The contents of this booklet are current as of December 14, 2019. Changes to the Schedule of Events, BWCC Technical Conferences sessions or other BWCC activities that occurred after the booklet was printed can be found on the BWCC website, http://www.cotton.org/belt-wide/index.cfm, or by using one of the BWCC scheduling tools referenced on page five of this booklet.
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30a- 8:00a</td>
<td>Coffee Break (Sponsored by Bayer)</td>
<td>JW Grand Ballroom Foyer</td>
</tr>
<tr>
<td>7:30a- 5:00p</td>
<td>Speaker Practice Room</td>
<td>Room 502</td>
</tr>
<tr>
<td>7:30a- 5:00p</td>
<td>Conference Registration (Sponsored by Bayer)</td>
<td>JW Grand Ballroom Foyer</td>
</tr>
<tr>
<td>7:30a- 5:00p</td>
<td>Newsroom</td>
<td>Room 210</td>
</tr>
<tr>
<td>7:30a- 5:00p</td>
<td>Confex Presentation Uploading Room for Speakers</td>
<td>Room 404</td>
</tr>
<tr>
<td>8:00a- 9:00a</td>
<td>Cotton Agronomy, Physiology &amp; Soils Conference – MS Student Competition</td>
<td>JW Grand Salon 2</td>
</tr>
<tr>
<td>8:00a- 11:00a</td>
<td>NCGA Technology Committee</td>
<td>Room 402-403</td>
</tr>
<tr>
<td>8:00a- 12:00p</td>
<td>Cotton Sustainability</td>
<td>JW Grand Salon 4</td>
</tr>
<tr>
<td>8:00a- 12:00p</td>
<td>Cotton Leafroll Dwarf Virus Joint Session</td>
<td>Brazos Room</td>
</tr>
<tr>
<td>8:00a- 5:00p</td>
<td>Cotton Agronomy, Physiology &amp; Soils Conference</td>
<td>JW Grand Salon 5</td>
</tr>
<tr>
<td>8:00a- 10:00p</td>
<td>Technical Conferences Poster Board Session</td>
<td>JW Grand Salon 7 &amp; 8</td>
</tr>
<tr>
<td>8:10a- 3:00p</td>
<td>Cotton Weed Science Research Conference</td>
<td>Room 408-409</td>
</tr>
<tr>
<td>10:00a- 10:30a</td>
<td>Coffee Break (Sponsored by Bayer)</td>
<td>JW Grand Ballroom Foyer</td>
</tr>
<tr>
<td>10:30a- 12:00p</td>
<td>Cotton Economic Outlook Symposium</td>
<td>JW Grand Salon 3</td>
</tr>
<tr>
<td>10:30a- 12:00p</td>
<td>Cotton Utilization Conference</td>
<td>Room 406</td>
</tr>
<tr>
<td>1:00p- 2:45p</td>
<td>Cotton Agronomy, Physiology &amp; Soils Conference – PhD Student Competi-</td>
<td>JW Grand Salon 2</td>
</tr>
<tr>
<td>1:00p- 5:00p</td>
<td>Cotton Engineering-Systems Conference</td>
<td>Room 401</td>
</tr>
<tr>
<td>1:00p- 5:30p</td>
<td>Cotton Disease Council</td>
<td>Room 211-212</td>
</tr>
<tr>
<td>1:15p- 4:30p</td>
<td>Cotton Improvement Conference</td>
<td>Brazos Room</td>
</tr>
<tr>
<td>1:15p- 3:15p</td>
<td>Cotton Insect Research &amp; Control Conference- PhD Student Paper Compet-</td>
<td>JW Grand Salon 1</td>
</tr>
<tr>
<td>1:15p- 5:30p</td>
<td>Cotton Insect Research &amp; Control Conference- MS Student Paper Competi</td>
<td>JW Grand Salon 6</td>
</tr>
<tr>
<td>1:30p – 6:00p</td>
<td>Cotton Ginning Conference</td>
<td>JW Grand Salon 3</td>
</tr>
<tr>
<td>1:30p- 5:00p</td>
<td>Cotton Economics and Marketing Conference</td>
<td>JW Grand Salon 4</td>
</tr>
<tr>
<td>3:15p- 4:00p</td>
<td>Coffee Break in Poster Board Session Room (authors present)</td>
<td>JW Grand Salon 7 &amp; 8</td>
</tr>
<tr>
<td>3:30p- 5:30p</td>
<td>Cotton Insect Research &amp; Control Conference- Session B</td>
<td>JW Grand Salon 1</td>
</tr>
<tr>
<td>3:30p- 5:00p</td>
<td>Cotton Quality Measurements Conference</td>
<td>Room 406</td>
</tr>
<tr>
<td>Time</td>
<td>Event</td>
<td>Location</td>
</tr>
<tr>
<td>--------------</td>
<td>----------------------------------------------------------------------</td>
<td>------------------------</td>
</tr>
<tr>
<td><strong>Thursday, January 9, 2020</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4:00p- 5:00p</td>
<td>Cotton Agronomy, Physiology &amp; Soils Conference – PhD Student Competi-</td>
<td>JW Grand Salon 2</td>
</tr>
<tr>
<td></td>
<td>tion</td>
<td></td>
</tr>
<tr>
<td>5:15p- 7:00p</td>
<td>Cotton Agronomy &amp; Physiology Business Meeting</td>
<td>JW Grand Salon 5</td>
</tr>
<tr>
<td>5:30p- 7:00p</td>
<td>Cotton Insect Research &amp; Control Business Meeting and Mixer (Sponsor:</td>
<td>JW Grand Salon 6</td>
</tr>
<tr>
<td></td>
<td>Bayer, Ty Fowler)</td>
<td></td>
</tr>
<tr>
<td>5:45p- 7:00p</td>
<td>Cotton Disease Council Business Meeting</td>
<td>Room 211-212</td>
</tr>
<tr>
<td>6:00p- 7:00p</td>
<td>Cotton Industry Support Group Meeting</td>
<td>JW Grand Salon 3</td>
</tr>
<tr>
<td>6:00p- 7:00p</td>
<td>Journal of Cotton Science Editorial Board</td>
<td>Room 402</td>
</tr>
<tr>
<td>7:00p- 9:00p</td>
<td>Joint Cotton Breeding Committee</td>
<td>Room 403</td>
</tr>
<tr>
<td><strong>Friday, January 10, 2020</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7:00a- 12:00p</td>
<td>Available Room</td>
<td>Room 503</td>
</tr>
<tr>
<td>7:00a- 12:00p</td>
<td>Speaker Practice Room</td>
<td>Room 502</td>
</tr>
<tr>
<td>7:30a- 8:00a</td>
<td>Coffee Break (Sponsored by Bayer)</td>
<td>JW Grand Ballroom Foyer</td>
</tr>
<tr>
<td>7:30a- 12:00p</td>
<td>Confex Presentation Uploading Room (CLOSED; speakers to go to meeting</td>
<td>Room 404</td>
</tr>
<tr>
<td></td>
<td>room to upload)</td>
<td></td>
</tr>
<tr>
<td>7:30a- 1:00p</td>
<td>Conference Registration (Sponsored by Bayer)</td>
<td>JW Grand Ballroom Foyer</td>
</tr>
<tr>
<td>7:30a- 1:00p</td>
<td>Newsroom</td>
<td>Room 210</td>
</tr>
<tr>
<td>8:00a- 9:30a</td>
<td>Cotton Engineering Systems Conference</td>
<td>Room 401</td>
</tr>
<tr>
<td>8:00a- 10:30a</td>
<td>Cotton Insect Research &amp; Control Conf. – Session A</td>
<td>JW Grand Salon 6</td>
</tr>
<tr>
<td>8:00a- 10:30a</td>
<td>Cotton Insect Research &amp; Control Conf. – Session B</td>
<td>JW Grand Salon 1</td>
</tr>
<tr>
<td>8:00a- 11:00a</td>
<td>Cotton Ginning Conference</td>
<td>JW Grand Salon 3</td>
</tr>
<tr>
<td>8:00a- 11:50a</td>
<td>Cotton Improvement Conference 11:50a- 12:00p – Business Meeting</td>
<td>Brazos Room</td>
</tr>
<tr>
<td>8:00a- 12:00p</td>
<td>Technical Conferences Poster Board Session</td>
<td>JW Grand Salon 7 &amp; 8</td>
</tr>
<tr>
<td>8:00a- 12:00p</td>
<td>Cotton Disease Council</td>
<td>Room 211-212</td>
</tr>
<tr>
<td>9:00a- 10:00a</td>
<td>Cotton Agronomy, Physiology &amp; Soils Conference- Session A</td>
<td>JW Grand Salon 5</td>
</tr>
<tr>
<td>10:00a- 10:30a</td>
<td>Cotton Weed Science Research- Graduate Student Awards</td>
<td>Room 402-403</td>
</tr>
<tr>
<td>10:00a- 10:30a</td>
<td>Coffee Break (Sponsored by Bayer)</td>
<td>JW Grand Ballroom Foyer</td>
</tr>
<tr>
<td>10:30a- 12:00p</td>
<td>Cotton Agronomy, Physiology &amp; Soils Conference- Awards Session</td>
<td>JW Grand Salon 5</td>
</tr>
</tbody>
</table>
To help with event planning and scheduling, Beltwide Cotton Conferences (BWCC) attendees are invited to use the BoardBookIt App, an online scheduler that provides easy access to meeting materials, including meeting schedules, hotel maps and meeting reminders.

