains Agricultural Research Center, College Station, TX

11:45 AM Inheritance and Variability of Tolerance to Verticillium Dahliae Kleb Among Geographically Remote F1-F2 Hybrids of *Gossypium Hirsutum* L

V. A. Avtonomov¹, **Robert D. Stipanovic²**, A. A. Bell², O. H. Kimsanbaev¹, Shadman Namazov³, U. K. Qayumov¹, Sh. B. Amanturdiyev¹ and G. X. Aziziva¹, (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)The Uzbek Scientific Research Institute of Cotton Breeding and Seed Production, Tashkent, Uzbekistan

Thursday Afternoon

COTTON IMPROVEMENT - THURSDAY EARLY AFTERNOON

Crystal Ballroom C (Orlando World Center Marriott) - 1:30 PM-3:15 PM

1:30 PM Diallel Analysis of Three Confirmed Extra Long Staple Upland (ELSU) Cotton (*Gossypium hirsutum*) Germplasm Lines

Benjamin Beyer¹, C. Wayne Smith² and Steve Hague¹, (1)Texas A&M University, College Station, TX, (2)Texas A&M, College Station, TX

1:45 PM Variable Effect of a Fiber Length QTL Deployed within Several Regionally Adapted Cultivars

Nino Brown¹, Pawan Kumar¹, Edward L. Lubbers¹, Todd Campbell², Don Jones³, Gerald O. Myers⁴, Jay Subramani⁵, **Robert J. Wright⁶**, Andrew H. Paterson¹ and Peng W. Chee¹, (1)University of Georgia, Tifton, GA, (2)USDA-ARS, Florence, SC, (3)Cotton Incorporated, Cary, NC, (4)LSU AgCenter, Baton Rouge, LA, (5)University of Arizona, Maricopa, AZ, (6)Texas Tech University and Texas AgriLife Research Center, Texas A & M System, Lubbock, TX

2:00 PM Generation Means 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

2:15 PM Breeding of Upland Cotton Varieties with Improved Fiber Elongation

Eng Hwa Ng¹, C. Wayne Smith¹, 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

2:30 PM Improvement of Cotton (*Gossypium hirsutum*) Fiber Spinning Quality Through Selection and Inheritance of Fiber Elongation

Juliana Osorio-Marin, Texas A&M University, Lubbock, TX and Jane K. Dever, Texas AgriLife Research, Lubbock, TX

2:45 PM Degree of Fiber Whiteness in World Upland Cultivars

Kendra Gregory¹, C. Wayne Smith¹, Eric F. Hequet², Benjamin Beyer¹ and Richard Percy³, (1)Texas A&M University, College Station, TX, (2) Fiber and Biopolymer Research Institute - Dept. Plant & Soil Science, Texas Tech University, Lubbock, TX, (3)USDA-ARS, College Station, TX

3:00 PM Boll Maturation Time in Extra Long Staple Upland Cotton

Benjamin Tyler Meritt¹, Camilo de Lelis Morello², K Gregory¹, W Smith¹ and S Hague¹, (1)Texas A&M, College Station, TX, (2)Embrapa, Goiânia, Brazil

TECHNICAL CONFERENCES PROGRAM

64TH ANNUAL COTTON IMPROVEMENT CONFERENCE

Thursday, January 5, 2012 and Friday, January 6, 2012

COTTON IMPROVEMENT - THURSDAY LATE AFTERNOON

Crystal Ballroom C (Orlando World Center Marriott) - 4:00 PM-6:00 PM

4:00 PM Introgression of the Ultra-Low Gossypol Seed Trait Into Elite Cotton Germplasm

Rosa N. Jauregui, Steve Hague and Keerti Rathore, Texas A&M University, College Station, TX

4:15 PM RNA Editing in Mitochondrial Genes and the Association with Cytoplasmic Male Sterility in Cotton
Hideaki Suzuki¹, Jiwen Yu², Jinfa Zhang¹ and James McD Stewart³, (1)New Mexico State University, Las Cruces, NM, (2)Cotton Research Institute, CAAS, Key Laboratory of Cotton Genetic Improvement, Ministry of Agriculture, P R China, Anyang, China, (3)University of Arkansas, Fayetteville, AR

4:30 PM Changes in Gene Expression During Reniform Nematode Infestation of Cotton Seedlings As Determined by Deep Sequencing of cDNA Libraries

Ruijuan Li¹, Shankar Pant¹, Hongtao Hu¹, Roelof B. Sikkens¹, David Weaver², Nardendra K. Singh¹ and Robert Locy¹, (1)Auburn University, Auburn, AL, (2)Auburn University, Auburn University, AL

4:45 PM Genetic Mapping of Quantitative Trait Loci Against Verticillium Dahliae in Cotton

Hui Fang¹, Huping Zhou¹, S. Sanogo², Michael Gore³, Robert P. Flynn⁴, Richard G. Percy⁵, David Fang⁶ and Jinfa Zhang¹, (1) New Mexico State University, Las Cruces, NM, (2)Department of Entomology, Plant Pathology and Weed Science, New Mexico State University, Las Cruces, NM, (3)USDA-ARS, Maricopa, AZ, (4) New Mexico State University, Artesia, NM, (5)USDA-ARS, Southern Plains Agricultural Research Center, Crop Germplasm Research Unit, College Station, TX, (6)USDA-ARS-SRRC, New Orleans, LA

5:00 PM Identification of Heat Tolerance in Cotton Using Chlorophyll Fluorescence

Tingting Wu and David .B. Weaver, Auburn University, Auburn University, AL

5:15 PM Screening and Identification of Cotton Germplasm and Molecular Markers for Salt Tolerance

Rashmi S. Tiwari¹, Michael D. Gill², S. Bajaj³, Don C. Jones⁴, James Mac Stewart⁵, S. E. Hughes⁶ 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)Southwest Cotton Ginning Lab, USDA-ARS, Mesilla Park, NM

5:30 PM Parental Selection for Initiation of Segregation Analysis and Improvement of Mutation-Based Herbicide Resistance in Cotton (*Gossypium hirsutum* L.)

G.S. Cutts, Texas A&M University, College Station, TX, Jane K. Dever, Texas AgriLife Research, Lubbock, TX and Dick Auld, Texas Tech University, Lubbock, TX

Friday Morning

COTTON IMPROVEMENT - FRIDAY EARLY MORNING

Crystal Ballroom C (Orlando World Center Marriott) - 8:00 AM-10:00 AM

8:00 AM Nondestructive Determination of Protein and Oil Contents in Cottonseed Using Least-Squares Support Vector Machines and near Infrared Spectroscopy

Shuijin Zhu and Zhuang-Rong Haung, Zhejiang University, Hangzhou, China

8:15 AM Genetic Diversity in the U.S. Cotton Germplasm Collection As Revealed by SSR Markers

Richard Percy¹, David Fang², Brian Scheffler³, John Z. Yu⁴, Lori Hinze⁴, James Frelichowski¹ and Michael Gore⁵, (1)USDA-ARS, SPA, College Station, TX, (2)USDA-ARS-SRRC, New Orleans, LA, (3)USDA-ARS, Stoneville, MS, (4)USDA-ARS, College Station, TX, (5)USDA-ARS, Maricopa, AZ

8:30 AM Genetic Diversity Analysis in U.S. Upland Cotton Cultivars Using SSR Markers

Priyanka Tyagi¹, Vasu Kuraparthi¹, Michael Gore² and Daryl Bowman¹, (1)NC State University, Raleigh, NC, (2)USDA-ARS, Maricopa, AZ

8:45 AM Can Cotton Hybrid Performance Be Predicted by Marker-Based Genetic Distance?

Linghe Zeng, USDA-ARS, Stoneville, MS

9:00 AM The Integration of High-Throughput Phenotyping and Genotyping-by-Sequencing to Genetically Dissect the Physiological Responses of Cotton to a Hot, Arid Environment

Michael Gore¹, Pedro Andrade-Sanchez², David D. Fang³, Andrew French¹, Doug Hunsaker¹, Jesse Poland⁴, Jeffrey White¹ and Arizona Phenomics Consortium¹, (1)USDA-ARS, Maricopa, AZ, (2)University of Arizona Maricopa Ag Center, Maricopa, AZ, (3)USDA-ARS, New Orleans, LA, (4)USDA-ARS, Manhattan, KS

9:15 AM CottonGen: Development of An Integrated Genomics, Genetics and Breeding Database for the Cotton Research Community

Jing Yu¹, Sook Jung¹, Chun-Huai Cheng¹, Stephen Ficklin¹, Taein Lee¹, Ping Zheng¹, Don Jones², Richard Percy³ and Dorrie Main¹, (1) Washington State University, Pullman, WA, (2)Cotton Incorporated, Cary, NC, (3)USDA-ARS, SPA, College Station, TX

9:30 AM Collaborative Development of SNPs for Cotton Research, Introgression, MAS and Breeding

Fei Wang¹, Amanda M. Hulse¹, Kevin Hoegenauer¹, **David M. Stelly**¹, Hamid Ashrafi², Allen Van Deynze² and John Z. Yu³, (1)Texas A&M University, College Station, TX, (2)University of California-Davis, Davis, CA, (3)USDA-ARS, College Station, TX

9:45 AM Business Meeting

TECHNICAL CONFERENCES PROGRAM

64TH ANNUAL COTTON IMPROVEMENT CONFERENCE

Friday, January 6, 2012

COTTON IMPROVEMENT - FRIDAY LATE MORNING

Crystal Ballroom C (Orlando World Center Marriott) - 10:30 AM-12:00 PM

10:30 AM Impact of Trash Content on Fiber Quality Measurements and Yarn Quality

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

10:45 AM Identification of An EST-SSR Marker with Complete Linkage to the Ligon Lintless-2 Genetic Locus in Cotton (*Gossypium hirsutum* L.)

Doug J. Hinchliffe¹, Rickie B. Turley², Marina Naoumkina¹, Hee Jin Kim¹, Yuhong Tang³, Kathleen M. Yeater⁴, Ping Li¹ and David Fang¹, (1)USDA-ARS-SRRC, New Orleans, LA, (2)Stoneville, MS, (3)The Samuel Roberts Noble Foundation, Ardmore, OK, (4)USDA-ARS-SPA, Williamsburg, VA

11:00 AM Metabolite and Gene Expression Analysis of Two near-Isogenic Lines of Ligon Lintless-2 (*Li*₂) Cotton (*Gossypium hirsutum* L.)

Marina Naoumkina¹, Doug J. Hinchliffe², Rickie B. Turley³, John Bland⁴ and David D. Fang¹, (1)USDA-ARS-SRRC, Cotton Fiber Bioscience Research Unit, New Orleans, LA, (2)USDA-ARS-SRRC, Cotton Chemistry & Utilization Research Unit, New Orleans, LA, (3)USDA-ARS, Mid South Area, Crop Genetics Research Unit, Stoneville, MS, (4)USDA-ARS-SRRC, Formosan Subterranean Termites Research Unit, New Orleans, LA

11:15 AM Effects of Exogenous Auxin on the Transition From Fiber Elongation to Cellulose Biosynthesis Stages During Cotton Fiber Development

Hee Jin Kim, Barbara A. Triplett and David D. Fang, USDA-ARS, Southern Regional Research Center, New Orleans, LA

11:30 AM Characterization of Cellulose in Developing Cotton Fibers

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

11:45 AM Award Presentations

Friday Afternoon

COTTON IMPROVEMENT - FRIDAY EARLY AFTERNOON

Crystal Ballroom C (Orlando World Center Marriott) - 1:30 PM-2:30 PM

1:30 PM Utilization of Pee Dee Germplasm in Upland Cotton Breeding Programs

B. T. Campbell¹, David B. Weaver², Rachel R. Sharpe² and J. Wu³, (1)USDA-ARS, Florence, SC, (2)Auburn University, Auburn University, AL, (3)South Dakota State University, Brookings, SD

1:45 PM Exotic Germplasm Introgression Effects On Yield and Fiber Properties of Upland Cotton

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

2:00 PM Estimation of Genetic Parameters for Quantitative and Qualitative Traits in Cotton Cultivars (*Gossypium hirsutum* L. & *Gossypium barbadense* L.)

Gholamhossein Hosseini, Cotton Research Institute of Iran, Varamin-Tehran, Iran and Ratnakar.J Thengane, University of Pune, Pune, India

2:15 PM Estimate of Genotypic Variance and Covariance Components In Some Egyptian Cotton Genotypes

Hassan hussien Mohamed El-Adly and Anwar Eissa Mohamed, Cotton Research Institute, Giza, Egypt

TECHNICAL CONFERENCES PROGRAM

65TH ANNUAL COTTON INSECT RESEARCH AND CONTROL CONFERENCE

Thursday, January 5, 2012

Thursday Morning

COTTON INSECT RESEARCH AND CONTROL ROUNDTABLE

Crystal Ballrooms N-P (Orlando World Center Marriott) - 8:00 AM-10:00 AM

Official: Gus Lorenz

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 with regard to arthropod management. All are welcome and are encouraged to participate in this roundtable discussion.

Thursday Afternoon

COTTON INSECT RESEARCH AND CONTROL - THURSDAY EARLY AFTERNOON - STUDENT PAPER COMPETITION

Crystal Ballrooms N-P (Orlando World Center Marriott) - 1:30 PM-3:15 PM

Presiding: Michael D. Toews

1:30 PM Residual Toxicity of Selected Insecticides to Stink Bugs

Wes McPherson¹, A. L. Catchot², F. R. 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

1:45 PM Evaluation of Cultural IPM Practices for Controlling Tarnished Plant Bugs in Cotton

Brian P. Adams¹, J. Gore², A. L. Catchot¹, D. R. Cook², Fred Musser¹ and Darrin M. Dodds¹, (1)Mississippi State University, Mississippi State, MS, (2)Mississippi State University, Stoneville, MS

2:00 PM Treatment Thresholds for Bollworm [*Helicoverpa zea*] in Second-Generation Bt Cotton

Kristen M. Carter¹, Jeremy K. Greene², Francis P. F. Reay-Jones³, Ginger N. Deviney¹ and Dan Robinson², (1)Clemson University, Clemson, SC, (2)Clemson University, Blackville, SC, (3)Clemson University, Florence, SC

2:15 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. Deviney¹, Jeremy K. Greene², John D. Mueller², Francis P. F. Reay-Jones³, Kristen M. Carter¹, Will Henderson² and Dan Robinson², (1)Clemson University, Clemson, SC, (2)Clemson University, Blackville, SC, (3)Clemson University, Florence, SC

2:30 PM Two-Spotted Spider Mite Dispersal in Cotton

W.S. Scott¹, A. L. Catchot¹, Jeff Gore², Fred Musser¹ and Don Cook¹, (1)Mississippi State University, Mississippi State, MS, (2)Mississippi State University, DREC, Stoneville, MS

2:45 PM A Novel Pesticide Use Strategy to Manage Phytophagous Stink Bugs in Southeastern Cotton

Ishakh Pulakkatu Thodi, UGA Entomology, Tifton, GA, Jeremy K. Greene, Clemson University, Blackville, SC, Francis P. F. Reay-Jones, Clemson University, Florence, SC, D. Reising, North Carolina State University, Raleigh, NC and Michael Toews, University of Georgia, Tifton, GA

3:00 PM Susceptibility of Cotton Bollworm, *Helicoverpa zea*, Collected From Genuity VT3 PRO Field Corn on Dual-Gene Transgenic Cotton

Ben Von Kanel, Angus Catchot, Jeff Gore and Fred Musser, Mississippi State University, Mississippi State, MS

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

Crystal Ballroom M (Orlando World Center Marriott) - 1:30 PM-3:30 PM

Officials: John Adamczyk

Gus M. Lorenz

Presiding: Patricia F. O'Leary

1:30 PM Welcoming Remarks

1:32 PM Cotton Insect Losses - 2011

Michael Williams, Mississippi State University, Abbeville, MS

1:45 PM Incorporation of Transform Into a Management Program for Tarnished Plant Bug, *Lygus lineolaris*, in the Mid-Southern U.S.

