

Beltwide Cotton Conferences

January 7-10, 2013 · Marriott Rivercenter and Riverwalk Hotels · San Antonio, Texas



National
Cotton
Council
OF AMERICA





Beltwide Cotton Conferences

The Beltwide Cotton Conferences (BWCC) speed the transfer of new technology to U.S. cotton producers and other industry members with the goal of strengthening U.S. cotton's competitive position in the world 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 web site at <http://beltwide.cotton.org>

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

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

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General Information

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

Registration

Early registration ends December 17, 2012. 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 17th

NCC or Cotton Foundation Members	\$175.00
Non-Members	\$300.00
Students	\$ 80.00
Research, Extension, Associations, Consultants	\$175.00

Registration Beginning December 18th

NCC or Cotton Foundation Members	\$200.00
Non-Members	\$350.00
Students	\$100.00
Research, Extension, Associations, Consultants	\$200.00

On-Site

Already registered?

Go to the Beltwide Registration Desk, located in the Marriott Rivercenter, Level 3, to print your name tag.

Not registered?

Go to the Beltwide Registration Desk located in the Marriott Rivercenter, Level 3, 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.

Exhibit Hours:

Tuesday, January 8 Noon – 6:00 p.m.
Wednesday, January 9 10:00 a.m. – 4:00 p.m.

Continuing Education and Certification Credits

Applications and credit information will be available at the CEU desk in the Marriott Rivercenter, Level 3, Monday - Thursday.

Cotton Crafts Store

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

Open:

Monday, January 7 10:00 a.m. - 5:00 p.m.
Tuesday, January 8 8:00 a.m. - 5:00 p.m.
Wednesday, January 9 8:00 a.m. - 5:00 p.m.
Thursday, January 10 8:00 a.m. - 1:00 p.m.

Hotel Information

Marriott Rivercenter Hotel

101 Bowie Street
San Antonio, TX 78205
210-223-1000

Marriott Riverwalk Hotel

899 E. Market Street
San Antonio, TX 78205
210-224-4555

Rates*

\$160 single/double
*Applicable taxes not included;
based on group rate availability.

Parking*

Valet \$33/day
Self \$25/day
*Taxes not 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

San Antonio International Airport (SAT) is located approximately 8 miles from the Marriott Rivercenter and Riverwalk Hotels. These hotels do not provide shuttle service.

Alternate transportation:

Airport Express (reservation required): (210) 281-9900
Fee: \$19.25 USD (one way) \$34.50 USD (roundtrip)
Estimated taxi fare: \$25.00 USD (one way)

Dining/Entertainment

For individual and group reservations at San Antonio's most enjoyable restaurants, stop by the **Creative Dining & Entertainment** booth located near the conference registration desk.

Telephone: (210) 618-5279

Fax: (210) 314-2236

Email: skylar@creativedining.net

Beltwide Contacts

Topic	Contact	Phone	Fax	Email
Coordinator	Bill Robertson	(901) 274-9030	(901) 725-0510	brobertson@cotton.org
Meeting Arrangements	Ellen Ferrell	(901) 274-9030	(901) 725-0510	eferrell@cotton.org
	Debbie Richter	(901) 274-9030	(901) 725-0510	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	(901) 274-9030	(901) 725-0510	dparker@cotton.org
	Debbie Richter	(901) 274-9030	(901) 725-0510	drichter@cotton.org
Media	Marjory Walker	(901) 274-9030	(901) 725-0510	mwalker@cotton.org
Air Travel/ Rental Car	Mary Saemenes	(888) 232-1738 (901) 762-7018	(901) 766-0126	msaemenes@traveleppium.com

Schedule of Events

RW - Marriott Riverwalk RC - Marriott Rivercenter

Monday, January 7		
8:00a - 12:00p	Extension Cotton Specialist Meeting (By Invitation Only)	RC – Conference Rooms 17-18
8:00a - 10:00p	Speaker Practice Room	RC – Conference Room 5
9:30a - 6:30p	Creative Dining Desk (restaurant and entertainment reservations)	RC – Foyer – Level 3
10:00a - 5:00p	Confex Presentation Downloading Room	RC – Conference Room 15
10:00a - 5:00p	Registration Desk NCC Membership Desk CEU Desk Internet Café Wireless Hotspot	RC – Foyer – Level 3
10:00a - 5:00p	Cotton Crafts Store	RC – Salon E Foyer – Level 3
10:00a - 5:00p	News Room	RC – Conference Rooms 13-14
12:00p - 1:00p	Consultants Conference Luncheon	RW – Salons E-F
1:00p - 6:00p	Consultants Conference General Session	RW – Salons A-D
3:00p - 5:00p	South Texas Cotton & Grain Association Annual Meeting	RC – Conference Room 12
6:30p - 8:30p	Bayer CropScience Reception	RC – Salons H-L
Tuesday, January 8		
7:00a - 8:00a	Continental Breakfast	Lila Cockrell Theater Foyer (H. B. Gonzalez Convention Center)
7:00a - 10:00p	Speaker Practice Room	RC – Conference Room 5
7:30a - 5:00p	Registration Desk NCC Membership Desk CEU Desk Internet Café Wireless Hotspot	RC – Foyer – Level 3
7:30a - 5:30p	Confex Presentation Downloading Room	RC – Conference Room 15
8:00a - 9:30a	Spouse Hospitality	RC – Sazo's Restaurant – Level 2
8:00a - 10:00a	Cotton Production Conference	Lila Cockrell Theater (H.B. Gonzalez Convention Center)
8:00a - 5:00p	News Room	RC – Conference Rooms 13-14
8:00a - 5:00p	Cotton Crafts Store	RC – Salon E Foyer – Level 3
9:30a - 6:30p	Creative Dining Desk (restaurant and entertainment reservations)	RC – Foyer – Level 3

Schedule of Events

RW - Marriott Riverwalk RC - Marriott Rivercenter

10:00a - 10:30a	Coffee Break	RC – Foyer – Level 3
10:30a - 12:00p	Conventional Cotton: Back to The Future II?	RC – Salon M
10:30a - 12:00p	You are Now the Media: Social Media in Production Agriculture	RC – Salons K-L
10:30a - 12:00p	Extension Cotton Specialist Workshop	RC – Conference Rooms 17-18
10:30a - 12:00p	Emergence of Target Spot & Implications for Cotton Production in the Southeastern U.S.	RC – Conference Rooms 1-3
12:00p - 1:30p	Cotton Grower Beltwide Luncheon (By Invitation Only)	RW – Salon D
12:00p - 6:00p	Cotton Foundation Technical Exhibits	RC – Salons A-F and Salon H
12:00p - 6:00p	Poster Board Session	RC – Salon H
12:15p - 1:15p	Technical Chairpersons Meeting & Lunch	RC – Conference Room 7
1:30p - 6:00p	Innovations in Cotton Irrigation Management	RC – Salons I-J
1:30p - 6:00p	New Developments from Industry	RC – Salon M
1:30p - 6:00p	Cotton Options Workshop	RC – Conference Rooms 1-3
1:30p - 6:00p	Practical and Profitable Precision Agriculture Practices	RC – Conference Rooms 17-18
2:00p - 4:00p	Coffee Break-Cotton Foundation Technical Exhibits	RC – Salons A-E and Salon H
3:00p - 4:30p	National Cotton Variety Testing Committee (By Invitation Only)	RC – Conference Room 7
3:30p - 4:00p	Coffee Break	RC – Foyer – Level 3
4:00p - 5:00p	Cotton Germplasm Committee (CGC) Meeting	RW – Bowie
5:00p - 6:00p	RBTN Regional Breeders Testing Network	RW – Travis
Wednesday, January 9		
6:30a - 8:00a	Farm Press/Cotton Foundation High Cotton Awards Breakfast (By Invitation Only)	RC – Salons K-L
7:00a - 10:00p	Speaker Practice Room	RC – Conference Room 5
7:30a - 5:00p	Registration Desk NCC Membership Desk CEU Desk Internet Café Wireless Hotspot	RC – Foyer – Level 3
7:30a - 5:30p	Confex Presentation Downloading Room	RC – Conference Room 15
8:00a - 9:30a	Spouse Hospitality	RC – Sazo's Restaurant – Level 2
8:00a - 10:00a	Cotton Soil Management and Plant Nutrition Special Session – Fertilizer Stabilizers	RC – Salon M
8:00a - 10:00a	Cotton Weed Science Research Special Session – Weed Management: Future Technologies and Tools	RW – Salon C
8:00a - 10:00a	Cotton Insect Research and Control Roundtable	RC – Salon I
8:00a - 10:05a	Cotton Agronomy & Physiology Special Session – Seed Quality, Agronomy & Physiology	RC – Conference Rooms 1-3
8:00a - 5:00p	News Room	RC – Conference Rooms 13-14
8:00a - 5:00p	Cotton Crafts Store	RC – Salon E Foyer – Level 3
9:30a - 6:30p	Creative Dining Desk (restaurant and entertainment reservations)	RC – Foyer – Level 3
10:00a - 10:30a	Coffee Break	RC – Grand Ballroom Foyer RW – Ballroom Foyer
10:00a - 4:00p	Cotton Foundation Technical Exhibits	RC – Salons A-F and Salon H
10:00a - 10:00p	Poster Board Session	RC – Salon H
10:30a - 12:00p	Cotton Economic Outlook Symposium	RW – Salon C
10:30a - 12:00p	Cotton Improvement	RW – Salon D
10:30a - 12:00p	Improve Your Cotton IQ	RC – Salon M
10:30a - 12:00p	Cotton Utilization Conference: Expanding Cotton Utilization through Research and Education	RC – Conference Rooms 17-18
1:00p - 6:00p	Cotton Insect Research & Control Conference – Session B	RC – Salon J

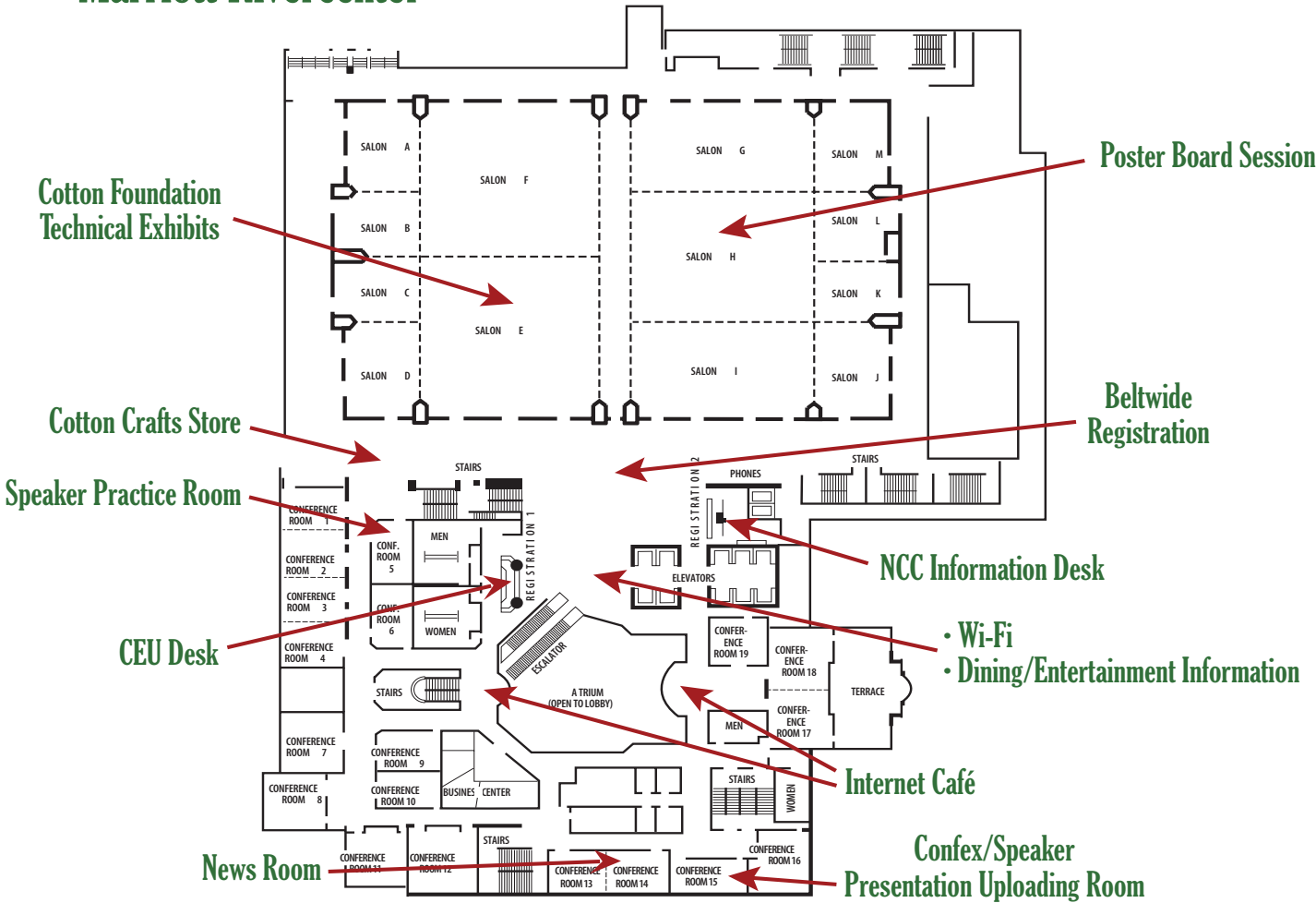
Schedule of Events

RW - Marriott Riverwalk RC - Marriott Rivercenter

1:30p - 5:15p	Cotton Engineering-Systems Conference	RW – Salons E-F
1:30p - 5:30p	Cotton Ginning Conference	RW – Salon D
1:30p - 5:30p	Cotton Utilization Conference: Cotton Fabric Chemistry, Nonwovens, & Products Symposium	RC – Conference Room 8
1:30p - 5:30p	Cotton Quality Measurements Conference	RC – Conference Room 12
1:30p - 5:30p	Cotton Disease Council	RC – Conference Rooms 1-3
1:30p - 5:30p	Cotton Economics and Marketing Conference	RW – Salon C
1:30p - 5:45p	Cotton Insect Research & Control Conference – Session A	RC – Salon I
1:30p - 6:00p	Cotton Improvement Conference	RW – Salons A-B
1:30p - 6:00p	Cotton Agronomy & Physiology Conference – Session A	RC – Salon K
1:30p - 6:00p	Cotton Weed Science Research Conference	RC – Conference Rooms 17-18
1:30p - 6:15p	Cotton Soil Management & Plant Nutrition Conference	RC – Salon M
2:00p - 6:00p	Cotton Agronomy & Physiology Conference - Session B	RC – Salon L
2:30p - 3:30p	Coffee Break – Exhibits	RC – Salons A-F and Salon H
3:00p - 4:00p	The Cotton Research and Promotion Program Press Event (By Invitation Only)	RC – Conference Room 7
3:15p - 4:00p	Coffee Break-Poster Board Session	RC – Salon H
5:00p - 6:00p	Journal of Cotton Science Editorial Board	RW – Travis
5:30p - 6:15p	Cotton Industry Support Group	RW – Salon D
6:30p - 9:00p	Joint Cotton Breeding Committee	RW – Bowie
Thursday, January 10		
7:00a - 3:00p	Speaker Practice Room	RC – Conference Room 5
7:30a - 12:00p	Registration Desk NCC Membership Desk CEU Desk Internet Café Wireless Hotspot	RC – Foyer – Level 3
8:00a - 9:30a	Spouse Hospitality	RC – Sazo's Restaurant – Level 2
8:00a - 10:00a	Cotton Ginning Conference	RW – Salon D
8:00a - 10:00a	Cotton Engineering-Systems Conference	RW – Salons E-F
8:00a - 10:00a	Cotton Agronomy & Physiology Conference – Session A	RC – Salon K
8:00a - 10:00a	Cotton Agronomy & Physiology Conference – Session B	RC – Salon L
8:00a - 12:00p	Cotton Disease Council	RC – Conference Rooms 1-3
8:00a - 12:00p	Poster Board Session	RC – Salon H
8:00a - 12:00p	Cotton Economics and Marketing Conference	RW – Salon C
8:00a - 12:00p	Cotton Insect Research & Control Conference – Session A	RC – Salon I
8:00a - 12:00p	Cotton Insect Research & Control Conference – Session B	RC – Salon J
8:00a - 12:00p	Cotton Weed Science Research Conference	RC – Conference Rooms 17-18
8:00a - 12:00p	Cotton Utilization Conference : Textile Technology Symposium	RC – Conference Room 8
8:00a - 1:00p	Cotton Crafts Store	RC – Salon E Foyer – Level 3
8:00a - 1:00p	News Room	RC – Conference Rooms 13-14
8:00a - 3:00p	Cotton Improvement Conference	RW – Conference Rooms A-B
8:30a - 10:00a	Cotton Quality Measurements	RC – Conference Room 12
10:00a - 10:30a	Coffee Break	RC & RW Ballroom Foyers
10:30a - 12:00p	Joint Session: Engineering Systems /Ginning Conferences	RW – Salon D
1:00p - 6:00p	WEA60- National Resistance Management Work Group (By Invitation Only)	RC – Conference Room 7

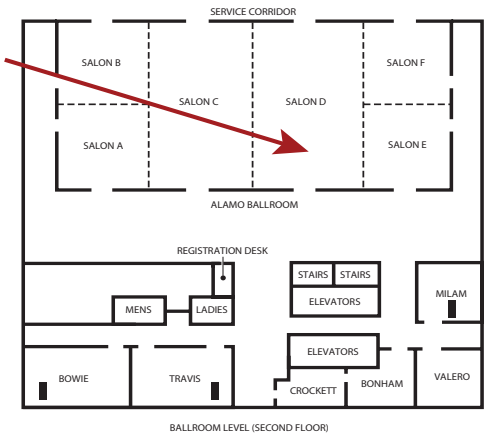
Meeting Room Floor Plans

Marriott Rivercenter



Consultants Conference Monday, 1-6 PM

Marriott Riverwalk



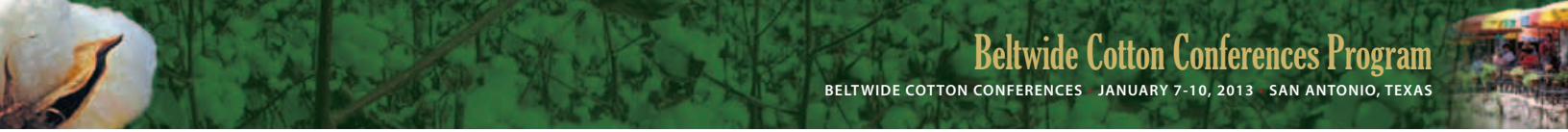
H.B. Gonzalez Convention Center

Cotton Production Conference
(General Session)
Lila Cockrell Theatre
Tuesday, 8-10 AM

San Antonio Area Map

Schedule / Maps





Beltwide Cotton Conferences Program

Scheduling Tools

Online Scheduler

Beltwide Cotton Conferences attendees may use the Online Scheduler for planning. This useful tool is available on the internet at <http://ncc.confex.com/ncc/2013/webprogram/start.html>. Users are not required to log in for this tool. The Online Scheduler can be used to view session details. The Online Scheduler is also searchable, so feel free to search for topics or presenters in your field of interest. Attendees who desire to save a schedule to their own computer/PDA or print a hard copy should use the Beltwide's Personal Scheduler.

Personal Scheduler

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/2013/schedule/index.cgi>. By using this handy tool, attendees can plan their daily activities so that they get the most from their Beltwide experience. The links in the scheduler allow attendees to browse the program, search for particular people/events of interest, and view abstracts/sessions/etc. The Beltwide's Personal Scheduler can also be used to track events/session the user may choose NOT to attend. Often attendees discover that they cannot be in two places at the same time and the Personal Scheduler serves as a useful tool that allows them to go back and check on an event/session of interest. In addition the flexible scheduler allows users to add other events not in the official program to their personal schedule. In other words attendees may use the tool to track meetings and engagements of their own making. Once an attendee builds their personal scheduler, they may save their personal schedule to their own computer/PDA or print a hard copy.

6th Annual Cotton Consultants Conference

Monday, January 7, 2013

Consultants Lunch

Salons E-F (Marriott Riverwalk Hotel) - 12:00 PM-1:00 PM

Consultants Session

Salons A-D (Marriott Riverwalk Hotel) - 1:00 PM-6:00 PM

Presiding: Paul Pilsner

Welcome - Bill Robertson, National Cotton Council, Cordova, TN

1:00 PM Irrigation Update

Pivot and Drip Irrigation Issues

Jim Bordovsky, Texas Agricultural Experiment Station, Plainview, TX

2:00 PM Insecticide Update

Summary of Insecticide Performance Surveys From the U.S. Cotton Belt

Jeff Gore, Mississippi State University, Stoneville, MS

3:00 PM Break

3:30 PM Second Generation of Weed Resistance Management Managing New Technologies

Larry Steckel, The University of Tennessee, Jackson, TN

Application Technology

Daniel B. Reynolds, Mississippi State University, Mississippi State, MS

Roundup Ready Technology Is Effective and Sustainable When Integrating Heavy Rye Cover Crops Into the Management System

A. Stanley Culpepper, University of Georgia, Tifton, GA and Robert L. Nichols, Cotton Incorporated, Cary, NC

Utilizing Crop Rotation As a Resistance Management Tool

Jason A. Bond, Mississippi State University, Stoneville, MS

Weed Management in the Absence of a Crop

Daniel O. Stephenson, LSU AgCenter, Alexandria, LA

5:00 PM Industry Update from Sponsors

6:00 PM Adjourn

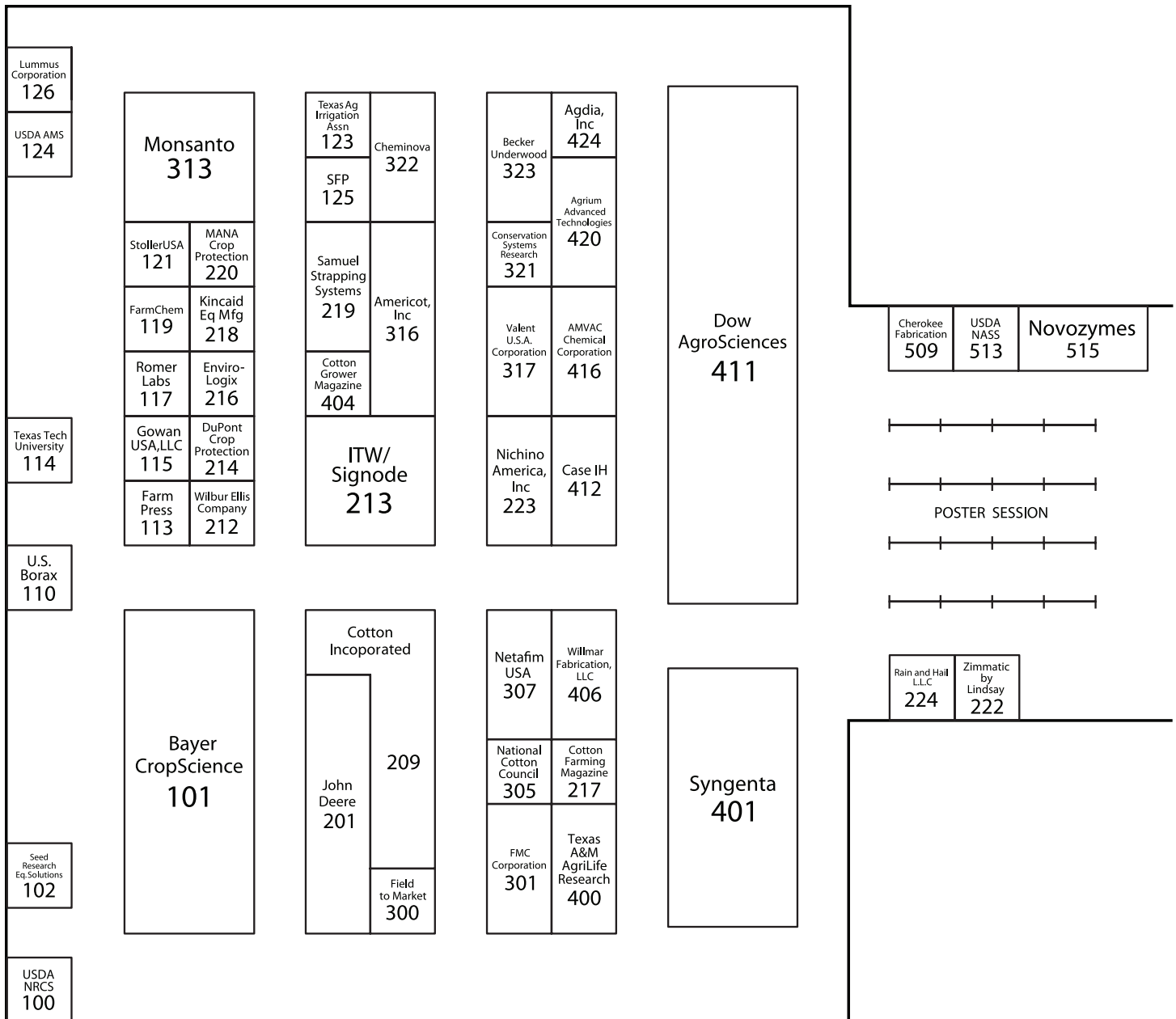
Cotton Foundation Technical Exhibits

Marriott Rivercenter Ballroom - Level 3

Booth Number	Company
424	Agdia, Inc.
420	Agrium Advanced Technologies
316	Americot, Inc.
416	AMVAC Chemical Corporation
101	Bayer CropScience
323	Becker Underwood
412	Case IH
322	Cheminova
509	Cherokee Fabrication
321	Conservation Systems Research
217	Cotton Farming Magazine
404	Cotton Grower Magazine
209	Cotton Incorporated
411	Dow AgroSciences
214	DuPont Crop Protection
216	EnviroLogix, Inc.
113	Farm Press
119	FarmChem
300	Field to Market, The Keystone Alliance for Sustainable Agriculture
301	FMC Corporation
115	Gowan USA, LLC
213	ITW/Signode
201	John Deere
218	Kincaid Equipment Manufacturing
126	Lummus Corporation
220	MANA Crop Protection
313	Monsanto
305	National Cotton Council
307	Netafim USA
223	Nichino America, Inc.
515	Novozymes
224	Rain and Hail L.L.C.
117	Romer Labs
219	Samuel Strapping Systems
102	Seed Research Equipment Solutions
125	SFP
121	StollerUSA
401	Syngenta
400	Texas A&M AgriLife Research
123	Texas Agricultural Irrigation Association
114	Texas Tech University
110	U.S. Borax, A Rio Tinto Company
513	USDA National Agricultural Statistics Service
124	USDA, AMS, Cotton & Tobacco Programs
100	USDA-Natural Resources Conservation Service (NRCS)
317	Valent U.S.A. Corporation
212	Wilbur Ellis Company
406	Willmar Fabrication, LLC
222	Zimmatic by Lindsay

Cotton Foundation Technical Exhibits

Marriott Rivercenter Ballroom - Level 3



Technical Exhibits

58th Annual Beltwide Cotton Production Conference

Tuesday, January 8, 2013

Tuesday Morning

Lila Cockrell Theatre (Henry B. Gonzalez Convention Center) - 8:00 AM-10:00 AM

8:00 AM Introductory Remarks - Chuck Coley, Chairman, National Cotton Council, Vienna, GA

8:10 AM Cotton Belt Weather Patterns
John Nielsen-Gammon, Texas A&M University, College Station, TX

8:30 AM 2012 in Review
Gaylon Morgan, Texas A&M AgriLife Extension Service, College Station, TX

8:50 AM Texas Herbicide Resistance Update
Paul Baumann, Texas AgriLife Extension Service, College Station, TX

9:10 AM Washington Update
Mark Lange, National Cotton Council, Cordova, TN

9:30 AM Cotton's 2013 Market Outlook
Joe Nicosia, Executive Vice President of Louis Dreyfus Commodities, Cordova, TN

9:50 AM Closing Remarks - Kenneth Hood, Gunnison, MS

10:00 AM Adjourn

58th Annual Beltwide Cotton Production Conference

Workshops and Seminars

Tuesday, January 8, 2013

Tuesday Morning

CONVENTIONAL COTTON: BACK TO THE FUTURE II?