BWCC registrants should have received a welcome email from BoardBookIt that includes a temporary link to set up login credentials. If you downloaded BoardBookIt for previous NCC meetings, you do not have to download it again or create login credentials. Just login to access the Beltwide Meeting materials.

To receive a temporary link to set up login credentials, please contact NCC’s Jana Jackins at jjackins@cotton.org or 901-274-9030. Those who have not received the welcome email are advised to check their SPAM/Junk in case the email was routed into those folders.

Once the invitation email has been received, BoardBookit may be accessed via iPad, iPhone app, Android app or web browser by visiting either the Apple store, Google Play or Amazon to download the BoardBookIt app.

**Wi-Fi**

**Wi-Fi Address:** JWMarriott_Conference  
**Wi-Fi Password:** beltwide2020
CEU Information

BWCC attendees are encouraged to seek CEU credits from the appropriate agency based on an individual’s level of participation in BWCC programs.

The CEU application process is now tailored to the CEU requirements of each certifying entity (state regulatory authority or association certifier). Until recently, the application process across entities was relatively uniform. However, application processes have diverged to the extent that it is no longer feasible for BWCC staff to provide blanket CEU application services. BWCC staff will submit the final BWCC program to those states and agencies listed below that may accept the BWCC Technical Conferences program for CEU evaluation. It is up to individuals to submit their application to their desired accreditation authority.