Melissa W. Siebert¹, L.C. Walton², R.A. Haygood³, R.B. Lassiter⁴, D.T. Ellis¹ and J.D. Thomas⁵, (1)Dow AgroSciences LLC, Greenville, MS, (2)Dow AgroSciences, Tupelo, MS, (3)Dow AgroSciences LLC, Collierville, TN, (4)Dow AgroSciences LLC, Little Rock, AR, (5)Dow AgroSciences LLC, Indianapolis, IN

2:00 PM Aerial Application for Plant Bug (*Lygus lineolaris*) Control in Cotton with Transform™ WG (Sulfoxaflor) Insecticide

L.C. Walton, Dow AgroSciences LLC, Tupelo, MS, R.A. Haygood, Dow AgroSciences LLC, Collierville, TN, Melissa W. Siebert, Dow AgroSciences LLC, Greenville, MS, J.D. Thomas, Dow AgroSciences LLC, Indianapolis, IN, A. L. Catchot, Mississippi State University, Mississippi State, MS and Tucker Miller, Miller Entomological Service, Drew, MS

2:15 PM Transform™ Field Performance on *Lygus hesperus* in Western Cotton

J.M. Richardson¹, B.A. Castro¹, J.A. Lee¹, J.D. Thomas¹, P.C. Ellsworth², L.D. Godfrey³, D.L. Kerns⁴ and S. D. Wright⁵, (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, (5)University of California, Tulare, CA

TECHNICAL CONFERENCES PROGRAM

65TH ANNUAL COTTON INSECT RESEARCH AND CONTROL CONFERENCE

Thursday, January 5, 2012

2:30 PM An Overview of Transform™ Field Performance Against Cotton Aphids, *Aphis gossypii* Glover, Across Cotton Areas of the United States

Boris A. Castro¹, J.M. Richardson², Melissa W. Siebert³, **L.C. Walton⁴**, Jackie Lee⁵ and J.D. Thomas², (1)Dow AgroSciences, LLC, Fresno, CA, (2)Dow AgroSciences LLC, Indianapolis, IN, (3)Dow AgroSciences LLC, Greenville, MS, (4)Dow AgroSciences, Tupelo, MS, (5)Dow AgroSciences, LLC, Indianapolis, IN

2:45 PM Insect Control with Transform in Mississippi

Andrew Adams¹, J. Gore², D. R. Cook² and A. L. Catchot¹, (1) Mississippi State University, Mississippi State, MS, (2)Mississippi State University, Stoneville, MS

3:00 PM Sulfoxaflor for Management of Cotton Pests in Australia

Robert A. Annetts, Dow Agrosciences, Frenches Forest, Australia and J.D. Thomas, Dow AgroSciences LLC, Indianapolis, IN

3:15 PM Development of Sulfoxaflor for Management of Cotton Pests in Asia

Xinpei Huang, Dow AgroSciences, Shanghai, China, Michael Lysandrou, Dow AgroSciences, Lavrion, Greece, Lakshmi pathi Srigiriraju, Dow AgroSciences, Hyderabad, India and James D. Thomas, Dow AgroSciences LLC, Indianapolis, IN

COTTON INSECT RESEARCH AND CONTROL - THURSDAY LATE AFTERNOON - STUDENT PAPER COMPETITION CONTINUES AND SESSION B

Crystal Ballrooms N-P (Orlando World Center Marriott) - 4:00 PM-5:30 PM

Presiding: Michael R. Williams

4:00 PM Timing of Cotton Fleahopper Herbivory and Cotton Compensatory Response

Loriann C. Garcia and Micky D. Eubanks, Texas A&M University, College Station, TX

4:15 PM The Effects of Pulsed Water Stress on Cotton-Pest Interactions

Warren B. Sconiers¹, Diane L. Rowland² and Micky D. Eubanks¹, (1) Texas A&M University, College Station, TX, (2)University of Florida, Gainesville, FL

4:30 PM Leaf Orientation and Biomechanical Properties Do Not Explain Thrips Preference for Feeding on the Undersides of Leaves

Lauren Kalns¹, Justin G. Fiene², Julio S. Bernal³, Christian Nansen⁴ and Gregory A. Sword², (1)Department of Entomology, College Station, TX, (2)Department of Entomology, Texas A&M University, College Station, TX, (3)Texas A&M University, College Station, TX, (4) Texas AgriLife Research, Lubbock, TX

4:45 PM RNAi Control of Tobacco Thrips and Illumina Transcriptomics

R. Michael Roe, **Sally Taylor**, Jaap B. van Kretschmar, A. Dhammi, George G. Kennedy, Clyde E. Sorenson, Jack Bacheler and Sayed M. Khalil, North Carolina State University, Raleigh, NC

5:00 PM Illumina® Sequencing of Green Stink Bug Nymph and Adult cDNA to Identify Potential RNAi Gene Targets

J. B. Van Kretschmar, K. V. Donohue, A. R. Cabrera, L. C. Magalhaes, J. S. Bacheler, C. E. Sorenson, S. M. S. Khalil and R. M. Roe, North Carolina State University, Raleigh, NC

5:15 PM Prevalence of the Small RNA Virus Strain LyLV-1 in Natural Populations of *Lygus lineolaris* in the Mississippi Delta

O. P. Perera¹, Gordon Snodgrass¹ and Patricia F. O'Leary², (1)USDA, Stoneville, MS, (2)Cotton Incorporated, Cary, NC

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

Crystal Ballroom M (Orlando World Center Marriott) - 4:00 PM-6:30 PM

Presiding: Glenn E. Studebaker

4:00 PM Evaluation of Cyazypyr™, a Novel Cross-Spectrum Anthranilic Diamide Insecticide, for Control of Thrips (Thysanoptera: Thripidae) in Cotton; And Observations on Thrips Population Dynamics

J.A. Samler¹, Ames Herbert¹, Sean Malone¹, David Owens¹, Thomas Kuhar², Juan M. Alvarez³ and C. Brewster², (1)Virginia Tech, Suffolk, VA, (2)Virginia Tech, Blacksburg, VA, (3)DuPont Crop Protection, Stine-Haskell Research Center, Newark, DE

4:15 PM Admire Pro In-Furrow At Planting in Cotton

Ralph D. Bagwell, Bayer CropScience, Rtp, NC

4:30 PM Prevathon® and Benevia™ for Control of Key Pests in Southern Cotton Production

Michael T. Edwards¹, Richard M. Edmund², J. Dan Smith³, Glenn G. Hammes⁴, Daniel W. Sherrod⁵ and Charles S. Baer⁵, (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

4:45 PM Athena™: Field Performance Against Twospotted Spider Mite and Tarnished Plant Bug in Mid-South Cotton

Henry R. Mitchell, FMC Corporation, Louisville, MS and J. Don Johnson, FMC Corporation, Madison, MS

5:00 PM Sublethal Impacts of Diamond on Tarnished Plant Bug

Fred Musser¹, Kathy Knighten¹ and Jeff Gore², (1)Mississippi State University, Mississippi State, MS, (2)Mississippi State University DREC, Stoneville, MS

TECHNICAL CONFERENCES PROGRAM

65TH ANNUAL COTTON INSECT RESEARCH AND CONTROL CONFERENCE

Thursday, January 5, 2011 and Friday, January 6, 2012

5:15 PM Evaluation of Automatic Applications of Foliar Insecticides for Thrips Across the Upland Cotton Belt

D. S. Akin¹, Gus Lorenz², G.E. Stuebaker³, Michael Toews⁴, D. R. Cook⁵, Jeff Gore⁶, Angus Catchot⁷, Scott Stewart⁸, B. R. Leonard⁹, Ames Herbert¹⁰, Ryan Jackson¹¹, Jeremy K. Greene¹², D.L. Kerns¹³, J.S. Bacheler¹⁴, Dominic D. Reising¹⁵, Phillip Roberts⁴, S. Micinski¹⁶, K. V. Tindall¹⁷ and J. Eric Howard¹⁸, (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)University of Georgia, Tifton, GA, (5)Mississippi State University, Stoneville, MS, (6)Mississippi State University, DREC, Stoneville, MS, (7)Mississippi State University, Mississippi State, MS, (8)The University of Tennessee, Jackson, TN, (9)LSU AgCenter, Winnsboro, LA, (10)Virginia Tech, Suffolk, VA, (11)USDA-ARS, SIMRU, Stoneville, MS, (12)Clemson University, Blackville, SC, (13)Texas AgriLife Extension Service, Lubbock, TX, (14)North Carolina State University, Raleigh, NC, (15)North Carolina State University, Vernon James Research and Extension Center, Plymouth, NC, (16)LSU AgCenter, Bossier City, LA, (17)Univ. of Missouri, Portageville, MO, (18)University of Arkansas, Southeast Research and Extension Center, Monticello, AR

5:30 PM Business Meeting

Friday Morning

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

Crystal Ballroom M (Orlando World Center Marriott) - 8:00 AM-10:15 AM

Presiding: Timothy J. Dennehy

8:00 AM Management of Insect Pests in the Mississippi Delta

A. L. Catchot¹, Jeff Gore², D. R. Cook³, R. E. Jackson⁴ and Fred Musser¹, (1)Mississippi State University, Mississippi State, MS, (2)Mississippi State University, DREC, Stoneville, MS, (3)Mississippi State University, Stoneville, MS, (4)USDA-ARS, SIMRU, Stoneville, MS

8:15 AM Overview of Spider Mite Research in the Mid-South

Jeff Gore¹, D. R. Cook², Angus Catchot³, F. R. Musser³, S. D. Stewart⁴, B. R. Leonard⁵, G. Lorenz⁶, G. Stuebaker⁷, D. S. Akin⁸ and R. E. Jackson⁹, (1)Mississippi State University, DREC, Stoneville, MS, (2)Mississippi State University, Stoneville, MS, (3)Mississippi State University, Mississippi State, MS, (4)Jackson, TN, (5)LSU AgCenter, Winnsboro, LA, (6)University of Arkansas Cooperative Extension Service, Lonoke, AR, (7)Univ. of Ark.- NEREC, Keiser, AR, (8)University of Arkansas, Monticello, AR, (9)USDA-ARS, SIMRU, Stoneville, MS

8:30 AM Impact of Foliar Insecticide Applications on Dual Gene Cotton

G. Lorenz, University of Arkansas Cooperative Extension Service, Lonoke, AR, A. L. Catchot, Mississippi State University, Mississippi State, MS and S. D. Stewart, Jackson, TN

8:45 AM Impact of Spray Adjuvants on Insecticide Performance

D. R. Cook¹, J. Gore¹, S. D. Stewart², G. Lorenz³, A. L. Catchot⁴, B. R. Leonard⁵, D. S. Akin⁶, G. Stuebaker⁷ and F. R. Musser⁴, (1)Mississippi State University, Stoneville, MS, (2)Jackson, TN, (3)University of Arkansas Cooperative Extension Service, Lonoke, AR, (4)Mississippi State University, Mississippi State, MS, (5)LSU AgCenter, Macon Ridge Research Station, Winnsboro, LA, (6)University of Arkansas, Monticello, AR, (7)Univ. of Ark.- NEREC, Keiser, AR

9:00 AM Comparative Performance of TwinLink® and Bollgard II® on the Control of Caterpillar Pests Across Multiple Locations in the Cotton Belt

Scott Stewart, The University of Tennessee, Jackson, TN, Gus Lorenz, University of Arkansas Cooperative Extension Service, Lonoke, AR, Angus Catchot, Mississippi State University, Mississippi State, MS, Jeremy K. Greene, Clemson University, Blackville, SC, B. Rogers Leonard, LSU AgCenter, Macon Ridge Station, Winnsboro, LA, Jeff Gore, Mississippi State University, DREC, Stoneville, MS, Scott Baker, Bayer CropScience, Memphis, TN, Mark Rinehardt, Bayer CropScience, Wilson, NC and Walt Mullins, Bayer CropScience, Collierville, TN

9:15 AM Comparative Benefit of Bt and Non-Bt Cotton Under Different Insect Management Strategies

R. E. Jackson¹, K. C. Allen¹ and Randall G. Luttrell², (1)USDA-ARS, SIMRU, Stoneville, MS, (2)USDA ARS Southern Insect Management Research Unit, Stoneville, MS

9:30 AM Insecticide Treated and Untreated Bt and Conventional Cottons Under High Insect Pressure in Large Field Cages

Randall G. Luttrell, Ryan E. Jackson and Kerry Clint Allen, USDA ARS Southern Insect Management Research Unit, Stoneville, MS

9:45 AM Economic Returns of Bt and Non-Bt Cotton Under Different Insect Management Strategies

K. C. Allen¹, R. E. Jackson¹ and Randall G. Luttrell², (1)USDA-ARS, SIMRU, Stoneville, MS, (2)USDA ARS Southern Insect Management Research Unit, Stoneville, MS

10:00 AM 2011-Season Update on Monitoring of Resistance to Bt Cotton in Key Lepidopteran Pests in the US

Douglas V. Sumerford, G. P. Head, W. J. Moar, P. P. Price, W. Akbar, N. Adams, J. T. Greenplate and M. Carroll, Monsanto, St Louis, MO