Salon M (Marriott Rivercenter Hotel) - 10:30 AM-12:00 PM

10:30 AM Introduction to Conventional Cotton Workshop
Fred Bourland, University of Arkansas - Northeast Research and Extension Center, Keiser, AR

10:35 AM Producing Conventional Cotton Again – an Agronomist's Perspective
Dan Fromme, Texas AgriLife Extension, Corpus Christi, TX

10:50 AM Integrated Pest Management in the Transgenic Era
Charles Allen, Texas AgriLife Extension, San Angelo, TX

11:05 AM Weed Management in Conventional Texas Cotton
Paul Baumann, Texas AgriLife Extension, College Station, TX

11:20 AM Economics of Conventional Cotton Production
John R. Robinson, Texas A&M University, College Station, TX

11:30 AM Conventional Cotton - Grower's Perspective
Ed Jungmann and Russell Jungmann, Seed Source Genetics, Bishop, TX

11:40 AM A Consultant's "Recent" Experience with Conventional Cotton
Jim Johnson, Jim Johnson Consulting, Corpus Christi, TX

11:50 AM Discussion

EXTENSION COTTON SPECIALIST WORKSHOP

Conf. Rooms 17 & 18 (Marriott Rivercenter Hotel) - 10:30 AM-12:00 PM

10:30 AM Variety Testing: An Evolving Science
Guy D. Collins, University of Georgia, Tifton, GA, **Darrin M. Dodds**, Mississippi State University, Mississippi State, MS, **Christopher L. Main**, University of Tennessee, Jackson, TN, **L. T. Barber**, Division of Agriculture, University of Arkansas, Little Rock, AR, **Gaylon D. Morgan**, Texas A&M AgriLife Extension Service, College Station, TX, **John Kruse**, LSU Agricultural Center, St. Joseph, LA, **K.L. Edmisten**, North Carolina State University, Raleigh, NC, **Michael A. Jones**, Clemson University, Florence, SC, **M. S. Kelley**, Texas A&M AgriLife Extension Service, Lubbock, TX, **David R. Drake**, Texas AgriLife Extension, San Angelo, TX and **Guangyao (Sam) Wang**, University of Arizona Maricopa Ag Center, Maricopa, AZ

10:50 AM Effect of Irrigation and Plant Growth Regulator Use On Variety Performance

L. T. Barber, Division of Agriculture, University of Arkansas, Little Rock, AR, **Robert B. Hutmacher**, University of California - Davis & West Side REC, Five Points, CA, **E. Randall Norton**, University of Arizona, Safford, AZ, **John Kruse**, LSU Agricultural Center, St. Joseph, LA, **Darrin M. Dodds**, Mississippi State University, Mississippi State, MS, **Christopher L. Main**, University of Tennessee, Jackson, TN, **David L. Wright**, University of Florida, Quincy, FL and **Michael A. Jones**, Clemson University, Florence, SC

58th Annual Beltwide Cotton Production Conference

Workshops and Seminars

Tuesday, January 8, 2013

11:10 AM Influence of Irrigation On Cotton Yield and Fruit Partitioning

Michael A. Jones, Clemson University, Florence, SC, L. T. Barber, Division of Agriculture, University of Arkansas, Little Rock, AR, Darrin M. Dodds, Mississippi State University, Mississippi State, MS and Christopher L. Main, University of Tennessee, Jackson, TN

11:30 AM Tolerance of Cotton Varieties with Extend Technology to Dicamba and Glufosinate

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

YOU ARE NOW THE MEDIA: SOCIAL NETWORKING IN AGRICULTURE

Salons K & L (Marriott Rivercenter Hotel) - 10:30 AM-12:00 PM

10:30 AM Taking Social Media One Step Further

Owen Taylor, AgFax Media, Brandon, MS

10:55 AM Blogging to Save Time and Increase Information Flow

Dominic Reisig, North Carolina State University, Raleigh, NC

11:20 AM The Smart Phone As Your TV Studio

Janice Person, Monsanto, Memphis, TN

11:45 AM Discussion

EMERGENCE OF TARGET SPOT AND IMPLICATIONS FOR COTTON PRODUCTION IN THE SOUTHEASTERN US

Conf. Rooms 1-3 (Marriott Rivercenter Hotel) - 10:30 AM-12:00 PM

Presiding: R. C. Kemerait

10:30 AM Biology and Management of *Corynespora Cassiicola*: Importance for Cotton From a Vegetable Perspective

G. E. Vallad, Department of Plant Pathology, University of Florida, Wimauma, FL

10:50 AM Importance of Leaves to Boll Development and Impact of Premature Defoliation On Yield

G.L. Ritchie, Texas Tech University, Lubbock, TX

11:10 AM Impact of Application Timing of Fungicides On the Management of Target Spot

J. T. Walls¹, R. C. Kemerait¹, A. Fulmer¹, C. D. Perry², F.H. Sanders¹, Sandy Newell³ and Larry J. Newsom⁴, (1)Department of Plant Pathology, University of Georgia, Tifton, GA, (2)University of Georgia - Strippling Irrigation Research Park, Camilla, GA, (3)BASF Corporation, Statesboro, GA, (4)BASF, Tifton, GA

11:30 AM Efficacy of Registered and Candidate Fungicides Against *Corynespora* Leaf Spot Compared

Austin Hagan¹, Malcomb Pegues² and Jarrod Jones², (1)Auburn University, Auburn, AL, (2)Gulf Coast Research and Extension Center, Fairhope, AL

11:40 AM Reaction of Cotton Varieties to *Corynespora* Leaf Spot in Alabama

Austin Hagan¹, Malcomb Pegues², Jarod Jones² and Larry Wells³, (1) Auburn University, Auburn, AL, (2)Gulf Coast Research and Extension Center, Auburn University, Fairhope, AL, (3)Wiregrass Research and Extension Center, Auburn University, Headland, AL

11:50 AM An Estimate of Yield Loss to *Corynespora* Leaf Spot On Cotton

Austin Hagan¹, Kira Bowen¹, Malcomb Pegues² and Jarrod R. Jones², (1)Auburn University, Auburn, AL, (2)Auburn University, Fairhope, AL

Tuesday Afternoon

COTTON OPTIONS WORKSHOP

Conf. Rooms 1-3 (Marriott Rivercenter Hotel) - 1:30 PM-6:00 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.

INNOVATIONS IN COTTON IRRIGATION MANAGEMENT

Salons I & J (Marriott Rivercenter Hotel) - 1:30 PM-6:00 PM

Presiding: Dana O. Porter

1:30 PM Welcome and Introductions - Dana Porter, Texas A&M AgriLife Research and Extension Center, Lubbock, TX

1:40 PM Cotton Irrigation Research and Extension Programs, Needs and Priorities

Ed Barnes, Cotton Incorporated, Cary, NC

2:20 PM Effects of Cultivar Maturity, Nitrogen Application Rate, and Irrigation Rate At Different Growth Stages On the Physiology, Morphology, and Yield of Cotton

David A. Verbree, Chris Main, Brian Leib and Frank Yin, University of Tennessee, Knoxville, TN

2:45 PM A Cotton Crop Coefficient-Based Model for Scheduling Irrigation in Georgia

George Vellidis¹, Calvin Perry¹, Martina Weiss¹, Ed Barnes², Guy D. Collins¹ and John Snider¹, (1)University of Georgia, Tifton, GA, (2) Cotton Incorporated, Cary, NC

3:15 PM Break

58th Annual Beltwide Cotton Production Conference

Workshops and Seminars

Tuesday, January 8, 2013

INNOVATIONS IN COTTON IRRIGATION MANAGEMENT (CONT.)

4:00 PM Timing and Value of Water in Cotton Production

Jim Bordovsky, Texas A&M AgriLife Research, Lubbock, TX

4:30 PM Irrigation Economics

Jay Yates, Texas A&M AgriLife Extension Service, Lubbock, TX

5:00 PM Irrigation Management in an Integrated Cotton Production System

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

5:30 PM Q&A, Discussion, Wrap-up

PRACTICAL AND PROFITABLE PRECISION AGRICULTURE PRACTICES

Conf. Rooms 17 & 18 (Marriott Rivercenter Hotel) - 1:30 PM-6:00 PM

1:30 PM Yield Monitors

George Vellidis, University of Georgia, Tifton, GA

2:00 PM Automatic Section Control (ASC) for Sprayers and Planters

Michael J. Buschermohle, Biosystems Engineering and Soil Science, The University of Tennessee, Knoxville, TN

2:30 PM Variable Rate Seeding

Tom Barber, Division of Agriculture, University of Arkansas, Little Rock, AR

3:00 PM Sensor-Based Fertility

Brian Arnall, Oklahoma State University, Stillwater, OK

3:30 PM Break

4:00 PM On-Farm Testing

Randy Taylor, Oklahoma State University, Stillwater, OK

4:30 PM Influence of Precision Ag On Sustainability

Lori Gibson, Biosystems Engineering and Soil Science, The University of Tennessee, Knoxville, TN

5:00 PM Economics of Precision Ag

J.A. Larson, Department of Agricultural & Resource Economics, The University of Tennessee, Knoxville, TN

5:30 PM Discussion

NEW DEVELOPMENTS FROM INDUSTRY

Salon M (Marriott Rivercenter Hotel) - 1:30 PM-6:00 PM

1:30 PM Dyna-Gro 2285 B2RF: A New Early Maturity Variety

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

1:40 PM PHY 339 WRF, A New Early Season Variety From Phytogen and Dow AgroSciences

Chris Main¹, J. C. Faircloth¹, C.E. Brewer¹, S. M. Brown¹, S.B. Blanche¹, S.W. Fuchs¹, R. G. Lemon², R. C. Nuti², M. G. McPherson³, D.W. Canfield¹, J.T. Johnson⁴ and M.P. Develvis¹, (1)PhytoGen Cottonseed, Dow AgroSciences, Indianapolis, IN, (2)PhytoGen Cottonseed, Dow AgroSciences, Indianapolis, IN, (3)PhytoGen Cottonseed, Dow AgroSciences, Greenville, MS, (4)PhytoGen Cottonseed, Dow AgroSciences, Leland, MS

1:50 PM New Deltapine Class of 13 Early Maturing Varieties: DP 1311 B2RF and DP 1321 B2RF

Greg Ferguson, Monsanto, Madison, MS and David W. Albers, Monsanto, St. Louis, MO

2:00 PM New Cotton Varieties From Bayer CropScience Featuring Glytol® LibertyLink® Bollgard II® - Double Herbicide Tolerant Technology with Insect Resistance

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

2:10 PM PHY 575 WRF, A New Mid-Full Season Variety From Phytogen and Dow AgroSciences

Steven M. Brown, S. Brooks Blanche, Chad E. Brewer, Joel C. Faircloth, Scott W. Fuchs, Robert G. Lemon, Russell C. Nuti, Duane W. Canfield, Joseph T. Johnson and Mustafa G. McPherson, PhytoGen Cottonseed, Dow AgroSciences, Indianapolis, IN

2:20 PM New Deltapine Full Maturity Class of 13 Cotton Variety: DP 1359 B2RF

Eric C. Best, Monsanto, Lubbock, TX and David W. Albers, Monsanto, St. Louis, MO

2:30 PM Dyna-Gro 2610 B2RF: A New Full Season Maturity Larry G. Stauber, Dyna-Gro Seed, Marion, AR

2:40 PM PHY811 RF Pima: A New Glyphosate Tolerant Pima Variety From Phytogen Seed Company, LLC

Joel F. Mahill and David Anderson, Phytogen Seed Company, Corcoran, CA

2:50 PM New Deltapine Class of 13 Pima Roundup Ready Flex Variety: DP 358 RF Pima

David W. Albers¹, Jim Olvey² and Mike Olvey², (1)Monsanto, St. Louis, MO, (2)Olvey and Associates, Maricopa, AZ

3:00 PM Americot, Inc.'s NG 5315 B2RF, A New Long Season Variety

Tom Brooks, Americot, Inc., Lubbock, TX

3:10 PM The Harvest Weigh Mobile, A Cotton Weighing/ Data Management System

Sandy Land and Harry Owens, System Scale Corporation, Little Rock, AR

3:20 PM Break

58th Annual Beltwide Cotton Production Conference

Workshops and Seminars

Tuesday, January 8, 2013 and Wednesday, January 9, 2013

4:00 PM Evergol: Raising the Bar for Seed Applied Protection Against Rhizoctonia

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

4:10 PM Texas Root Rot (*Phymatotrichopsis omnivora*) Control with TOPGUARD® Fungicide

Brent Jacobson, Cheminova, Inc, Tifton, GA

4:20 PM New Fierce Herbicide in Cotton

Frank Carey, Valent USA, Olive Branch, MS, John Cranmer, Valent USA Company, Cary, NC, Bill Odle, Valent USA, Richardson, TX, Jeffrey D. Smith, Valent U.S.A. Corporation, Peactree City, GA and J. Pawlak, Valent USA Corporation, Lansing, MI

4:30 PM Efficacy of F9310 (Anthem) and F9312 for Cotton Weed Management

Scott Akin, FMC Corporation, Monticello, AR, J.S. Wilson, FMC Corporation, Raleigh, NC, J. Don Johnson, FMC Corporation, Madison, MS and Henry R. Mitchell, FMC Corporation, Louisville, MS

4:40 PM New Development in Fusarium Race 4 Test Methods

Paul Clark, Agdia, Inc, Elkhart, IN

4:50 PM Higher Capacity Gin Line Reduces Operating Costs

Mark D. Cory, Cherokee Fabrication Co. Inc., Salem, AL

Wednesday Morning

COTTON AGRONOMY & PHYSIOLOGY SPECIAL SESSION - SEED QUALITY, AGRONOMY, AND PHYSIOLOGY

Conf. Rooms 1-3 (Marriott Rivercenter Hotel) - 8:00 AM-10:00 AM

8:00 AM Welcome and Introductory Remarks

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

8:05 AM Enhancing Cotton Seed Qualities Through Plant Breeding

Steve Hague¹, C. W. Smith¹, Jane Dever² and Keerti Rathore¹, (1) Texas A&M University, College Station, TX, (2) Texas AgriLife Research, Lubbock, TX

8:28 AM Imaging Cottonseed Metabolism

Kent Chapman and Patrick Horn, University of North Texas, Center for Plant Lipid Research, Denton, TX

8:51 AM Improving Cottonseed Quality for Animal Feed

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

9:14 AM Workable Definitions of Cottonseed and Seedling Vigor

Fred Bourland, University of Arkansas, Keiser, AR

9:37 AM Cotton Seedling Vigor: Biomass Partitioning and Carbon Dynamics

Felix B. Frittschi¹, Melissa A. Remley¹, Shengjun Liu¹ and Robert L. Nichols², (1) University of Missouri, Columbia, MO, (2) Cotton Incorporated, Cary, NC

COTTON SOIL MANAGEMENT AND PLANT NUTRITION SPECIAL SESSION - FERTILIZER STABILIZERS

Salon M (Marriott Rivercenter Hotel) - 8:00 AM-10:00 AM

8:00 AM Cotton Response to Polymer Coated Urea in Mississippi

Bobby R. Golden¹, Jim Nichols¹, Lawrence L. Falconer² and M. Wayne Ebelhar¹, (1) Mississippi State University, Stoneville, MS, (2) Mississippi State University Extension Service, Stoneville, MS

8:30 AM Field Evaluation of AVAIL® Phosphorus Fertilizer Enhancer for Cotton

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

9:00 AM Improving Nitrogen Management in Cotton Production with Environmentally Smart Nitrogen (ESN)

Michael S. Howell, Matt Clover and Alan Blaylock, Agrium Advanced Technologies, Lumberton, MS

9:30 AM New Technology and Alternative N Sources for Crops in the Southern U.S

Brian Arnall, Oklahoma State University, Stillwater, OK, Charles Mitchell, Auburn University, Auburn, AL, Robert P. Flynn, New Mexico State University, Artesia, NM, M. L. McFarland, Texas AgriLife Extension, College Station, TX, M. Mozaffari, University of Arkansas, Fayetteville, AR and Deanna Osmond, North Carolina State University, Raleigh, NC

COTTON WEED SCIENCE RESEARCH SPECIAL SESSION - WEED MANAGEMENT: FUTURE TECHNOLOGIES AND TOOLS

Salon C (Marriott Riverwalk Hotel) - 8:00 AM-10:00 AM

8:00 AM The LibertyLink® System and Future Solutions

Ginger G. Light, Bayer CropScience LP, Lubbock, TX

8:30 AM The Enlist™ Weed Control System – Technologies and Stewardship to Meet Diverse Agricultural Needs

J.D. Siebert, Dow AgroSciences, Greenville, MS

9:00 AM Roundup Ready® Xtend Cotton

Scott Bollman, Monsanto Company, St. Louis, MO

9:30 AM Cotton Weed Management: Past, Present, and Future

Peter A. Dotray, Texas Tech University, AgriLife Research, and Texas AgriLife Extension Service, Lubbock, TX

58th Annual Beltwide Cotton Production Conference

Workshops and Seminars

Wednesday, January 9, 2013

COTTON INSECT RESEARCH AND CONTROL ROUNDTABLE

Salon I (Marriott Rivercenter Hotel) - 8:00 AM-10:00 AM

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

Salon C (Marriott Riverwalk Hotel) - 10:30 AM-12:00 PM

10:30 AM Welcoming Remarks

10:35 AM Cotton Marketer of the Year Award

10:45 AM Cotton and the 2012 Farm Bill

Joe Outlaw and James W. Richardson, Texas A&M University, College Station, TX

11:05 AM Input Costs and Acreage Implications

John Robinson, Texas A&M AgriLife Extension Service, College Station, TX

11:25 AM The New Cotton Market, Prices and Outlook

O.A. Cleveland, Mississippi State University, Mississippi State, MS

11:45 AM Discussion

COTTON UTILIZATION CONFERENCE: EXPANDING COTTON UTILIZATION THROUGH RESEARCH AND EDUCATION

Conf. Rooms 17 & 18 (Marriott Rivercenter Hotel) - 10:30 AM-12:00 PM

10:30 AM Cotton University™: Extending Cotton's Reach To Supply Chain Companies and Universities

Ashley Thornton, Cotton Incorporated, Cary, NC

IMPROVE YOUR COTTON IQ

Salon M (Marriott Rivercenter Hotel) - 10:30 AM-12:00 PM

10:30 AM Cotton Physiology Today Newsletter Update

Bill Robertson, National Cotton Council, Cordova, TN

10:45 AM Focus On Cotton Webcast Series

Phil Bogdan, Plant Management Network, St. Paul, MN and **Ryan W. Kurtz**, Cotton Incorporated, Cary, NC

11:00 AM Think Like a Cotton Plant

Charles Stickler, Stickler Ag Consulting, Knippa, TX

COTTON IMPROVEMENT - WEDNESDAY LATE MORNING

Salon D (Marriott Riverwalk Hotel) - 10:30 AM-12:00 PM

10:30 AM PHY499WRF: An Improvement in Yield Potential and Stability of Yield

Mustafa McPherson¹, Joel F. Mahill² and Joe Johnson¹, (1)Phytogen Seed Company, LLC, Leland, MS, (2)Dow AgroSciences, Corcoran, CA

10:45 AM The Pee Dee Germplasm Enhancement Program: Where Have We Been and Where Are We Going?