<table>
<thead>
<tr>
<th>Accrediting Group or State</th>
<th>Accreditation Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Certified Crop Adviser (CCA) Program</strong></td>
<td>American Society of Agronomy (Soil Science Society of America), 5585 Guilford Road, Madison, WI 53711-5801 (National) Certification Representative—Certification Programs; Phone: 608-268-4953; Fax: 608-273-2081; Toll Free Number: 866-359-9161; Email: <a href="mailto:ledwardson@sciencesocieties.org">ledwardson@sciencesocieties.org</a></td>
</tr>
<tr>
<td><strong>Alabama</strong></td>
<td>Department of Agriculture &amp; Industries, Pesticide Management ~ Certification Unit; 1445 Federal Drive, Montgomery, AL 36107; Phone: 334-240-7240; Fax: 334-240-7168; Email: <a href="mailto:Barbara.gates@agi.alabama.gov">Barbara.gates@agi.alabama.gov</a></td>
</tr>
<tr>
<td><strong>Arizona</strong></td>
<td>Department of Agriculture, Office of Pest Management; 1688 West Adams, Phoenix, AZ 85007; Phone: 602-255-3662; Email: <a href="mailto:rwalker@azda.gov">rwalker@azda.gov</a></td>
</tr>
<tr>
<td><strong>Arkansas</strong></td>
<td>Charles E. Denver, Denver Crop Consultants; P.O. Box 304, Watson, AR 71674; Phone: 870-866-2335; Fax: 870-644-3254; Email: <a href="mailto:cdagri@hotmail.com">cdagri@hotmail.com</a></td>
</tr>
<tr>
<td><strong>California</strong></td>
<td>Department of Pesticide Regulation; P.O. Box 1379, Sacramento, CA 95812; Phone: 916-445-3914; Fax: 916-928-0705; Email: <a href="mailto:info4ce@cecpm.com">info4ce@cecpm.com</a></td>
</tr>
<tr>
<td><strong>Georgia</strong></td>
<td>Department of Agriculture; 19 Martin Luther King, Jr. Dr., Room 410, Atlanta, GA 30334; Phone: 404-656-4960; Fax: 404-657-8378; Email: <a href="mailto:Adrean.Rhodes@agr.georgia.gov">Adrean.Rhodes@agr.georgia.gov</a></td>
</tr>
<tr>
<td><strong>Louisiana</strong></td>
<td>Department of Agriculture &amp; Forestry, Office of Agricultural &amp; Environmental Sciences; 5825 Florida Blvd. Ste. 3003, Baton Rouge, LA 70806-4259; Phone: 225-925-3763; Fax: 225-237-5725; Email: <a href="mailto:kevin_w@ldaf.state.la.us">kevin_w@ldaf.state.la.us</a>; Web: <a href="http://www.ldaf.state.la.us">www.ldaf.state.la.us</a></td>
</tr>
<tr>
<td><strong>Mississippi</strong></td>
<td>Department of Agriculture &amp; Commerce, Bureau of Plant Industry, Pest Control Section; P.O. Box 5207, Mississippi State, MS 39762; Phone: 662-325-0522 or 662-325-7766; FAX: 662-325-0397; Email: <a href="mailto:russellk@mdac.ms.gov">russellk@mdac.ms.gov</a> (or) <a href="mailto:AnnaA@mdac.ms.gov">AnnaA@mdac.ms.gov</a></td>
</tr>
<tr>
<td><strong>New Mexico</strong></td>
<td>Department of Agriculture, Cert. &amp; Training Specialist; 190 S. Espina, MSC 3AQ, Box 30005, Las Cruces, NM 88003-8005; Phone: 575-646-4837; FAX: 575-646-1540; Email: <a href="mailto:pesticides@nmda.nmsu.edu">pesticides@nmda.nmsu.edu</a></td>
</tr>
<tr>
<td><strong>North Carolina</strong></td>
<td>Pesticide Section, NCDA &amp; CS; 1090 Mail Service Center, Raleigh, NC 27699-1090; Phone: 919-857-4133; FAX: 919-733-9796; Email: <a href="mailto:John.Feagans@ncagr.gov">John.Feagans@ncagr.gov</a></td>
</tr>
<tr>
<td>State</td>
<td>Contact Information</td>
</tr>
<tr>
<td>------------</td>
<td>-------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Oklahoma</td>
<td>Oklahoma Pesticide Certification &amp; Training Administrator, Agriculture, Food and</td>
</tr>
<tr>
<td></td>
<td>Forestry, Consumer Protection Services;</td>
</tr>
<tr>
<td></td>
<td>2800 N. Lincoln Blvd., Oklahoma City, OK 73105;</td>
</tr>
<tr>
<td></td>
<td>Phone: 405-522-5993; Fax: 405-522-5986; Email: <a href="mailto:ryan.williams@ag.ok.gov">ryan.williams@ag.ok.gov</a></td>
</tr>
<tr>
<td>South</td>
<td>Carolina Special Programs Manager/Recertification Manager</td>
</tr>
<tr>
<td></td>
<td>Department of Pesticide Regulation</td>
</tr>
<tr>
<td></td>
<td>Division of Regulatory &amp; Public Service Programs</td>
</tr>
<tr>
<td></td>
<td>511 Westinghouse Road, Pendleton, SC 29670;</td>
</tr>
<tr>
<td></td>
<td>Phone: 864-646-2150; Fax: 864-646-2179; Email: <a href="mailto:thghslr@clemson.edu">thghslr@clemson.edu</a></td>
</tr>
<tr>
<td>Tennessee</td>
<td>Department of Agriculture, Ellington Ag. Center, Regulatory Services;</td>
</tr>
<tr>
<td></td>
<td>440 Hogan Road, Melrose Station, Nashville, TN 37204;</td>
</tr>
<tr>
<td></td>
<td>Phone: 615-837-5310; Fax: 615-837-5012; Email: <a href="mailto:mary.borthick@tn.gov">mary.borthick@tn.gov</a></td>
</tr>
<tr>
<td>Texas</td>
<td>Department of Agriculture, Coordinator for Pesticide Certification and Compliance;</td>
</tr>
<tr>
<td></td>
<td>P.O. Box 12847, Austin, TX 78711;</td>
</tr>
<tr>
<td></td>
<td>Phone: 512-463-7692 or 800-835-5832; Fax: 888-216-9865; (CEU inquiries) Email:</td>
</tr>
<tr>
<td></td>
<td><a href="mailto:recertcourses@texasagriculture.gov">recertcourses@texasagriculture.gov</a>; Phone: 512-463-8713</td>
</tr>
</tbody>
</table>
JW Marriott Austin Hotel
Meeting Room Floor Plans