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

Crystal Ballrooms N-P (Orlando World Center Marriott) - 8:15 AM-10:00 AM

Presiding: Eric Blinka

8:15 AM Poncho Votivo: 2011 Field Performance

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

8:30 AM Occurrence and Impact of Kurtomathrips Morrilli: A New Pest of Cotton on the Texas High Plains

David L. Kerns¹, Manda Anderson², Brant Baugh¹ and Dustin Patman³, (1)Texas AgriLife Extension Service, Lubbock, TX, (2)Texas AgriLife Extension Service, Seminole, TX, (3)Texas AgriLife Extension Service, Crosbyton, TX

TECHNICAL CONFERENCES PROGRAM

65TH ANNUAL COTTON INSECT RESEARCH AND CONTROL CONFERENCE

Friday, January 6, 2012

8:45 AM Endophytic Colonization of Cotton by Fungal Entomopathogens for Effective Pest Management

Gregory A. Sword¹, Maria Julissa Ek Ramos¹, Wenqing Zhou¹, Cesar Valencia¹, Gaylon Morgan² and David L. Kerns³, (1)Department of Entomology, Texas A&M University, College Station, TX, (2)Texas AgriLife Extension, College Station, TX, (3)Texas AgriLife Extension Service, Lubbock, TX

9:00 AM Potential for Southern Green Stink Bug Nymphs to Acquire An Opportunistic Cotton Pathogen

Enrique Gino Medrano, USDA-ARS-SPARC, College Station, TX and Jesus Esquivel, USDA- ARS Areawide Pest Management Research Unit, College Station, TX

9:15 AM Verde Plant Bug Association with Boll Damage Including Cotton Boll Rot and Potential In-Season Indicators of Damage

Michael J. Brewer, Corpus Christi AgriLife Research and Extension Center, Corpus Christi, TX, J. Scott Armstrong, USDA, ARS, BIRU, Weslaco, TX and E. Gino Medrano, USDA-ARS-SPARC, College Station, TX

9:30 AM Incidence of Spider Mites in South Texas Cotton Fields

Raul T. Villanueva, Texas AgriLife Research and Extension Center- Weslaco, Weslaco, TX, Michael Brewer, Corpus Christi AgriLife Research and Extension Center, Corpus Christi, TX and J. S. Armstrong, USDA-ARS, Weslaco, TX

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

Crystal Ballroom M (Orlando World Center Marriott) - 10:30 AM- 1:00 PM

Presiding: Tom A. Royer

10:30 AM Thrips Management in Seedling Cotton with Starter Fertilizer and a Single Foliar Application

Michael Toews¹, P. Roberts¹, J. Herbert¹, S. Tubbs¹, G. Harris¹, R. Srinivasan¹, Ronald Smith², Jeremy K. Greene³, J. S. Bachele⁴, D. Reising² and D. Ames Herbert⁵, (1)University of Georgia, Tifton, GA, (2)Auburn University, Auburn, AL, (3)Clemson University, Blackville, SC, (4)North Carolina State University, Raleigh, NC, (5)Virginia Tech, Suffolk, VA

10:45 AM Multifunctional Trap Cropping System for Managing Stink Bugs in Cotton

Glynn Tillman, USDA, ARS, Tifton, GA

11:00 AM Biological Control of Stink Bugs in Cotton?

John R. Ruberson¹, Dawn Olson², James D. Harwood³ and Kacie J. Johansen³, (1)University of Georgia, Tifton, GA, (2)USDA, ARS, Tifton, GA, (3)University of Kentucky, Lexington, KY

11:15 AM Lygus Hesperus Adult Age- and Gender- Effects on Sweepnet Sampling in Cotton

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

11:30 AM Western Tarnished Plant Bug, Lygus Hesperus Knight, Management in the San Joaquin Valley: Trends and Implications

Larry D. Godfrey, University of California, Davis, CA and Treanna Pierce, University of California, Shafter, CA

11:45 AM Boll Weevil Eradication Update - Arkansas, 2011

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

12:00 PM Status Report of Boll Weevil and Pink Bollworm Eradication In Texas

L. E. Smith, S.E. Herrera, P. B. Burson and L. W. Patton, Texas Boll Weevil Eradication Foundation, Abilene, TX

12:15 PM Arizona Pink Bollworm Eradication Program Update 2011

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

12:30 PM Field and Semi Field Trials to Evaluate Some Pesticides Against Some Cotton Pests Infesting Cotton During the Whole Season (Minia University, Egypt)

Sanaa A. Ibrahim and **Abdelrahman M. Younis**, Minia University, Minia, Egypt

TECHNICAL CONFERENCES PROGRAM

24TH ANNUAL COTTON QUALITY MEASUREMENTS CONFERENCE

Thursday, January 5, 2012 and Friday, January 6, 2012

Thursday Afternoon

COTTON QUALITY MEASUREMENTS - THURSDAY EARLY AFTERNOON

Miami (Orlando World Center Marriott) - 1:30 PM-3:15 PM

1:30 PM FT-Mid-IR Spectroscopic Investigation of Fiber Maturity and Crystallinity At Single Boll Level and a Comparison with XRD Approach

Yongliang Liu, USDA-ARS-SAA, Clemson, SC, Devron Thibodeaux, USDA-ARS-SAA, Cotton Quality Research Station, Clemson, SC, Gary Gamble, USDA ARS Cotton Quality Research Station, Clemson, SC, Phil J. Bauer, USDA-ARS, Florence, SC and Don VanDerveer, Department of Chemistry, Clemson U, SC

1:45 PM Measure the Color Distribution of a Cotton Sample Using Image Analysis

Xiaoliang Cui¹, Yiyun Cai², James E. Rodgers¹, Vikki B. Martin³ and Michael D. Watson³, (1)SRRC-ARS-USDA, New Orleans, LA, (2)Louisiana State University, Metairie, LA, (3)Cotton Incorporated, Cary, NC

2:00 PM Rapid Cotton Maturity and Fineness Measurements Using the COTTONSCOPE®

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

2:15 PM Approaches of Using the Beard Testing Method to Obtain Length Distributions of Cotton Samples

Yiyun Cai¹, Xiaoliang Cui², James E. Rodgers², Vikki B. Martin³ and Michael D. Watson³, (1)Louisiana State University, Metairie, LA, (2) USDA ARS SRRC, New Orleans, LA, (3)Cotton Incorporated, Cary, NC

2:30 PM AFIS Fiber Properties From Raw Stock to Spinning

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

2:45 PM Botanical Trash Mixtures Analyzed with near-Infrared Spectroscopy

Chanel A. Fortier, SRRC-ARS-USDA, New Orleans, LA, J.E. Rodgers, USDA-ARS-SRRC, New Orleans, LA and Jonn Foulk, USDA-ARS-SAA, Clemson, SC

3:00 PM Spectroscopic Approach to Study Cellulose Development During the Secondary Cell Wall Biogenesis in Cotton Fibers

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

COTTON QUALITY MEASUREMENTS - THURSDAY LATE AFTERNOON

Miami (Orlando World Center Marriott) - 4:00 PM-5:30 PM

4:00 PM Within Sample Variability of Fiber Quality Measurements

Dev Paudel, Eric F. Hequet, Noureddine Abidi, Brendan Kelly, Roji Manandhar and Farzad Hosseinali, Fiber and Biopolymer Research Institute - Dept. Plant & Soil Science, Texas Tech University, Lubbock, TX

4:15 PM Decoding Distributional Changes in Fiber Quality During Consecutive Stages of Processing

Brendan Kelly, Eric F. Hequet, Noureddine Abidi, Farzad Hosseinali, Roji Manandhar and Dev Paudel, Fiber and Biopolymer Research Institute - Dept. Plant & Soil Science, Texas Tech University, Lubbock, TX

4:30 PM Variability of Single Cotton Fiber Tensile Properties within and Between Samples

Farzad Hosseinali, Eric F. Hequet, Noureddine Abidi, Brendan Kelly, Roji Manandhar and Dev Paudel, Fiber and Biopolymer Research Institute - Dept. Plant & Soil Science, Texas Tech University, Lubbock, TX

4:45 PM Cotton Fiber Properties: Relative Humidity and Its Effect on Flat Bundle Strength, Elongation, and Fracture Morphology

Michael Santiago Cintrón and Bruce F. Ingber, USDA, New Orleans, LA

5:00 PM Dispersion Modeling with AERMOD to Develop Particulate Matter Emission Factors for Cattle Feedyards

Jnana Bairy, Texas A&M University, College Station, TX

Friday Morning

COTTON QUALITY MEASUREMENTS - FRIDAY EARLY MORNING

Miami (Orlando World Center Marriott) - 8:00 AM-10:00 AM

8:00 AM Relationship Between Three Cotton Trash Measurements: HVI, SA, and AFIS

Yongliang Liu, USDA-ARS-SAA, Clemson, SC, Devron Thibodeaux, USDA-ARS-SAA, Cotton Quality Research Station, Clemson, SC and Gary Gamble, USDA-ARS, Clemson, SC

8:15 AM Enhancing Fiber Cross-Section Measurements to Eliminate Bias in the Cotton Maturity Reference

Bugao Xu and XiaoWen Guo, The University of Texas at Austin, Austin, TX

8:30 AM Utilizing Chemical Tagging to Monitor Processing

Gary Gamble, USDA-ARS, Clemson, SC

8:45 AM Comparison of NIR Methods for Measuring Cotton Fiber Maturity and Fineness

James E. Rodgers, Chanel A. Fortier and Xiaoliang Cui, SRRC-ARS-USDA, New Orleans, LA

9:00 AM Production of Carded Compact Cotton Yarn of Comparable Quality to the Combed Conventional Yarn

Mohamed Abdel-Rahman Mohamed El-Sayed and Souzan hosiery sanad Ismaiel, Cotton Research Institute, Giza, Egypt

9:15 AM The Use of Monte Carlo Techniques to Study the Effect of Cotton Fiber Properties on Yarn Hairiness

Alice Wambaire Waithaka, Kenya Industrial Research and Development Institute, Nairobi, Kenya

9:30 AM Influence of Finishing On Hand of Cotton Fabrics

Michael Nyoun Mitla, Delhi University, NewDelhi, India

TECHNICAL CONFERENCES PROGRAM

29TH ANNUAL COTTON SOIL MANAGEMENT AND PLANT NUTRITION CONFERENCE

Thursday, January 5, 2012

Thursday Morning

ENHANCED EFFICIENCY NITROGEN FERTILIZERS

Crystal Ballroom H (Orlando World Center Marriott) - 8:00 AM-10:00 AM

Official: M. Mozaffari

8:00 AM Understanding Enhanced Efficiency Nitrogen Fertilizers: Tools or Toys?

Alan Blaylock, Agrium Advanced Technologies, Loveland, CO

8:30 AM New Technology N Products in Alabama

Charles Mitchell, Auburn University, Auburn, AL, Dexter Watts, USDA-ARS Soil Dynamics Lab, Auburn, AL and Don Moore, Prattville Research Unit, Prattville, AL

9:00 AM Enhanced Efficiency Nitrogen Fertilizers for Cotton in the Southeast - Where Do They Fit?

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

Thursday Afternoon

COTTON SOIL MANAGEMENT AND PLANT NUTRITION - THURSDAY EARLY AFTERNOON

Crystal Ballroom H (Orlando World Center Marriott) - 1:30 PM-3:15 PM

1:30 PM Controlled Release Nitrogen Fertilizers for Missouri Cotton Production

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

1:45 PM Cotton Response to Urea and An Enhanced Efficiency N Fertilizer in Arkansas

Morteza Mozaffari, University of Arkansas Department of Soil, Crops, and Environmental Sciences, Soil Testing Laboratory, Marianna, AR, N. A. Slaton, University of Arkansas, Fayetteville, AR and Tina Gray Teague, Arkansas State University - University of Arkansas Agricultural Experiment Station, State University, AR

2:00 PM Field Evaluation of Nitrogen Management Products for Enhancing Cotton Production

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

2:15 PM Update on Cotton Production Management with Nitrogen Rates and Plant Growth Regulators

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

2:30 PM Availability of Well Water Nitrates for Cotton in Various Irrigation Systems

Paul B. DeLaune, Texas AgriLife Research, Vernon, TX, Danielle Dittrich, Texas A&M University, College Station, TX and Frank M. Hons, Texas AgriLife Research, College Station, TX

2:45 PM Sidedress Nitrogen Rates and Costs for Southeastern Cotton Production

Kipling S. Balkcom and Leah Moore Duzy, USDA-ARS, Auburn, AL

3:00 PM Improving Nitrogen Management for Optimal Cotton Productivity and Nitrogen Use Efficiency

Frank Yin and Chris Main, The University of Tennessee, Jackson, TN

COTTON SOIL MANAGEMENT AND PLANT NUTRITION - THURSDAY LATE AFTERNOON

Crystal Ballroom H (Orlando World Center Marriott) - 4:00 PM-6:00 PM

4:00 PM Cotton Root Growth and Yield As Impacted by Winter Grazing

David Wright, J. J. Marois, R. Loision and George Anguelov, University of Florida, Quincy, FL

4:15 PM Need for Regionally Specific Sensor Based N Recs

Daryl Brian Arnall, Oklahoma State University, Stillwater, OK

4:30 PM Evaluation of Cotton Canopy Reflectance At Multiple Wavelengths and Indices for the Detection of Plant Height and Nitrogen Status

Tyson B. Raper¹, Jac J. Varco² and Ken J. Hubbard², (1)University of Arkansas, Fayetteville, AR, (2)Mississippi State University, Mississippi State, MS

4:45 PM Effectiveness of Split Applications and Foliar Potassium on Different Cotton Varieties

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

5:00 PM Potassium Variability in Some Alluvial Soils

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

5:15 PM Long Term Response of Cotton to Potassium Fertilization

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

5:30 PM Cotton Potassium Deficiency - Cosmetic or Real?