B.Todd Campbell, USDA-ARS, Florence, SC

11:00 AM Breeding for High Levels of RKN Resistance in a Commercial Breeding Program

Don L. Keim, Monsanto, Scott, MS and Nilesh D. Dighe, Monsanto, Lubbock, TX

11:15 AM Breeding Efforts to Improve Fiber Maturity: Addressing Fiber Length Uniformity

Carol M. Kelly and Jane K. Dever, Texas A&M AgriLife Research, Lubbock, TX

11:30 AM Novel Approaches Used in the University of Arkansas Cotton Breeding Program

Fred Bourland, University of Arkansas, Keiser, AR and Don Jones, Cotton Incorporated, Cary, NC

Technical Conferences Program

67th Annual Cotton Agronomy & Physiology Conference

Wednesday, January 9, 2013

Wednesday Morning

COTTON AGRONOMY & PHYSIOLOGY SPECIAL SESSION - SEED QUALITY, AGRONOMY, AND PHYSIOLOGY

Conf. Rooms 1-3 (Marriott Rivercenter Hotel) - 8:00 AM-10:00 AM

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Felix B. Fritsch¹, Melissa A. Remley¹, Shengjun Liu¹ and Robert L. Nichols², (1) University of Missouri, Columbia, MO, (2) Cotton Incorporated, Cary, NC

Wednesday Afternoon

COTTON AGRONOMY & PHYSIOLOGY - WEDNESDAY EARLY AFTERNOON - SESSION A

Salon K (Marriott Rivercenter Hotel) - 1:30 PM-3:15 PM

1:30 PM Tradeoffs Between Lint Yield and Earliness of Maturity in Tennessee

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

2:00 PM Adjusting Water Management Based On Canopy Temperature to Maintain Optimal Source of Cotton

Tom Speed, Smartfield, Lubbock, TX and Tom Kerby, Kerby Cotton Consulting, LLC, South Jordan, UT

2:15 PM Cotton Water Relations in the Texas High Plains and the Southeast

Glen L. Ritchie¹, Bablu Sharma¹, Fulvio Simao¹, Tyler Painter¹, Curtis Schaefer¹, Jon Sherman¹, Guy Collins² and Jared R. Whitaker³, (1) Texas Tech University, Lubbock, TX, (2) University of Georgia, Tifton, GA, (3) University of Georgia, Statesboro, GA

2:30 PM Physiological Responses of Three Cotton Genotypes to Irrigation Treatment and Seasonal Variation in the Water Status of the Soil-Plant-Atmosphere Continuum

John Snider¹, Daryl R. Chastain², Guy Collins¹, Calvin D. Perry³ and Jared R. Whitaker⁴, (1) University of Georgia, Tifton, GA, (2) University of Georgia, Athens, GA, (3) University of Georgia - Striping Irrigation Research Park, Camilla, GA, (4) University of Georgia, Statesboro, GA

2:45 PM A Smart Sensor Array for Scheduling Precision Irrigation

George Vellidis¹, Mike Tucker¹, Calvin Perry¹, Marty McLendon², David Reckford³, Vasilis Liakos¹, Herman Henry¹ and Rodney Hill¹, (1) University of Georgia, Tifton, GA, (2) Flint River Soil & Water Conservation District, Morgan, GA, (3) Team Flint, Morgan, GA

3:00 PM Relating El Niño-Southern Oscillation Climate Conditions to Irrigation Strategies for Increased Cotton Yield

R. Louis Baumhardt, USDA-ARS, Bushland, TX and Steve A. Mauget, USDA-ARS, Lubbock, TX

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

Salon L (Marriott Rivercenter Hotel) - 2:00 PM-3:15 PM

2:00 PM Irrigation Management and Episodic Drought Effects On the Profitability and Yield of Cotton Cultivars in West Texas

Fulvio R. Simao¹, Glen Ritchie², C.W. Bednarz³ and Jeff Johnson¹, (1) Texas Tech University, Lubbock, TX, (2) Department of Plant and Soil Science, Texas Tech University, Lubbock, TX, (3) Bayer CropScience, Lubbock, TX

2:15 PM Optimizing Irrigation Practices for Cotton Using Sub-Surface Drip and Overhead Irrigation Systems in Georgia

Calvin D. Meeks¹, Jared R. Whitaker², John L. Snider³, Glen Ritchie⁴, Calvin D. Perry⁵ and Guy D. Collins³, (1) Crop and Soil Sciences Department, Tifton, GA, (2) University of Georgia, Statesboro, GA, (3) University of Georgia, Tifton, GA, (4) Department of Plant and Soil Science, Texas Tech University, Lubbock, TX, (5) University of Georgia - Striping Irrigation Research Park, Camilla, GA

2:30 PM Cotton Variety Characteristics and Their Impact On Cotton Leaf Grade

Zachary P. Eder¹, Gaylon D. Morgan², Dan Fromme³, D.A. Mott¹ and Fred Bourland⁴, (1) Texas AgriLife Extension Service, College Station, TX, (2) Texas A&M AgriLife Extension Service, College Station, TX, (3) Texas AgriLife Extension, Corpus Christi, TX, (4) University of Arkansas - Northeast Research and Extension Center, Keiser, AR

2:45 PM Effect of Water-Deficit Stress During Squaring On the Physiology of Reproductive Development

Cristiane Pilon¹, D. M. Oosterhuis², Dimitra Loka¹ and G.L. Ritchie³, (1) University of Arkansas, CSES, Fayetteville, AR, (2) University of Arkansas, Fayetteville, AR, (3) Texas Tech University, Lubbock, TX

Technical Conferences Program

67th Annual Cotton Agronomy & Physiology Conference

Wednesday, January 9, 2013

3:00 PM **Macronutrient Content of Cotton (*Gossypium hirsutum*) Tissues Across Genotypes and Environments: An Indicator of Resource Quality for Insect Herbivores**
Carrie Deans, Justin Fiene, Greg Sword and Spence Behmer, Texas A&M University, College Station, TX

COTTON AGRONOMY & PHYSIOLOGY - WEDNESDAY LATE AFTERNOON - SESSION A

Salon K (Marriott Rivercenter Hotel) - 4:00 PM-5:30 PM

4:00 PM **Soil Water Extraction of Bollgard® II Cotton in a Heavy-Clay Soil**

Jose O. Payero, Clemson University, Blackville, SC and Graham Harris, Department of Agriculture, Fisheries and Forestry (Queensland DAFF), Toowoomba, Australia

4:15 PM **Comparing Glufosinate Herbicide Tolerance of WideStrike and LibertyLink Cotton Varieties**

Jason Sweeney¹, Michael A. Jones¹, Michael W. Marshall², Jeremy K. Greene², L. T. Barber³, Darrin M. Dodds⁴ and Christopher L. Main⁵, (1) Clemson University, Florence, SC, (2)Clemson University, Blackville, SC, (3)Division of Agriculture, University of Arkansas, Little Rock, AR, (4)Mississippi State University, Mississippi State, MS, (5)University of Tennessee, Jackson, TN

4:30 PM **Effect of Nitrogen Application Rate On Tarnished Plant Bug Infestation and Yield**

Chase Samples¹, Darrin M. Dodds¹, Jeff Gore², A. L. Catchot¹, Tyler Dixon¹ and D. Zachary Reynolds¹, (1)Mississippi State University, Mississippi State, MS, (2)Mississippi State University, Stoneville, MS

4:45 PM **Effect of Wheat Stubble Management On Doublecropped Cotton**

Tyler Dixon, Darrin M. Dodds, D. Zachary Reynolds and Chase Samples, Mississippi State University, Mississippi State, MS

5:00 PM **Field Evaluation of a Remote Sensing Based Irrigation Scheduling Tool**

Nithya Rajan, Texas A&M AgriLife Research, Vernon, TX, Stephan J. Maas, Texas Tech University, Lubbock, TX and Glen Ritchie, Department of Plant and Soil Science, Texas Tech University, Lubbock, TX

5:15 PM **Effects of Cultivar Maturity, Nitrogen Application Rate, and Irrigation Rate At Different Growth Stages On the Physiology, Morphology, and Lint Yield of Cotton in TN**

David A. Verbree, C. Main, B. Leib and F. Yin, University of Tennessee, Jackson, TN

5:30 PM **Business Meeting and Awards Function**

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

Salon L (Marriott Rivercenter Hotel) - 4:00 PM-6:00 PM

4:00 PM **Regional Evaluation of Wireless Soil Moisture Sensor Systems and Advanced Irrigation Scheduling Technologies to Optimize Water Use Efficiency**

Tyson B. Raper¹, Derrick M. Oosterhuis¹, Edward M. Barnes², Pedro Andrade-Sanchez³, Philip J. Bauer⁴, Glen L. Ritchie⁵, Diane L. Rowland⁶ and John L. Snider⁷, (1)University of Arkansas, Fayetteville, AR, (2)Cotton Incorporated, Cary, NC, (3)University of Arizona Maricopa Ag Center, Maricopa, AZ, (4)USDA-ARS, Florence, SC, (5)Texas Tech University, Lubbock, TX, (6)University of Florida, Gainesville, FL, (7)University of Georgia, Tifton, GA

4:15 PM **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 J. P. Bordovsky³, (1)Texas Tech University, Lubbock, TX, (2)Texas A&M AgriLife Research, Lubbock, TX, (3)Texas A&M AgriLife Research, Plainview, TX

4:30 PM **The Biochemical Effects of Heat Stress On Flowering Cotton**

Toby R. FitzSimons, University of Arkansas, Fayetteville, AR

4:45 PM **Means of Identifying and Reducing Crop Stress in Cotton**

Murilo M. Maeda¹, J. Tom Cothren¹, Carlos J. Fernandez² and Clayton T. Lewis¹, (1)Texas A&M University, College Station, TX, (2) Texas A&M AgriLife Research, Corpus Christi, TX

5:00 PM **Evaluating Fiber Properties in Verticillium Wilt Susceptible and Resistant Cotton Cultivars in Relation to Increasing Nitrogen Rates**

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

Technical Conferences Program

67th Annual Cotton Agronomy & Physiology Conference

Thursday, January 10, 2013

Thursday Morning

COTTON AGRONOMY & PHYSIOLOGY - THURSDAY EARLY MORNING - SESSION A

Salon K (Marriott Rivercenter Hotel) - 8:00 AM-10:00 AM

8:00 AM Response of Cotton Individual Plant Yield to Plant Population

Guangyao (Sam) Wang, Zhejun Liang and Mohammad Badaruddin, University of Arizona Maricopa Ag Center, Maricopa, AZ

8:15 AM Screening and Evaluating Responses to NaCl in Cotton *G. hirsutum*

M. Natalia Castillo, Texas Agricultural Experiment Station, Lubbock, TX, J.K. Dever, Texas AgriLife Research, Lubbock, TX and Dick Auld, Texas Tech University, Lubbock, TX

8:30 AM Waterlogging Effects On Cotton Physiology, Growth, and Yield

Michael Bange, CSIRO Plant Industry, Narrabri, Australia and Stephen P. Milroy, CSIRO, Floreat, Australia

8:45 AM Irrigation and Nitrogen Fertility Effects On Cotton Yield and Fiber Quality

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

9:00 AM Grazing Cover Crops Impact On Cotton Rooting and Yield

D.L. Wright, University of Florida, NFREC, Quincy, FL, J. J. Marois, University of Florida, Quincy, FL and Diane L. Rowland, University of Florida, Gainesville, FL

9:15 AM Strategic Use of Florigen in Cotton: Evidence for Synchronization of Flowering and Termination of Vegetative Growth to Enhance Growth Habit As an Annual Row Crop

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

9:30 AM Growth Management in Pima: PGR Versus Water Stress

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

COTTON AGRONOMY & PHYSIOLOGY - THURSDAY EARLY MORNING - SESSION B

Salon L (Marriott Rivercenter Hotel) - 8:00 AM-10:00 AM

8:00 AM Quantifying Management and Environment Effects On Cotton Micronaire

Michael Bange, CSIRO Plant Industry, Narrabri, Australia and R. L. Long, CSIRO Materials Science and Engineering, Belmont, Victoria, Australia

8:15 AM Near-Continuous Seasonal Canopy Temperature As a Proxy for Water Use in Field Grown Cotton

James R. Mahan, USDA-ARS, Lubbock, TX, Andrew Young, Plant and Soil Science, Lubbock, TX and Paxton Payton, USDA/ARS, Lubbock, TX

8:30 AM Impact of Harvest Aid Timing and Machine Spindle Harvesting On Neps in Upland Cotton

Michael Bange, CSIRO Plant Industry, Narrabri, Australia and **R. L. Long**, CSIRO Materials Science and Engineering, Belmont, Victoria, Australia

8:45 AM Impact of Cotton Defoliation On Cotton Yield, Quality, and Profitability

Gaylon D. Morgan¹, Zachary Eder¹, **Dale Mott**¹ and John Robinson², (1)Texas A&M AgriLife Extension Service, College Station, TX, (2) Texas A&M University, College Station, TX

9:00 AM Performance of Display™ Cotton Harvest Aid Across the Cotton Belt

Henry R. Mitchell, FMC Corporation, Louisville, MS, J. Don Johnson, FMC Corporation, Madison, MS and Craig Heim, FMC Corporation, Savannah, GA

9:15 AM Field-Grown Cotton Cultivars Exhibit Genotypic and Seasonal Differences in Photosystem II Heat Tolerance

John L. Snider¹, D. M. Oosterhuis², Guy Collins¹, Cristiane Pilon³ and Toby R. FitzSimons², (1)University of Georgia, Tifton, GA, (2) University of Arkansas, Fayetteville, AR, (3)University of Arkansas, CSES, Fayetteville, AR

9:30 AM Deltapine Water Use Efficiency of Commercial Varieties - What Works On Your Farm?

Douglas J. Jost, Monsanto - D&PL West, Garden City, TX, David W. Albers, Monsanto, St. Louis, MO and James C. Graham, Monsanto Company, West Chesterfield, MO

Technical Conferences Program

73rd Annual Cotton Disease Council

Tuesday, January 8, 2013 and Wednesday, January 9, 2013

Tuesday Morning

EMERGENCE OF TARGET SPOT AND IMPLICATIONS FOR COTTON PRODUCTION IN THE SOUTHEASTERN US

Conf. Rooms 1-3 (Marriott Rivercenter Hotel) - 10:30 AM-12:00 PM

Presiding: R. C. Kemerait

10:30 AM Biology and Management of *Corynespora Cassiicola*: Importance for Cotton From a Vegetable Perspective
G. E. Vallad, Department of Plant Pathology, University of Florida, Wimauma, FL

10:50 AM Importance of Leaves to Boll Development and Impact of Premature Defoliation On Yield
G.L. Ritchie, Texas Tech University, Lubbock, TX

11:10 AM Impact of Application Timing of Fungicides On the Management of Target Spot
J. T. Walls¹, R. C. Kemerait¹, A. Fulmer¹, C. D. Perry², F.H. Sanders¹, Sandy Newell³ and Larry J. Newsom⁴, (1)Department of Plant Pathology, University of Georgia, Tifton, GA, (2)University of Georgia - Striping Irrigation Research Park, Camilla, GA, (3)BASF Corporation, Statesboro, GA, (4)BASF, Tifton, GA

11:30 AM Efficacy of Registered and Candidate Fungicides Against *Corynespora* Leaf Spot Compared
Austin Hagan¹, Malcomb Pegues² and Jarrod Jones², (1)Auburn University, Auburn, AL, (2)Gulf Coast Research and Extension Center, Fairhope, AL

11:40 AM Reaction of Cotton Varieties to *Corynespora* Leaf Spot in Alabama
Austin Hagan¹, Malcomb Pegues², Jarrod Jones² and Larry Wells³, (1) Auburn University, Auburn, AL, (2)Gulf Coast Research and Extension Center, Auburn University, Fairhope, AL, (3)Wiregrass Research and Extension Center, Auburn University, Headland, AL

11:50 AM An Estimate of Yield Loss to *Corynespora* Leaf Spot On Cotton
Austin Hagan¹, Kira Bowen¹, Malcomb Pegues² and Jarrod R. Jones², (1)Auburn University, Auburn, AL, (2)Auburn University, Fairhope, AL

Wednesday Afternoon

COTTON DISEASE COUNCIL - WEDNESDAY EARLY AFTERNOON - STUDENT PAPER COMPETITION

Conf. Rooms 1-3 (Marriott Rivercenter Hotel) - 1:30 PM-3:15 PM

Presiding: Jason Woodward

1:30 PM Influence of Soil Texture On Reproduction and Pathogenicity of *Rotylenchulus reniformis* On Cotton
Déborah M. Xavier¹, Charles Overstreet², Edward C. McGawley³, Manjula T. Kularathna² and Claudia M. Martin³, (1)LSU AgCenter, Baton Rouge, LA, (2)LSU Agricultural Center, Baton Rouge, LA, (3) Dept. of Plant Pathology and Crop Physiology, Baton Rouge, LA

1:45 PM Nematicide Enhancements of Reniform Resistant Cotton Genotypes
Drew W. Schrimsher¹, K. S. Lawrence², Roelof B. Sikkens² and David Weaver², (1)Auburn University, Auburn, AL, (2)Auburn University, Auburn University, AL

2:00 PM Spatial Distribution of Reniform Nematode in Cotton Fields in South Carolina
Claudia M. Holguin¹, Paula Agudelo¹, Patrick Gerard¹, John D. Mueller² and Ahmad Khalilian², (1)Clemson University, Clemson, SC, (2)Clemson University, Blackville, SC

2:15 PM Are Plant Parasitic Nematodes Present in Earthworm Castings in Cotton Fields?
David L. Bailey¹, K. S. Lawrence², Drew W. Schrimsher¹, David W. Held¹ and Edzard van Santen², (1)Auburn University, Auburn, AL, (2) Auburn University, Auburn University, AL

2:30 PM Influence of Soil Nutrients On Reproduction and Pathogenicity of *Rotylenchulus reniformis* On Cotton
Manjula T. Kularathna¹, Charlie Overstreet², Edward C. McGawley³, Déborah M. Xavier⁴, Claudia M. Martin³ and Dennis Burns⁵, (1)LSU Agricultural Center, Baton Rouge, LA, (2)Louisiana State University, Baton Rouge, LA, (3)Dept. of Plant Pathology and Crop Physiology, Baton Rouge, LA, (4)LSU AgCenter, Baton Rouge, LA, (5)LSU Agricultural Center, St. Joseph, LA

Technical Conferences Program

73rd Annual Cotton Disease Council

Wednesday, January 9, 2013 and Thursday, January 10, 2013

COTTON DISEASE COUNCIL - WEDNESDAY LATE AFTERNOON

Conf. Rooms 1-3 (Marriott Rivercenter Hotel) - 4:00 PM-5:30 PM

Presiding: R. C. Kemerait

4:00 PM Site-Specific Root-Knot Nematode Management Using Telone II in Mississippi

Tom Allen¹, Pat J. English¹, Jeffrey L. Willers², Kenneth Hood³, R.A. Haygood⁴ and Darrin M. Dodds⁵, (1)Mississippi State University, Stoneville, MS, (2)USDA-ARS, Mississippi State, MS, (3)Hood Farms & Gin, Gunnison, MS, (4)Dow AgroSciences LLC, Collierville, TN, (5) Mississippi State University, Mississippi State, MS

4:15 PM Assessment of Site Specific Applications of 1,3-Dichloropropene in Commercial Fields in Georgia

R. C. Kemerait¹, F.H. Sanders¹, L. M. Giles² and Debbie Waters³, (1)Department of Plant Pathology, University of Georgia, Tifton, GA, (2)Dow AgroSciences, Indianapolis, IN, (3)Innovative Crop Technologies, Cordele, GA

4:30 PM Spatial Econometric Modeling for Site-Specific Nematode Management

Zheng Liu, University of Arkansas, Little Rock, AR, T.L. Kirkpatrick, University of Arkansas, Hope, AR, Terry Griffin, Cresco Ag LLC, Memphis, TN and W. Scott Monfort, Clemson University Edisto Research & Education Center, Blackville, SC

4:45 PM Nematode Susceptibility Rankings From Soft-Tissue X-Ray Imaging

Daniel W. McDonald¹, Ernest C. Bernard², Bonnie Ownley², Ronald B. Michaels¹ and David Weaver³, (1)Phenotype Screening Corporation, Knoxville, TN, (2)University of Tennessee, Knoxville, TN, (3)Auburn University, Auburn University, AL

5:00 PM Influence of Nematicide Seed Treatments with and without Vydate On the Growth and Development of Cotton in Reniform Nematode Infested Soils

Randy Smith¹, G. W. Lawrence², Kathy S. Lawrence³, Richard Harkness² and Carolyn Conger¹, (1)Mississippi State Extension Service, Collins, MS, (2)Mississippi State University, Mississippi State, MS, (3) Auburn University, Auburn, AL

Thursday Morning

COTTON DISEASE COUNCIL - THURSDAY EARLY MORNING

Conf. Rooms 1-3 (Marriott Rivercenter Hotel) - 8:00 AM-10:00 AM

Presiding: Jason Woodward

8:00 AM New Approach to the Use of Quadris in Cotton

Wilson Faircloth, Syngenta, Leesburg, GA, Keith Driggs, Syngenta Crop Protection, North Little Rock, AR, Brent Besler, Syngenta, Brownsfield, TX, Michael Urwiler, Syngenta, Lubbock, TX, Henry McLean, Syngenta Crop Protection, Inc., Perry, GA and James C. Holloway, Syngenta Crop Protection, Jackson, TN

8:15 AM Nutrient and Nematicide Effects Against Reniform and Root-Knot Nematodes in Cotton

Charles Overstreet¹, Edward C. McGawley², Manjula T. Kularathna¹, Déborah M. Xavier³, Claudia M. Martin², Dennis Burns⁴ and R.A. Haygood⁵, (1)LSU Agricultural Center, Baton Rouge, LA, (2)Dept. of Plant Pathology and Crop Physiology, Baton Rouge, LA, (3)LSU AgCenter, Baton Rouge, LA, (4)LSU Agricultural Center, St. Joseph, LA, (5)Dow AgroSciences LLC, Collierville, TN

8:30 AM Effects of Potash On the Growth and Development of Early and Late Maturing Cotton Varieties Grown in Reniform Nematode Infested Soils

Randy Smith¹, Gary W. Lawrence², Kathy S. Lawrence³, Richard Harkness² and Carolyn Conger¹, (1)Mississippi State Extension Service, Collins, MS, (2)Mississippi State University, Mississippi State, MS, (3) Auburn University, Auburn, AL

8:45 AM Role of Fusaric Acid in the Virulence of Cotton Wilt Pathogen *Fusarium oxysporum* f. Sp. *Vasinfectorum*

Jinggao Liu¹, Jaemin Cho², A. A. Bell³, R. D. Stipanovic⁴, Lorraine S. Puckhaber¹ and Robert Nichols⁵, (1)USDA-ARS/SPARC, College Station, TX, (2)USDA-ARS, College Station, TX, (3)USDA-ARS-Southern Plains Agricultural Research Center, College Station, TX, (4) USDA-ARS-SPARC, College Station, TX, (5)Cotton Incorporated, Cary, NC

9:00 AM Chemical Control Practices, Crop Rotation and Fusarium Race 4: Preliminary Trials

Robert B. Hutmacher, University of California - Davis & West Side REC, Five Points, CA

9:15 AM Hot Water Treatments for Disinfecting Cottonseed of *Fusarium oxysporum* f Sp *Vasinfectorum*

Hung Kim Doan¹, R. Michael Davis¹ and Timothy Anderson², (1) Department of Plant Pathology University of California, Davis, CA 95616-8680, CA, (2)Phytogen Seed Company, LLC, Corcoran, CA

Technical Conferences Program

73rd Annual Cotton Disease Council

Thursday, January 10, 2013

9:30 AM 2012 US Survey of *Fusarium oxysporum* f. Sp. *Vasinfestum* Distribution

Amanda Cianchetta, R. Michael Davis and Hung Kim Doan, Department of Plant Pathology, University of California, Davis, Davis, CA

9:45 AM Pest Resistance and Agronomic Performance of Advanced Barbren Lines Compared to Commercial Cultivars and the Germplasm Line Barbren 713

Alois A. Bell¹, Jose Quintana¹ and Robert L. Nichols², (1)USDA-ARS-Southern Plains Agricultural Research Center, College Station, TX, (2) Cotton Incorporated, Cary, NC

COTTON DISEASE COUNCIL- THURSDAY LATE MORNING

Conf. Rooms 1-3 (Marriott Rivercenter Hotel) - 10:30 AM-12:00 PM

Presiding: Tom Allen

10:30 AM The Response of Varieties to Verticillium Wilt in the Southern High Plains of Texas in 2012

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

10:45 AM Varietal Response of Cotton to Diseases in the Texas High Plains

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

11:00 AM Diseases of Cotton in Cordoba, Colombia

Juan de Dios Jaraba and Alfredo Jarma, Universidad de Córdoba, Montería, Colombia

11:15 AM Spatial and Temporal Variation in Fungal Endophyte Communities Isolated From Cultivated Cotton (*Gossypium hirsutum*): Implications for Sustainable Agriculture Practices

Maria Julissa Ek-Ramos¹, Wenqing Zhou¹, Cesar U. Valencia¹, Josephine B. Antwi¹, Lauren L. Kalns¹, Gaylon Morgan², David Kerns³ and Gregory A. Sword¹, (1)Entomology Research Laboratory Building 815, Department of Entomology, Texas A&M University, College Station, TX, (2)348 Soil and Crop Sciences, Texas AgriLife Extension, Texas A&M University, College Station, TX, (3)Louisiana State University, Baton Rouge, LA

11:30 AM Manipulating Beneficial Fungal Endophytes for the Protection of Cotton in the Field

Gregory A. Sword¹, Maria Julissa Ek-Ramos¹, Diana Castillo Lopez¹, Lauren Kalns¹, Wenqing Zhou¹, Cesar Valencia¹, James L. Starr², Terry A. Wheeler³, J. E. Woodward⁴ and Steve Hague², (1)Department of Entomology, Texas A&M University, College Station, TX, (2)Texas A&M University, College Station, TX, (3)Texas Agrilife Research, Lubbock, TX, (4)Texas A&M AgriLife Extension Service, Lubbock, TX

11:45 AM Enhanced Resistance Against a Broad Spectrum of Fungal Pathogens and Reniform Nematodes in Transgenic Cotton Plants Expressing an Arabidopsis NPR1 Gene

Keerti Rathore¹, Vilas Parkhi¹, Vinod Kumar¹, LeAnne Campbell¹, Sameer Joshi¹ and A. A. Bell², (1)Texas A&M University, College Station, TX, (2)USDA-ARS-Southern Plains Agricultural Research Center, College Station, TX

Technical Conferences Program

37th Annual Cotton Economics and Marketing Conference

Wednesday, January 9, 2013

Wednesday Morning

COTTON ECONOMIC OUTLOOK SYMPOSIUM

Salon C (Marriott Riverwalk Hotel) - 10:30 AM-12:00 PM

10:30 AM Welcoming Remarks

10:35 AM Cotton Marketer of the Year Award

10:45 AM Cotton and the 2012 Farm Bill

Joe Outlaw and James W. Richardson, Texas A&M University, College Station, TX

11:05 AM Input Costs and Acreage Implications

John Robinson, Texas A&M AgriLife Extension Service, College Station, TX

11:25 AM The New Cotton Market, Prices and Outlook

O.A. Cleveland, Mississippi State University, Mississippi State, MS

11:45 AM Discussion

Wednesday Afternoon

COTTON ECONOMICS & MARKETING - WEDNESDAY EARLY AFTERNOON

Salon C (Marriott Riverwalk Hotel) - 1:30 PM-3:15 PM

1:30 PM A Spatial Analysis of Technology Diffusion in Irrigation: Implications for Cotton Production