LEVEL 2

- ESCALATORS DOWN TO LEVEL 1
- ESCALATORS UP TO LEVEL 3

- LOUNGE
- GRIFFIN HALL
- MEETING ROOMS
- ELEVATORS
JW Marriott Austin Hotel
Meeting Room Floor Plans

LEVEL 4

- Beltwide Registration
- Wi-Fi

JW GRAND SALON 1
JW GRAND SALON 2
JW GRAND SALON 3
JW GRAND SALON 4
JW GRAND SALON 5

REGISTRATION AREA

LEVEL 4

JW GRAND BALLROOM FOYER

ESCALATORS DOWN TO LEVEL 3
JW Marriott Austin Hotel
Meeting Room Floor Plans

(Salons 7-8) Poster Board Session
JW GRAND SALON 6
JW GRAND SALON 7
JW GRAND SALON 8

Confex Speaker Presentation
Uploading Room
JW Marriott Austin Hotel
Meeting Room Floor Plans

LEVEL 5
JW Marriott Austin Hotel
Meeting Room Floor Plans

Speaker Practice Room
Wednesday, January 8, 2020

Cotton Consultants Conference

CONSULTANTS CONFERENCE GENERAL SESSION
JW Grand Salons 3-4, 12:00 PM-5:15 PM

12:00 PM  Introduction and Acknowledgements
Hank Jones, Chairman Consultants Conference, Winnsboro, LA

12:05 PM  Bayer

12:10 PM  Phytogen

12:15 PM  FMC

12:20 PM  Syngenta

12:25 PM  BASF

12:30 PM  EPA Registration/Registration Review and Comment Process
Rick P. Keigwin, EPA, Washington, DC

1:00 PM   Insect Panel (A)
Jeremy Greene, Clemson University, Blackville, SC

1:09 PM   Insect Panel (B)
Ron Smith, Auburn University, Auburn, AL

1:18 PM   Insect Panel (C)
David Kerns, Texas A&M University, College Station, TX

1:27 PM   Insect Panel (D)
Angus Catchot, Mississippi State University, Mississippi State, MS

1:36 PM   Insect Panel (E)
Sebe Brown, LSU AgCenter, Winnsboro, LA

1:45 PM   Disease Panel - Nematodes
Travis R. Faske, University of Arkansas Division of Agriculture, Lonoke, AR

2:00 PM   Disease Panel - Target Spot
Paul Price, Louisiana State University, Winnsboro, LA

2:15 PM   Disease Panel - CLRDV
Kathy Lawrence, Auburn University, Auburn, AL

2:30 PM   U.S. Cotton Trust Protocol Pilot
Ken Burton, National Cotton Council, Cordova, TN

2:45 PM   Cotton Contamination Education
Bill Norman, National Cotton Council, Cordova, TN

3:00 PM   Break

3:15 PM   Multi-State Potash Study
Katie L. Lewis, Texas A&M AgriLife Research and Extension Center, Lubbock, TX

3:45 PM   Breeding Program Panel: Decisions in Selection of Varieties (A)
Terry Campbell, Americot, Lubbock, TX

3:56 PM   Breeding Program Panel: Decisions in Selection of Varieties (B)
David W Albers, Bayer Crop Science, St. Louis, MO

4:07 PM   Breeding Program Panel: Decisions in Selection of Varieties (C)
Joel C Faircloth, PhytoGen Seed Company, LLC, Clemmons, NC
4:18 PM  Breeding Program Panel: Decisions in Selection of Varieties (D)
Steve Nichols, BASF, Lubbock, TX

4:30 PM  A Stakeholder Driven Approach to Optimize Modeling and Monitoring of Water Resources in the Mississippi Alluvial Plain
Jeannie Barlow, USGS Lower Mississippi-Gulf Water Science Center, Jackson, MS

4:45 PM  A Regional Conceptual Model of the Hydrogeologic Framework of a Portion of the Ogallala Aquifer
Jonathan V Thomas, USGS - North Texas Program, Fort Worth, TX

5:00 PM  Concluding Remarks
Cotton Sustainability

JW Grand Salon 4, 8:00 AM-12:00 PM

8:00 AM  Session Overview and Importance of Sustainability for the Cotton Industry
Gary Adams, National Cotton Council, Cordova, TN

8:20 AM  Aggressive Brand and Retailer Sustainability Targets: How to Position Cotton As Part of a Sustainable Future
Jesse Daystar, Cotton Incorporated, Cary, NC