John S. Kruse¹, Gaylon Morgan² and Brenda Tubana¹, (1)LSU AgCenter, Alexandria, LA, (2)Texas AgriLife Extension Service, College Station, TX

5:45 PM Pima and Acala Responses to Deficit Drip Irrigation and Nitrogen Management

Robert B. Hutmacher, University of California - Davis & West Side REC, Five Points, CA, Mark Keeley, University of California Dept Plant Sciences, Shafter, CA, Raul Delgado, University of California, Shafter, CA and S. D. Wright, University of California, Tulare, CA

TECHNICAL CONFERENCES PROGRAM

20TH ANNUAL COTTON UTILIZATION CONFERENCE

Thursday, January 5, 2012 and Friday, January 6, 2012

UTILIZATION: FABRIC CHEMISTRY, NONWOVENS & PRODUCTS

Thursday Afternoon

COTTON UTILIZATION: FABRIC CHEMISTRY, NONWOVENS & PRODUCTS SYMPOSIUM - THURSDAY EARLY AFTERNOON

Washington (Orlando World Center Marriott) - 1:30 PM-3:15 PM

1:30 PM Field Evaluation of Cotton-Plant Based Hydromulches
Elizabeth Guertal¹, Greg Holt² and Earl Norton¹, (1)Auburn University, Auburn University, AL, (2)USDA-ARS, Lubbock, TX

1:50 PM Nanoparticles Vapor Deposition and Molecular Vapor Deposition Methods As Tools for Cotton Fabric Surface Functionalization

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

2:10 PM A Preliminary Study of Dyeing Greige Cotton Nonwoven Fabrics with and without Traditional Scouring and Bleaching Processes

Michael Reynolds, Chuck Allen, Paul Sawhney, Vince Edwards, Ryan Slopek and Brian Condon, USDA-ARS-SRRC, New Orleans, LA

2:30 PM Variations in Energy for Hydroxyl Group Orientations in Cellulose

Alfred D. French, USDA-ARS-SRRC, New Orleans, LA and Gabor I. Csonka, Budapest University of Technology and Economics, Budapest, Hungary

2:50 PM Performance Enhancement of Citric Acid As a Formaldehyde Free Easy Care Cross-Linker by Using Nano Titanium Dioxide and Novel Easy Care Finishing for Cotton
Muhammad Mohsin¹, Chris Carr² and Muriel Rigout², (1)PhD from The University of Manchester, Lecturer University of Engineering and Technology Lahore, Sargodha, Pakistan, (2)The University of Manchester, Manchester, United Kingdom

COTTON UTILIZATION: FABRIC CHEMISTRY, NONWOVENS & PRODUCTS SYMPOSIUM - THURSDAY LATE AFTERNOON

Washington (Orlando World Center Marriott) - 4:00 PM-5:30 PM

4:00 PM Oil Absorption by Cotton: A Systematic Study
Ronald Kendall Jr¹, Luke Kitten¹, Vinitkumar Singh¹, Kater D. Hake², Ronald Kendall¹ and Seshadri Ramkumar¹, (1)Institute of Environmental and Human Health, Lubbock, TX, (2)Cotton Incorporated, Cary, NC

4:20 PM Electrokinetic and Enzymatic Profiles of Nonwoven Cotton

Vince Edwards, Nicolette Prevost, Paul Sawhney, Chuck Allen, Michael Reynolds and Brian Condon, USDA-ARS-SRRC, New Orleans, LA

4:40 PM Cotton Fiber Cell Wall Development for Three Cultivars: An FT-IR Examination

Michael Santiago Cintrón, USDA, New Orleans, LA, Hee Jin Kim, USDA-ARS, Southern Regional Research Center, New Orleans, LA and Doug J. Hinchliffe, USDA-ARS, SRRC, New Orleans, LA

5:00 PM Biodegradation Study on Nonwoven Cotton Oil Sorbents

Vinitkumar Singh and **Seshadri Ramkumar**, Institute of Environmental and Human Health, Lubbock, TX

UTILIZATION: TEXTILE TECHNOLOGY

Thursday Morning

COTTON UTILIZATION CONFERENCE: A LIFE CYCLE APPROACH

Crystal Ballrooms A & B (Orlando World Center Marriott) - 10:30 AM-12:00 PM

*Officials: Alfred D. French
Mourad Krifa*

10:30 AM Benchmarking the Environmental Aspects of Cotton Fiber and Fabric Production Using a Life Cycle Approach

Janet Reed, Michele L. Wallace, Megan H. Peterson and Ed M. Barnes, Cotton Incorporated, Cary, NC

Friday Morning

COTTON UTILIZATION CONFERENCE: TEXTILE TECHNOLOGY SYMPOSIUM - FRIDAY EARLY MORNING

Washington (Orlando World Center Marriott) - 8:00 AM-10:00 AM

Official: Mourad Krifa

8:00 AM The Impact of High Speed Roller Ginning on Yarn Quality

Devron P. Thibodeaux, USDA-ARS-SAA, Clemson, SC, S. E. Hughs, Southwest Cotton Ginning Lab, USDA-ARS, Mesilla Park, NM and Roger E. Insley, Custom Technical Solutions, LLC, Gastonia, NC

8:15 AM Estimation of Cotton Yarns Complex Quality Index Based on the Uster Statistics

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

8:30 AM Preliminary Results of Cottonspec Validation Trials
Shouren Yang¹, **Stuart Gordon¹** and Lamei Wu², (1)CSIRO, Geelong, Australia, (2)China Chongqing Sanxia Technical Textile Co. Ltd., Chongqing, China

8:45 AM Within- and Between-Bale Variability of Cotton Fiber Length Distribution

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

TECHNICAL CONFERENCES PROGRAM

20TH ANNUAL COTTON UTILIZATION CONFERENCE

Friday, January 6, 2012

9:00 AM Effect of Cleaning Treatments On Yarn Quality

Chanying Li¹, Devron Thibodeaux², Jonn Foulk³ and A. Knowlton¹, (1)University of Georgia, Tifton, GA, (2)USDA-ARS-SAA, Cotton Quality Research Station, Clemson, SC, (3)USDA-ARS, Clemson, SC

9:15 AM Utilization of Gin Motes in Rotor Yarn Production

C. D. Delhom¹, Gary R. Gamble², Devron Thibodeaux³, R. K. Byler⁴ and X. Cui¹, (1)USDA-ARS-SRRC, New Orleans, LA, (2)USDA-ARS, Cotton Quality Research Station, Clemson, SC, (3)USDA-ARS-SAA, Cotton Quality Research Station, Clemson, SC, (4)USDA-ARS, Stoneville, MS

9:30 AM Evaluation of Texas Cottons for Fine-Count Plied Yarns

M. Dean Ethridge, Fiber & Biopolymer Research Institute, Texas Tech University, Lubbock, TX

9:45 AM Continuous Improvement of Yarn Quality in Spinning Mills

Adel Salah El Din El Geiheini, Wael Hamida Hashima and Ibrahim Abdou El Hawary, Alexandria University Faculty of Engineering, Alexandria, Egypt

COTTON UTILIZATION CONFERENCE: TEXTILE TECHNOLOGY SYMPOSIUM - FRIDAY LATE MORNING

Washington (Orlando World Center Marriott) - 10:30 AM-12:00 PM

Official: Mourad Krifa

10:30 AM Online Recognition of Foreign Fibers in Lint

Daoliang Li, China Agricultural University, Beijing, China and Wenzhu Yang, Hebei University, Baoding, China

10:45 AM Qualitative Detection of Residual Pesticides on Cotton Fibers

Syed Zameer Ul Hassan and Jiri Militky, Technical University of Liberec, Liberec, Czech Republic

11:00 AM Rapid Prototyping of Ring and Compact Yarn with the IMDS LabSpinner

Urs Meyer, texma.org AG, Grueningen, Switzerland and **M. Dean Ethridge**, Fiber & Biopolymer Research Institute, Texas Tech University, Lubbock, TX

11:15 AM Effect of Carding Machine Delivery Speed On Production of Extra-Fine Egyptian Cotton Compact Spun Yarns

Mohamed Abdel-Rahman Mohamed El-Sayed¹, Juergen Schaller², Gunter Koeing³ and Suzan Sanad¹, (1)Cotton Research Institute, Giza, Egypt, (2)Oerlikon Schlafhorst, Shtuttgart, Germany, (3)Truetzschler, Monchengladbach, Germany

11:30 AM Behavior of Cellulosic Fibers and Cellulosic Fiber Derivatives in Knitted Fabric Properties

Alaa Arafa Badr, Textile Engineering Department, Alexandria, Egypt

11:45 AM Effect of Knit Structure on Dimensional Stability of Knitted Fabrics

Adel Salah El Din El Geiheini and Sherein El Kateb, Alexandria University Faculty of Engineering, Alexandria, Egypt

TECHNICAL CONFERENCES PROGRAM

36TH ANNUAL COTTON WEED SCIENCE RESEARCH CONFERENCE

Thursday, January 5, 2012

Thursday Morning

GLYPHOSATE-RESISTANT WEED CONTROL SYSTEMS: MANAGING AROUND THE CONSISTENT INCONSISTENCIES OF PRE-EMERGENCE HERBICIDES

Canary 1 & 2 (Orlando World Center Marriott) - 8:00 AM-10:00 AM

Official: Larry Steckel

8:00 AM Cotton Injury As Influenced by Herbicides, Irrigation, Seedling Vigor, Seeding Depth, and Environmental Stresses

A. Stanley Culpepper, University of Georgia, Tifton, GA, Tim Moore, University of Georgia, Colquitt, GA, Rome Ethredge, University of Georgia, Donalsonville, GA and Wes Briggs, Briggs Crop Protection, Bainbridge, GA

8:30 AM Affects of Irrigation Type and Timing on Herbicide Performance

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

9:00 AM Preemergence Herbicides: A Necessary Evil

A.C. York, North Carolina State University, Raleigh, NC

9:20 AM Residual Herbicides Are Cornerstone of Glyphosate-Resistant Italian Ryegrass Control

Jason Bond, Mississippi State University, Stoneville, MS

9:40 AM The Double Edged Sword of Pre Emergence Herbicides

Larry Steckel, The University of Tennessee, Jackson, TN

Thursday Afternoon

COTTON WEED SCIENCE RESEARCH - THURSDAY EARLY AFTERNOON

Canary 1 & 2 (Orlando World Center Marriott) - 1:30 PM-3:30 PM

1:30 PM Changes in Cotton Weed Management Practices Following the Development of Glyphosate-Resistant Palmer Amaranth

Lynn M. Sosnoskie and **A. Stanley Culpepper**, University of Georgia, Tifton, GA

1:45 PM Evaluation of GlyTol/Liberty Link Cotton in the Midsouth

Daniel O. Stephenson, LSU AgCenter, Alexandria, LA, **Jason A. Bond**, Mississippi State University, Stoneville, MS and **Donnie K. Miller**, LSU AgCenter, Northeast Research Station, St. Joseph, LA

2:00 PM The Effect of Colex-D Technology in Managing Drift Under Field Conditions with the Enlist Weed Control System

Ryan J. Edwards¹, **D. B. Reynolds**², **J. T. Irby**², **L. E. Steckel**³, **L. Walton**⁴, **B. Haygood**⁵, **D.T. Ellis**⁶ and **J. S. Richburg**⁷, (1)Mississippi State University Dept. Plant and Soil Sciences, Starkville, MS, (2)Mississippi State University, Mississippi State, MS, (3)University of Tennessee, Jackson, TN, (4)Dow AgroSciences LLC, Indianapolis, IN, Indianapolis, IN, (5)Dow AgroSciences, Indianapolis, IN, (6)Dow AgroSciences LLC, Greenville, MS, (7)Dow AgroSciences, Headland, AL

2:15 PM Effects of Compensatory Growth on Palmer Amaranth Biomass Accumulation and Cotton Yield

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

2:30 PM Evaluation of Crop Safety and Weed Control Programs in Dicamba Tolerant Cotton

Darrin M. Dodds, Mississippi State University, Mississippi State, MS, **Scott Bollman**, Monsanto Company, St. Louis, MO, **D. K. Miller**, LSU AgCenter, St. Joseph, LA, **J. Anthony Mills**, Monsanto, Collierville, TN, **J.K. Norsworthy**, University of Arkansas, Fayetteville, AR and **Larry E. Steckel**, University of Tennessee, Jackson, TN

2:45 PM Weed Management in Dicamba, Glufosinate, and Glyphosate Tolerant Cotton

Scott Bollman, Richard Voth, John A. Kendig, Marianne Malven and Sherry Leclere, Monsanto Company, St. Louis, MO

3:00 PM Fall Residual and Spring POST Herbicide Programs for Glyphosate-Resistant Italian Ryegrass

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

COTTON WEED SCIENCE RESEARCH - GRADUATE STUDENT PAPER SESSION

Canary 1 & 2 (Orlando World Center Marriott) - 4:00 PM-6:30 PM

4:00 PM Weed Management and Crop Injury When Intercropping Cucurbits and Cotton

Peter M. Eure, The University of Georgia, Athens, GA, **A. Stanley Culpepper**, The University of Georgia, Tifton, GA, **T. Brian Tankersley**, UGA Cooperative Extension -Tift County, Tifton, GA and **Rand M. Merchant**, University of Georgia, Tifton, GA

4:15 PM Cotton Tolerance and Palmer Amaranth Control with Zidua, Warrant, and Dual Magnum Herbicides

Charles W. Cahoon, A.C. York and **D. L. Jordan**, North Carolina State University, Raleigh, NC

4:30 PM Comparison of Current Glyphosate- and Glufosinate-Based Programs on Controlling Glyphosate-Resistant Palmer Amaranth in Cotton

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

4:45 PM Controlling Large Glyphosate-Resistant Palmer Amaranth with Salvage 2,4-D Systems in Enlist Cotton

Rand M. Merchant¹, **A. Stanley Culpepper**¹ and **Peter M. Eure**², (1)University of Georgia, Tifton, GA, (2)The University of Georgia, Athens, GA

5:00 PM Influence of Photosystem II-Inhibiting Herbicide Rates on Palmer Amaranth (*Amaranth palmeri*) Control and Crop Injury

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

TECHNICAL CONFERENCES PROGRAM

36TH ANNUAL COTTON WEED SCIENCE RESEARCH CONFERENCE

Thursday, January 5, 2012 and Friday, January 6, 2012

5:15 PM Herbicide Programs for Glyphosate-Resistant Palmer Amaranth Control in South Carolina Cotton

Jacob G. Stokes and Michael W. Marshall, Clemson University, Blackville, SC

5:30 PM Effect of Glufosinate Application on Widestrike™ and Liberty Link™ Cotton Varieties

Kevin Ford¹, Darrin M. Dodds², L. Tom Barber³, Christopher L. Main⁴, J. Gore¹ and D. R. Cook¹, (1)Mississippi State University, Stoneville, MS, (2)Mississippi State University, Mississippi State, MS, (3)Division of Agriculture, University of Arkansas, Little Rock, AR, (4)University of Tennessee, Jackson, TN

5:45 PM The Effect of Giant Ragweed on Cotton Maturity, Yield, and Fiber Quality

Kelly Barnett and Lawrence E. Steckel, University of Tennessee, Jackson, TN

6:00 PM Effect of Glufosinate and Metolachlor Application Timing on Widestrike and Liberty Link Cotton Cultivars

Jarett W. Chapman¹, Tom Barber¹, Chris Main² and Darrin Dodds³, (1)U of A Division of Agriculture, Little Rock, AR, (2)The University of Tennessee, Jackson, TN, (3)Mississippi State University, Mississippi State, MS