Andrew P. Wright, Darren Hudson and Maria Mutuc, Texas Tech University, Lubbock, SD

1:45 PM Impact of Efficient Irrigation Technologies On Precision Agriculture Adoption in Texas

Shyam Nair¹, Chenggang Wang¹, Eduardo Segarra¹, Jeff Johnson¹ and Margarita Velandia², (1)Texas Tech University, Lubbock, TX, (2) The University of Tennessee, Knoxville, TN

2:00 PM Cotton Profitability As Influenced by Cultivar, Irrigation and Nitrogen Level, and Harvesting System

William Keeling¹, Jeff W. Johnson², Chenggang Wang² and Randy K. Boman³, (1)Texas AgriLife Research, Lubbock, TX, (2)Texas Tech University, Lubbock, TX, (3)Oklahoma State University Southwest REC, Altus, OK

2:15 PM Interaction of Water and Nitrogen On Simulated Cotton Yield

Praveen Sapkota¹, J. W. Johnson², Stephan Maas¹ and Steve A. Mauget³, (1)Texas Tech University, Lubbock, TX, (2)Texas AgriLife Experiment Station, Lubbock, TX, (3)USDA-ARS, Lubbock, TX

2:30 PM Georgia Cotton Economics in the Post 555 Era

W. Don Shurley¹, Amanda R. Smith¹, A. Stanley Culpepper¹, Guy D. Collins¹, Jared R. Whitaker² and Phillip M. Roberts¹, (1)University of Georgia, Tifton, GA, (2)University of Georgia, Statesboro, GA

COTTON ECONOMICS & MARKETING POSTERS

Salon C (Marriott Riverwalk Hotel)

Estimating the Linkages Between Fuel Prices and Nitrogen Prices, Nitrogen Demand, and Cotton Production in Texas

Blake K. Bennett, Texas AgriLife Extension Service, Dallas, TX and Jeanne M. Reeves, Cotton Incorporated, Cary, NC

A Determination of Cotton Market Prices Required to Justify the Use of A Field Cleaner in Cotton Stripping

Blake K. Bennett, Texas AgriLife Extension Service, Dallas, TX, Jackie Smith, Texas AgriLife Extension Service, Lubbock, TX and Jeanne M. Reeves, Cotton Incorporated, Cary, NC

Conventional vs. Transgenic: The Showdown

R. Hogan, Texas A&M University, Fort Stockton, TX, Jason L. Johnson, Texas Cooperative Extension, Stephenville, TX, Warren L. Multer, Texas AgriLife Extension, Garden City, TX and Jeanne M. Reeves, Cotton Incorporated, Cary, NC

Comparison Univariate and Multivariate Tobit of the Timing for Precision Agricultural Adoption

Pattarawan Watcharaanantapong¹, R.K. Roberts², D. M. Lambert², J. A. Larson², M. Velandia³, B. C. English², Rod Rejesus⁴, M. C. Marra⁴, Ashok K. Mishra⁵ and Chenggang Wang⁶, (1)The University of Tennessee, Knoxville, TN, (2)Department of Agricultural Economics, The University of Tennessee, Knoxville, TN, (3)Department of Agricultural and Resource Economics, The University of Tennessee, Knoxville, TN, (4)North Carolina State University, Raleigh, NC, (5) Louisiana State University, Baton Rouge, LA, (6)Texas Tech University, Lubbock, TX

Cotton Acreage Response to Price Signals Due to Agricultural Policy and Market Conditions

Archie Flanders, University of Arkansas, Keiser, AR

Can Cotton Compete? Evaluating Cotton Crop Rotations in Northeastern Louisiana

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

COTTON ECONOMICS & MARKETING - WEDNESDAY LATE AFTERNOON

Salon C (Marriott Riverwalk Hotel) - 4:00 PM-5:30 PM

4:00 PM The Effects of Uniform Climate Change On International Cotton Prices and Production

Maria Erlinda Mutuc¹, Darren Hudson¹ and Jeanne M. Reeves², (1)Cotton Economics Research Institute at Texas Tech University, Lubbock, TX, (2)Cotton Incorporated, Cary, NC

4:15 PM Carbon Sequestration and Carbon Management Policy Effects On Production Agriculture in the Texas High Plains
Sanja Zivkovic and Darren Hudson, Texas Tech University, Lubbock, TX

4:30 PM Effects of Weather Extremes On Cotton Acreage Abandonment and Insurance Indemnities

George Frisvold and **Gan Jin**, University of Arizona, Tucson, AZ

Technical Conferences Program

37th Annual Cotton Economics and Marketing Conference

Thursday, January 10, 2013

Thursday Morning

COTTON ECONOMICS & MARKETING - THURSDAY EARLY MORNING

Salon C (Marriott Riverwalk Hotel) - 8:00 AM-10:00 AM

8:00 AM Comparative Economic Factors Impacting Cotton Acreage in the Mississippi Delta

Lawrence L. Falconer, Mississippi State University Extension Service, Stoneville, MS and **Steven W. Martin**, Mississippi State University, Stoneville, MS

8:15 AM Weed Resistance to Herbicides in Cotton Production: Summary Results From a Farmer Survey

J.A. Larson¹, **R.K. Roberts**¹, **D.M. Lambert**¹, **B.C. English**¹, **K. J. Bryant**², **R. Hogan**³, **A. Mishra**⁴, **J. L. Johnson**⁵, **S. W. Martin**⁶ and **J. M. Reeves**⁷, (1)Department of Agricultural & Resource Economics, The University of Tennessee, Knoxville, TN, (2)University of Arkansas - Monticello, Monticello, AR, (3)Texas A&M University, Fort Stockton, TX, (4)Agricultural Economics and Business Development, Baton Rouge, LA, (5)Texas Cooperative Extension, San Angelo, TX, (6)Mississippi State University, Stoneville, MS, (7)Cotton Incorporated, Cary, NC

8:30 AM Impact of Alternative Land Rental Agreements On the Profitability of Cotton Producers Across the Cotton Belt

Leah M. Duzy, USDA-ARS, Auburn, AL and **Jessica A. Kelton**, Auburn University, Auburn University, AL

8:45 AM Evaluation of the Loss of Direct Payments On the Financing and Profitability of Cotton Farms of the Texas High Plains

Jay Yates, Bridget Guerrero and Jackie Smith, Texas A&M AgriLife Extension Service, Lubbock, TX

9:00 AM Factors Influencing Cotton Producers' Choice of Marketing Outlet

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

9:15 AM Blending Away From Consumer Demand: The Impact of the 2011 Cotton Price Spike On Apparel Retail Offerings and Consumers' Reactions towards Fiber Substitution

Justin R. Coates, Cotton Incorporated, Cary, NC

COTTON ECONOMICS & MARKETING - THURSDAY LATE MORNING

Salon C (Marriott Riverwalk Hotel) - 10:30 AM-12:00 PM

10:30 AM Is the Economic Benefit of Bt Cotton Dying Away in China

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

10:45 AM Cotton Farming and Farmers in Hebei Province, Northern China

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

11:00 AM A Study of Mechanization of Cotton Harvesting in India: Implications for International Markets

Srinivasa Konduru¹, **Fumiko Yamazaki**² and **Mechel Paggi**², (1) California State University, Fresno, CA, (2)California State University, Fresno, Fresno, CA

11:15 AM A Study of the Impact of the EU Common Agricultural Policy On Production of Cotton in Greece: Implications for US Cotton Exports

Srinivasa Konduru¹, **Fumiko Yamazaki**² and **Mechel Paggi**², (1) California State University, Fresno, CA, (2)California State University, Fresno, Fresno, CA

11:30 AM Cotton Market Integration Across Countries, Among Qualities, and Through Time

Jon Devine, Cotton Incorporated, Cary, NC

Technical Conferences Program

62nd Annual Cotton Engineering-Systems Conference

Wednesday, January 9, 2013

Wednesday Afternoon

COTTON ENGINEERING-SYSTEMS - WEDNESDAY EARLY AFTERNOON

Salons E/F (Marriott Riverwalk Hotel) - 1:30 PM-3:15 PM

1:30 PM Effects of Image Spatial and Radiometric Resolutions On the Detection of Cotton Plants

Chenghai Yang, John K. Westbrook, Charles P. Suh, Yubin Lan and Ritchie S. Eyster, USDA-ARS, College Station, TX

1:45 PM Using Airborne Imagery to Monitor Cotton Root Rot Progression in Fungicide-Treated and Untreated Cotton Fields

Chenghai Yang¹, Gary N. Odvody², Carlos J. Fernandez³, Juan A. Landivar², Richard R. Minzenmayer⁴ and Robert L. Nichols⁵, (1)USDA-ARS, College Station, TX, (2)Texas AgriLife Research and Extension Center, Corpus Christi, TX, (3)Texas A&M AgriLife Research, Corpus Christi, TX, (4)Texas AgriLife Extension Service, Ballinger, TX, (5)Cotton Incorporated, Cary, NC

2:00 PM Ground-Based Technologies for Cotton Root Rot Control: Results From a Three Year Experiment

Curtis D. Cribben¹, Alex Thomasson², Yufeng Ge¹, Cristine Morgan³, Chenghai Yang⁴ and Robert L. Nichols⁵, (1)Texas A&M University, College Station, TX, (2)Texas A&M University, Department of Biological & Agricultural Engineering, College Station, TX, (3)Texas A&M University, Soil & Crop Sciences Department, College Station, TX, (4)USDA-ARS, College Station, TX, (5)Cotton Incorporated, Cary, NC

2:15 PM FAO Aquacrop Model for Irrigated Cotton in the Humid Southeast U.S.A

Ahmad Khalilian¹, Xin Qiao¹ and Hamid Farahani², (1)Clemson University, Blackville, SC, (2)USDA-NRCS, Greensboro, NC

2:30 PM Farm Irrigation Scheduling in Different Soil Types

Mukhammadzakhrab Ismanov, University of Arkansas Cooperative Extension Service, Marianna, AR, Leo Espinoza, University of Arkansas Cooperative Extension Service, Little Rock, AR and Christopher Garrett Henry, University of Arkansas Cooperative Extension Service, Stuttgart, AR

2:45 PM Effects of Supplemental Irrigation On Cotton Yield and Fiber Quality

Ruixiu Sui, USDA-ARS Crop Production Systems Research Unit, Stoneville, MS, Richard K. Byler, USDA-ARS Cotton Ginning Research Unit, Stoneville, MS and Daniel K. Fisher, USDA Agricultural Research Service, Stoneville, MS

3:00 PM Influence of Management Strategies On Cotton Sustainability Using the Field to Market Fieldprint Calculator

Lori Gibson and Michael J. Buschermohle, Biosystems Engineering and Soil Science, The University of Tennessee, Knoxville, TN

COTTON ENGINEERING-SYSTEMS - WEDNESDAY LATE AFTERNOON

Salons E/F (Marriott Riverwalk Hotel) - 3:45 PM-5:15 PM

3:45 PM Using Yield Monitors to Evaluate Cotton Variety Tests

Randy Taylor¹, Randy Boman², Wesley M. Porter¹, Shane Osborne³, Tom Barber⁴, Blake McClelland⁵, Will Henderson⁶, Michael J. Buschermohle⁷, John Wilkerson⁸, Chris Main⁹, Lori Gibson⁷, John P. Fulton¹⁰, Dale Monks¹⁰, Greg Pate¹¹, John Wanjura¹², Mark Kelley¹³, Chris Ashbrook¹⁴, Alex Thomasson¹⁵, Gaylon Morgan¹⁶, Yufeng Ge¹⁷, Guy Collins¹⁸, George Vellidis¹⁸ and Ed Barnes¹⁹, (1)Oklahoma State University, Stillwater, OK, (2)Oklahoma State University Southwest REC, Altus, OK, (3)Oklahoma State University, Altus, OK, (4)Division of Agriculture, University of Arkansas, Little Rock, AR, (5)University of Arkansas Division of Agriculture, Keiser, AR, (6)Clemson University, Blackville, SC, (7)Biosystems Engineering and Soil Science, The University of Tennessee, Knoxville, TN, (8)University of Tennessee, Knoxville, TN, (9)The University of Tennessee, Jackson, TN, (10) Auburn University, Auburn, AL, (11)Auburn University, Shorter, AL, (12)USDA-ARS, Lubbock, TX, (13)Texas Cooperative Extension, Lubbock, TX, (14)Texas AgriLife Extension Service, Lubbock, TX, (15)Texas A&M University, Department of Biological & Agricultural Engineering, College Station, TX, (16)Texas AgriLife Extension, College Station, TX, (17)TAMU - BAEN Dept., College Station, TX, (18) University of Georgia, Tifton, GA, (19)Cotton Incorporated, Cary, NC

4:00 PM Comparison of Fibre Quality Harvested with Round and Conventional Modules

Marinus van der Sluijs, CSIRO Materials Science and Engineering, Geelong, Australia

4:15 PM Tracking Fiber Quality On a Stripper Harvester Part II

Wesley M. Porter¹, John D. Wanjura², Randy Taylor¹, Randy Boman³ and Michael D. Buser⁴, (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

4:30 PM Optimization of a Cottonseed Dehulling Process to Yield Intact Seed Meats

Jacob L. Nunneley¹, William B. Faulkner¹, Matthew V. Shimek¹, Greg A. Holt² and Tom C. Wedegaertner³, (1)Texas A&M University, College Station, TX, (2)USDA-ARS, Lubbock, TX, (3)Cotton Incorporated, Cary, NC

4:45 PM Evaluation of Composites Made From Blends of Cotton Burs, Cotton Stalks, Kenaf, Flax, and Southern Pine: Heat Treatments to Improve Physical and Mechanical Properties and Rot Resistance

Greg A. Holt¹, Mathew Pelletier¹, John Wanjura¹, Poo Chow² and Tom Wedegaertner³, (1)USDA-ARS Cotton Production and Processing Research Unit, Lubbock, TX, (2)Urbana, IL, (3)Cotton Incorporated, Cary, NC

Technical Conferences Program

62nd Annual Cotton Engineering-Systems Conference

Thursday, January 10, 2013

Thursday Morning

COTTON ENGINEERING-SYSTEMS - THURSDAY EARLY MORNING

Salons E/F (Marriott Riverwalk Hotel) - 8:00 AM-10:00 AM

8:00 AM An Improved Method to Determine the Explosibility of Dust Over the ASTM Explosible Dust Testing Standards

Balaji Ganesan, Dr. Calvin Parnell and Russell McGee, Texas A&M University, College Station, TX

8:15 AM Particulate Removal From Simulated High Temperature Gas Streams Using Cyclones

Daniel Robert Luehrs, Texas A&M University, College Station, TX

8:30 AM Removal of Biochar From Syngas Produced by Fluidized Bed Gasification

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

8:45 AM Characterization of Cotton Gin PM2.5 Emissions Based On EPA Stack Sampling Methodologies and Particle Size Distributions

Michael D. Buser, Oklahoma State University - Biosystems and Agricultural Engineering, Stillwater, OK, Derek P. Whitelock, USDA-ARS Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM, 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

9:00 AM Characterization of Cotton Gin PM10 Emissions Based On EPA Stack Sampling Methodologies and Particle Size Distributions

Michael D. Buser, Oklahoma State University - Biosystems and Agricultural Engineering, Stillwater, OK, Derek P. Whitelock, USDA-ARS Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM, 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

9:15 AM Characterization of Cotton Gin Total Particulate Matter Emissions Based On EPA Stack Sampling Methodologies

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

Technical Conferences Program

29th Annual Cotton Ginning Conference

Wednesday, January 9, 2013 and Thursday, January 10, 2013

Wednesday Afternoon

COTTON GINNING - WEDNESDAY EARLY AFTERNOON

Salon D (Marriott Riverwalk Hotel) - 1:30 PM-3:30 PM

Presiding: Lee Tiller

1:30 PM Cotton Ginning Trends

Thomas D. Valco, USDA, ARS, Stoneville, MS and Harrison Ashley, National Cotton Council, Cordova, TN

1:45 PM Quality of 2012 Cotton Crop

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

2:00 PM Panel - Ginner Experiences Handling John Deere Round Module Wrap

2:05 PM John Deere Round Module Cotton Harvester

Dave Winter, John Deere Equipment, Ankeny, IA

2:20 PM Ginner Experience with Round Modules West

2:30 PM Ginner Experience with Round Modules SW

2:40 PM Ginner Experience with Round Modules MS

2:50 PM Ginner Experience with Round Modules SE

3:00 PM Contamination Prevention -- Striving for Zero Tolerance --

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

3:15 PM Removal of Plastic Sheet Material with Normal Cotton Ginning Equipment

R. K. Byler, USDA-ARS, Stoneville, MS, Bobby Hardin, Cotton Ginning Laboratory - Stoneville, Stoneville, MS and J. Clif Boykin, USDA-ARS Cotton Ginning Research Unit, Stoneville, MS

COTTON GINNING - WEDNESDAY LATE AFTERNOON

Salon D (Marriott Riverwalk Hotel) - 4:00 PM-5:30 PM

Presiding: Lee Tiller

4:00 PM Cultivar Differences in Trash Content Related to Leaf and Bract Trichomes

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

4:15 PM 2013 Universal Cotton Standards Activities

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

4:30 PM The Future of Bale Packaging

David Duke, Signode Industry Packaging Systems, Matthews, NC

4:45 PM Update On New Product Developments From Cherokee

Mark D. Cory, Cherokee Fabrication Co. Inc., Salem, AL

5:00 PM Look, "No Hands" Unwrapping: Automatic Wrap Removal

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

Thursday Morning

COTTON GINNING - THURSDAY EARLY MORNING

Salon D (Marriott Riverwalk Hotel) - 8:00 AM-10:00 AM

Presiding: Richard Kelley

8:00 AM An Overview of USDA, AMS Cotton Market News Reports and Information

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

8:15 AM Changes in Cotton Gin Energy Use Over the Past 50 Years

Paul A. Funk, USDA-ARS-Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM, Bobby Hardin, Cotton Ginning Laboratory - Stoneville, Stoneville, MS, S. E. Hughs, Southwest Cotton Ginning Lab, USDA-ARS, Mesilla Park, NM and J. Clif Boykin, USDA-ARS Cotton Ginning Research Unit, Stoneville, MS

8:30 AM Electric Demand Response Opportunities for Cotton Gins in the ERCOT Market

Bill Thomas, Thomas Engineering, Inc., Corpus Christi, TX

8:45 AM Energy Monitoring in Gins - 2012 Preliminary Results

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

9:00 AM Using Newly-Designed Lint Cleaner Grid Bars to Remove Seed Coat Fragments

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

9:15 AM A Web-Based Tool for Saw-Type Lint Cleaner Modeling

Yufeng Ge, TAMU - BAEN Dept., College Station, TX, J. A. Thomasson, Texas A&M University, Bio. & Ag. Engineering, College Station, TX, Ed M. Barnes, Cotton Incorporated, Cary, NC and Roy Pallavi, Texas A&M University, College Station, TX

9:30 AM Impact of Gin Saw Tooth Design On Textile Processing

S.E. Hughs and C. B. Armijo, USDA-ARS Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM

9:45 AM Determining Seed Cotton Mass Flow Rate by Pressure Drop Across the Blowbox

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

Technical Conferences Program

29th Annual Cotton Ginning Conference

Thursday, January 10, 2013

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

Salon D (Marriott Riverwalk Hotel) - 10:30 AM-12:00 PM

Presidings: Thomas D. Valco

Harrison Ashley

10:30 AM Student Paper Presentation Awards

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

10:45 AM Drying Wet Seed Cotton with Microwave Radiation

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

11:00 AM Dynamic Sensor Verification for Microwave Bale Moisture Imaging

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

11:15 AM Field Evaluation of the Lummus Bale Moisture Monitor

Ross D. Rutherford¹, Eugene P. Columbus², Joe W. Thomas³, William D. Beeland³ and Russell M. Sutton¹, (1)Lummus Corporation, Lubbock, TX, (2)Consultant, Starkville, MS, (3)Lummus Corporation, Savannah, GA

11:30 AM The Accuracy and Calibration of Three Cotton Bale Moisture Sensors Used in a Commercial Gin with Lint Moisture Restoration

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

11:45 AM Discussion

Technical Conferences Program

65th Annual Cotton Improvement Conference

Wednesday, January 9, 2013

Wednesday Morning

COTTON IMPROVEMENT - WEDNESDAY LATE MORNING

Salon D (Marriott Riverwalk Hotel) - 10:30 AM-12:00 PM

10:30 AM PHY499WRF: An Improvement in Yield Potential and Stability of Yield

Mustafa McPherson¹, Joel F. Mahill² and Joe Johnson¹, (1)Phytogen Seed Company, LLC, Leland, MS, (2)Dow AgroSciences, Corcoran, CA

10:45 AM The Pee Dee Germplasm Enhancement Program: Where Have We Been and Where Are We Going?

B.Todd Campbell, USDA-ARS, Florence, SC

11:00 AM Breeding for High Levels of RKN Resistance in a Commercial Breeding Program

Don L. Keim, Monsanto, Scott, MS and Nilesh D. Dighe, Monsanto, Lubbock, TX

11:15 AM Breeding Efforts to Improve Fiber Maturity: Addressing Fiber Length Uniformity

Carol M. Kelly and Jane K. Dever, Texas A&M AgriLife Research, Lubbock, TX

11:30 AM Novel Approaches Used in the University of Arkansas Cotton Breeding Program

Fred Bourland, University of Arkansas, Keiser, AR and Don Jones, Cotton Incorporated, Cary, NC

Wednesday Afternoon

COTTON IMPROVEMENT - WEDNESDAY EARLY AFTERNOON - STUDENT PAPER COMPETITION

Salons A/B (Marriott Riverwalk Hotel) - 1:30 PM-3:15 PM

1:30 PM Utilizing Next-Generation Genotyping-by-Sequencing for Cotton Improvement

Carla Jo Logan-Young¹, John Z. Yu², Surender K. Verma³, Richard G. Percy², Ryan F. McCormick² and Alan E. Pepper¹, (1)Texas A&M University, College Station, TX, (2)USDA-ARS, Southern Plains Agricultural Research Center, Crop Germplasm Research Unit, College Station, TX, (3)Visiting Scientist: USDA-ARS-SPARC and Texas A&M University ;Permanent Office: Central Institute for Cotton Research, Sirsa, India

1:45 PM Stabilizing a Naked Seed Mutant in Upland Cotton
Bralie R. Hendon¹, **Dick L. Auld¹**, Efreem Bechere², Glen L. Ritchie¹ and Eric F. Hequet³, (1)Texas Tech University, Lubbock, TX, (2)USDA-ARS, Stoneville, MS, (3)Fiber and Biopolymer Research Institute - Dept. Plant & Soil Science, Texas Tech University, Lubbock, TX

2:00 PM Thrips Resistance and Field Performance of Advanced Cotton Breeding Lines and Cultivars Under Organic Management

Dylan Q. Wann¹, Jane K. Dever², Megha N. Parajulee², Mark D. Arnold² and Heather D. Flippin², (1)Texas A&M AgriLife Research & Texas Tech University, Lubbock, TX, (2)Texas A&M AgriLife Research, Lubbock, TX

2:15 PM Improvement of Work-to-Break Characteristics of Cotton (*Gossypium hirsutum* L.) Fibers and Yarn Through Breeding and Selection for Improved Fiber Elongation

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

2:30 PM Genetics of Elongation in Upland Cotton

Eng Hwa Ng¹, C.Wayne Smith², Eric F. Hequet³ and Steve Hague¹, (1) Texas A&M University, College Station, TX, (2)Texas A&M, College Station, TX, (3)Fiber and Biopolymer Research Institute - Dept. Plant & Soil Science, Texas Tech University, Lubbock, TX

2:45 PM Distribution of Fiber Length and Strength in F2 and BCP1 Populations

Kari L. Hugie¹, Kolbyn S. Joy¹ and C. W. Smith², (1)Texas A&M, College Station, TX, (2)Texas A&M University, College Station, TX

3:00 PM Transgressive Segregation for Fiber Properties of Three Selected Populations in Cotton

Benjamin Tyler Meritt¹, C. W. Smith², R. Percy³ and Steve Hague², (1)Texas A&M, College Station, TX, (2)Texas A&M University, College Station, TX, (3)USDA/ARS, College Station, TX

COTTON IMPROVEMENT - WEDNESDAY LATE AFTERNOON - STUDENT PAPER COMPETITION CONTINUES

Salons A/B (Marriott Riverwalk Hotel) - 4:00 PM-6:00 PM

4:00 PM Evaluation of Testing Locations in Central and South Texas

Rasha Al-Azzawi, S. Hague, C.W. Smith and D. Deno, Texas A&M University, College Station, TX

4:15 PM Salt Responses of Four Cotton Genotypes Grown in Two Soils

Brian Barrick, Zena Archie, April Ulery and Jinfa Zhang, New Mexico State University, Las Cruces, NM

4:30 PM High-Resolution Recombination to Dissect an Alien Segment of Cotton Chromosome-11 with Resistance to Reniform Nematodes

Xiuting Zheng¹, Jose Quintana², David M. Stelly¹, Alois A. Bell², Hamid Ashrafi³, Allen Van Deynze³, Don C. Jones⁴ and Robert L. Nichols⁴, (1)Texas A&M University, College Station, TX, (2)USDA-ARS-SPARC, College Station, TX, (3)University of California -Davis, Davis, CA, (4)Cotton Incorporated, Cary, NC

4:45 PM Inheritance and Stability of Mutation-Based Herbicide Tolerance in Cotton (*Gossypium hirsutum* L.)