9:00 AM  US Cotton Trust Protocol: The New Standard in Sustainability
Ken Burton, US Cotton Trust Protocol, Cordova, TN

10:00 AM  Break

10:30 AM  Panel Discussion: Grower Perspective on the Increasing Sustainability Needs of Brands and Retailers

11:15 AM  Panel Discussion: Brand Perspectives on the Increasing Sustainability Needs from NGOs and Consumers

Cotton Leafroll Dwarf Virus

Joint Session

Brazos, 8:00 AM-12:00 PM

8:00 AM  Cotton Leafroll Dwarf Virus: 2019 Status of Genomic Variability in Cotton
Judith K Brown, University of Arizona, Tucson, AZ and Kathy Lawrence, Auburn University, Auburn, AL

8:20 AM  CLRDV Multi-State Sentinel Plot and Screening Trial Results
Marcio Zaccaron, Jenny Koebernick, Austin Hagan and Kassie Conner, Auburn University, Auburn, AL

8:40 AM  Sentinel Plot Cooperators 3 Minute Update

8:55 AM  Investigating the Impact of Planting Date and Cotton Aphid Management on the Final Incidence of Cotton Leafroll Dwarf Virus. Alana Lynn Jacobson1, Phillip Roberts2, Michael Toews2, Kassie Conner1, Sudeep Bag3, John Mahas1 and Adam Kesheimer1, (1)Auburn University, Auburn, AL, (2)University of Georgia, Tifton, GA

9:15 AM  Study of Cotton Leafroll Dwarf Virus in Mississippi: State of the Art
Nina Aboughanem1, Thomas W. Allen2, Tessie H. Wilkerson3, Jodi Scheffler4 and Sead Sabanadzovic1, (1)Mississippi State University, Mississippi State, MS, (2)Mississippi State University, Delta Research and Extension Center, Stoneville, MS, (3)Mississippi State University, Stoneville, MS, (4)USDA-ARS, Stoneville, MS

9:35 AM  Transmission of Cotton Leafroll Dwarf Virus By Aphis Gossypii
Brianna Heilsnis, Kassie Conner, Jenny Koebernick and Alana Lynn Jacobson, Auburn University, Auburn, AL

9:50 AM  Panel Discussion

10:10 AM Break
Thursday, January 9, 2020

Sudeep Bag1, Afsha Tabassum1, Nabin Sedhain1, Jared R. Whitaker1, Nelson Dias Suassuna2, Kassie Conner3, Robert L. Nichols3, Robert C. Kemerait1, Peng Chee1 and Phillip Roberts1, (1)University of Georgia, Tifton, GA, (2) Brazilian Agricultural Research Corporation - EMBRAPA, Santo Antonio de Goias - GO, Brazil, (3)Auburn University, Auburn, AL, (4)Cotton Incorporated, Cary, NC

10:45 AM  Cotton Aphid Insecticide Efficacy in the Southeast
Phillip Roberts1, Michael Toews1, Alana L. Jacobson2, Ron Smith2, Silvana Paula-Moraes3, Jeremy Greene4, Dominic Reisig5 and Sally Taylor6, (1)University of Georgia, Tifton, GA, (2)Auburn University, Auburn, AL, (3)University of Florida, Jay, FL, (4)Clemson University, Blackville, SC, (5)North Carolina State University, Plymouth, NC, (6)Virginia Tech University, Suffolk, VA

11:05 AM  Blocking Aphid Transmission of Cotton Leafroll Dwarf Virus: A New Approach to Disease Management
Michelle L Heck, USDA ARS, Ithaca, NY and Jennifer Wilson, Cornell University, Ithaca, NY

11:25 AM  Chasing Resistance to Cotton Leafroll Dwarf Virus, Does Mississippi Have a Source?
Jodi Scheffler1, Nina Aboughanem2, Tessie H. Wilkerson3, Thomas W. Allen4 and Sead Sabanadzovic5, (1)USDA-ARS, Stoneville, MS, (2)Mississippi State University, Mississippi State, MS, (3)Mississippi State University, Stoneville, MS, (4)Mississippi State University, Delta Research and Extension Center, Stoneville, MS

11:45 AM  Panel Discussion

Cotton Agronomy, Physiology & Soil Conference

COTTON AGRONOMY, PHYSIOLOGY & SOILS - THURSDAY EARLY MORNING

JW Grand Salon 5, 8:00 AM-10:00 AM

8:00 AM  Cotton Yield and Water Use Response to Variable Irrigation Rate and Timing
Kelly R. Thorp, Alison L. Thompson and Kevin F. Bronson, USDA-ARS, Maricopa, AZ

8:15 AM  Effects of Heat Stress on Cotton Production in the Low Deserts of Arizona
Randy Norton, University of Arizona, Safford, AZ and Blase Evancho, University of Arizona, Casa Grande, AZ

8:30 AM  US Mid-South Cotton Ecosystem Respiration Measurements
Michele L. Reba1, Bryant N Fong1, Tina Gray Teague2, Arlene Adviento-Borbe1 and Benjamin R. K. Runkle3, (1)USDA-ARS, Jonesboro, AR, (2)Ark State Univ / Univ Ark Exp Sta, State University, AR, (3)University of Arkansas, Fayetteville, AR

8:45 AM  Deficit Irrigation Under SDI Versus Furrow Irrigation in the San Joaquin Valley: Pima and Upland Responses
Robert B Hutmacher, University of California West Side REC, Five Points, CA