Friday Morning

COTTON WEED SCIENCE RESEARCH - FRIDAY EARLY MORNING

Canary 1 & 2 (Orlando World Center Marriott) - 8:00 AM-10:00 AM

8:00 AM Efficacy and Cotton Tolerance to Warrant

Dilpreet Singh Riar, Jason Norsworthy, D. B. Johnson, Clay Starkey and Austin Lewis, University of Arkansas, Fayetteville, AR

8:15 AM Weed Control and Tolerance of Liberty Link Cotton to Tank-Mixes of Ignite, Staple LX, and Warrant

D. B. Johnson¹, J.K. Norsworthy¹, R. Edmund² and C. E. Starkey¹, (1)University of Arkansas, Fayetteville, AR, (2)DuPont Agricultural Products, Little Rock, AR

8:30 AM The Spectral Response of Cotton to Drift Rates of 2,4-D and Its Effect on Growth and Yield

Chad L. Smith, Daniel B. Reynolds, J. Trent Irby, L. M. Bruce, Reed C. Storey and Amber N. Eytcheson, Mississippi State University, Mississippi State, MS

8:45 AM Yield Response to Glufosinate Applications in Liberty Link Cotton

Blake McClelland¹, Jarett Chapman¹, Tom Barber¹, Darrin Dodds² and Chris Main³, (1)University of Arkansas Division of Agriculture, Keiser, AR, (2)Mississippi State University, Mississippi State, MS, (3) The University of Tennessee, Jackson, TN

9:00 AM How Tillage and Application Timing of Reflex Affects Palmer Amaranth Control

Jeremy M. Kichler, University of Georgia, Oglethorpe, GA and A. Stanley Culppepper, University of Georgia, Tifton, GA

9:15 AM Midsouth Weed Management Survey with Emphasis on Palmer Amaranth

J. K. Norsworthy¹, K. L. Smith², Robert C. Scott³, L. E. Steckel⁴, Jason A. Bond⁵, Thomas W. Eubank⁵, D. O. Stephenson Stephenson⁶ and Jason Weirich⁷, (1)University of Arkansas, Fayetteville, AR, (2) University of Arkansas - Division of Agriculture, Monticello, AR, (3) University of Arkansas, Lonoke, AR, (4)University of Tennessee, Jackson, TN, (5)Mississippi State University, Stoneville, MS, (6)LSU AgCenter, Alexandria, LA, (7)University of Missouri, Portageville, MO

9:30 AM Effect of Tillage and Herbicide Input on Benghal Dayflower (*Commelina benghalensis*) in Cotton

Barry J. Brecke¹, Darcy Partridge-Telenko¹ and Daniel O. Stephenson², (1)University of Florida, Jay, FL, (2)LSU AgCenter, Alexandria, LA

9:45 AM Has Glyphosate-Resistant Palmer Amaranth (*Amaranthus palmeri*) Created a Fit for Fluridone in Cotton?

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

COTTON WEED SCIENCE RESEARCH - FRIDAY LATE MORNING

Canary 1 & 2 (Orlando World Center Marriott) - 10:30 AM-11:45 AM

10:30 AM The Effect of Volunteer Crops on Cotton Growth and Yield

Reed C. Storey¹, D. B. Reynolds¹, J. Trenton Irby¹, Chad L. Smith¹, Ryan J. Edwards² and Amber N. Eytcheson¹, (1)Mississippi State University, Mississippi State, MS, (2)Mississippi State University, Starkville, MS

10:45 AM Simulation Modeling to Predict the Evolution and Dynamics of Glyphosate Resistance in Barnyardgrass in Cotton

Muthukumar Bagavathiannan¹, 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

11:00 AM Sharppod Morningglory Control In Roundup Ready Flex® and LibertyLink® Cotton

G.D. Morgan, Travis Janak, Paul Baumann and Matt Matocha, Texas AgriLife Extension Service, College Station, TX

11:15 AM The Benefits and Challenges of Lupin Before Cotton

Theodore M. Webster, Dawn Olson, Timothy Strickland, Brian Scully, William Anderson and Richard Davis, USDA-ARS, Tifton, GA

11:30 AM Comparison of Aerial Imagery and An Automated Ground-Based System for the Assessment of off-Target Herbicide Deposition

J. Trenton Irby¹, Daniel B. Reynolds¹, Chad L. Smith¹, Jeffery L. Willers² and Lori M. Bruce¹, (1)Mississippi State University, Mississippi State, MS, (2)USDA-ARS, Mississippi State, MS

TECHNICAL CONFERENCES PROGRAM

TECHNICAL CONFERENCES POSTER BOARD SESSION

Wednesday, January 4, 2012, 12:00 PM - 6:00 PM

Thursday, January 5, 2012, 10:00 AM - 10:00 PM

Friday, January 6, 2012, 8:00 AM - 12:00 PM

Royal

**Posters will be on display in Canary 4 for the following:
COTTON ECONOMICS AND MARKETING CONFERENCE**

COTTON AGRONOMY & PHYSIOLOGY CONFERENCE POSTERS

1. **Response of Cotton to PGR Treatment Under Differing Drip Irrigation Regimes**
Clayton T. Lewis, Texas A&M, College Station, TX and J. T. Cothren, Texas A&M University, College Station, TX
2. **Development of a Plant-Based Method for Cotton Cultivar Maturity Classification**
Tyler Brain Painter¹, Glen Ritchie², C.W. Bednarz³ and Dick Auld¹, (1)Texas Tech University, Lubbock, TX, (2)Department of Plant and Soil Science, Texas Tech University, Lubbock, TX, (3)Bayer CropScience, Lubbock, TX
3. **Impact of Fatty Acid Composition on Germination in Cottonseed**
Corey N. Thompson, Dick L. Auld, Glen L. Ritchie and Steve Oswalt, Texas Tech University, Lubbock, TX
4. **Growth and Yield Distribution Habits of Cotton Cultivars Under 9 Irrigation Regimes**
Bablu Sharma and Glen L. Ritchie, Texas Tech University, Lubbock, TX
5. **Effects of Episodic Drought Stress on Gas Exchange in West Texas Cotton**
Fulvio R. Simao¹, Glen L. Ritchie¹ and C.W. Bednarz², (1)Texas Tech University, Lubbock, TX, (2)Bayer CropScience, Lubbock, TX
6. **Increasing Fiber Initiation in Naked-Tufted Seed Cotton Mutants**
B.R. Hendon¹, E. Bechere², D.L. Auld¹ and E. Hequet¹, (1)Plant and Soil Science Department, Texas Tech University, Lubbock, TX, (2)USDA-ARS, Stoneville, MS
7. **Influence of Dose and Application Timing on the Efficacy of Harvest Aid in Cotton-Winter Wheat Double Cropping System of China**
Mingwei Du, Xiaoming Ren, 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
8. **The Use of Primed Acclimation and Strip Tillage to Increase Water Use Efficiency in Cotton**
Joshua L. Thompson¹, Diane L. Rowland¹, Barry Tillman¹, David Wright¹ and John Beasley², (1)University of Florida-Agronomy, Gainesville, FL, (2)University of Georgia, Tifton, GA
9. **Physiological Responses of Cotton Leaves to Shading and Aging**
Fábio R. Echer¹, **Ciro Rosolem**², A.C Macedo³ and J.D. Rodrigues³, (1)Unesp/University of Arkansas, Fayetteville, AR, (2)Faculdade de Ciências Agronomicas - UNESP, Botucatu Sao Paulo, Brazil, (3)Unesp, Botucatu, Brazil
10. **Water-Deficit Stress and Reproductive Development in Cotton**
Dimitra A. Loka¹, Derrick M. Oosterhuis¹, Bobbie L. McMichael² and Carlos J. Fernandez³, (1)University of Arkansas, Fayetteville, AR, (2) Texas Tech University, Lubbock, TX, (3)Texas AgriLife Research and Extension Center, Corpus Christi, TX
11. **Effects of High Night Temperatures At Flowering**
Dimitra A. Loka¹, Derrick M. Oosterhuis¹ and Fábio R. Echer², (1)University of Arkansas, Fayetteville, AR, (2)Unesp/University of Arkansas, Fayetteville, AR
12. **Effect of 1-MCP on Cotton Boll Development**
Yuan Chen, Texas A&M University Department of Soil and Crop Sciences, College Station, TX, Dehua Chen, Yangzhou University, China, Yangzhou, China and J. T. Cothren, Texas A&M University, College Station, TX
13. **Cotton Leaf Grade As Influenced by Cotton Defoliation and Varieties**
Zachary P. Eder¹, Gaylon Morgan¹, Dan Fromme¹, Dale Mott¹ and Fred M. Bourland², (1)Texas AgriLife Extension Service, College Station, TX, (2)University of Arkansas-NEREC, Keiser, AR
14. **Effect of Glufosinate Application Rate and Timing on Cotton Growth, Development, and Yield**
Chase Samples¹, Darrin M. Dodds¹, L. Tom Barber² and Christopher L. Main³, (1)Mississippi State University, Mississippi State, MS, (2) Division of Agriculture, University of Arkansas, Little Rock, AR, (3)University of Tennessee, Jackson, TN

TECHNICAL CONFERENCES PROGRAM

TECHNICAL CONFERENCES POSTER BOARD SESSION

15. **Effect of Seed Treatment, Insect Infestation, and Pesticide Program on Cotton Growth and Yield**
Kevin Ford¹, Darrin M. Dodds², Angus Catchot², Jeff Gore² and D. R. Cook¹, (1)Mississippi State University, Stoneville, MS, (2)Mississippi State University, Mississippi State, MS
16. **Evaluation of Glandless Cotton Cultivar in New Mexico**
Omololu, John Idowu¹, Jinfa Zhang¹, Jane, Breen Pierce¹, Charles, Scott Bundy¹, Robert, Paul Flynn¹, Tracey Carrillo¹ and Thomas C. Wedegaertner², (1)New Mexico State University, Las Cruces, NM, (2)Cotton Incorporated, Cary, NC
17. **Cotton Lint Yield, Fiber Quality, and Water-Use Efficiency As Influenced by Cultivar and Irrigation Level**
J.W. Cave¹, J. W. Keeling², P. A. Dotray² and James P. Bordovsky³, (1)Texas Tech University, Lubbock, TX, (2)Texas AgriLife Research, Lubbock, TX, (3)Texas AgriLife Research, Plainview, TX
18. **Effects of Localized Potassium Supply on Root Potassium Uptake in Cotton (*Gossypium hirsutum* L.)**
 Ye Wang, 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
19. **Over-Expression of An Isoform of the Delta-12 Fatty Acid Desaturase (FAD2-4) in Transgenic Cotton Plants**
Shanmukh Salimath, Patrick Horn and Kent Chapman, University of North Texas, Denton, TX
20. **Variety Performance in the Southern High Plains and Rolling Plains of Texas**
Jason E. Woodward¹, Justin L. Spradley¹, James. I. Yates¹, Brant A. Baugh², Marvin D. Dunlap³ and Scott A. Russell⁴, (1)Texas AgriLife Extension Service, Lubbock, TX, (2)Texas AgriLife Extension, Lubbock, TX, (3)Texas AgriLife Extension Service, Wellington, TX, (4)Texas Agrilife Extension, Brownfield, TX
21. **Yield Evaluation of the Grey Mildew (*Ramularia areola*) Resistance Trait in Two Cotton Cultivars**
Eduardo Kawakami, Fabiano V. Siqueri and Paulo H. Aguiar, Fundação Mato Grosso, Rondonópolis, MT, Brazil
22. **Growth Responses to Rates and Timings of Plant Growth Regulator Applications on New Deltapine Cotton Varieties**
Shannon R. Crawley, Monsanto Company, Florence, SC and David W. Albers, Monsanto, St. Louis, MO
23. **Performance of Liberty Link and PhytoGen WideStrike Cotton Varieties Managed with Ignite-Based Herbicide Systems in Georgia**
William G. Tyson, University of Georgia Cooperative Extension, Springfield, GA, Jared R. Whitaker, University of Georgia, Statesboro, GA, Guy Collins, University of Georgia, Tifton, GA, Jim F. Crawford, University of Georgia, Louisville, GA, Brian L. Cresswell, University of Georgia Cooperative Extension, Blakely, GA, D. Shane Curry, University of Georgia Cooperative Extension, Baxley, GA, Mike Dollar, University of Georgia - Cooperative Extension, Claxton, GA, Wes Harris, USDA-FAS/UGA, Statesboro, GA, Gordon R. Lee, University of Georgia Cooperative Extension, Cochran, GA and Christopher T. Tyson, University of Georgia Cooperative Extension, Sylvester, GA
24. **The Role of ABFs and CBFs in Abiotic Stress Tolerance**
Tyson C. C. Kerr and Randy D. Allen, Institute for Agricultural Biosciences - Oklahoma State University, Ardmore, OK
25. **Comparison of Effects of Glufosinate to Multiple Widestrike® RoundupFlex® and Liberty Link® Bollgard II® Transgenic Cotton Varieties On Plant Development and Yield**
Dale A. Mott, Gaylon D. Morgan, Zachary P. Eder and John D. Kerns, Texas AgriLife Extension Service, College Station, TX
26. **On-Farm Agronomic and Economic Evaluation of Stacked-Gene Cotton Cultivars in the Upper Coastal Bend and Central Regions of Texas in 2011**
Dale A. Mott, Gaylon D. Morgan, Zachary P. Eder and John D. Kerns, Texas AgriLife Extension Service, College Station, TX
27. **Investigation Into Post-Harvest Control of 2,4-D Tolerant Cotton**
R.B. Lassiter, J.A. Lee and V.B. Langston, Dow AgroSciences LLC, Indianapolis, IN
28. **Characteristics of Potassium Uptake Kinetics of Cotton (*Gossypium hirsutum* L.) Under K+ Starvation Time and Extracellular Acidification Treatment**
Ning Wang, 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
29. **Winter Cover Crop Effect on Nutrient Cycling for Cotton**
R. Scott Tubbs¹, Dylan Q. Wann², Michael Toews¹ and Glendon H. Harris¹, (1)University of Georgia, Tifton, GA, (2)Texas AgriLife Research, Lubbock, TX
30. **Effect of Starvation Time and Extracellular Acidification on Potassium Uptake Kinetics of Cotton (*Gossypium hirsutum* L.) Seedlings**
Ning Wang, 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