G.S. Cutts, Texas A&M Agrilife Research, Lubbock, TX and Jane K. Dever, Texas A&M AgriLife Research, Lubbock, TX

5:00 PM Stability Analysis of Upland Cotton in Texas

Whitney Minton Jones Jones, TAMU Cotton Improvement, College Station, TX and C. W. Smith, Texas A&M University, College Station, TX

5:15 PM Historical Photographs and Contributions of the Cotton Improvement Lab At Texas A&M University

S. Hague, C.W. Smith and D. Deno, Texas A&M University, College Station, TX

Technical Conferences Program

65th Annual Cotton Improvement Conference

Thursday, January 10, 2013

Thursday Morning

COTTON IMPROVEMENT - THURSDAY EARLY MORNING

Salons A/B (Marriott Riverwalk Hotel) - 8:00 AM-10:00 AM

8:00 AM Discovery of Fusarium Wilt Race 4 Resistance in Cotton

Mauricio Ulloa¹, Robert B. Huttmacher², Philip A. Roberts³, Steven D. Wright⁴, Robert L. Nichols⁵, R. Michael Davis⁶ and John J. Burke¹, (1) USDA-ARS, SPA, Cropping Systems Research Laboratory, Lubbock, TX, (2)University of California - Davis & West Side REC, Five Points, CA, (3)University of California Riverside, Riverside, CA, (4)University of California Cooperative Extension, Tulare County, Tulare, CA, (5) Cotton Incorporated, Cary, NC, (6)University of California, Dept. of Plant Pathology, Davis, CA

8:15 AM CottonGen: An Integrated Web-Database for Cotton Genomics, Genetics and Breeding Research

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, College Station, TX

8:30 AM Predicting Yarn Quality: An Indispensable Tool for Cotton Breeders

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

8:45 AM Estimating Fibers/Seed: Is Fineness Better Than Micronaire?

Jenny D. Clement, CSIRO, Narrabri, Australia and Greg A. Constable, CSIRO Plant Industry, Narrabri 2390, Australia

9:00 AM Initial Characterization of a Stoneville 474 X Phytogen 72 Recombinant Inbred Population

John J. Burke and Mauricio Ulloa, USDA-ARS, SPA, Cropping Systems Research Laboratory, Lubbock, TX

9:15 AM Agronomic Performance of Barbados and Longicalyx Derived Breeding Lines

Ted P. Wallace¹, P. M. Thaxton², Bobby Golden², G. W. Lawrence¹, Jodi Scheffler³, K. S. Lawrence⁴, David Weaver⁴ and Roelof B. Sikkens⁴, (1)Mississippi State University, Mississippi State, MS, (2)Mississippi State University, Stoneville, MS, (3)USDA-ARS, Stoneville, MS, (4) Auburn University, Auburn, AL

9:30 AM Effect of Glyphosate On the Gamete Fertility of Transgenic Glyphosate-Resistant Cotton Germplasms with Epsps-G6

Zhu Shuijin, Zhejiang University, Hangzhou, China

9:45 AM Business Meeting

COTTON IMPROVEMENT - THURSDAY LATE MORNING

Salons A/B (Marriott Riverwalk Hotel) - 10:30 AM-12:00 PM

10:30 AM The Genetic Structure of the US Upland Cotton Cultivars As Revealed by SSR Markers

Priyanka Tyagi¹, Michael Gore², Daryl T. Bowman¹ and **Vasu Kuraparthi**¹, (1)North Carolina State University, Raleigh, NC, (2) USDA-ARS, US Arid-Land Agricultural Research Center, Maricopa, AZ

10:45 AM Mapping Cotton Fiber Quality Trait QTLs Using Random-Mated Recombinant Inbred Population

David Fang, USDA-ARS-SRRC, New Orleans, LA, J. N. Jenkins, USDA-ARS, Mississippi State, MS, J. C. McCarty, USDA/ARS Crop Science Research Laboratory, Mississippi State, MS and Dewayne Deng, Usda-Ars, Mississippi State, MS

11:00 AM RNAi-Mediated Ultra-Low Gossypol Cottonseed Trait: Performance of Transgenic Lines Under Field Conditions

Keerti S. Rathore and Sreenath R. Palle, Texas A&M University, College Station, TX

11:15 AM Cloning and Sequence Analysis of the Omega-3 Fatty Acid Desaturase Gene Family in Cotton

Jon Millhollon, T.J. Lentz, Michael Gore and **John M. Dyer**, USDA-ARS, US Arid-Land Agricultural Research Center, Maricopa, AZ

11:30 AM Awards

Thursday Afternoon

COTTON IMPROVEMENT - THURSDAY EARLY AFTERNOON

Salons A/B (Marriott Riverwalk Hotel) - 1:30 PM-3:00 PM

1:30 PM RNAi Construct of a P450 Gene Blocks an Early Step in Hemigossypolone and Gossypol Synthesis in Transgenic Cotton Plants

Tanya A. Wagner¹, Jinggao Liu¹, Robert D. Stipanovic¹, Lorraine S. Puckhaber¹, Howard Williams² and Alois A. Bell¹, (1)USDA ARS CPRU, College Station, TX, (2)Texas A&M University, College Station, TX

1:45 PM Ultra-Low Gossypol Cottonseed: Stability and Specificity of the RNAi-Mediated Trait and Performance of Transgenic Lines Under Field Conditions

Sreenath R. Palle¹, Leanne M. Campbell¹, Devendra Pandeya¹, Lorraine Puckhaber², Lauren K. Tollack¹, Sylvain Marcel¹, Sabarinath Sundaram¹, Robert D. Stipanovic², Thomas C. Wedegaertner³, Lori Hinze² and Keerti S. Rathore¹, (1)Texas A&M University, College Station, TX, (2)USDA-ARS-SPARC, College Station, TX, (3)Cotton Incorporated, Cary, NC

2:00 PM Tissue Specific Transcriptome Changes During Water Deficit Stress in Tetraploid Cotton

Megan J. Bowman¹, Wonkeun Park², Joshua A. Udall³, Justin T. Page³, Philip J. Bauer¹ and B.Todd Campbell¹, (1)USDA-ARS, Florence, SC, (2)Clemson University, Florence, SC, (3)Brigham Young University, Provo, UT

2:15 PM Distribution of Flutriafol in Plant Tissue and Soil Under Greenhouse and Field Conditions

John Zak, Texas Tech University, Lubbock, TX, Bobbie McMichael, Texas Tech University and Cotton Incorporated, Lubbock, TX, Kater D. Hake, Cotton Incorporated, Cary, NC and Trevor Mason, Texas Tech University Department of biology, Lubbock, TX

Technical Conferences Program

66th Annual Cotton Insect Research and Control Conference

Wednesday, January 9, 2013

Wednesday Morning

COTTON INSECT RESEARCH AND CONTROL ROUNDTABLE

Salon I (Marriott Rivercenter Hotel) - 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.

Wednesday Afternoon

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

Salon J (Marriott Rivercenter Hotel) - 1:00 PM-3:30 PM

Presiding: G. Studebaker

1:00 PM Prevathon Application Timings and Use Strategies in Cotton

Andrew Adams¹, Jeff Gore², D. R. Cook², F. R. Musser¹ and G. Awuni¹, (1)Mississippi State University, Mississippi State, MS, (2)Mississippi State University, Stoneville, MS

1:15 PM Effects of Early Infestations of Two-Spotted Spider Mites (*Tetranychus urticae*) On Cotton Growth and Yield

Luis Orellana¹, Gus Lorenz² and Ashley P. G. Dowling¹, (1)University of Arkansas, Entomology, Fayetteville, AR, (2)University of Arkansas Cooperative Extension Service, Lonoke, AR

1:30 PM Wheat Cover Crops and Spatial Variability Of Thrips and Tarnished Plant Bug Infestations In Midsouth Cotton

Erin Jane Kelly¹, Tina Gray Teague¹ and D.K. Morris², (1)Arkansas State University - University of Arkansas Agricultural Experiment Station, State University, AR, (2)Arkansas State University, State University, AR

1:45 PM Impact of Two-Spotted Spider Mite On Cotton Yields

Wilks Wood¹, Jeff Gore², A. L. Catchot³, D. R. Cook², S. D. Stewart⁴, G. Lorenz⁵ and B. R. Leonard⁶, (1)Mississippi State University - DREC, Stoneville, MS, (2)Mississippi State University, Stoneville, MS, (3)Mississippi State University, Mississippi State, MS, (4)Jackson, TN, (5)University of Arkansas Cooperative Extension Service, Lonoke, AR, (6)LSU AgCenter, Winnsboro, LA

2:00 PM Effects of Herbicide/Insecticide Tank Mixes On Efficacy of Thrips Control and Phytotoxicity in Seedling Cotton

Derek Clarkson, University of Arkansas Dept. of Entomology, Fayetteville, AR, G. M. Lorenz, University of Arkansas Division of Agriculture, Little Rock, AR, L. T. Barber, Division of Agriculture, University of Arkansas, Little Rock, AR and J. Eric Howard, University of Arkansas, Southeast Research and Extension Center, Monticello, AR

2:15 PM Negative Effects of the Entomopathogenic Fungal Endophytes *Paecilomyces lilacinus* and *Beauveria bassiana* On Cotton Aphid Reproduction in Greenhouse and Field Conditions

Diana Castillo Lopez, Maria Julissa Ek-Ramos, Keyan Zhu-Salzman, Steve Hague and Greg Sword, Texas A&M University, College Station, TX

2:30 PM Breeding towards Increased Resistance to Cotton Fleahopper (Hemiptera: Miridae)

Laura Ann McCloud and S. Hague, Texas A&M University, College Station, TX

2:45 PM Glandless Cotton in New Mexico: Impact of Nitrogen On Gossypol Associated Resistance to Cotton Bollworm and Beet Armyworm

Andrew Garnett¹, Jane Breen Pierce¹, Patrica Monk¹, Omololu John Idowu² and Robert Flynn¹, (1)New Mexico State University, Artesia, NM, (2)New Mexico State University, Las Cruces, NM

3:00 PM Examining the Effects of Aphids and Water Stress On Cotton Yield

Warren B. Sconiers and Micky Eubanks, Texas A&M University, College Station, TX

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

Salon I (Marriott Rivercenter Hotel) - 1:30 PM-3:15 PM

Presiding: Jeff Gore

1:30 PM Cotton Insect Losses - 2012

Michael Williams, Mississippi State University, Abbeville, MS

1:45 PM Summary of the Beltwide Insecticide Performance Survey

Jeff Gore¹, D. R. Cook¹ and A. L. Catchot², (1)Mississippi State University, Stoneville, MS, (2)Mississippi State University, Mississippi State, MS

2:00 PM Insecticide Selection When a Complex of Pests Are Present

S. D. Stewart¹, G. Lorenz², A. L. Catchot³, Jeff Gore⁴ and D. R. Cook⁴, (1)Jackson, TN, (2)University of Arkansas Cooperative Extension Service, Lonoke, AR, (3)Mississippi State University, Mississippi State, MS, (4)Mississippi State University, Stoneville, MS

2:15 PM Challenges of Insect Pest Management in the MS Delta Region

A. L. Catchot, Mississippi State University, Mississippi State, MS and Jeff Gore, Mississippi State University, Stoneville, MS

2:30 PM Effects of Spray Adjuvants On Insecticide Performance

D. R. Cook¹, J. Gore¹, S. D. Stewart², G. M. Lorenz³, A. L. Catchot⁴, D. L. Kerns⁵, G.E. Studebaker⁶ 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, Winnsboro, LA, (6)Cooperative Extension Service University of Arkansas, Keiser, AR

Technical Conferences Program

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

Salon J (Marriott Rivercenter Hotel) - 4:00 PM-6:00 PM

Presiding: D. R. Cook

4:00 PM The Potential Benefits of Fleahopper Induced Defenses

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

4:15 PM The Effects of Manipulating Cotton Fungal Endophytes in the Field On Arthropod Community Structure

Lauren Kalns, Department of Entomology, College Station, TX, Maria Julissa Ek-Ramos, 120 Entomology Research Laboratory Building 815, College Station, TX, Steve Hague, Texas A&M University, College Station, TX and Gregory A. Sword, Entomology Research Laboratory Building 815, Department of Entomology, College Station, TX

4:30 PM High-Throughput Sequencing, Assembly and Analysis of Whole-Body Transcriptomes for Adult and Immature Tobacco Thrips

Sally V. Taylor¹, Jaap Van Kretschmar¹, Manal F. Abdelall², George G. Kennedy¹, Clyde E. Sorenson¹, Jack S. Bacheler¹ and R. Michael Roe¹, (1)North Carolina State University, Raleigh, NC, (2)Agricultural Genetic Engineering Research Institute, Giza, Egypt

4:45 PM A Comparison of Tarnished Plant Bug Populations From Different Regions in Mississippi

Brian P. Adams¹, Jeff Gore², A. L. Catchot¹, Fred Musser¹ and D. M. Dodds³, (1)Mississippi State University, Mississippi State, MS, (2) Mississippi State University, Stoneville, MS, (3)Mississippi State University, Starkville, MS

5:00 PM Influence of Dual-Gene Bt Corn On Bollworm, *Helicoverpa zea*, Survivorship On Bollgard II Cotton

Ben Von Kanel¹, Angus Catchot¹, Jeff Gore¹, Fred Musser¹ and Ryan Jackson², (1)Mississippi State University, Mississippi State, MS, (2) USDA-ARS, Stoneville, MS

5:15 PM Effect of a Macrocyclic Lactone Insecticide, Emamectin Benzoate, On Some Biological Aspects of the Cotton Leafworm, *Spodoptera littoralis* (Boisd.)

Sanaa A. Ibrahim, Minia University, Minia, Egypt

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

Salon I (Marriott Rivercenter Hotel) - 4:00 PM-7:00 PM

Presiding: K. C. Allen

4:00 PM 2012-Season Update On Monitoring of Resistance to Bollgard II Cotton in Key Lepidopteran Pests in the United States

Douglas V. Sumerford, Paula A. Price, John T. Greenplate, William J. Moar, Matthew Carroll, Alan R. Willse and Graham P. Head, Monsanto Company, St Louis, MO

4:15 PM Evaluation of Insecticide Oversprays for Control of Bollworms in Transgenic Bt Cotton

Stephen P. Biles, Texas A&M AgriLife Extension Service, Port Lavaca, TX, Roy D. Parker, Texas A&M AgriLife Extension Service, Corpus Christi, TX, Clyde Crumley, Texas A&M AgriLife Extension Service, Wharton, TX, Richard Minzemayer, Texas A&M AgriLife Extension Service, Ballinger, TX, Monti R. Vandiver, Texas A&M AgriLife Extension Service, Muleshoe, TX, Kerry Siders, Texas A&M AgriLife Extension Service, Levelland, TX and Dale Mott, Texas A&M AgriLife Extension Service, College Station, TX

4:30 PM Impact of Foliar Applications of Prevathon On Conventional and Dual Gene Transgenic Cotton in the Midsouth

G. Lorenz¹, G. Studebaker², S. D. Stewart³, A. L. Catchot⁴, D. R. Cook⁵, Jeff Gore⁵ and D. L. Kerns⁶, (1)University of Arkansas Cooperative Extension Service, Lonoke, AR, (2)Univ. of Ark.- NEREC, Keiser, AR, (3)Jackson, TN, (4)Mississippi State University, Mississippi State, MS, (5)Mississippi State University, Stoneville, MS, (6)LSU AgCenter, Winnsboro, LA

4:45 PM Economic Comparisons of Bt and Non-Bt Cotton Under Different Insecticide Regimens in the MS Delta

K. C. Allen, R. E. Jackson, D. Adams and R. G. Luttrell, USDA-ARS, SIMRU, Stoneville, MS

5:00 PM TwinLink Dual Bt Cotton Technology - Performance Across The Globe

Mark Rinehardt¹, Scott Baker², Jonathan Holloway³, Walt Mullins⁴, Guillermo Waldino Videla⁵, Juliano Cesar da Silva⁶, Gary Henniger⁷, Linda Trolinder⁷ and Ezequiel Bassi⁵, (1)Bayer CropScience, Zebulon, NC, (2)Bayer CropScience, Memphis, TN, (3)Bayer CropScience, Vincentia, NSW, Australia, (4)Bayer CropScience, Collierville, TN, (5) Bayer CropScience, Buenos Aires, Argentina, (6)Bayer CropScience, Trindade, Brazil, (7)Bayer CropScience, Lubbock, TX

5:15 PM New Mechanism for Bt Resistance in Caterpillars

R. Michael Roe, J.B. van Kretschmar and Anirudh Dhammi, North Carolina State University, Raleigh, NC

5:30 PM Beltwide Pyrethroid Resistance Monitoring in Bollworms

Fred Musser, Mississippi State University, Mississippi State, MS, R. E. Jackson, USDA-ARS, SIMRU, Stoneville, MS, D. L. Kerns, LSU AgCenter, Winnsboro, LA, G.M. Lorenz, Cooperative Extension Service University of Arkansas, Little Rock, AR, S. D. Stewart, Jackson, TN, D. Ames Herbert, Virginia Tech, Suffolk, VA, Phillip Roberts, University of Georgia, Tifton, GA, Jeremy K. Greene, Clemson University, Blackville, SC, M. N. Parajulee, Lubbock, TX, Roy D. Parker, Texas A&M AgriLife Extension Service, Corpus Christi, TX and Dominic Reisig, North Carolina State University, Raleigh, NC

5:45 PM Short Break Before Business Mtg

6:00 PM Business Meeting and Awards

Technical Conferences Program

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Thursday Morning

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

Salon I (Marriott Rivercenter Hotel) - 8:00 AM-10:00 AM

Presiding: Dominic D. Reisig

8:00 AM Transform: A New Insecticide for Managing Insects in Mid-Southern U.S. Cotton

M.W. Siebert, L. Walton, R. B. Lassiter, D.T. Ellis, B. Haygood and J.D. Thomas, Dow AgroSciences LLC, Indianapolis, IN

8:15 AM Transform WG for Insect Pest Management in Western Cotton

J.M. Richardson¹, Boris A. Castro², James D. Thomas¹, Peter C. Ellsworth³, Larry D. Godfrey⁴ and Steve D. Wright⁵, (1)Dow AgroSciences LLC, Indianapolis, IN, (2)Dow AgroSciences, LLC, Fresno, CA, (3)University of Arizona, Maricopa, AZ, (4)University of California, Davis, CA, (5)University of California, Tulare, CA

8:30 AM Sampling Methods and Control Strategies for Tarnished Plant Bugs in Mid-South Cotton

D. A. Whalen¹, Jeff Gore², A. L. Catchot¹, Fred Musser¹, Jeremy Greene³, B.R. Leonard⁴, D. R. Cook², Gordon Snodgrass⁵ and R. E. Jackson⁶, (1)Mississippi State University, Mississippi State, MS, (2)Mississippi State University, Stoneville, MS, (3)Clemson, Blackville, SC, (4)Louisiana State University, Baton Rouge, LA, (5)USDA ARS SIMRU, Stoneville, MS, (6)USDA-ARS, SIMRU, Stoneville, MS

8:45 AM Multi-Tactical Approach to Managing Tarnished Plant Bug in Mid-South Cotton

Kevin Lanford¹, A. L. Catchot¹, Jeff Gore², D. R. Cook², Fred Musser¹, Brian P. Adams¹, G. M. Lorenz³, Scott Stewart⁴ and B.R. Leonard⁵, (1)Mississippi State University, Mississippi State, MS, (2)Mississippi State University, Stoneville, MS, (3)University of Arkansas Cooperative Extension Service, Little Rock, AR, (4)The University of Tennessee, Jackson, TN, (5)Louisiana State University, Baton Rouge, LA

9:00 AM In-Planta Efficacy Evaluation of Lygus-Active Bt Proteins

Waseem Akbar, Stephen Penn, Konasale Anilkumar, Aaron Hagerty, Robert Brown, Mao Chen and Thomas Clark, Monsanto Company, Chesterfield, MO

9:15 AM Use of a Mustard Trap Crop to Study Efficacy of *Beauveria bassiana* Treatments to Corn and Soybean for Control of Tarnished Plant Bug in Cotton

R. G. Luttrell, Owen Houston, Maribel Portilla, Gordon Snodgrass and Ryan Jackson, USDA ARS SIMRU, Stoneville, MS

9:30 AM Assessment of Brown Marmorated Stink Bug Damage to Cotton

Katherine Kamminga¹, D. Ames Herbert², Sean Malone², Michael Toews³ and Tom Kuhar¹, (1)Virginia Tech, Blacksburg, VA, (2)Virginia Tech, Suffolk, VA, (3)University of Georgia, Tifton, GA

9:45 AM Association of Stink Bug Injury and Remotely Sensed Data in Cotton

Dominic D. Reisig, North Carolina State University, Vernon James Research and Extension Center, Plymouth, NC and Francis P. F. Reay-Jones, Clemson University, Florence, SC

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

Salon J (Marriott Rivercenter Hotel) - 8:00 AM-10:00 AM

Presiding: Jeremy K. Greene

8:00 AM New Options for Managing Thrips in the Upper Southeast

Jack Bacher¹, Todd Spivey¹, D. Ames Herbert², Dominic D. Reisig³, Keith Edmisten¹, Sean Malone² and Dan Mott¹, (1)North Carolina State University, Raleigh, NC, (2)Virginia Tech, Suffolk, VA, (3)North Carolina State University, Vernon James Research and Extension Center, Plymouth, NC

8:15 AM Current Options for Control of Thrips and Nematodes in South Carolina

Jeremy K. Greene, John D. Mueller, Dan Robinson, James Smoak and William W. Bonnette, Clemson University, Blackville, SC

8:30 AM Managing Thrips in Seedling Cotton with Starter Fertilizer and a Single Foliar Application

Michael D. Toews¹, Phillip Roberts¹, Scott Tubbs¹, Glenn Harris¹, Rajagopalbabu Srinivasan¹, Ronald Smith², Jeremy K. Greene³, Jack, S. Bacher⁴, Dominic Reisig⁴ 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

8:45 AM A Comparative Analysis of Seed Applied Insecticide/Nematicide Field Efficacy

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

9:00 AM Seasonal Occurrence and Diversity of Spider Mites in Cotton Fields From the Rio Grande Valley to the Coastal Bend

Raul T. Villanueva¹, Gabriela Esparza-Diaz¹, Michael Brewer² and J. S. Armstrong³, (1)Texas A&M AgriLife Extension - Weslaco, Weslaco, TX, (2)Texas A&M AgriLife Research and Extension Center, Corpus Christi, TX, (3)USDA-ARS, Stillwater, OK

9:15 AM Field Trials of Potentially Beneficial Fungal Endophytes in Cotton

Gregory A. Sword¹, Maria Julissa Ek-Ramos¹, Diana Castillo Lopez¹, Lauren Kalns¹, Wenqing Zhou¹, Cesar Valencia¹, James L. Starr², Terry A. Wheeler³, J. E. Woodward⁴ and Steve Hague², (1)Department of Entomology, Texas A&M University, College Station, TX, (2)Texas A&M University, College Station, TX, (3)Texas Agrilife Research, Lubbock, TX, (4)Texas A&M AgriLife Extension Service, Lubbock, TX

Technical Conferences Program

66th Annual Cotton Insect Research and Control Conference

Thursday, January 10, 2013

9:30 AM Endophytic Establishment of Fungi as an Unintended Consequence of Biocontrol with Fungal Entomopathogens

Cesar Valencia, Maria Julissa Ek-Ramos and Gregory A. Sword, Department of Entomology, Texas A&M University, College Station, TX

9:45 AM Studies On Fungal Pathogens for Controlling the Two-Spotted Spider Mite, *Tetranychus urticae* Koch

Mahmoud El-Said EL-Naggar, Plant Protection Res. Institute, Dokki, Egypt

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

Salon I (Marriott Rivercenter Hotel) - 10:30 AM-12:00 PM

Presiding: Tina Gray Teague

10:30 AM Characterization of Boll Damage Potential of *Lygus hesperus* and Its Relevance in Pest Management