9:00 AM  Middle Children Are Best: Carbon Dynamics and Boll Distribution
Glen Ritchie and Irish Lorraine B Pabuayon, Texas Tech University, Lubbock, TX
9:15 AM  Water Use, Yield and Fiber Quality Response of Six Upland Cotton Cultivars to Irrigation
Robert Schwartz1, Travis Witt2, Mauricio Ulloa3, Paul Colaizzi4 and R. Louis Baumhardt4, (1)USDA-ARS, Conservation and Production Research Laboratory, Bushland, TX, (2)USDA-ARS, El Reno, OK, (3)USDA-ARS, Lubbock, TX, (4) USDA-ARS, Bushland, TX

9:30 AM  Alternatives for Chemical Stalk Destruction of 2,4-D Tolerant Cotton in South Texas
Josh McGinty, Texas A&M AgriLife Extension Service, Corpus Christi, TX and Danielle Sekula, Texas A&M AgriLife Extension Service, Weslaco, TX

9:45 AM  Fiber Quality and Gross Profit as Influenced by Sub-Lethal Rates of 2,4-D and Yield Environment
Seth A. Byrd1, Misha R. Manuchehri1, Peter A. Dotray2, J. Wayne Keeling3 and Gaylon Morgan4, (1)Oklahoma State University, Stillwater, OK, (2)Texas Tech University, Texas A&M AgriLife Research and Extension Service, Lubbock, TX, (3)Texas A&M AgriLife Research and Extension Center, Lubbock, TX, (4) Cotton Incorporated, Cary, NC

8:00 AM  Assessing the Physiological Basis of Yield Response to Irrigation in Cotton
Alessandro Ermanis1, John L. Snider1, George Vellidis1, Stefano Gobbo1, Leonardo V. Galdi2, Lorenza N. Lacerda1, Matthew Aaron Bruce1, Calvin Perry1, Vasileios Liakos1, Bobby J. Washington4, Amanda Lynn Brown4, Yafit Cohen5, (1)University of Georgia, Tifton, GA, (2)Università del Oeste Paulista, Presidente Prudente, Brazil, (3)Superintendent, Stripling Irrigation Research Park, University of Georgia, Tifton, GA, (4)University of Georgia, Camilla, GA, (5)Agricultural Research Organization (ARO), Bet-Dagan, Israel

8:15 AM  Impact of Row Spacing and Variety on Cotton Fruit Distribution and Yield
Steven D. Hall1, Darrin M. Dodds1, Bradley Norris1, William J Rutland1, Jacob P. McNeal1, John J. Williams1, Tyson B Raper2, Tyler Sandlin3 and Whitney Crow1, (1)Mississippi State University, Mississippi State, MS, (2)University of Tennessee, Jackson, TN, (3)Auburn University, Belle Mina, AL

8:30 AM  Evaluating Various Soil Moisture Sensor Thresholds in Cotton in South Carolina
Tyler S. Soignier, Michael T. Plumblee, Gilbert A. Miller, Kendall R. Kirk, John Mueller and Jeremy Greene, Clemson University, Blackville, SC

8:45 AM  Efforts to Improve Cotton Production in Azerbaijan
Braden Tondre1, Steve Hague1, Uzeyir Topchibashev2 and Josh McGinty3, (1)Texas A&M University, College Station, TX, (2)AgroCenter, Baku, Azerbaijan, (3)Texas A&M AgriLife Extension Service, Corpus Christi, TX

10:30 AM  Effect of an Extract of the Marine Plant, Ascophyllum Nodosum, on Boll Abortion of Cotton
Robin E Ross, Acadia Plant Health, Monroe, NC

Amany Ahmed Elashmouny, Cotton research institute, Egypt, Egypt, Youssifi Gorge Yanni, Soil and water research institute, Egypt, Egypt and Abdelgawad Youssif Elsadany, Soil and water research institute, Giza, Egypt
Thursday, January 9, 2020

11:00 AM  Soil and Foliar-Applied Potassium Fertilizers in Upland Cotton Production
William Howard Smith Wendland¹, Audrey V. Gamble² and Elizabeth Guertal¹, (1)Department of Crop, Soil, and Environmental Sciences, Auburn University, AL, (2)Auburn University, Auburn, AL

11:15 AM  Cotton Yield Benefits from Poultry Litter Applied as Variable Rate
Haile Tewolde and Johnnie N. Jenkins, USDA-ARS, Mississippi State, MS

11:30 AM  Evaluation of Irrigation and Fertilization Strategies to Improve Irrigation and Nitrogen Use Efficiencies in Cotton
George Veilidis¹, Matthew Gruver¹, Lorena N. Lacerda¹, Calvin Perry¹, Arianna Toffanin¹ and Bobby J. Washington¹, (1)University of Georgia, Tifton, GA, (2)Superintendent, Strippling Irrigation Research Park, University of Georgia, Camilla, GA, (3)University of Georgia, Camilla, GA

11:45 AM  Development and Testing of Variable Rate Nitrogen Prescriptions for Cotton Production
Kendall R. Kirk and Michael T. Plumlee, Clemson University, Blackville, SC

12:00 PM  Optimum Grid Size for Sampling Soil Variability - Science, Mystery, or Magic
Dr. M. Wayne Ebelhar and Richard E. Turner, Mississippi State University, Stoneville, MS

COTTON AGRONOMY, PHYSIOLOGY & SOILS - THURSDAY EARLY AFTERNOON

JW Grand Salon 5, 1:00 PM-2:30 PM

1:00 PM  Use of an Ultrasonic Distance Sensor for Estimating Cotton Plant Height
Kevin F. Bronson¹, Andrew N. French¹ and Edward M. Barnes², (1)US-DA-ARS, Maricopa, AZ, (2)Cotton Incorporated, Cary, NC