TECHNICAL CONFERENCES PROGRAM

TECHNICAL CONFERENCES POSTER BOARD SESSION

31. **Impact of Early Defoliation on California Cotton**
Steven D. Wright¹, Robert B. Hutmacher², Gerardo Banuelos¹, Bruce A. Roberts³, Mark Keeley⁴, Dan Munk⁵, Jonathan F. Wroble⁵, Katherine A. Wilson¹, Kelly Hutmacher¹ and Sonia I. Rios¹, (1)University of California Cooperative Extension, Tulare County, Tulare, CA, (2) University of California - Davis & West Side REC, Five Points, CA, (3)J. G. Boswell Chair of Agronomy, Department of Plant Science, Fresno, CA, (4)University of California Dept Plant Sciences, Shafter, CA, (5)University of CA Cooperative Extension - Fresno County, Fresno, CA
32. **Effect of Removing Cotton Terminals During Various Times of Cotton Growth and Development**
Michael A. Jones¹, Jason Sweeney¹ and Mark Zarnstorff², (1)Clemson University, Florence, SC, (2)National Crop Insurance Services, Overland Park, KS
33. **2011 Cotton Variety Performance in the Texas High Plains**
M.S. Kelley, C.W. Ashbrook and Jason E. Woodward, Texas AgriLife Extension Service, Lubbock, TX
34. **A Case Study of Crop Model Applications in An Increasing Diversity of Genetically Modified Traits**
 Girish Badgujar¹, **K. Raja Reddy**², Vangimalla R. Reddy¹, David Brand², Dennis Timlin¹ and David Fleisher¹, (1)USDA-ARS, Beltsville, MD, (2) Mississippi State University, Mississippi State, MS
35. **Determining Cultivar Maturity Characteristics in the Southwest, Midsouth, and Southeast**
Glen L. Ritchie, Texas Tech University, Lubbock, TX, Chris Main, The University of Tennessee, Jackson, TN, Guy Collins, University of Georgia, Tifton, GA, Jared R. Whitaker, University of Georgia, Statesboro, GA and Bob Nichols, Cotton Incorporated, Cary, NC
36. **Photosynthesis and Leaf Characteristics of Cotton Genotypes Differing in Early Vigor**
 Melissa A. Remley¹, Shengjun Liu², Bob Nichols³ and **Felix B. Fritschi**², (1)University of Missouri-Columbia, Columbia, MO, (2)University of Missouri, Columbia, MO, (3)Cotton Incorporated, Cary, NC
37. **Integrated Resistant Pigweed Control in the Southeast**
C. Dale Monks¹, Andrew Price², A. Stanley Culpepper³, Michael W. Marshall⁴, Robert L. Nichols⁵, Michael G. Patterson⁶, Larry Steckle⁷ and J. A. Kelton⁵, (1)Auburn University, Auburn, AL, (2)USDA-ARS, Auburn, AL, (3)University of Georgia, Tifton, GA, (4)Clemson University, Blackville, SC, (5)Cotton Incorporated, Cary, NC, (6)Auburn University, Auburn University, AL, (7)University Arkansas, Little Rock, AR
38. **Weed Control, Yield, and Net Returns From Three Cotton Management Systems in Glyphosate-Resistant Palmer Amaranth Fields**
C. Dale Monks¹, Max Runge¹, Mike Patterson¹ and A.J. Price², (1)Auburn University, Auburn, AL, (2)USDA-ARS, Auburn, AL
39. **Nitrogen Requirements of Adapted, Genetically –Modified Cotton Varieties**
K. L. Rothlisberger¹, F. M. Hons¹, V. A. Saladino¹, L.B. Crotwell¹, G.D. Morgan² and R. L. Nichols³, (1)Texas AgriLife Research, College Station, TX, (2)Texas AgriLife Extension Service, College Station, TX, (3)Cotton Incorporated, Cary, NC
40. **Cotton Yield and Fiber Quality As Affected by Low Light**
Fábio R. Echer, Unesp/University of Arkansas, Fayetteville, AR, Ciro Rosolem, Faculdade de Ciências Agronomicas - UNESP, Botucatu Sao Paulo, Brazil, R. Werle, Unesp - Faculdade de Ciências Agrônomicas, Botucatu, Brazil and E.N. Gomes, Unesp, Registro, Brazil

COTTON DISEASE COUNCIL POSTERS

41. **Reniform Nematode Reproduction on Soybean Cultivars and Breeding Lines In 2011**
R. T. Robbins¹, E. Shipe², P. Arelli³, Grover Shannon⁴, Katy M. Rainey⁵, P. Chen¹, Stella K. Kantartzi⁶, L. E. Jackson¹, Edward E. Gbur¹, D. G. Dombek¹ and Jeff T. Velie⁷, (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)Southern Illinois University Carbondale, Carbondale, IL, (7) Univ. of Arkansas, Fayetteville, AR
42. **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. Vasinfectum**
Jinggao Liu, A.A. Bell, Robert D. Stipanovic and Lorraine S. Puckhaber, USDA ARS CPRU, College Station, TX
43. **Fungicide Management of Cotton Root Rot (*Phymatotrichopsis omnivora*): 2011 Results**
T. Isakeit¹, R.R. Minzenmayer², D. R. Drake³, G.D. Morgan⁴, D.A. Mott⁴, D. D. Fromme⁵, W. L. Multer⁶, M. Jungman⁷ and A. Abrameit⁸, (1) Texas A&M University, College Station, TX, (2)Texas AgriLife Extension Service, Ballinger, TX, (3)Texas AgriLife Extension, San Angelo, TX, (4)Texas AgriLife Extension Service, College Station, TX, (5)Texas AgriLife Extension, Corpus Christi, TX, (6)Texas AgriLife Extension, Garden City, TX, (7)Hillsboro, TX, (8)Texas AgriLife Extension, Thrall, TX
44. **Evaluation of Variety Tolerance and Use of Vydate C-Lvmanagement of Southern Root-Knot Nematodes**
Manda G. Anderson, Texas AgriLife Extension Service, Seminole, TX, Terry A. Wheeler, Texas Agrilife Research, Lubbock, TX and Jason E. Woodward, Texas AgriLife Extension Service, Lubbock, TX

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45. **Reniform Nematode Development Across the Variable Soil Texture in a Commerce Silt Loam Field**
Déborah M. Xavier, LSU AgCenter, Baton Rouge, LA and Charles Overstreet, LSU Agricultural Center, Department of Plant Pathology and Crop Physiology, Baton Rouge, LA
46. **Effects of Soil Fertility on Reproduction and Pathogenicity of the Reniform Nematode (*Rotylenchulus reniformis*) on Cotton**
Charles Overstreet and Manjula T. Kularathna, LSU Agricultural Center, Baton Rouge, LA
47. **Development of a Simple Genetic Engineering Procedure to Study Root Physiology and Pathogens in Cotton**
Vincent P. Klink¹, Gary W. Lawrence¹, K. S. Lawrence², Prachi D. Matsye¹ and **Prateek Chaudhari¹**, (1)Mississippi State University, Mississippi State, MS, (2)Auburn University, Auburn University, AL
48. **Detection of *Rotylenchulus Reniformis* From Soil with Real-Time PCR**
Kurt C. Showmaker, Vincent P. Klink and Gary W. Lawrence, Mississippi State University, Mississippi State, MS
49. **Influence of Soil Physical Environment, *Thielaviopsis Basicola* and *Meloidogyne Incognita* on Cotton Root Architecture and Plant Growth in a Microplot Study**
Jianbing Ma¹, Terry L. Kirkpatrick² and Craig Rothrock¹, (1)University of Arkansas, Fayetteville, AR, (2)University of Arkansas, Hope, AR
50. **Characterization of Race 4-Like Isolates of *Fusarium oxysporum* f. sp. *vasinfectum* From Alabama and Mississippi**
Rebecca S. Bennett¹, Tamara Scott², Kathy S. Lawrence² and Gary W. Lawrence³, (1)USDA-ARS, Western Integrated Cropping Systems Research Unit, Shafter, CA, (2)Auburn University, Auburn, AL, (3)Mississippi State University, Mississippi State, MS
51. **Systemic and Localized Effects of *Bacillus Firmus* GB-126**
Drew W. Schrimsher, Kathy S. Lawrence, J.W. Kloepper and Edzard van Santen, Auburn University, Auburn, AL
52. **Machine Learning-Driven Model Inversion Methodology to Detect Reniform Nematodes in Cotton Using Hyperspectral Data**
Pavan K. Palacharla, Roger L. King and **Gary W. Lawrence**, Mississippi State University, Mississippi State, MS
53. **Antifungal Activity of Essential Oils on *Colletotrichum Gossypii* Var. *Cephalosporioides***
Marli de Fátima Stradioto Papa, Régis de Oliveira Fialho and Danilo Augusto dos Santos Pereira, São Paulo State University, Ilha Solteira, São Paulo State, Brazil
54. **Site-Specific Nematode Management with Telone II in Mississippi**
Tom Allen¹, Pat J. English¹, Kenneth Hood², R.A. Haygood³, Jeffery L. Willers⁴ and Darrin M. Dodds⁵, (1)Mississippi State University, Stoneville, MS, (2)Hood Farms & Gin, Gunnison, MS, (3)Dow AgroSciences LLC, Collierville, TN, (4)USDA-ARS, Mississippi State, MS, (5) Mississippi State University, Mississippi State, MS
55. **Response of Cotton Varieties to Inoculation with *Xanthomonas axonopodis* Pv. *Malvacearum* in Mississippi**
Bobby Golden¹, Tom Allen¹, Shien Lu², Peggy Thaxton² and Gabe L. Sciombato¹, (1)Mississippi State University, Stoneville, MS, (2) Mississippi State University, Mississippi State, MS
56. **Isolation of Bacteria Isolated From Diseased Cotton Bolls From South Texas**
Kendall Field¹, Greta Schuster¹, Shad Nelson¹, E.G. (Gino) Medrano², Kevin Ong³ and Jason Woodward⁴, (1)Texas A&M University-Kingsville, Kingsville, TX, (2)USDA - ARS, College Station, TX, (3)Texas A&M University, College Station, TX, (4)Texas Tech University, Lubbock, TX
57. **Management of the Southern Root-Knot Nematode in Appling County Georgia**
D. Shane Curry, University of Georgia Cooperative Extension, Baxley, GA and R. C. Kemerait, Department of Plant Pathology, University of Georgia, Tifton, GA
58. **Report of the Cottonseed Treatment Committee for 2011**
C. S. Rothrock¹, S. A. Winters¹, J.D. Barham², Alan B. Beach³, Melanie B. Bayles⁴, P. D. Colyer⁵, T. Kelley⁶, R. C. Kemerait⁷, G. W. Lawrence⁸, K. S. Lawrence⁹, G.B. Padgett¹⁰, P. M. Phipps¹¹, G. L. Sciombato¹², R. Thacker⁶ and Jason E. Woodward¹³, (1)Dept. of Plant Pathology, University of Arkansas, Fayetteville, AR, (2)University of Arkansas, Hope, AR, (3)University of Arkansas, Keiser, AR, (4)Oklahoma State University, Stillwater, OK, (5)LSU AgCenter, Bossier City, LA, (6)Oklahoma State University, Altus, OK, (7)Department of Plant Pathology, University of Georgia, Tifton, GA, (8)Mississippi State University, Mississippi State, MS, (9)Auburn University, Auburn University, AL, (10)LSU AgCenter Northeast Region, Winnsboro, LA, (11)Tidewater Ag Res & Ext Ctr, Virginia Tech, Suffolk, VA, (12)Delta Research and Extension Center, Mississippi State University, Stoneville, MS, (13)Texas AgriLife Extension Service, Lubbock, TX

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COTTON IMPROVEMENT CONFERENCE POSTERS

59. **Screening and Evaluation of Upland Cotton Race Stocks and Elite Lines for Photoperiod Response and Flowering Time**
Vasu Kuraparthi, Daryl T. Bowman, Blake Bowen and Ranjit Riar, North Carolina State University, Raleigh, NC
60. **Genetic Mean Analyses of Earliness Among Brazilian and US Upland Cotton**
FRANCISCO Jose Correia Farias¹, C. Wayne Smith², Camilo de Lelis Morello³, Steve Hague², Eng Hwa Ng², Kolbyn S. Joy⁴ and Filipe Cavalcante Farias⁵, (1)EMBRAPA, College Station, TX, (2)Texas A&M University, College Station, TX, (3)Embrapa, Goiânia, Brazil, (4)Texas A&M, College Station, TX, (5)Universidade Federal do Mato Grosso, Cuiabá, Brazil
61. **Sequence Analysis of DET2 Gene in Different Cotton Species**
Wanchao Ni, Hongmei Shu, Xinlian Shen and Shuqiao Guo, Jiangsu Academy of Agricultural Sciences, Nanjing, China
62. **The Inheritance of An Ultra-Dwarf Mutant in Upland Cotton and Its Gene Location**
Xusheng Chen, Chao Jing, Xiaojie Ma and Jiachun Di, Jiangsu Academy of Agricultural Sciences, Nanjing, China
63. **Salt Tolerance Evaluation in Commercial Cotton Cultivars**
Brian Barrick, **Jinfa Zhang** and Tiwari Rashmi, New Mexico State University, Las Cruces, NM
64. **Field Screening for Drought Tolerance in Cotton**
Jinfa Zhang, New Mexico State University, Las Cruces, NM and S. E. Hughs, USDA-ARS-Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM
65. **Genetic Variation and QTL Mapping of Drought Tolerance in Cotton Under PEG Conditions**
Abdel-raheem Abdel-Raheen, Rashmi S. Tiwari and Jinfa Zhang, New Mexico State University, Las Cruces, NM
66. **Development and Breeding Utilization of New Varieties with Bollworm Resistance and Non-Toxic Kernel in Cotton (*Gossypium hirsutum* L.)**
Songhua Xiao, Jianguang Liu, Qiajuan Wu, Jun Zhao, Xusheng Chen, Jiachun Di, Xiaojie Ma and Naiyin Xu, Jiangsu Academy of Agricultural Sciences, Nanjing, China
67. **Fine Mapping a Major QTL Controlling RKN Reproduction on Chr14 in Upland Cotton**
Yajun He¹, Richard F. Davis², Xinlian Shen¹ and Peng W. Chee¹, (1)University of Georgia, Tifton, GA, (2)USDA-ARS, Tifton, GA
68. **High-Resolution Recombination Dissection Around Alien Chromosome Segments Containing Genes for Resistance to Reniform Nematodes**
Xiuting Zheng¹, Jose Quintana², **Davd M. Stelly**¹, Alois A. Bell² and Robert L. Nichols³, (1)Texas A&M University, College Station, TX, (2) USDA-ARS-SPARC, College Station, TX, (3)Cotton Incorporated, Cary, NC
69. **Mirnas From Cotton Roots Infected with *Meloidogyne incognita***
Umid M. Shapulatov¹, Makamov Abdusalom¹, Sukumar Saha², Martin Wubben², Johnie N. Jenkins², Zabardast T. Buriev¹, Mauricio Ulloa³ and Iborkhim Abdurakhmonov¹, (1)Institute of Genetics and Plants Experimental Biology, Tashkent, Uzbekistan, (2)USDA-ARS, Crop Science Research Laboratory, Mississippi State, MS, (3)USDA-ARS, WICSRU, Shafter, CA
70. **Novel Synthetic Peptides Control Mycotoxigenic Fungi**
K. Rajasekaran¹, J.W. Cary¹, J. Jaynes² and D. Bhatnagar¹, (1)USDA, ARS, SRRC, New Orleans, LA, (2)Integrative Biosciences, Tuskegee, AL
71. **Resistance Assessment of Commercial Cotton Cultivars Against *Verticillium Dahliae* in Cotton**
Huping Zhou¹, Hui Fang¹, S. Sanogo², Robert P. Flynn³, Michael Gore⁴ and Jinfa Zhang¹, (1)New Mexico State University, Las Cruces, NM, (2)Department of Entomology, Plant Pathology and Weed Science, New Mexico State University, Las Cruces, NM, (3)New Mexico State University, Artesia, NM, (4)USDA-ARS, Maricopa, AZ
72. **Disease Resistance of Cotton Hybrids with Different Level of Total and Different Ratios of (+)- to (-)-Gossypol in Seeds**
Shadman Namazov¹, A. A. Bell², **Robert D. Stipanovic**², Abboskhon Marupov³, Zamira Golubenko⁴, Olga Veshkurova⁴, T. Rakhimov¹ and I. Amanturdiyev¹, (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)Uzbek Scientific – Research Institute of Crop Protection, Kibray District, Uzbekistan, (4)Institute of Bioorganic Chemistry, Tashkent, Uzbekistan
73. **Evaluating Cotton Seed Gland Initiation by Microscopy**
Jennifer L. Tonos and **Jodi A. Scheffler**, USDA-ARS Crop Genetics Research Unit, Stoneville, MS
74. **Establishment of Calibration Models of NIRS Analysis for Cottonseed Oil and Protein Contents and Mapping Related QTLs in Upland Cotton**
Xinlian Shen, Peng Xu, Tingting Guo, Xianggui Zhang and Wanchao Ni, Jiangsu Academy of Agricultural Sciences, Nanjing, China