Ram B. Shrestha, Megha N. Parajulee and Stanley C. Carroll, Texas A&M AgriLife Research and Extension Center, Lubbock, TX

10:45 AM Directed Sampling Using Cotman to Improve Late Season Decision Making in Spatially Variable Cotton Fields

Tina Gray Teague, Arkansas State University - University of Arkansas Agricultural Experiment Station, State University, AR, D. Keith Morris, Arkansas State University, State University, AR and Diana M. Danforth, University of Arkansas, Fayetteville, AR

11:00 AM Setting an Action (Boll Protection) Threshold for Verde Plant Bug Management, Based On Insect Density, Green Boll Injury, or Both

Michael J. Brewer and Darwin J. Anderson, Texas A&M AgriLife Research and Extension Center, Corpus Christi, TX

11:15 AM Elevated Metabolic Detoxification Associated with Multiple/Cross Resistance to Different Insecticide Classes in Tarnished Plant Bug

Yu Cheng Zhu, USDA-ARS, Stoneville, MS and Randall G. Luttrell, USDA ARS SIMRU, Stoneville, MS

11:30 AM Marked Insects Released in Recapture Studies May Influence Population Estimates of Native Insects

Dale W. Spurgeon, USDA-ARS-ALARC, Maricopa, AZ and William Rodney Cooper, USDA-ARS-YARL, Wapato, WA

11:45 AM Diversity of Biological Agent Populations Under Both of Pesticides and Bio-Control Applications of Cotton Fields

Malak Farah Gergis, Plant Protection Res. Institute, Giza, Egypt

COTTON INSECT RESEARCH AND CONTROL - THURSDAY LATE MORNING - SESSION B

Salon J (Marriott Rivercenter Hotel) - 10:30 AM-12:00 PM

Presiding: John K. Westbrook

10:30 AM California Pink Bollworm Update

Victoria Hornbaker, California Department of Food and Agriculture, Sacramento, CA

10:45 AM 2012 Arizona Pink Bollworm Eradication Program Update

Leighton R. Liesner¹, Larry Antilla¹, Mike Whitlow¹, Joahna Solis¹ and Robert T. Staten², (1)Arizona Cotton Research & Protection Council, Phoenix, AZ, (2)USDA, APHIS, PPQ, CPHST - Retired, Phoenix, AZ

11:00 AM 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

11:15 AM Arkansas Boll Weevil Eradication Foundation - 2012 Regina Coleman

Arkansas Boll Weevil Eradication Foundation, Forrest City, AR

11:30 AM Remote Identification of Potential Boll Weevil Host Plants: Airborne Multispectral Detection of Regrowth Cotton

John K. Westbrook, Charles P.-C. Suh, Chenghai Yang, Yubin Lan and Ritchie S. Eyster, USDA-ARS, APMRU, College Station, TX

11:45 AM Transform Field Performance On Cotton Pests in Texas

Jackie Lee¹, Vernon Langston¹, Jesse Richardson¹, Boris Castro¹, Ralph Lassiter¹, James Thomas¹, Roy Parker², David Kerns³ and Dustin Patman⁴, (1)Dow AgroSciences LLC, Indianapolis, IN, (2)Texas A&M AgriLife Research & Extension Center, Corpus Christi, TX, (3)Louisiana State University, Baton Rouge, LA, (4)Texas AgriLife Research & Extension Center, Crosbyton, TX

Technical Conferences Program

25th Annual Cotton Quality Measurements Conference

Wednesday, January 9, 2013 and Thursday, January 10, 2013

Wednesday Afternoon

COTTON QUALITY MEASUREMENTS - WEDNESDAY EARLY AFTERNOON

Conf. Room 12 (Marriott Rivercenter Hotel) - 1:30 PM-3:15 PM

1:30 PM Welcoming Remarks

1:35 PM Cotton Micronaire Measurements by a Small Portable Near-Infrared (NIR) Analyzer

James E. Rodgers, SRRC-ARS-USDA, New Orleans, LA

1:50 PM Near-Infrared Spectroscopy of Leaf and Bract Trash Samples

Chanel A. Fortier¹, James E. Rodgers¹ and J. Clif Boykin², (1)SRRC-ARS-USDA, New Orleans, LA, (2)USDA-ARS Cotton Ginning Research Unit, Stoneville, MS

2:05 PM NIR Technique in the Classification of Cotton Leaf Grade

Yongliang Liu, USDA, ARS, New Orleans, LA and Jonn Foulk, FX-Fibers LLC, Clemson, SC

2:20 PM Break

2:30 PM A Statistical Analysis of the Intra-Sample Distribution and Variation of Cotton Color and Its Application

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

2:45 PM At-Line Cotton Color Measurements by Portable Color Spectrophotometers

James E. Rodgers¹, Xiaoliang Cui¹, Chris Delhom², Vikki Martin³ and Michael Watson⁴, (1)SRRC-ARS-USDA, New Orleans, LA, (2)USDA-ARS-SRRC, New Orleans, LA, (3)Cotton Incorporated, Cary, NC, (4)Cary, NC

3:00 PM Investigation Into the Effect Fumigation by Ethylene Oxide On the Color of Cotton

Marinus van der Sluijs and Jeffrey Church, CSIRO Materials Science and Engineering, Geelong, Australia

COTTON QUALITY MEASUREMENTS - WEDNESDAY LATE AFTERNOON

Conf. Room 12 (Marriott Rivercenter Hotel) - 4:00 PM-5:30 PM

4:00 PM Impact of Fiber Length On HVI Strength

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

4:15 PM Investigation On Cotton Fiber Breakage

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

4:30 PM Experience of the Fibrotest for Measuring Cotton Fiber Length and Strength Properties

Xiaoliang "Leon" Cui¹, Yiyun Cai², Chris Delhom¹, James E. Rodgers³, Vikki B. Martin⁴ and Michael D. Watson⁴, (1)USDA-ARS-SRRC, New Orleans, LA, (2)Louisiana State University, Metairie, LA, (3)SRRC-ARS-USDA, New Orleans, LA, (4)Cotton Incorporated, Cary, NC

4:45 PM An Assessment of Alternative Cotton Fiber Quality Attributes and Their Influence On Yarn Strength

R. L. Long, CSIRO Materials Science and Engineering, Belmont, Victoria, Australia, Michael Bange, CSIRO Plant Industry, Narrabri, Australia, Christopher D. Delhom, USDA-ARS-SRRC, New Orleans, LA, Jeffrey S. Church, CSIRO Materials Science and Engineering, Geelong, Australia and Greg A. Constable, CSIRO Plant Industry, Narrabri 2390, Australia

Thursday Morning

COTTON QUALITY MEASUREMENTS - THURSDAY EARLY MORNING

Conf. Room 12 (Marriott Rivercenter Hotel) - 8:30 AM-10:00 AM

8:30 AM Introductory Remarks

8:35 AM Cotton Maturity Distributions and Immature Fiber Content

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

8:50 AM Effect of Fiber Maturity On Fiber Breakage and Yarn Evenness Properties

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

9:05 AM Multidisciplinary Approach to Investigate the Effects of Drought Stress On Cotton Fiber Quality

Zhuanzhuan Ma¹, Nouredine Abidi¹, Eric Hequet¹ and Junping Chen², (1)Fiber and Biopolymer Research Institute - Dept. Plant & Soil Science, Texas Tech University, Lubbock, TX, (2)USDA ARS, Lubbock, TX

9:20 AM Break

9:30 AM Understanding Water Content in Cottons Equilibrated to Moisture Equilibrium

Joe Montalvo¹, Terri M. Von Hoven¹, Richard K. Byler² and James L. Knowlton³, (1)USDA-ARS-SRRC, New Orleans, LA, (2)USDA-ARS Cotton Ginning Research Unit, Stoneville, MS, (3)USDA, AMS, Cotton Program, Memphis, TN

9:45 AM Impact of Storage On Fiber Quality

C. D. Delhom¹, G. R. Gamble², Chanel A. Fortier³, Alfred D. French¹, Devron P. Thibodeaux⁴, James E. Rodgers³ and Vikki B. Martin⁵, (1)USDA-ARS-SRRC, New Orleans, LA, (2)USDA-ARS, Quality and Safety Assessment Research Unit, Athens, GA, (3)SRRC-ARS-USDA, New Orleans, LA, (4)USDA-ARS (Retired), Clemson, SC, (5)Cotton Incorporated, Cary, NC

Technical Conferences Program

30th Annual Cotton Soil Management and Plant Nutrition Conference

Wednesday, January 9, 2013

Wednesday Morning

COTTON SOIL MANAGEMENT AND PLANT NUTRITION SPECIAL SESSION - FERTILIZER STABILIZERS

Salon M (Marriott Rivercenter Hotel) - 8:00 AM-10:00 AM

8:00 AM Cotton Response to Polymer Coated Urea in Mississippi

Bobby R. Golden¹, Jim Nichols¹, Lawrence L. Falconer² and M. Wayne Ebelhar¹, (1)Mississippi State University, Stoneville, MS, (2) Mississippi State University Extension Service, Stoneville, MS

8:30 AM Field Evaluation of AVAIL® Phosphorus Fertilizer Enhancer for Cotton

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

9:00 AM Improving Nitrogen Management in Cotton Production with Environmentally Smart Nitrogen (ESN)

Michael S. Howell, Matt Clover and Alan Blaylock, Agrium Advanced Technologies, Lumberton, MS

9:30 AM New Technology and Alternative N Sources for Crops in the Southern U.S

Brian Arnall, Oklahoma State University, Stillwater, OK, Charles Mitchell, Auburn University, Auburn, AL, Robert P. Flynn, New Mexico State University, Artesia, NM, M. L. McFarland, Texas AgriLife Extension, College Station, TX, M. Mozaffari, University of Arkansas, Fayetteville, AR and Deanna Osmond, North Carolina State University, Raleigh, NC

Wednesday Afternoon

COTTON SOIL MANAGEMENT AND PLANT NUTRITION - WEDNESDAY EARLY AFTERNOON

Salon M (Marriott Rivercenter Hotel) - 1:30 PM-3:15 PM

1:30 PM Cotton Response to N Fertilizer Rate On Soils Varying in EC

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

1:45 PM Effects of Nitrogen Application Timing On Cotton Under Different Planting Dates

Frank Yin, University of Tennessee, Jackson, TN and Chris L. Main, University of Tennessee, Jackson, TN

2:00 PM On-Farm Nitrogen Rate Trials Calibrate Grower Expectations

John S. Kruse, LSU AgCenter, Alexandria, LA and Dennis Burns, LSU Agricultural Center, St. Joseph, LA

2:15 PM Evaluation of Foliar Fertilizer On Nutrient Deficient Cotton

Rex Friesen, Southern Kansas Cotton Growers, Winfield, KS and Robert Nichols, Cotton Incorporated, Cary, NC

2:30 PM Alternative Nitrogen Strategy for Growing Cotton in the Mid-South

M. Wayne Ebelhar, Bobby R. Golden and Davis R. Clark, Mississippi

State University, Stoneville, MS

2:45 PM Factors Influencing Cotton Yields Following Corn in the Mid-South

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

3:00 PM Evaluating Cotton Yield Response to Residual Nitrogen in a Corn/Cotton Rotation System

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

COTTON SOIL MANAGEMENT AND PLANT NUTRITION - WEDNESDAY LATE AFTERNOON

Salon M (Marriott Rivercenter Hotel) - 4:00 PM-6:15 PM

4:00 PM Comparing Water Uptake Patterns in Subsurface Drip and Overhead Irrigated Cotton Systems

D.S. Munk¹, J.P. Mitchell², J.F. Wroble¹, J. Hollingsworth³ and A. Shrestha³, (1)University of California, Fresno, CA, (2)University of California, Davis, Parlier, CA, (3)California State University, Fresno, CA

4:15 PM A Retrospective Review of Cotton Irrigation Termination in the Midsouth

Michele L. Reba, USDA-ARS, State University, AR, Tina Gray Teague, Arkansas State University - University of Arkansas Agricultural Experiment Station, State University, AR and Earl D. Vories, USDA-ARS, Portageville, MO

4:30 PM Improving Nitrogen Management for Surface-Irrigated Cotton in Arizona

Kevin F. Bronson¹, Jarai Mon¹, Doug Hunsaker¹, Eduardo Bautista¹, Kelly Thorp¹, Andrew French¹, Pedro Andrade-Sanchez² and **Jeff White¹**, (1)USDA-ARS, US Arid Land Agric. Res. Center, Maricopa, AZ, (2)University of Arizona Maricopa Ag Center, Maricopa, AZ

4:45 PM Source and Timing of Nitrogen, Potassium, and Sulfur Side-Dress Applications in Virginia Cotton

Hunter Frame, Virginia Tech, Suffolk, VA, Chris Drake, Virginia Cooperative Extension, Courtland, VA and Robert Campbell, Weyerhaeuser Company, Vanceboro, NC

5:00 PM Yield Response of Dryland Cotton to Soil-Applied Potassium in the Upper Gulf Coast and Central Blacklands of Texas

D. L. Coker, M.L. McFarland, G.D. Morgan, **D.A. Mott** and Z.P. Eder, Texas A&M AgriLife Extension Service, College Station, TX

5:15 PM Response of Several Cotton Varieties to Timing of Nitrogen and Potassium Fertilization

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

5:30 PM Impact of Drought and High Nitrate Groundwater On Residual Soil Nitrogen

Paul B. DeLaune¹, Danielle Dittich² and Frank M. Hons², (1)Texas A&M AgriLife Research, Vernon, TX, (2)Texas A&M University, College Station, TX

5:45 PM Business Meeting

Technical Conferences Program

21st Annual Cotton Utilization Conference

Wednesday, January 9, 2013 and Thursday, January 10, 2013

Utilization: Textile Technology

Wednesday Morning

COTTON UTILIZATION CONFERENCE: EXPANDING COTTON UTILIZATION THROUGH RESEARCH AND EDUCATION

Conf. Rooms 17 & 18 (Marriott Rivercenter Hotel) - 10:30 AM-12:00 PM

10:30 AM Cotton University™: Extending Cotton's Reach To Supply Chain Companies and Universities
Ashley Thornton, Cotton Incorporated, Cary, NC

Utilization: Cotton Fabric Chemistry, Nonwovens & Products

Wednesday Afternoon

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

Conf. Room 8 (Marriott Rivercenter Hotel) - 1:30 PM-3:15 PM

1:30 PM SFG Analysis of Cellulose Polymorphs in Bleached, Mercerized, and I-NH₃ Treated Cotton Fabrics
Kenneth Greeson, Cotton Incorporated, Cary, NC and Seong H. Kim, Pennsylvania State University, University Park, PA

1:55 PM Evaluating Economic Potential for Cotton Utilization in Nonwoven Textile
Kishor P. Luitel, Darren Hudson and Dean Ethridge, Texas Tech University, Lubbock, TX

2:20 PM Kinetic of Dye Adsorption On Cationized Cotton Fabric
Noureddine Abidi, Sanjit Acharya, Rajeev Rajbhandari and Eric Hequet, Fiber and Biopolymer Research Institute - Dept. Plant & Soil Science, Texas Tech University, Lubbock, TX

2:45 PM Preparation, Characterization and Functionalization of Porous Cellulose Materials
Shanshan Li, Noureddine Abidi and Eric Hequet, Fiber and Biopolymer Research Institute - Dept. Plant & Soil Science, Texas Tech University, Lubbock, TX

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

Conf. Room 8 (Marriott Rivercenter Hotel) - 4:00 PM-5:30 PM

4:00 PM Prospects of Developing Low (-)-Gossypol Cottonseed for Use in Broiler Production
Shadman Namazov¹, R. Yuldosheva¹, T. Rakhimov¹, A. Amanturdiyev¹, Robert D. Stipanovic², Alois A. Bell², Vladimir R. Khaitov³, Vyacheslav V. Uzbekov⁴, Olga Veshkurova⁴ and Zamira Golubenko⁴, (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 of Veterinary, Samarkand, Uzbekistan, (4)Institute of Bioorganic Chemistry, Tashkent, Uzbekistan

4:20 PM Development of Secondary Cell Wall in Cotton Fibers As Examined with FT-IR Spectroscopy
Michael Santiago Cintrón, USDA, New Orleans, LA and Doug J. Hinchliffe, USDA-ARS-SRRC, New Orleans, LA

4:40 PM The Segal Crystallinity Index As It Relates to Crystallite Size
Alfred D. French and Michael Santiago Cintron, USDA-ARS-SRRC, New Orleans, LA

Utilization: Textile Technology

Thursday Morning

COTTON UTILIZATION CONFERENCE: TEXTILE TECHNOLOGY SYMPOSIUM - THURSDAY EARLY MORNING

Conf. Room 8 (Marriott Rivercenter Hotel) - 8:30 AM-10:00 AM

8:30 AM Welcoming Remarks
8:40 AM The Mixing Ability of Egyptian Cottons VIA CMI
Ibrahim Abdou El Hawary and Wael A. Hashima, Alexandria University Faculty of Engineering, Alexandria, Egypt
9:00 AM Spinning Performance of Australian Long Staple Cotton 340BRF
Shouren Yang, CSIRO, Geelong, Australia and Stuart Gordon, CSIRO Materials Science and Engineering, Belmont VIC, Australia
9:20 AM Yarn and Fabric Evaluations Using Fine-Count Plied Yarns From Texas Cottons
M. Dean Ethridge, Fiber & Biopolymer Research Institute, Texas Tech University, Lubbock, TX
9:40 AM Vortex Yarn Structure Characterization
Dana Kremenakova, Technical University of Liberec, Czech Republic, Liberec, Czech Republic

COTTON UTILIZATION CONFERENCE: TEXTILE TECHNOLOGY SYMPOSIUM - THURSDAY LATE MORNING

Conf. Room 8 (Marriott Rivercenter Hotel) - 10:30 AM-12:00 PM

10:30 AM Computer Intensive Approach to the Evaluation of Cotton Fibers Complex Quality
Jiri Militky and Dana Kremenakova, Technical University of Liberec, Czech Republic, Liberec, Czech Republic
10:50 AM Evaluation of Quickspin for Yarn Quality and Dye Uptake Assessments
Rajeev Rajbhandari, Noureddine Abidi and Eric Hequet, Fiber and Biopolymer Research Institute - Dept. Plant & Soil Science, Texas Tech University, Lubbock, TX
11:10 AM Differential Responses of Cotton Samples to Micronaire Variation
Mourad Krifa, The University of Texas at Austin, Austin, TX
11:30 AM Behavior of Pesticide Residues Extracted From Different Cotton Fibers Determined by the Interaction with Green Algae
Syed Zameer Ul Hassan and Jiri Militky, Technical University of Liberec, Czech Republic, Liberec, Czech Republic

Technical Conferences Program

37th Annual Cotton Weed Science Research Conference

Wednesday, January 9, 2013

Wednesday Morning

COTTON WEED SCIENCE RESEARCH SPECIAL SESSION - WEED MANAGEMENT: FUTURE TECHNOLOGIES AND TOOLS

Salon C (Marriott Riverwalk Hotel) - 8:00 AM-10:00 AM

8:00 AM The LibertyLink® System and Future Solutions

Ginger G. Light, Bayer CropScience LP, Lubbock, TX

8:30 AM The Enlist™ Weed Control System – Technologies and Stewardship to Meet Diverse Agricultural Needs

J.D. Siebert, Dow AgroSciences, Greenville, MS

9:00 AM Roundup Ready® Xtend Cotton

Scott Bollman, Monsanto Company, St. Louis, MO

9:30 AM Cotton Weed Management: Past, Present, and Future

Peter A. Dotray, Texas Tech University, AgriLife Research, and Texas AgriLife Extension Service, Lubbock, TX

Wednesday Afternoon

COTTON WEED SCIENCE RESEARCH - GRADUATE STUDENT PAPER SESSION

Conf. Rooms 17 & 18 (Marriott Rivercenter Hotel) - 1:30 PM-3:15 PM

1:30 PM Weed Control in Enlist Cotton with Delayed POST Applications

Rand M. Merchant¹, A. Stanley Culpepper¹, J.S. Richburg² and Peter M. Eure³, (1)University of Georgia, Tifton, GA, (2)Dow AgroSciences LLC, Indianapolis, IN, (3)The University of Georgia, Tifton, GA

1:45 PM An Assessment of Acetolachlor, Metolachlor, and Pyroxasulfone Use in Cotton

Peter M. Eure, A. Stanley Culpepper and Rand M. Merchant, University of Georgia, Tifton, GA

2:00 PM Herbicide Programs in Glytol-LibertyLink® Cotton

D. B. Johnson¹, J.K. Norsworthy¹, Holden D. Bell¹, D. O. Stephenson², D. K. Miller³ and Jason A. Bond⁴, (1)University of Arkansas, Fayetteville, AR, (2)LSU AgCenter, Alexandria, LA, (3)LSU AgCenter, St. Joseph, LA, (4)Mississippi State University, Stoneville, MS

2:15 PM Use of Enlist Duo and Residual Herbicides for Resistant Palmer Amaranth (*Amaranthus palmeri*) Control in Cotton (*Gossypium hirsutum*)

Ryan J. Edwards¹, Daniel B. Reynolds², Darrin M. Dodds², Jason A. Bond³ and L. Walton⁴, (1)Mississippi State University Dept. Plant and Soil Sciences, Starkville, MS, (2)Mississippi State University, Mississippi State, MS, (3)Mississippi State University, Stoneville, MS, (4)Dow AgroSciences LLC, Indianapolis, IN

2:30 PM Reducing Selection Pressure for PPO Resistance in No-till Cotton

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

2:45 PM Glyphosate and Glufosinate Application Timing for Glytol® + LibertyLink® Systems

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

3:00 PM Effect of Spray Tip Selection and Herbicide Program On Palmer Amaranth Control

D. Zachary Reynolds¹, Darrin M. Dodds¹, Tyler Dixon¹, Chase Samples¹ and J. Anthony Mills², (1)Mississippi State University, Mississippi State, MS, (2)Monsanto, Collierville, TN

COTTON WEED SCIENCE RESEARCH - WEDNESDAY LATE AFTERNOON

Conf. Rooms 17 & 18 (Marriott Rivercenter Hotel) - 4:00 PM-6:00 PM

4:00 PM Brake®: A Potential New Herbicide for Palmer Amaranth Control – What Have We Learned?

K.L. Smith, University of Arkansas - Division of Agriculture, Monticello, AR, **R. L. Nichols**, Cotton Incorporated, Cary, NC, Tyler Koschnick, SePRO Corporation, Carmel, IN, Jason Bond, Mississippi State University, Stoneville, MS, Barry J. Brecke, University of Florida, Jay, FL, A. Stanley Culpepper, University of Georgia, Tifton, GA, Jason Ferrell, University of Florida, Gainesville, FL, Michael W. Marshall, Clemson University, Blackville, SC, J.K. Norsworthy, University of Arkansas, Fayetteville, AR, Daniel B. Reynolds, Mississippi State University, Mississippi State, MS, L. E. Steckel, University of Tennessee, Knoxville, TN, D. O. Stephenson, LSU AgCenter, Alexandria, LA and A.C. York, North Carolina State University, Raleigh, NC

4:15 PM Efficacy of Fluridone-Based Preplant Burndown Programs in Cotton

Michael W. Marshall, Clemson University, Blackville, SC, Alan C. York, North Carolina State University, Raleigh, NC and A. Stanley Culpepper, University of Georgia, Tifton, GA

4:30 PM Use of Fluridone for Residual Palmer Amaranth (*Amaranthus palmeri*) Control On Ditchbanks and Turnrows

Z.T. Hill, J. K. Norsworthy, Mohammad T. Bararpour and D. B. Johnson, University of Arkansas, Fayetteville, AR

4:45 PM Managing New Weed Control Technologies

L. E. Steckel, University of Tennessee, Knoxville, TN

Technical Conferences Program

37th Annual Cotton Weed Science Research Conference

Thursday, January 10, 2013

Thursday Morning

COTTON WEED SCIENCE RESEARCH - THURSDAY EARLY MORNING

Conf. Rooms 17 & 18 (Marriott Rivercenter Hotel) - 8:00 AM-10:00 AM

8:00 AM Simulating the Evolution of Glyphosate-Resistant Barnyardgrass in Midsouth Cotton: Key Management Considerations

Muthukumar Bagavathiannan¹, J. K. Norsworthy¹, K.L. Smith² and Paul Neve³, (1)University of Arkansas, Fayetteville, AR, (2) University of Arkansas - Division of Agriculture, Monticello, AR, (3) Wellesbourne, United Kingdom

8:15 AM Glyphosate-Resistant Giant Ragweed Competition and Control in Mid-South Cotton

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

8:30 AM Weed and Cotton Response to Topical Applications of Liberty Plus Roundup

Jeremy M. Kichler, University of Georgia, Oglethorpe, GA, A. Stanley Culpepper, University of Georgia, Tifton, GA and Keith S. Rucker, Bayer CropScience, Tifton, GA

8:45 AM Optimizing Liberty Performance On LibertyLink Crops

Natalie A. Hummel¹, William R. Perkins², Ginger G. Light³, J. Malone Rosemond⁴, Samuel B. Garriss⁵, Gary L. Schwarzlose⁶, Phil S. McNally⁷, Richard L. Warner⁸, Brian M. Sweeden⁹, Russell L. Hamlin¹⁰, Mark A. Waddington¹¹, Hank J. Mager¹², Jerome J. Kovar¹ and Keith S. Rucker¹³, (1)Bayer CropScience LP, Research Triangle Park, NC, (2)Bayer CropScience LP, Idalou, TX, (3)Bayer CropScience LP, Lubbock, TX, (4)Bayer CropScience LP, Hillsborough, NC, (5)Bayer CropScience LP, Benton, MS, (6)Bayer CropScience LP, Spring Branch, TX, (7)Bayer CropScience LP, Lake Forest, CA, (8)Bayer CropScience LP, Clovis, CA, (9)Bayer CropScience LP, Atkins, AR, (10) Bayer CropScience LP, Lake Park, GA, (11)Bayer CropScience LP, Owensboro, KY, (12)Bayer CropScience LP, Fountain Hills, AZ, (13) Bayer CropScience LP, Tifton, GA

9:00 AM Glyphosate Resistant Palmer Amaranth in Arizona
William B. McCloskey, University of Arizona, Tucson, AZ and Lydia M. Brown, University of Arizona, Maricopa, AZ

9:15 AM Palmer Amaranth Development and Seed Production As Influenced by Emergence Date in Cotton
Brandon W. Schrage, J. K. Norsworthy and Muthukumar Bagavathiannan, University of Arkansas, Fayetteville, AR

9:30 AM Efficacy of Enlist™ Duo: A Summary of Trials in Midsouth Cotton

J. K. Norsworthy, University of Arkansas, Fayetteville, AR, D. O. Stephenson, LSU AgCenter, Alexandria, LA, D. K. Miller, Lsu Agcenter, Lake Providence, LA, L. E. Steckel, University of Tennessee, Knoxville, TN, Jason Bond, Mississippi State University, Stoneville, MS, D. M.