1:15 PM  Simulating Climate-Change-Adaptive Cultivars for Sustaining Cotton Production in the Texas High Plains
Kritika Kothari, University of Kentucky, Lexington, KY, Srinivasulu Ale, Texas A&M AgriLife Research, Vernon, TX, James P. Bordovsky, Texas A&M AgriLife Research Center, Lubbock, TX, Clyde Munster, Texas A&M University, College Station, TX and Gerrit Hoogenboom, University of Florida, Gainsville, FL

1:30 PM  Simulated Crop-Growth-Stage-Based Deficit Irrigation Strategies for Cotton for Increasing Water Productivity and Net Returns
Sushil Kumar Himanshu¹, Yubing Fan¹, Srinivasulu Ale¹ and James P. Bordovsky¹, (1)Texas A&M AgriLife Research, Vernon, TX, (2)Texas A&M AgriLife Research Center, Lubbock, TX

1:45 PM  Assessing the Feasibility of Predicting Cotton Fiber Quality Using Multi-Temporal UAS Data
Nothabo Dube¹, Juan Landivar², Murilo Maeda³, Andrea Maeda³, Anjini Chang³, Akash Ashapure³, Jinha Jung³, Sungchan Oh³ and Mahendra Bhandari³, (1)Texas A & M AgriLife Research, Corpus Christi, TX, (2)Texas A&M AgriLife Research, Corpus Christi, TX, (3)Texas A & M AgriLife Research, Lubbock, TX, (4)Texas A&M University - Corpus Christi, Corpus Christi, TX, (5)Purdue University, West Lafayette, IN, (6)Texas A & M University, College Station, TX

2:00 PM  UAV or Satellite Monitoring Platform for in Season Management of Cotton Crops
Juan Landivar¹, Jinha Jung³, Akash Ashapure³, Nothabo Dube³, Murilo Maeda³ and Anjini Chang³, (1)Texas A&M AgriLife Research, Corpus Christi, TX, (2)Purdue University, West Lafayette, IN, (3)Texas A & M AgriLife Research, Corpus Christi, TX, (4)Texas A&M AgriLife Extension, Lubbock, TX, (5)Texas A&M University - Corpus Christi, Corpus Christi, TX
2:15 PM  On Farm Precision Experimentation with Cotton
Luciano Shozo Shirotsuchi, Louisiana State University Agricultural Center, Baton Rouge, LA, Ziany Neiva Brandao, Embrapa Cotton, Campina Grande, Brazil, Edison Ulisses Ramos Junior, Embrapa Agrosilvipastoral, Sinop, Brazil and Murilo Maeda, Texas A&M AgriLife Extension, Lubbock, TX

COTTON AGRONOMY, PHYSIOLOGY & SOILS CONFERENCE - THURSDAY EARLY AFTERNOON - PHD STUDENT COMPETITION
JW Grand Salon 2, 1:00 PM-2:45 PM

1:00 PM  Contributions of Various Physiological Parameters to Early Season Whole Crop Vigor in Cotton
Gurpreet Virk, John L. Snider and Cristiane Pilon, University of Georgia, Tifton, GA

1:15 PM  Assessing the Impacts of Future Climate on Cotton Production in the Arizona Low Desert
Ibukun Timothy Ayankojo1, Kelly R. Thorp2, Kelly T. Morgan1, Kritika Kothari1 and Srinivasulu Ale1, (1)University of Florida/Southwest Florida Research and Education Center, Immokalee, FL, (2)USDA-ARS, Maricopa, AZ, (3)Texas A&M AgriLife Research, Vernon, TX

1:30 PM  Impacts on Cotton Fiber Quality from Multiple Pickings Compared to Traditional Single Pass Harvest Systems
James A. Griffin, Texas A&M Cotton Extension, College Station, TX, Gaylon Morgan, Texas A&M AgriLife Extension Service, College Station, TX, Emi Kimura, Texas A&M AgriLife Research and Extension Service, Vernon, TX, John L. Snider, University of Georgia, Tifton, GA, Tyson B Raper, University of Tennessee, Jackson, TN and Edward M. Barnes, Cotton Incorporated, Cary, NC

1:45 PM  UAV and Satellite-Based Images Correlation with Cotton Physiological Parameters and Their Use as a Tool for Variable Rate Irrigation in Cotton
Lorena N. Lacerda1, John L. Snider1, Vasileios Liakos1, Alessandro Ermanis2, Leonardo V. Galdi1 and George Vellidis1, (1)University of Georgia, Tifton, GA, (2)University of Padova, Legnaro, Italy, (3)Universidade do Oeste Paulista, Presidente Prudente, Brazil

2:00 PM  Foliar Fertilizer Use in Cotton Under Various Fertility Programs
Bradley R. Wilson1, Seth A. Byrd1, Katie L. Lewis2, Brian Arnall1 and Cayden B. Catlin1, (1)Oklahoma State University, Stillwater, OK, (2)Texas A&M AgriLife Research Center, Lubbock, TX

2:15 PM  Cover Crop Management in Texas High Plains Cotton
C.D. Ray White1, Katie L. Lewis2 and J. Wayne Keeling2, (1)Texas A&M AgriLife Research, Lubbock, TX, (2)Texas A&M AgriLife Research and Extension Center, Lubbock, TX