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75. **Dryland and Irrigated Commercial Variety Testing in Central and South Texas in 2011**
Dawn M. Deno¹, Steve Hague¹, C. Wayne Smith² and Benjamin Beyer¹, (1)Texas A&M University, College Station, TX, (2)Texas A&M, College Station, TX
76. **Field Evaluation of Advanced Breeding Lines for Organic Cotton Production**
Dylan Q. Wann¹, Jane Dever², Mark D. Arnold² and Heather D. Flippin², (1)Texas AgriLife Research & Texas Tech University, Lubbock, TX, (2)Texas AgriLife Research, Lubbock, TX
77. **Analyzing the Components of Hybrid Cotton Yield and Its Relationship with Environment**
Priyanka Tyagi¹, Vasu Kuraparthi¹, Daryl T. Bowman¹, K. L. Edmisten¹, Fred M. Bourland², B. T. Campbell³, Dawn Fraser⁴ and Ted P. Wallace⁵, (1)North Carolina State University, Raleigh, NC, (2)University of Arkansas-NEREC, Keiser, AR, (3)USDA-ARS, Florence, SC, (4) Research, Monsanto Company, Hartsville, SC, (5)Mississippi State University, Mississippi State, MS
78. **Exploring Exotic Germplasm for Improving Lint Yield and Fiber Quality in Upland Cotton**
Linghe Zeng¹, W. R. Meredith², Efremer Bechere¹, J. Wu³ and B. T. Campbell⁴, (1)USDA-ARS, Stoneville, MS, (2)USDA, Stoneville, MS, (3) South Dakota State University, Brookings, SD, (4)USDA-ARS, Florence, SC
79. **Genetics of Ginning Efficiency in Two Crosses of Upland Cotton**
Efremer Bechere, J. Clif Boykin and Linghe Zeng, USDA-ARS, Stoneville, MS
80. **Association of DNA Markers with Important Fiber Traits in Upland Cotton**
 Sukumar Saha¹, **Sharof S. Egamberdiev**², J. Wu³, Johnie N. Jenkins¹, Jack C. McCarty¹, Dewayne Deng¹ and Ibrokhim Abdurakhmonov², (1)USDA-ARS, Crop Science Research Laboratory, Mississippi State, MS, (2)Institute of Genetics and Plants Experimental Biology, Tashkent, Uzbekistan, (3)South Dakota State University, Brookings, SD
81. **Mining and Analysis of Trichome Development Genes and Single Nucleotide Polymorphism Identification**
Xiaoping Jin, New Mexico State University, Las Cruces, NM
82. **Development of SNP Markers in Tetraploid Cotton Genomes by Haplotype Clustering**
Ramesh Buyyarapu, Shunxue Tang, Kanika Arora, Navin Elango, Ruihua Ren, Siva Kumpatla, Chandra Channabasavaradhya and David Meyer, Trait Genetics & Technologies, Dow AgroSciences, Indianapolis, IN
83. **Genome-Wide Gossypium SNP Development and Validation**
 Fei Wang¹, Amanda M. Hulse¹, Kevin Hoegenauer¹, **David M. Stelly**¹, Hamid Ashrafi², Allen Van Deynze² and John Yu³, (1)Texas A&M University, College Station, TX, (2)University of California-Davis, Davis, CA, (3)USDA-ARS, College Station, TX
84. **Molecular Confirmation of Gossypium Hirsutum Chromosome Substitution Lines and Interspecific F1 Hypoaneuploids**
 Sukumar Saha¹, David M. Stelly², Dwaine A. Raska², Amanda M. Hulse², Osman A. Gutierrez¹, **Makamov Abdusalom**³, V. Gotmare⁴, Fei Wang², Shivapriya Manchali², Johnie N. Jenkins¹ and Ibrokhim Abdurakhmonov³, (1)USDA-ARS, Crop Science Research Laboratory, Mississippi State, MS, (2)Texas A&M University, College Station, TX, (3)Institute of Genetics and Plants Experimental Biology, Tashkent, Uzbekistan, (4)Central Institute for Cotton Research, Nagpur, India

COTTON INSECT RESEARCH AND CONTROL CONFERENCE POSTERS

85. **Evaluation and Utilization of Resistance to Tarnished Plant Bug in Cotton - Survival of Nymphs on a Frego Bract Compared to a Nectariless Line in Field and Laboratory Trials**
Tina Gray Teague¹, K. Neeley¹ and Fred Bourland², (1)Arkansas State University - University of Arkansas Agricultural Experiment Station, State University, AR, (2)University of Arkansas - Northeast Research and Extension Center, Keiser, AR
86. **Chilli Thrips, Scirtothrips Dorsalis: A Potential Threat to Cotton Production in the USA**
Vivek Kumar¹, Dakshina. R. Seal¹, Garima Kakkar¹, Cindy L. McKenzie² and Lance S. Osborne³, (1)Tropical Research and Education Center, University of Florida, Homestead, FL, (2)US Horticultural Research Laboratory, ARS-USDA, Fort Pierce, FL, (3)Mid-Florida Research & Education Center, University of Florida, Apopka, FL
87. **Limited Options for Tarnished Plant Bug Management in Louisiana Cotton**
B. R. Leonard¹, K. Emfinger¹, T. S. Williams¹, J. Chapman¹ and J. T. Hardke², (1)LSU AgCenter, Macon Ridge Research Station, Winnsboro, LA, (2)Pioneer Hi-Bred, Union City, TN
88. **Managing Thrips Using Organically Approved Insecticides**
Monti Vandiver¹, David Kerns², Brant Baugh², Megha N. Parajulee³, Jane K. Dever³ and Mark D. Arnold³, (1)Texas AgriLife Extension Service, Farwell, TX, (2)Texas AgriLife Extension Service, Lubbock, TX, (3)Texas AgriLife Research, Lubbock, TX

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89. **Cotton Aphid Management and Impact on Yield and Lint Quality**
David L. Kerns, Texas AgriLife Extension Service, Lubbock, TX and Dustin Patman, Texas AgriLife Extension Service, Crosbyton, TX
90. **Evaluation of Conventional Cotton Varieties in Virginia**
D. Ames Herbert¹, Sean Malone¹, David Owens² and M. Arrington¹, (1)Virginia Tech, Suffolk, VA, (2)Virginia Tech, Tidewater AREC, Suffolk, VA
91. **Evaluation of Widestrike Cotton Injury From Early Season Herbicide x Insecticide Tank Mixes**
Sandy Steckel, Scott Stewart and Larry Steckel, The University of Tennessee, Jackson, TN
92. **Efficacy of BollgardII Cotton to Control Alabama Argillacea in Argentina**
Paula Bodrone¹, Jorge Bosch², Guillermo Videla¹, Ken Ferreira³ and Arce Sebastián¹, (1)Monsanto, Pergamino, Buenos Aires, Argentina, (2)Genética Mandiyú, Avia Terai, Chaco, Argentina, (3)Monsanto, Chesterfield, MO
93. **Performance of Sulfoxaflor Against Tarnished Plant Bugs in Louisiana**
Karla Emfinger¹, Jared Chapman¹, Shelby Williams¹, Jarrod Hardke², Melissa W. Siebert³ and Roger Leonard¹, (1)LSU AgCenter, Macon Ridge Station, Winnsboro, LA, (2)Pioneer Hi-Bred, Union City, TN, (3)Dow AgroSciences LLC, Greenville, MS
94. **Activity of the Selective Feeding Blocker Insecticide (Pymetrozine) on the Control of the Boll Weevil, Anthonomus Grandis, in Cotton**
Geraldo Papa, Fernando Juari Celoto, Ricardo Lopes Nanuci, Victor Basso Montoro, João Antonio Zanardi Jr and Roberta Kishita Stropa, Paulista State University - Unesp, Ilha Solteira-SP, Brazil
95. **Economic and Environmental Impacts of Control Cotton Pests by Using Biopesticides**
Shoil M. Greenberg, USDA-ARS, Weslaco, TX, John J. Adamczyk, USDA, ARS, BIRU, Weslaco, TX and Jaime J. Alejandro, ARS-USDA, Weslaco, TX
96. **Susceptibility of Bollworm and Tobacco Budworm Larvae to Selected Insecticides--2011 Update**
Gregory T. Payne and Thomas Cochran, University of West Georgia, Carrollton, GA
97. **Efficacy of Foliar Insecticides for Control of Heliothines in Conventional Cotton in Arkansas, 2011**
Jason Fortner, G. M. Lorenz, N. M. Taillon, C. K. Colwell, W. A. Plummer and B. Thrash, University of Arkansas Cooperative Extension Service, Little Rock, AR
98. **Efficacy of Treated Seed, Granular, and Foliar Insecticides Against Western Flower Thrips, Frankliniella Occidentalis, in Seedling Pima and Acala Cotton in the San Joaquin Valley**
Treanna Pierce, University of California, Shafter, CA, Larry D. Godfrey, University of California, Davis, CA and Ashleigh Pryor, University of Davis, Shafter, CA
99. **Efficacy of Selected Insecticides for Control of Plant Bugs in Arkansas**
N. M. Taillon, G. M. Lorenz, J Fortner, C. K. Colwell, W. A. Plummer and B Thrash, University of Arkansas Cooperative Extension Service, Little Rock, AR
100. **Control of Tarnished Plant Bug, Lygus Lineolaris, in Cotton with Transform in Arkansas**
W. A. Plummer, G. M. Lorenz, N. M. Taillon, J Fortner, C. K. Colwell and B Thrash, University of Arkansas Cooperative Extension Service, Little Rock, AR
101. **Using Tankmixes of Insecticides for Control of Plant Bugs in Cotton**
B. Thrash, G. M. Lorenz, N. M. Taillon, J Fortner, C. K. Colwell and W. A. Plummer, University of Arkansas Cooperative Extension Service, Little Rock, AR
102. **Performance of Selected In-Furrow and Foliar Insecticides for Managing Seedling Thrips**
J. David Griffin, P. Roberts, John J. Herbert and Michael Toews, University of Georgia, Tifton, GA
103. **Effect of Pymetrozine (Chess 500 WG) on the Floral Buds Protection and Adults Emergency of the Boll Weevil, Anthonomus Grandis, in Cotton**
Fernando Juari Celoto, Geraldo Papa, João Antonio Zanardi Jr, Victor Basso Montoro, Eduardo Barbosa and Victor Felipe Coleta, Paulista State University - Unesp, Ilha Solteira-SP, Brazil
104. **Potential of Organic Pesticides for Western Flower Thrips Management in Seedling Cotton: Effect on Plant Parameters**
Ram B. Shrestha, W. Owen McSpadden, Jane K. Dever, Mark D. Arnold, David L. Kerns and Megha N. Parajulee, Texas AgriLife Research and Extension Center, Lubbock, TX