Dodds, Mississippi State University, Starkville, MS, D. B. Reynolds, Mississippi State University, Mississippi State, MS and R. B. Lassiter, Dow AgroSciences LLC, Indianapolis, IN

9:45 AM Evaluation of Display Harvest Aid in Louisiana Cotton Production Systems

D. K. Miller, LSU AgCenter, St. Joseph, LA and M. S. Mathews, LSU AgCenter, Northeast Research Station, St. Joseph, LA

COTTON WEED SCIENCE RESEARCH - THURSDAY LATE MORNING

Conf. Rooms 17 & 18 (Marriott Rivercenter Hotel) - 10:30 AM-12:15 PM

10:30 AM Removal Time and Density of Volunteer Corn Populations and the Effect On Cotton Growth and Yield

Amber N. Eytcheson, Daniel B. Reynolds and Reed C. Storey, Mississippi State University, Mississippi State, MS

10:45 AM Factors Contributing to Cotton Injury From Soil-Applied Herbicides

D. B. Johnson, J. K. Norsworthy, Brandon W. Schrage, Holden D. Bell and Z.T. Hill, University of Arkansas, Fayetteville, AR

11:00 AM Activation and Length of Residual Herbicides Under Furrow Irrigation

Dilpreet Singh Riar, Jason K. Norsworthy, Mohammad T. Bararpour, Holden D. Bell, Brandon W. Schrage and Sandeep S. Rana, University of Arkansas, Fayetteville, AR

11:15 AM Roundup PowerMAX as Influenced by Water Quality and Ammonium Sulfate

Misha R. Manuchehri¹, Peter A. Dotray², T. S. Morris¹ and J. Wayne Keeling³, (1)Texas Tech University, Lubbock, TX, (2)Texas Tech University, Texas A&M AgriLife Research and Extension Center, Lubbock, TX, (3)Texas A&M AgriLife Research and Extension Center, Lubbock, TX

11:30 AM Cotton Injury by Auxin Herbicides As Affected by Growth Stage

Gary T. Cundiff¹, Alanna R. Blaine¹, Chad L. Smith² and D.B. Reynolds², (1)Mississippi State University, MS State, MS, (2) Mississippi State University, Mississippi State, MS

11:45 AM The Effect of Auxin Growth Regulator Herbicides On the Uptake and Movement of Glyphosate in Grass Species
Chad L. Smith, Daniel B. Reynolds and Joe Massey, Mississippi State University, Mississippi State, MS

12:00 PM Management of LibertyLink Systems in the Cotton Research Verification Program

Blake McClelland, University of Arkansas Division of Agriculture, Keiser, AR, Archie Flanders, University of Arkansas, Keiser, AR and Tom Barber, Division of Agriculture, University of Arkansas, Little Rock, AR

Technical Conferences Program

Technical Conferences Poster Board Session

Tuesday, January 8, 2013, 12:00 PM - 6:00 PM
Wednesday, January 9, 2013, 10:00 AM - 10:00 PM
Thursday, January 10, 2013, 8:00 AM - 12:00 PM

Rivercenter, Salon H

**Posters will be on display in Riverwalk, Salon C for the
 COTTON ECONOMICS AND MARKETING CONFERENCE**

Cotton Agronomy & Physiology Conference Posters

1. **Effect of 1-MCP On Plant Physiology and Yield of Cotton Plants Under Abiotic**
Yuan Chen, Texas A&M University Department of Soil and Crop Sciences, College Station, TX and J. Tom Cothren, Texas AgriLife Research, College Station, TX
2. **Cotton Leaf Grade As Influenced by Cotton Defoliation and Varieties**
Zachary P. Eder¹, Gaylon D. Morgan², Dan Fromme³, D.A. Mott¹ and Fred Bourland⁴, (1)Texas AgriLife Extension Service, College Station, TX, (2)Texas A&M AgriLife Extension Service, College Station, TX, (3)Texas AgriLife Extension, Corpus Christi, TX, (4)University of Arkansas - Northeast Research and Extension Center, Keiser, AR
3. **Effects of Irrigation and Environment On Cotton Growth, Maturity, Yield, and Fiber Quality in West Texas Producer Fields**
Curtis Schaefer¹, Mark Kelley² and G.L. Ritchie¹, (1)Texas Tech University, Lubbock, TX, (2)Texas Cooperative Extension, Lubbock, TX
4. **In-Season Cotton Growth of Four Cultivars Under Different Irrigation Regimes**
Jon Sherman, Texas Tech University, Lubbock, TX
5. **A Comparison of Traditional 40" Cotton Planting Pattern and 30/50" Row Spacing On Sub Surface Drip Irrigation**
Caitlin Jackson, Texas A&M AgriLife Extension Service, Crosbyton, TX, Chris Ashbrook, Texas AgriLife Extension Service, Lubbock, TX and Mark S. Kelley, Texas AgriLife Extension Service, Lubbock, TX
6. **Canopy Closure in Field-Grown Gossypium Hirsutum Decreases Differences in Photosynthetic Thermotolerance During Leaf Expansion**
Daryl R. Chastain, University of Georgia, Athens, GA
7. **Recoverability of Upland Cotton Following Terminal Removal At Various Growth Stages**
Jason Sweeney¹, Michael A. Jones¹, Jeremy K. Greene², Michael W. Marshall² and Mark Zarnstorff³, (1)Clemson University, Florence, SC, (2)Clemson University, Blackville, SC, (3)National Crop Insurance Services, Overland Park, KS
8. **A Novel Strategy to Measure Cotton Boll Maturity**
Joseph Eric Evans¹, Gaylon D. Morgan², Zachary Eder², Kevin McInnes³, Dale Mott² and Lauren Kate Harrell¹, (1)Texas A&M University, College Station, TX, (2)Texas A&M AgriLife Extension Service, College Station, TX, (3)Texas A&M AgriLife Research, College Station, TX
9. **Responsive Cotton to PGR Treatment Under Differing Drip Irrigation Regimes**
L.B. Crotwell¹, J. T. Cothren² and Clayton T. Lewis², (1)Texas AgriLife Research, College Station, TX, (2)Texas A&M University, College Station, TX
10. **Effect of Nitrogen Application Rate and Plant Population On Cotton Growth, Development, and Yield**
Chase Samples¹, Darrin M. Dodds¹, Tyler Dixon¹, D. Zachary Reynolds¹, Jac J. Varco¹ and Bobby R. Golden², (1)Mississippi State University, Mississippi State, MS, (2)Mississippi State University, Stoneville, MS
11. **Impact of Nitrogen Application Rate and Plant Growth Regulator Application On Doublecropped Cotton**
Tyler Dixon, Darrin M. Dodds, D. Zachary Reynolds, Chase Samples and Jac J. Varco, Mississippi State University, Mississippi State, MS

Technical Conferences Program

Technical Conferences Poster Board Session

12. **Use of COTMAN to Predict PGR Application**
Jonathan A. Moreno, J Tom Cothren and Clayton Lewis, Texas A&M Agrilife Research, College Station, TX
13. **Effect of Planting Date On Cotton Growth, Yield, and Fiber Quality**
Catherine H. Clement and Christopher L. Main, University of Tennessee, Jackson, TN
14. **Yield Trends of Round-up Ready Flex and LibertyLink Cotton Cultivars in Southeast Arkansas**
W. Kirkpatrick, C. Capps, A. Hood, K. Norton, S. Stone and G. Wilson, University of Arkansas Division of Agriculture Cooperative Extension Service, Little Rock, AR
15. **Evaluation of Biotech Cotton Planting Dates for Southwestern Sonora, Mexico**
Jose Luis Martinez-Carrillo, Luciano Castro-Espinoza, Marco A. Gutierrez-Coronado, Maritza Arellano-Gil, Catalina Mungarro-Ibarra and Ofelda Peñuelas-Rubio, Instituto Tecnológico de Sonora, Cd. Obregon, Sonora, Mexico
16. **The Effects of 2,4-D Drift On Cotton At Various Growth Stages**
Chandler P. Rowe¹, A. Stanley Culpepper¹, Jared R. Whitaker² and **Guy D. Collins¹**, (1)University of Georgia, Tifton, GA, (2) University of Georgia, Statesboro, GA
17. **Evaluation of Growth and Boll Distribution of Modern Cotton Varieties in Georgia**
Brock A. Ward, University of Georgia, Cuthbert, GA, T. Jay Hathorn, University of Georgia, Morgan, GA, Max E. DeMott, University of Georgia, Camilla, GA, Pam Sapp, University of Georgia, Louisville, GA, Jared R. Whitaker, University of Georgia, Statesboro, GA and Guy D. Collins, University of Georgia, Tifton, GA
18. **Over-Expressed Alternative Oxidase Gene Efficacy On Fiber Growth and Maturation in Cotton**
Hanh Pham¹, Robert Wright¹ and Norma Trolinder², (1)Texas Tech University and Texas AgriLife Research Center, Texas A & M System, Lubbock, TX, (2)Quanah, TX
19. **Transposon Mutagenesis for Cotton Functional Genomics**
Xing Qi, Texas Tech University, Lubbock, TX
20. **2012 Texas Upper Coast - Replicated Agronomic Cotton Evaluation (RACE) - Trial Summary**
Dale A. Mott¹, Gaylon D. Morgan², D. D. Fromme³, Stephen P. Biles⁴, Peter J. McGuill⁵, Clyde Crumley⁴, Brent M. Batchelor⁶ and K.J. Matheney⁷, (1)Texas A & M AgriLife Extension Service, College Station, TX, (2)Texas A&M AgriLife Extension Service, College Station, TX, (3)Texas A&M AgriLife Extension Service, Corpus Christi, TX, (4)Texas A&M AgriLife Extension Service, Port Lavaca, TX, (5)Texas A&M AgriLife Extension Service, Wharton, TX, (6)Texas A&M AgriLife Extension Service, Bay City, TX, (7) Texas A & M AgriLife Extension Service, Columbus, TX
21. **Cotton Response to Irrigation Timing and Use of Enhanced Efficiency Nitrogen Fertilizer and Biosolids - Year 3**
Tina Gray Teague and Calvin R. Shumway, Arkansas State University - University of Arkansas Agricultural Experiment Station, State University, AR
22. **Yield and Fiber Quality in Relation to Mepiquat Chloride and Plant Population Density in Cotton (*Gossypium hirsutum*)**
Xiaoming Ren¹, Mingwei Du¹, Xiaoli Tian¹, Lizhen Zhang¹, **Zhaohu Li¹**, Jochem B. Evers² and Wopke van der Werf², (1)State Key Laboratory of Plant Physiology and Biochemistry, Center of Crop Chemical Control, China Agricultural University, Beijing, China, (2)Centre for Crop Systems Analysis, Wageningen University, Wageningen, Netherlands
23. **Effect of Water-Deficit Stress During Reproductive Development On Polyamine Content of Cotton Flowers**
Dimitra A. Loka, Derrick Oosterhuis, John Mattice and Cristiane Pilon, University of Arkansas, Fayetteville, AR
24. **The Phytotoxin Coronatine Can Improve Cotton Defoliation and Boll Opening As a Defoliant**
Mingwei Du, Yi Li, Xiaoli Tian, Liusheng Duan and **Zhaohu Li**, China Agricultural University, Beijing, China

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25. **On-Farm Evaluation of LibertyLink and Phytogen WideStrike Cotton Varieties Managed with Liberty-Based Herbicide Systems in Georgia**
William G. Tyson¹, Jared R. Whitaker², Guy D. Collins³, Ronnie Barentine⁴, Don W. Clark⁵, Brian L. Cresswell⁶, D. Shane Curry⁷, Mike Dollar⁸, James T. Flanders⁹, Mitchell May¹⁰, Cliff M. Riner¹¹, William R. Starr¹², Christopher T. Tyson¹¹ and Larry Varnadoe¹³, (1)University of Georgia Cooperative Extension, Springfield, GA, (2)University of Georgia, Statesboro, GA, (3)University of Georgia, Tifton, GA, (4)University of Georgia, Hawkinsville, GA, (5)University of Georgia Cooperative Extension, Cairo, GA, (6)University of Georgia Cooperative Extension, Blakely, GA, (7)University of Georgia Cooperative Extension, Baxley, GA, (8)University of Georgia - Cooperative Extension, Claxton, GA, (9)University of Georgia Cooperative Extension, Nashville, GA, (10)University of Georgia Cooperative Extension, Bainbridge, GA, (11)University of Georgia Cooperative Extension, Reidsville, GA, (12)University of Georgia Cooperative Extension, Americus, GA, (13)University of Georgia Cooperative Extension, Moultrie, GA
26. **Development of a System for Determining Relative Plant Growth Regulator Requirements for Cotton Varieties in Georgia**
J. Peyton Sapp, University of Georgia Cooperative Extension, Waynesboro, GA, Jared R. Whitaker, University of Georgia, Statesboro, GA, Guy D. Collins, University of Georgia, Tifton, GA, Wade B. Parker, University of Georgia Cooperative Extension, Millen, GA and Pam Sapp, University of Georgia, Louisville, GA
27. **Effect of Phosphorus Nutrition On Growth and Physiology of Cotton Grown Under Ambient and Elevated Atmospheric Carbon Dioxide Concentrations**
Vangimalla R. Reddy¹, Shardendu K. Singh², Girish Badgujar¹, David Fleisher¹ and Dennis Timlin¹, (1)USDA-ARS, Beltsville, MD, (2)University Of Maryland Eastern Shore/USDA-ARS, Beltsville, MD
28. **Evaluation of Three Cultivars of Glandless Cotton in New Mexico**
Omololu John Idowu¹, **Robert Paul Flynn**¹, Jane Breen Pierce¹, Jinfa Zhang¹, Jodi Sheffler² and Tom Wedegaertner³, (1)New Mexico State University, Las Cruces, NM, (2)Stoneville, MS, (3)Cotton Incorporated, Cary, NC
29. **Planting Date and Fertilizer Rate Effects On Selected Cotton Cultivars in New Mexico**
Omololu John Idowu¹, Robert Paul Flynn¹, Jane Breen Pierce², Jinfa Zhang¹ and Tom C. Wedegaertner³, (1)New Mexico State University, Las Cruces, NM, (2)New Mexico State University, Artesia, NM, (3)Cotton Incorporated, Cary, NC
30. **Texas Gulf Coast Monster Variety Trial Results**
Dan D. Fromme, Texas A&M AgriLife Extension Service, Corpus Christi, TX, Gaylon D. Morgan, Texas A&M AgriLife Extension Service, College Station, TX, Brent M. Batchelor, Texas A&M AgriLife Extension Service, Bay City, TX and Carlos J. Fernandez, Texas A&M AgriLife Research, Corpus Christi, TX
31. **Results From Large Scale Cotton Variety Tests in the Texas High Plains**
M. S. Kelley¹, **C. W. Ashbrook**¹, J. E. Woodward¹ and J.D. Wanjura², (1)Texas A&M AgriLife Extension Service, Lubbock, TX, (2) USDA ARS CPPRU, Lubbock, TX
32. **Comparison of Large-Plot and Small-Plot Replicated Variety Trials in the Southeastern Coastal Plain**
Michael A. Jones, Clemson University, Florence, SC
33. **Chemical Stalk Destruction Options in Enlist® Cotton**
Gaylon D. Morgan¹, D. D. Fromme², V.B. Langston³, R. B. Lassiter³, Jackie Lee³ and Dale Mott¹, (1)Texas A&M AgriLife Extension Service, College Station, TX, (2)Texas A&M AgriLife Extension Service, Corpus Christi, TX, (3)Dow AgroSciences LLC, Indianapolis, IN
34. **A Survey of Abiotic Stress Tolerance Variability in Cotton Germplasm**
M. Natalia Castillo, Texas Agricultural Experiment Station, Lubbock, TX, Paxton Payton, USDA/ARS, Lubbock, TX and J.K. Dever, Texas AgriLife Research, Lubbock, TX
35. **Effect of Plant Growth Regulators On Lint Yield, Fiber Quality, and Boll Distribution of Cotton Varieties in Georgia**
Pam Sapp¹, Jared R. Whitaker², Guy D. Collins³ and John Snider³, (1)University of Georgia, Louisville, GA, (2)University of Georgia, Statesboro, GA, (3)University of Georgia, Tifton, GA

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36. **Screening Cotton Cultivars for Abiotic Stress Tolerance Using Reproductive and Physiological Parameters**
Kulvir Singh, S. Lokhande, B. Gajanayake, D. Brand, T. Wallace and K. R. Reddy, Mississippi State University, Mississippi State, MS

Cotton Disease Council Posters

37. **Performance of Five Cotton Varieties Grown in Reniform Nematode Infested Soils with and without Nematicide Treatments**
Randy Smith¹, Gary W. Lawrence², Kathy S. Lawrence³, Richard Harkess² and Carolyn Conger⁴, (1)Mississippi State University, Collins, MS, (2)Mississippi State University, Mississippi State, MS, (3)Auburn University, Auburn University, AL, (4)Mississippi State Extension Service, Collins, MS
38. **Reniform Nematode Reproduction On Soybean Cultivars and Breeding Lines in 2012**
R. T. Robbins¹, E. Shipe², G. Shannon³, Stella K. Kantartzi⁴, P. Chen¹, L. E. Jackson¹, E. E. Gbur¹, D. G. Dombek¹ and Jeff T. Velie¹, (1)University of Arkansas, Fayetteville, AR, (2)Clemson University, Clemson, SC, (3)Univ. of Missouri, Delta Center, Portageville, MO, (4)Southern Illinois University Carbondale, Carbondale, IL
39. **Successes and Challenges of Precision Application of Fumigants in Cotton**
R.A. Haygood, Dow AgroSciences LLC, Collierville, TN, Charlie Overstreet, Louisiana State University, Baton Rouge, LA, Terry L. Kirkpatrick, University of Arkansas, Hope, AR, Dennis Burns, LSU Agricultural Center, St. Joseph, LA and Gene Burris, Burris Consulting, St. Joseph, LA
40. **Effects of the Fungal Endophyte *Paecilomyces Lilacinus* in Cotton On the Root-Knot Nematode *Meloidogyne incognita***
Wenqing Zhou¹, Cesar Valencia¹, Maria Julissa Ek-Ramos¹, James L. Starr² and Gregory A. Sword¹, (1)Department of Entomology, Texas A&M University, College Station, TX, (2)Texas A&M University, College Station, TX
41. **The Use of Vydate On Southern Root-Knot Nematode Tolerant Cotton in the High Plains of Texas**
Kerry Siders, Texas A&M AgriLife Extension Service, Levelland, TX
42. **Cotton Root Rot Control with TOPGUARD in Texas: 2012 Research**
T. Isakeit, Texas A&M University, College Station, TX, R.R. Minzenmayer, Texas AgriLife Extension Service, Ballinger, TX, Gaylon D. Morgan, Texas A&M AgriLife Extension Service, College Station, TX, D. R. Drake, Texas AgriLife Extension, San Angelo, TX, D.A. Mott, Texas AgriLife Extension Service, College Station, TX, D. D. Fromme, Texas A&M AgriLife Extension Service, Corpus Christi, TX, W. L. Multer, Texas AgriLife Extension, Garden City, TX, M. Jungman, Hillsboro, TX and A. Abrameit, Texas AgriLife Extension, Thrall, TX
43. **Isolation of Bacteria From Cotton Bolls in the Texas Coastal Bend and Rio Grande Valley**
Kendall Nicole Field¹, Greta Schuster¹, Shad Nelson¹, Enrique Gino Medrano², J. E. Woodward³ and Kevin Ong⁴, (1)Texas A&M University-Kingsville, Kingsville, TX, (2)USDA-ARS-SPARC, College Station, TX, (3)Texas A&M AgriLife Extension Service, Lubbock, TX, (4)Texas Plant Disease Diagnostics Laboratory, College Station, TX
44. **Effect of Late Bloom Fungicide Treatment On Nine Roundup Ready Cotton Varieties to Manage *Corynespora* Leafspot**
R. J. Byrne, Meherrin Agriculture and Chemical Company, Thomasville, GA and S. M. Brown, PhytoGen Cottonseed, Dow AgroSciences, Indianapolis, IN
45. **Modes of Microbial Resistance Mechanisms to the Antibiotic and Phytotoxic Fusaric Acid**
Frankie K. Crutcher¹, Jinggao Liu¹, Robert D. Stipanovic¹, Lorraine S. Puckhaber¹, Alois A. Bell¹ and Bob Nichols², (1)USDA-ARS/SPARC, College Station, TX, (2)Cotton Incorporated, Cary, NC
46. **Environmental Factors Influencing the Response of Cotton Varieties to *Xanthomonas axonopods* P.v. *Malvacearum* in Mississippi**
Tom Allen¹, Bobby R. Golden¹, Shien Lu² and Gabe L. Sciumbato¹, (1)Mississippi State University, Stoneville, MS, (2)Mississippi State University, Mississippi State, MS

Technical Conferences Program

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47. **Evaluation of Farmer Applications of TOPGUARD (Flutriafol) for Cotton Root Control in the First Section 18 Exemption Year**
D. R. Drake, Texas AgriLife Extension, San Angelo, TX, R.R. Minzenmayer, Texas AgriLife Extension Service, Ballinger, TX, W. L. Multer, Texas AgriLife Extension, Garden City, TX, T. Isakeit, Texas A&M University, College Station, TX and G.D. Morgan, Texas A&M AgriLife Extension Service, College Station, TX
48. **Report of the Cottonseed Treatment Committee for 2012**
C. S. Rothrock, Department of Plant Pathology, University of Arkansas, Fayetteville, AR, S. A. Winters, Dept. of Plant Pathology, University of Arkansas, Fayetteville, AR, J.D. Barham, University of Arkansas, Hope, AR, Alan B. Beach, University of Arkansas, Keiser, AR, Melanie B. Bayles, Oklahoma State University, Stillwater, OK, P. D. Colyer, LSU AgCenter, Bossier City, LA, T. Kelley, Oklahoma State University, Perkins, OK, R. C. Kemeraite, Department of Plant Pathology, University of Georgia, Tifton, GA, G.W. Lawrence, Mississippi State, MS, K. S. Lawrence, Auburn University, Auburn, AL, G.B. Padgett, LSU AgCenter Northeast Region, Winnsboro, LA, P. M. Phipps, Tidewater Ag Res & Ext Ctr, Virginia Tech, Suffolk, VA, G. L. Sciumbato, Delta Research and Extension Center, Mississippi State University, Stoneville, MS, R. Thacker, Oklahoma State University, Altus, OK and J. E. Woodward, Texas A&M AgriLife Extension Service, Lubbock, TX

Cotton Engineering-Systems Conference Posters

49. **Design and Construction of a Delinting Facility for a Public Breeding Program**
Brad E. Harris, Texas A&M AgriLife Research, Lubbock, TX and Jane K. Dever, Texas A&M AgriLife Research, Lubbock, TX
50. **Decision Support Software: Transporting Seed Cotton From Field to Gin**
Jordan L. Grier, C. B. Parnell and R. O. McGee, Texas A&M University, College Station, TX
51. **Cotton2K – Management Tools for Irrigated Cotton**
Robert J. Lascano¹, **Jill Booker**¹, Don R. Salisbury² and J.D Booker³, (1)USDA-ARS, Lubbock, TX, (2)Programmer - Consultant, Lubbock, TX, (3)Texas Tech University, Lubbock, TX

Cotton Improvement Conference Posters

52. **Thrips Resistance in Cotton: Germplasm Evaluation, Inheritance and QTL Mapping**
Jinfa Zhang¹, Hui Fang¹, Huiping Zhou¹ and S. E. Hughs², (1)New Mexico State University, Las Cruces, NM, (2)Southwest Cotton Ginning Lab, USDA-ARS, Mesilla Park, NM
53. **Identifying Cotton (*Gossypium hirsutum* L.) Genes Induced in Response to *Aspergillus flavus* Infection**
K. Rajasekaran¹, D. Bhatnagar¹ and N. Baisakh², (1)USDA, ARS, SRRC, New Orleans, LA, (2)School of Plant, Environmental and Soil Sciences, LSU AgCenter, Baton Rouge, LA
54. **Mapping of Candidate Genes and Quantitative Trait Loci for Drought Tolerance in A Recombinant Inbred Line Population of *Gossypium barbadense***
Abdelraheem Abdelraheem¹, Ezzat Mahdy² and **Jinfa Zhang**¹, (1)New Mexico State University, Las Cruces, NM, (2) Department of Agronomy, Faculty of Agriculture, Assiut University, Assiut, Egypt
55. **Molecular Diversity Among *G. hirsutum* Accessions in the *Gossypium* Diversity Reference Set**
Lori Hinze¹, Richard Percy¹, John Yu¹, James Frelichowski¹, David D. Fang², Michael Gore³ and Brian Scheffler⁴, (1)USDA-ARS, College Station, TX, (2)USDA-ARS, New Orleans, LA, (3)USDA-ARS, US Arid-Land Agricultural Research Center, Maricopa, AZ, (4)USDA-ARS, Stoneville, MS
56. **Dryland and Irrigated Commercial Variety Testing in Central and South Texas in 2012**
Dawn M. Deno, Steve Hague, C. Wayne Smith and Richard Hermes, Texas A&M University, College Station, TX

Technical Conferences Program

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57. **Mapping of Candidate Trichome Genes and Quantitative Trait Loci for Fiber Yield and Quality**
Lipping Wang¹, Yanying Qu², Sidney E. Hughs³ and **Jinfa Zhang¹**, (1)New Mexico State University, Las Cruces, NM, (2)Xinjiang Agriculture University, Urumqi, China, (3)USDA-ARS Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM
58. **Performance Stability of Cotton Cultivars Across Major Regions in US Cotton Belt**
Linghe Zeng, USDA-ARS, Stoneville, MS
59. **The Perils of April Planted Cotton On the Texas High Plains**
T.W. Witt¹, C.N. Thompson¹, B.R. Hendon¹, G.L. Ritchie² and D.L. Auld², (1)Texas Tech University, Lubbock, TX, (2)Texas Tech University, Texas A&M Research, Lubbock, TX
60. **2012 Mississippi State Cotton Variety Trial, Variety Performance**
Bobby R. Golden¹, **Jim Nichols¹**, Normie W. Buehring², Lawrence L. Falconer³, M. W. Shankle⁴ and Ted P. Wallace⁵, (1) Mississippi State University, Stoneville, MS, (2)MSUES Ag. & Bio. Engineering, Mississippi State, MS, (3)Mississippi State University Extension Service, Stoneville, MS, (4)North Mississippi Research and Extension Center, Verona, MS, (5)Mississippi State University, Mississippi State, MS
61. **Relationships of Cotton Yield Components with Lint Yield and Fiber Properties**
Efrem Bechere, USDA-ARS, Stoneville, MS
62. **Yield Adjustment for Small Plot Trials On the Texas High Plains**
Valerie M. Morgan, Jane K. Dever and Carol M. Kelly, Texas A&M AgriLife Research, Lubbock, TX
63. **Progress in Screening the U.S. Cotton Germplasm Collection for Diversity**
M. A. Sheehan, J.K. Dever, **M.D. Arnold**, M.N. Castillo, J.L. Mabry, L.W. Wells, H.D. Flippen and D.Q. Wann, Texas A&M AgriLife Research, Lubbock, TX
64. **Greenhouse Thrips Screening to Support Development of Cultivars for Organic Cotton Production**
Heather D. Flippin¹, Jane K. Dever¹, Mark D. Arnold² and Dylan Q. Wann³, (1)Texas A&M AgriLife Research, Lubbock, TX, (2) Texas A&M AgriLife Research and Extension Center, Lubbock, TX, (3)Texas A&M AgriLife Research & Texas Tech University, Lubbock, TX
65. **Nucleotide Diversity of *DGAT1* and *DGAT2* Among Four *Gossypium* Species**
Thomas Lentz II, Del Mar College, Corpus Christi, TX
66. **Localization of Allotetraploid *Gossypium* SNPs Using Physical Mapping Resources**
Amanda M. Hulse¹, Kevin Hoegenauer¹, Fei Wang¹, Hamid Ashrafi², David M. Stelly¹, Allen Van Deynze³, Hong-Bin Zhang¹, Christopher Saski⁴, Brian Scheffler⁵, Joshua A. Udall⁶ and John Z. Yu⁷, (1)Texas A&M University, College Station, TX, (2) University of California -Davis, Davis, CA, (3)University of California-Davis, Davis, CA, (4)Clemson University, Clemson, SC, (5) USDA-ARS, Stoneville, MS, (6)Brigham Young University, Provo, UT, (7)USDA-ARS, College Station, TX
67. **Increasing Drought Tolerance Through the Functional Characterization of Cotton ABFs and CBFs**
Tyson C. C. Kerr and Randy D. Allen, Institute for Agricultural Biosciences - Oklahoma State University, Ardmore, OK
68. **Association of the Cytoplasmic Specific SSR Markers with Important Fiber Traits in Improved Upland Cotton Lines**
Sukumar Saha, USDA-ARS, Crop Science Research Laboratory, Mississippi State, MS and Sharof S. Egamberdiev, Center of Genomics and Bioinformatics, Tashkent, Uzbekistan
69. **Segregation Analysis of Verticillium Wilt Resistance in Fourteen *Gossypium hirsutum* x *Gossypium barbadense* Hybrids**
Huiping Zhou¹, Hui Fang¹, S. Sanogo² 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

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70. **Development of Sequence Tagged Site (STS) Markers for Verticillium Wilt Resistance in Cotton Based On RGA-AFLP Analysis**
Hui Fang¹, Huiping Zhou¹, S. Sanogo², Robert P. Flynn³, Michael Gore⁴, S.E. Hughes⁵ 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, US Arid-Land Agricultural Research Center, Maricopa, AZ, (5)USDA-ARS Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM
71. **Proteomic Analysis of Responses to Drought Stress in Cotton Seedlings by Two-Dimensional Gel Electrophoresis and Spectrometry**
Yanying Qu, Xinjiang Agriculture University, Urumqi, China and Jinfa Zhang, New Mexico State University, Las Cruces, NM
72. **Lint Yield and Yield Components of Cotton Cultivars From Four Decades When Grown Under Three Water Regimes**
Cameron T. Oliver¹, Glen L. Ritchie¹, Dick Auld¹, J.K. Dever² and Jacob M. Rieff¹, (1)Texas Tech University, Lubbock, TX, (2) Texas AgriLife Research, Lubbock, TX

Cotton Insect Research and Control Conference Posters

73. **Climate Changes Impacts On Cotton Leaf Worm Populations in Middle Egypt**
Ahmed A. Hamed Amin, Plant Protection Res. Institute, Giza, Egypt
74. **Evaluation of Economic Thresholds for Boll Feeding Bugs in Cotton**
Blake Young¹, Stephen P. Biles², Greta Schuster³ and Shad Nelson³, (1)Texas A&M University - Kingsville, La Vernia, TX, (2) Texas A&M AgriLife Extension Service, Port Lavaca, TX, (3)Texas A&M University-Kingsville, Kingsville, TX
75. **Field Evaluation of Five Synthetic Pyrethroids Against the Spiny Bollworm *Earias insulana* (Boisd) Focusing On Their Negative Impacts On Beneficial Arthropoda (Minia -Egypt)**
Abdelrahman M. Younis and Sanaa A. Ibrahim, Minia University, Minia, Egypt
76. **Beet Armyworm Pheromone Trap Captures in Northwest Louisiana, 1999-2012**
S. Micinski and B.J. Fitzpatrick, LSU AgCenter, Bossier City, LA
77. **Laboratory Evaluation of Selected Insecticides On Field-Collected Populations of Bollworm and Tobacco Budworm in Georgia-2012 Update**
Stephanie Piper, **Gregory T. Payne** and Jordan Sadler, University of West Georgia, Carrollton, GA
78. **Species Composition and Relative Abundance of Stink Bugs in Cotton and Other Major Crops Produced in Brazos River Bottom**
Charles P.-C. Suh, John K. Westbrook, Jesus F. Esquivel and Gretchen D. Jones, USDA-ARS, APMRU, College Station, TX
79. **Increased Stink Bug Damage in Late Planted Cotton**
J. David Griffin, Ishakh Pulakkatu thodi and Michael Toews, University of Georgia, Tifton, GA
80. **Plant Water Stress and Insect Seasonality Effects On Cotton Fleahopper Damage**
Michael J. Brewer¹, Darwin J. Anderson¹, Megha N. Parajulee² and R. B. Shrestha³, (1)Texas A&M AgriLife Research and Extension Center, Corpus Christi, TX, (2)Texas A&M AgriLife Research and Extension Center, Lubbock, TX, (3)Texas AgriLife Research and Extension Center, Lubbock, TX
81. **Transcriptomic Analysis of the Larval Head of Egyptian Cotton Leaf Worm**
Manal F. Abdelall¹, Sally V. Taylor², Jaap van Kretschmar², Sayed M. Khalil¹, Tamer Z. Salem¹ and **R. Michael Roe**², (1) Agricultural Genetic Engineering Research Institute, Giza, Egypt, (2)North Carolina State University, Raleigh, NC

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82. **Leaf-Footed Plant Bug Injury to Late Season Cotton**
Darwin Anderson, Michael Brewer and Charlene Farias, Texas A&M AgriLife Research and Extension Center, Corpus Christi, TX
83. **Managing Thrips Using Organically Approved Insecticides**
Monti R. Vandiver¹, R. B. Shrestha², Jane Dever³, Mark D. Arnold⁴ and Megha N. Parajulee³, (1)Texas A&M AgriLife Extension Service, Muleshoe, TX, (2)Texas AgriLife Research and Extension Center, Lubbock, TX, (3)Texas AgriLife Research, Lubbock, TX, (4)Texas Agricultural Experiment Station, Lubbock, TX
84. **Consultant Assessment of Performance of Bidrin® X P I I in Insect Pest Management Programs in Cotton**
N. M. French, AMVAC Chemical Corporation, Little Rock, AR, **S. T. Teague**, AMVAC Chemical Corporation, Jonesboro, AR and J. W. Wilson, AMVAC Chemical Corporation, Oxford, MS
85. **Performance of Bidrin® and Bidrin® X P I I in Tarnished Plant Bug Management Programs in Cotton**
N. M. French, AMVAC Chemical Corporation, Little Rock, AR
86. **Influence of Thimet® 20G On Thrips Management and Cotton Yield**
N. M. French, AMVAC Chemical Corporation, Little Rock, AR
87. **Effect of Pymetrozine (Chess 500 WG) On Square Protection and Emergency of Adults of the Boll Weevil, *Anthonomus grandis*, in Cotton**
Geraldo Papa, Fernando Juari Celoto, Joao Antonio Zanardi Junior, Victor Basso Montoro, Victor Felipe Coleta and Eduardo V. Camargo Barbosa, Paulista State University - Unesp, Ilha Solteira-SP, Brazil
88. **Field Evaluation On the Lethal Effect of *Beauveria bassiana* Strains NI8 and GHA Against the Tarnished Plant Bug in Cotton**
Maribel Portilla, Gordon Snodgrass and Randy Luttrell, USDA ARS SIMRU, Stoneville, MS
89. **Glandless Cotton in New Mexico: Evaluating Potential for Insect Losses**
Jane Breen Pierce, Andrew Garnett and Patrica Monk, New Mexico State University, Artesia, NM
90. **Rainfastness of Selected Insecticides Used for Control of Tarnished Plant Bug in Arkansas Cotton**
N. M. Taillon, Gus Lorenz, Glenn Studebaker, Andrew Plummer, Ben Thrash, Derek Clarkson and Luis Orellana, University of Arkansas Cooperative Extension Service, Little Rock, AR
91. **Effect of Nitrogen Fertilizer On Cotton Host-Plant Quality and Its Impact On Arthropod Community**
Stanley C. Carroll, Ram B. Shrestha and Megha N. Parajulee, Texas A&M AgriLife Research and Extension Center, Lubbock, TX
92. **Evaluation of Organic Pesticides for Western Flower Thrips Management in Seedling Cotton: Effect On Plant Parameters**
Megha N. Parajulee¹, Ram B. Shrestha¹, Monti R. Vandiver², Dylan Q. Wann¹, Jane K. Dever¹ and Mark D. Arnold¹, (1)Texas A&M AgriLife Research and Extension Center, Lubbock, TX, (2)Texas A&M AgriLife Extension Service, Muleshoe, TX
93. **Measuring up! Involving Stakeholders in Assessment of an Industry's IPM Revolution**
Lydia M. Brown, Peter C. Ellsworth, Alfred Fournier, William McCloskey and Wayne Dixon, University of Arizona, Maricopa, AZ
94. **Control of Tarnished Plant Bug with Tankmixes and Premix Insecticides**
B. Thrash, G.M. Lorenz, N Taillon, A Plummer and D Clarkson, University of Arkansas Cooperative Extension Service, Little Rock, AR
95. **Control of Tarnished Plant Bug, *Lygus lineolaris*, in Cotton with Transform in Arkansas, 2009-2012**
William Andrew Plummer, Gus Lorenz, Nicki Taillon, Ben Thrash, Derek Clarkson and Luis Orellana, University of Arkansas Cooperative Extension Service, Little Rock, AR

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96. **Historical Timing of Cotton Bollworm and Tobacco Budworm Moth Flight in Phillips County Arkansas**
Robert L. Goodson, University of Arkansas, Cooperative Extension Service, Helena, AR, G. Lorenz, University of Arkansas Cooperative Extension Service, Lonoke, AR and N. M. Taillon, University of Arkansas Cooperative Extension Service, Little Rock, AR
97. **Effect of Planting Date and Variety Selection On Tarnished Plant Bug Levels in Cotton**
Glenn E. Studebaker and Fred Bourland, University of Arkansas, Keiser, AR
98. **Evaluation of *Bacillus thuringiensis* Technology Against *Helicoverpa* Populations in Cotton Varieties Grown in the Upper Coastal Bend of Texas**
Dennis Tyler Mays¹, Clyde Crumley², Greta Schuster³ and Shad Nelson³, (1)Texas A&M University - Kingsville, Kingsville, TX, (2)Texas AgriLife Extension Service, Wharton, TX, (3)Texas A&M University-Kingsville, Kingsville, TX
99. **Variation in Bacterial Communities Associated with the Cotton Fleahopper On Two Host Plants Across Texas, USA**
Josephine B. Antwi¹, Mariana Mateos², R.F. Medina² and Gregory A. Sword³, (1)Entomology Research Laboratory Building 815, Department of Entomology, College Station, TX, (2)Texas A&M University, College Station, TX, (3)Department of Entomology, Texas A&M University, College Station, TX
100. **Regional Cropping and Landscape Analysis Applied to Cotton Pest Management: Risk Assessment of A Sucking Bug**
Luke S. Pruter¹, Michael J. Brewer¹, Jonda Halcomb² and John J. Nelson², (1)Texas A&M AgriLife Research and Extension Center, Corpus Christi, TX, (2)Del-Mar College, Corpus Christi, TX

Cotton Soil Management and Plant Nutrition Conference Posters

101. **Cotton Growth Response to Phosphorus in Manure Derived Biochar**
Patrick G. Hunt, Keri Cantrell, Jarrod Miller and Phil Bauer, USDA-ARS, Florence, SC
102. **Determining the Effect of Poultry Litter As a Soil Amendment for Cotton Production On Highly Degraded Loess Soils of Northeast Louisiana**
Josh Lofton¹, J. Hendrix¹, B. Tubana² and J. Cheston Stevens³, (1)LSU- AgCenter, Winnsboro, LA, (2)Louisiana State University Agricultural Center, Baton Rouge, LA, (3)LSU AgCenter, Alexandria, LA
103. **Impact of Soil Management On Beneficial Fungi Associated with Cotton Roots**
Laurel A. Kluber, Thomas F. Ducey and Philip J. Bauer, USDA-ARS, Florence, SC
104. **Managing Winter Cover Crops in Cotton to Improve Soil Health in a Field with a History of Glyphosate Resistant Weeds**
Gene Stevens, University of Missouri - Delta Center, Portageville, MO, Jim Heiser, University of Missouri Delta Center, Portageville, MO and Matt Rhine, University of Missouri-Delta Center, Portageville, MO
105. **Spectral Characteristics of K Deficiencies in Multiple Cotton Cultivars At the Canopy Scale**
Tyson B. Raper¹, Derrick M. Oosterhuis¹ and Leo Espinoza², (1)University of Arkansas, Fayetteville, AR, (2)University of Arkansas Cooperative Extension Service, Little Rock, AR
106. **Summary of Field Evaluation of AVAIL® Phosphorus Fertilizer Enhancer for Cotton**
M. Wayne Ebelhar and Davis R. Clark, Mississippi State University, Stoneville, MS
107. **The Response of Cotton (*Gossypium hirsutum* L.) to Nitamin Slow Release Foliar Fertilization**
James M. Burke, Derrick M. Oosterhuis and Tyson B. Raper, University of Arkansas, Fayetteville, AR
108. **Validation of Nitrogen Management Recommendations for Irrigated Cotton in the Desert Southwest**
Jeremy Cusimano and Cassandra Fausel, University of Arizona, Tucson, AZ

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Cotton Utilization Conference: Textiles/Chemistry/Nonwovens Posters

109. **Quantitate Gossypol Enantiomers in Cotton Flower Petals and Seed Using Capillary Electrophoresis**
Sergei Vshivkov¹, Egor Pshenichnov¹, Zamira Golubenko¹, Alik Akhunov¹, Shadman Namazov², Alois A. Bell³ and **Robert D. Stipanovic³**, (1)Institute of Bioorganic Chemistry, Tashkent, Uzbekistan, (2)The Uzbek Scientific Research Institute of Selection and Cotton Seed-Production, Tashkent, Uzbekistan, (3)USDA-ARS-Southern Plains Agricultural Research Center, College Station, TX

Cotton Weed Science Research Conference Posters

110. **BASF's On-Target Application Academy: Educating Growers**
Walter E. Thomas, Maarten Staal, Steven J. Bowe, Luke L. Bozeman and Daniel Pepitone, BASF Corporation, Research Triangle Park, NC
111. **Evaluation of Sharpen Herbicide for Harvest Aid in Louisiana Cotton Production Systems**
D. K. Miller, LSU AgCenter, St. Joseph, LA and M. S. Mathews, LSU AgCenter, Northeast Research Station, St. Joseph, LA
112. **Efficacy of Gramoxone SL and Liberty 280 Applied with Different Nozzle Types and Spray Volumes**
Henry M. Edwards, Jason A. Bond, Thomas W. Eubank, Garret B. Montgomery and Sarah A. Shinkle, Mississippi State University, Stoneville, MS
113. **Long-Term Residual Efficacy of Fluridone in Cotton**
Michael W. Marshall, Clemson University, Blackville, SC, Alan C. York, North Carolina State University, Raleigh, NC and A. Stanley Culpepper, University of Georgia, Tifton, GA
114. **Preplant Control of Common Groundsel in Oklahoma**
Shane Osborne and Randy Boman, Oklahoma State University, Altus, OK
115. **Glyphosate-Resistant Palmer Amaranth Control in Enlist Cotton Systems**
L.E. Steckel¹, Alan York², A. Stanley Culpepper³, R. A. Haygood⁴, L.B. Braxton⁵ and J.S. Richburg⁵, (1)The University of Tennessee, Jackson, TN, (2)N. C. State University, Raleigh, NC, (3)The University of Georgia, Tifton, GA, (4)Dow AgroSciences, Indianapolis, IN, (5)Dow AgroSciences LLC, Indianapolis, IN
116. **Weed Management in Conventional Cotton in Louisiana**
Brandi C. Woolam, Daniel O Stephenson and Randall L Landry, LSU AgCenter, Alexandria, LA
117. **Enlist Weed Management Systems: Texas High Plains Cotton**
J. D. Reed¹, J. W. Keeling¹, P. A. Dotray¹ and J.A. Lee², (1)Texas A&M AgriLife Research, Lubbock, TX, (2)Dow AgroSciences LLC, Lubbock, TX
118. **Glyphosate-Resistant Johnsongrass Control with Envoke, Staple LX, and Select Max in Cotton**
Randall L. Landry¹, Daniel O Stephenson¹, Jason K. Norsworthy², Brandi C Woolam¹ and D.B. Johnson², (1)LSU AgCenter, Alexandria, LA, (2)University of Arkansas, Fayetteville, AR
119. **Learnings From Simulation Models for Glyphosate-Resistance Management in Midsouth Cotton-Based Production Systems**
Muthukumar Bagavathiannan¹, J. K. Norsworthy¹, K. L. Smith² and Paul Neve³, (1)University of Arkansas, Fayetteville, AR, (2)University of Arkansas - Division of Agriculture, Monticello, AR, (3)Wellesbourne, United Kingdom
120. **Comparison of Fall Residual Herbicides Targeting Italian Ryegrass**
Sarah A. Shinkle, Henry M. Edwards, Jason A. Bond, Thomas W. Eubank and Garret B. Montgomery, Mississippi State University, Stoneville, MS

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121. **Sequential Applications of Residual Herbicides for Palmer Amaranth Control**
Garret B. Montgomery, Henry M. Edwards, Jason A. Bond, Sarah A. Shinkle and Thomas W. Eubank, Mississippi State University, Stoneville, MS
122. **Activation and Length of Residual Herbicides Under Sprinkler Irrigation**
Dilpreet Singh Riar, Jason K. Norsworthy, Mohammad T. Bararpour and Brandon W. Schrage, University of Arkansas, Fayetteville, AR
123. **Warrant: A New Tool for Weed Management in Cotton**
T. S. Morris¹, P. A. Dotray², J. W. Keeling³ and J. D. Reed³, (1)Texas Tech University, Lubbock, TX, (2)Texas Tech University, AgriLife Research, and Texas AgriLife Extension Service, Lubbock, TX, (3)Texas A&M AgriLife Research, Lubbock, TX
124. **Use of Fluridone for Palmer Amaranth (*Amaranthus palmeri*) Control in Arkansas Cotton**
Z.T. Hill, J. K. Norsworthy, D. B. Johnson, Brandon W. Schrage, Holden D. Bell and Sandeep S. Rana, University of Arkansas, Fayetteville, AR
125. **Evaluation of PRE and POST Herbicides for Palmer Amaranth Control**
D. Zachary Reynolds¹, Darrin M. Dodds¹, Tyler Dixon¹, Chase Samples¹, J. Anthony Mills², Jason A. Bond³ and Daniel B. Reynolds¹, (1)Mississippi State University, Mississippi State, MS, (2)Monsanto, Collierville, TN, (3)Mississippi State University, Stoneville, MS
126. **Herbicide Susceptibility of Ultra Low Gossypol Cotton Seed**
Keerti Rathore¹, Gaylon D. Morgan², Paul Baumann³, Dale Mott², **Lauren Kate Harrell**¹, Zachary P. Eder³ and J. Eric Evans¹, (1)Texas A&M University, College Station, TX, (2)Texas A&M AgriLife Extension Service, College Station, TX, (3)Texas AgriLife Extension Service, College Station, TX
127. **Residual Herbicides for Palmer Amaranth Management in Cotton**
J.W. Cave¹, J. W. Keeling², P. A. Dotray² and J. D. Reed², (1)Texas Tech University, Lubbock, TX, (2)Texas A&M AgriLife Research, Lubbock, TX
128. **Glyphosate/Dicamba/Glufosinate Tolerant Cotton Weed Management Systems in the Texas High Plains**
J. L. Spradley, J. W. Keeling, P. A. Dotray and J. D. Reed, Texas A&M AgriLife Research, Lubbock, TX
129. **Effect of Shading, Variety and Application Timing On Cotton Tolerance to Glufosinate**
Brandon W. Schrage, J. K. Norsworthy, B. Johnson, Sandeep S. Rana, Holden D. Bell and Zac Hill, University of Arkansas, Fayetteville, AR
130. **Control of Emerging Weeds in Reduced Tillage Systems in the Southern Rolling Plains**
D. R. Drake, Texas AgriLife Extension, San Angelo, TX

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