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105. **Species Composition and Relative Abundance of Stink Bugs in Cotton and Other Crops in the Brazos River Bottom Production Area of Texas**
Charles P. C. Suh¹, John K. Westbrook¹, Jesus F. Esquivel² and Gretchen D. Jones³, (1)USDA-ARS, APMRU, College Station, TX, (2)U. S. Department of Agriculture, Agric. Res. Service, Areawide Pest Management Research Unit, College Station, TX, (3)USDA-ARS. APMRU, College Station, TX
106. **Summary of Stink Bug Insecticide Efficacy Trials (2006-2011) in Irwin County Georgia**
Phillip Edwards, University of Georgia, Ocilla, GA and Phillip Roberts, University of Georgia, Tifton, GA
107. **Investigating Injury Relationships Between Verde Plant Bugs Feeding On Cotton Bolls; Boll Age, Boll Diameter and Accumulated Degree-Days**
J. Scott Armstrong, Ksarc, USDA, ARS BIRU, Weslaco, TX, Michael Brewer, Corpus Christi AgriLife Research and Extension Center, Corpus Christi, TX, Roy D. Parker, Texas Agrilife Extension, Corpus Christi, TX, Raul Villanueva, Texas AgriLife Research and Extension Center-Weslaco, Weslaco, TX and John Adamczyk, Beneficial Insects Research Unit, Weslaco, TX
108. **Impact of Early-Season Fruit Loss on Cotton Yield and Lint Quality**
Tommy Doederlein¹, David L. Kerns², Brant Baugh² and Dustin Patman³, (1)Texas AgriLife Extension, Garden City, TX, (2)Texas AgriLife Extension Service, Lubbock, TX, (3)Texas AgriLife Extension Service, Crosbyton, TX
109. **Managing Bollworms and Fall Armyworms in Cotton on the Texas High Plains**
Dustin Patman¹, David L. Kerns², Manda Anderson³, Scott Russell⁴ and Brant Baugh², (1)Texas AgriLife Extension Service, Crosbyton, TX, (2)Texas AgriLife Extension Service, Lubbock, TX, (3)Texas AgriLife Extension Service, Seminole, TX, (4)Texas Agrilife Extension, Brownfield, TX
110. **Boll Wall Thickness in Four Cotton Species and Susceptibility to Stink Bug Feeding**
Jesus F. Esquivel, U. S. Department of Agriculture, Agric. Res. Service, Areawide Pest Management Research Unit, College Station, TX and Lori L. Hinze, U. S. Department of Agriculture, Agric. Res. Service, Crop Germplasm Research Unit, College Station, TX
111. **Utilizing Varietal Resistance to Manage Tarnished Plant Bugs in Cotton**
G.E. Studebaker, Cooperative Extension Service University of Arkansas, Keiser, AR and Fred Bourland, University of Arkansas, Keiser, AR
112. **Feeding Injury to Cotton Caused by Lygus hesperus Nymphs and Prereproductive Adults**
W. Rodney Cooper and Dale W. Spurgeon, USDA-ARS-WICSRU, Shafter, CA
113. **Glandless Cotton in New Mexico: Weighing the Risk of Insect Losses**
Jane Breen Pierce, Andrew Garnett and Patricia Yates Monk, New Mexico State University, Artesia, NM
114. **Spatial Temporal Analysis of Tarnished Plant Bug (*Lygus lineolaris* Palisot de Beauvois) Sample Counts**
Patrick J. English¹, J. Gore¹, D. R. Cook¹ and Jeffrey L. Willers², (1)Mississippi State University, Stoneville, MS, (2)USDA-ARS-GAPARU, Mississippi State, MS
115. **Cotton Fleahopper and Its Damage to Cotton As Affected by Plant Water Stress and Insect Seasonality**
Michael J. Brewer¹, Megha N. Parajulee², Darwin J. Anderson¹ and Ram B. Shrestha², (1)Corpus Christi AgriLife Research and Extension Center, Corpus Christi, TX, (2)Texas AgriLife Research and Extension Center, Lubbock, TX
116. **Growth and Developmental Response of Cotton Cultivars to Different Levels of Lygus Infestation**
Stanley C. Carroll, Ram B. Shrestha, W. Owen McSpadden, Anup Bastola and **Megha N. Parajulee**, Texas AgriLife Research and Extension Center, Lubbock, TX
117. **Temperature Effects on Release Rate of Grandlure From Commercial Dispensers**
John K. Westbrook and **Charles P.-C. Suh**, USDA-ARS, APMRU, College Station, TX
118. **Quantification of Cotton Plant Growth Response to Varying Levels of Cotton Fleahopper Infestations**
Megha N. Parajulee¹, Ram B. Shrestha¹, W. Owen McSpadden¹, Yubin Yang², Llyod T. Wilson², Stanley C. Carroll¹ and Fa-Jun Chen¹, (1) Texas AgriLife Research and Extension Center, Lubbock, TX, (2)Texas AgriLife Research, Beaumont, TX
119. **Improved Management of Cotton Aphids in Cotton in the San Joaquin Valley of California: Biology and Implications of Overwintering Sexual Populations**
Larry D. Godfrey, University of California, Davis, CA, Elizabeth Grafton-Cardwell, ANR Lindcove Research and Extension Center and Univ. of California-Riverside, Exeter, CA, Kris Lynn-Patterson, Univ. of California Kearney Agricultural Center, Parlier, CA, Kristine Godfrey, Univ. of California Davis Contained Research Facility, Davis, CA, Treanna Pierce, University of California, Shafter, CA, Evan Goldman, Univ. of California-Davis, Davis, CA and Ashleigh Pryor, Univ of Davis, Shafter, CA, Shafter, CA

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120. **Comparison of Sample Methods and Sample Plans for Thrips in Cotton**
Mark Muegge¹, David Kerns², Megha Parajulee², Monti Vandiver³, Warren Multer⁴, Dustin Patman⁵, Scott Russell⁶ and Kerry Siders⁷, (1) Texas A&M University, Fort Stockton, TX, (2) Texas A&M University, Lubbock, TX, (3) Texas A&M University, Muleshoe, TX, (4) Texas A&M University, Garden City, TX, (5) Texas A&M University, Crosbyton, TX, (6) Texas A&M University, Brownfield, TX, (7) Texas A&M University, Levelland, TX
121. **Status of Pink Bollworm Populations in the Southern Plains of Texas and New Mexico - Outside the Pink Bollworm Eradication Zone**
Charles Allen, Texas AgriLife Extension, San Angelo, TX, Jane Breen Pierce, New Mexico State University, Artesia, NM, Manda Anderson, Texas AgriLife Extension Service, Seminole, TX, Scott A. Russell, Texas AgriLife Extension, Brownfield, TX, Tommy Doederlien, Texas AgriLife Extension, Lamesa, TX and Warren L. Multer, Texas AgriLife Extension, Garden City, TX

COTTON QUALITY MEASUREMENTS CONFERENCE POSTERS

122. **Sampling Variance within West African Cotton Bales**
Modeste Aboe¹, Jean-Paul Gourlot¹, Eric Goze¹ and Artan Sinoimeri², (1) CIRAD, Montpellier, France, (2) LPMT, Mulhouse, France
123. **Exploring NIR Technique in Rapid Prediction of Cotton Trash Components**
Yongliang Liu, Devron Thibodeaux and Gary Gamble, USDA-ARS-SAA, Cotton Quality Research Station, Clemson, SC
124. **Relationship Between Individual Fiber Length and Linear Density within-Sample**
Roji Manandhar, Eric F. Hequet, Nouredine Abidi, Brendan Kelly, Farzad Hosseinali and Dev Paudel, Fiber and Biopolymer Research Institute - Dept. Plant & Soil Science, Texas Tech University, Lubbock, TX
125. **Determination of Single Fibers Tensile Properties: Relationships with Bundle Strength, Maturity, Length Distribution, and Fiber Breakage**
Farzad Hosseinali, Eric F. Hequet, Nouredine Abidi, Brendan Kelly, Roji Manandhar and Dev Paudel, Fiber and Biopolymer Research Institute - Dept. Plant & Soil Science, Texas Tech University, Lubbock, TX
126. **Quantification of Seed Oil and Protein within Diverse Cotton (*Gossypium sp.*) Germplasm by Time-Domain Nuclear Magnetic Resonance (TD-NMR)**
 Patrick Horn¹, Shana Brewer¹, Joel Robinson¹, Roberto Rodriguez¹, Zhenhua Shang¹, Nick Wheeler¹, Lori L. Hinze², Richard G. Percy² and **Kent D. Chapman**¹, (1) University of North Texas, Denton, TX, (2) USDA-ARS, Southern Plains Agricultural Research Center, Crop Germplasm Research Unit, College Station, TX

COTTON SOIL MANAGEMENT AND PLANT NUTRITION CONFERENCE POSTERS

127. **Evaluation of Cottons Ability to Recover From Early Season Nitrogen Stress**
 Emily Rutto, **Daryl Brian Arnall** and Bill Raun, Oklahoma State University, Stillwater, OK
128. **The Effect of Brassica and Rye Cover Crop Planting Designs on Soil Properties, Cover Crop Biomass, and Seedcotton Yield In Central Alabama**
John L. Snider¹, Randy L. Raper¹ and Eric B. Schwab², (1) USDA-ARS, Booneville, AR, (2) USDA-NRCS, Auburn, AL
129. **Zone Management Strategies for Sodic/Saline Soils**
Wesley M. Porter¹, Randy K. Boman², Randy Taylor¹ and Shane Osborne³, (1) Oklahoma State University, Stillwater, OK, (2) Oklahoma State University Southwest REC, Altus, OK, (3) Oklahoma State University, Altus, OK
130. **Fertilization of Cotton on Blackland Prairie Soils in Alabama**
Charles Mitchell¹, Gobena Huluka¹, R.P. Yates² and James L. Holliman³, (1) Auburn University, Auburn, AL, (2) Marengo Co. Extension System, Linden, AL, (3) Alabama Agricultural Experiment Station, Marion Junction, AL
131. **The Centennial Rotation - Cotton/Corn/Soybean Production in the Midsouth (2004-2011)**
M. Wayne Ebelhar and Davis R. Clark, Mississippi State University, Stoneville, MS
132. **The Centennial Rotation - Cotton/Corn/Soybean Systems Effects on Nutrient Uptake and Removal in the Midsouth (2004-2011)**
 Davis R. Clark and **M. Wayne Ebelhar**, Mississippi State University, Stoneville, MS
133. **Phosphorus Fertilization From Manure Biochars**
Patrick G. Hunt, Keri B. Cantrell, Jarrod O. Miller and Phil J. Bauer, USDA-ARS, Florence, SC
134. **Effect of Urease – Nitrification Inhibitors on Cotton Yield, Fiber Quality and Growth**
 D. L. Coker, M. L. McFarland, G.D. Morgan and **D.A. Mott**, Texas AgriLife Extension Service, College Station, TX

TECHNICAL CONFERENCES PROGRAM

TECHNICAL CONFERENCES POSTER BOARD SESSION

135. **Evaluation of Precision Litter Application Practices for Cotton Production and Soil Quality**
Ardeshir Adeli, Johnie N. Jenkins, John Brooks and Haile Tewolde, Crop Science Research Lab, GAPARU, Mississippi State, MS
136. **Determination of Cotton Nitrogen Status From Digital Image Analysis**
Tyson B. Raper¹, Upton Siddons¹, Larry Purcell¹, Derrick M. Oosterhuis¹ and Morteza Mozaffari², (1)University of Arkansas, Fayetteville, AR, (2)University of Arkansas Department of Soil, Crops, and Environmental Sciences, Soil Testing Laboratory, Marianna, AR

COTTON WEED SCIENCE RESEARCH CONFERENCE POSTERS

137. **Allelopathy: Hope or Hype?**
Lynn M. Sosnoskie¹, Theodore M. Webster², Timothy L. Grey¹ and A. Stanley Culpepper¹, (1)University of Georgia, Tifton, GA, (2)USDA-ARS, Tifton, GA
138. **Parameterization of the Simulation Model to Predict the Evolution of Glyphosate Resistance in Barnyardgrass in Cotton**
Muthukumar V. Bagavathiannan¹, Jason K. Norsworthy¹, Kenneth L. Smith² and Paul Neve³, (1)University of Arkansas, Fayetteville, AR, (2)University of Arkansas - Division of Agriculture, Monticello, AR, (3)Wellesbourne, United Kingdom
139. **Evaluation of Layby Pro Versus Standard Layby Programs for Palmer Amaranth Control in Cotton**
Dilpreet Singh Riar, Jason Norsworthy and D. B. Johnson, University of Arkansas, Fayetteville, AR
140. **Weed Management in Dicamba/Glufosinate-Tolerant Cotton in the Texas High Plains**
J. L. Spradley, J. W. Keeling, P. A. Dotray and J. D. Reed, Texas AgriLife Research, Lubbock, TX
141. **Volatility of Colex-D Technology As Compared with Other Auxin Herbicides**
Amber N. Eytcheson¹, D. B. Reynolds¹, J. T. Irby¹, L.E. Steckel², L.C. Walton³, R.A. Haygood⁴, D.T. Ellis⁵ and J. S. Richburg⁶, (1)Mississippi State University, Mississippi State, MS, (2)The University of Tennessee, Jackson, TN, (3)Dow AgroSciences, Tupelo, MS, (4)Dow AgroSciences LLC, Collierville, TN, (5)Dow AgroSciences LLC, Greenville, MS, (6)Dow AgroSciences, Headland, AL
142. **Weed Management Systems in Cotton in the Texas High Plains**
P. A. Dotray¹, J. W. Keeling², L. V. Gilbert² and L. M. Etheredge³, (1)Texas Tech University, AgriLife Research, and Texas AgriLife Extension Service, Lubbock, TX, (2)Texas AgriLife Research, Lubbock, TX, (3)Monsanto, Llano, TX
143. **Potential Weed Control Antagonism in Glyphosate/Glufosinate Tank Mixes**
J. D. Reed, J. W. Keeling and P. A. Dotray, Texas AgriLife Research, Lubbock, TX
144. **Preplant Horseweed Control in Reduced Tillage Cotton in the Texas High Plains**
T. S. Morris¹, P. A. Dotray², J. W. Keeling³ and L. V. Gilbert³, (1)Texas Tech University, Lubbock, TX, (2)Texas Tech University, AgriLife Research, and Texas AgriLife Extension Service, Lubbock, TX, (3)Texas AgriLife Research, Lubbock, TX
145. **Performance of Sharpen in Oklahoma**
Shane Osborne and Randy Boman, Oklahoma State University Southwest REC, Altus, OK
146. **Crop Safety Study in WideStrike Cotton**
Steven D. Wright, Gerardo Banuelos, Katherine A. Wilson, Nancy Loza, Sara J. Avila and Jamie K. Changala, University of California Cooperative Extension, Tulare County, Tulare, CA
147. **Palmer Amaranth and Pitted Morningglory Control in Dicamba-Tolerant Cotton**
Michael W. Marshall, Clemson University, Blackville, SC
148. **Weed Management and Cotton Tolerance with Warrant in Louisiana Cotton**
D. O. Stephenson, LSU AgCenter, Alexandria, LA and **D.K. Miller**, LSU AgCenter, St. Joseph, LA
149. **Weed Management and Crop Tolerance with Warrant in Louisiana Cotton**
D. K. Miller, LSU AgCenter, St. Joseph, LA and D. O. Stephenson, LSU AgCenter, Alexandria, LA
150. **The Evaluation of Warrant in Cotton Weed Control Programs**
Reed C. Storey¹, D. B. Reynolds¹, D. M. Dodds², Jason A. Bond³, J. Trent Irby¹, Chad L. Smith¹ and Amber N. Eytcheson¹, (1)Mississippi State University, Mississippi State, MS, (2)Mississippi State University, Starkville, MS, (3)Mississippi State University, Stoneville, MS
151. **Perennial Grass Control in Strip-till Cotton in the Southern Rolling Plains**
David R. Drake, Texas AgriLife Extension, San Angelo, TX
152. **Evaluation of Crop Safety and Enhanced Weed Control with Fierce™ Herbicide in Conservation-Tillage Cotton**
Jeffrey D. Smith, Frank Carey and John Cranmer, Valent U.S.A. Corporation, Peachtree City, GA

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