2:30 PM  Optimizing Irrigation and Fertilizer Management in Cotton to Increase Nitrogen Use Efficiency
Amee Bumgardner1, Katie L. Lewis2 and Terry A Wheeler2, (1)Texas Tech University, Lubbock, TX, (2)Texas A&M AgriLife Research and Extension Center, Lubbock, TX

COTTON AGRONOMY, PHYSIOLOGY & SOILS - THURSDAY LATE AFTERNOON
JW Grand Salon 5, 4:00 PM-5:00 PM

4:00 PM  Evaluation of Variety Performance with Regard to Bollworm Management in NC - MOVED TO POSTER SESSION
Guy D. Collins1, Anders S. Huseth2, Kristen A. Hopperstad3, Dominic Reisig4, Keith L. Edmisten1 and Charlie Cahoon2, (1)NC State University, Rocky Mount, NC, (2)North Carolina State University, Raleigh, NC, (3)NC State University, Raleigh, NC, (4)North Carolina State University, Plymouth, NC
4:15 PM  Evaluating the Effect of in-Furrow Applied Aldicarb for the Prevention of Deer Browsing on Seedling Cotton in Georgia. Katie Burch, UGA Extension Burke County, Waynesboro, GA, Mark Freeman, Extension Agronomist, Department of Crop and Soil Sciences, Statesboro, GA and Jason E. Mallard, University of Georgia Cooperative Extension, Millen, GA

4:30 PM  Plant Spacing Effects on Cotton Yield and Yield Contributing Characters MD - Akhteruzzaman, Cotton Development Board, Dhaka-1215, Bangladesh

4:45 PM  Heat Stress and Low Desert Cotton - Results of 2018 Experimentation Michael D. Rethwisch, University of California Cooperative Extension, Blythe, CA, Brad Robinson, Robinson Farms, Blythe, CA, Ryan Seiler, Jack Seiler Farms, Palo Verde, CA and Aaron Palmer, Bryce Farms, Blythe, CA

4:00 PM  Nitrogen Management in Conservation Systems to Increase Use Efficiency and Cotton Production Joseph Alan Burke, Texas A&M AgriLife Research, Lubbock, TX and Katie L. Lewis, Texas A&M AgriLife Research and Extension Center, Lubbock, TX

4:15 PM  Relationship between Cotton Reflectance Data and Visual Injury Ratings of Varied Rates of 2,4-D and Dicamba Savana D Denton1, Tyson B Raper1, Freeman Brown1, Darrin M. Dodds2 and Christopher Main3, (1)University of Tennessee, Jackson, TN, (2)Mississippi State University, Mississippi State, MS, (3)Dow AgroSciences, Medina, TN

4:30 PM  Cotton (Gossypium hirsutum) Defoliation As Affected By Droplet Size and Carrier Volume Jacob P. McNeal1, Darrin M. Dodds1, Greg Kruger2, John J. Williams3, Steven D. Hall1 and Bradley Norris1, (1)Mississippi State University, Mississippi State, MS, (2)University of Nebraska - Lincoln, North Platte, NE

4:45 PM  Impact of Cultivar Variation in Cotton Seed Characteristics and Nitrogen Application Rate on Crop Development and Yield Component Responses Matthew Aaron Bruce1, John L. Snider1, Alessandro Ermanis2, Jared R. Whitaker1, Leonardo V. Galdi3 and Guy D. Collins4, (1)University of Georgia, Tifton, GA, (2)University of Padova, Legnano, Italy, (3)Universidade do Oeste Paulista, Presidente Prudente, Brazil, (4)North Carolina State University, Rocky Mount, NC

COTTON AGRONOMY & PHYSIOLOGY BUSINESS MEETING

JW Grand Salon 5, 5:15 PM-7:00 PM

Cotton Disease Council

COTTON DISEASE COUNCIL - STUDENT PAPER COMPETITION

Rooms 211-212, 1:00 PM-3:15 PM

1:00 PM  Cotton Cultivar Response to CLRDV as Influenced By Planting Date Drew Schrimsher and Kathy S. Lawrence, Auburn University, Auburn, AL

Thursday, January 9, 2020
1:15 PM  Investigating the Interaction between Crop Age and Timing of Cotton Leafroll Dwarf Virus Inoculation on Disease Severity and Yield Loss
Autumn A. McLaughlin, Kassie Conner, Kira L. Bowen, Austin K. Hagan, Will Groover, Kathy Lawrence and Alana Lynn Jacobson, Auburn University, Auburn, AL

1:30 PM  G143A Mutation in the Cytochrome b Gene Detected from Corynespora cassicola Isolates in Alabama
Marina Nunes Rondon, Bisho Ram Lawaju and Kathy Lawrence, Auburn University, Auburn, AL

1:45 PM  Identification of Host-Selective Toxins in Corynespora cassicola Causing Target Spot of Cotton, Soybean and Tomato
Manuela A. Samaco1, Robert C. Kemerait2, Anthony E. Glenn1, Trevor R. Mitchell1 and Marin T. Brewer1, (1)University of Georgia, Athens, GA, (2) University of Georgia, Tifton, GA

2:00 PM  High Demand for Joint Effort: Improving Hemp Production for CBD in Tennessee
Madison Cartwright, Zach Hansen, Eric Walker and Heather Young, University of Tennessee, Jackson, TN

2:15 PM  Fungicide Resistance Screening Target Spot in Cotton and Soybean
Tyr Smith and Heather Kelly, University of Tennessee, Jackson, TN

2:30 PM  An Assessment of Seed Treatment Efficacy and Cotton Seedling Disease Presence Using Innovative Techniques
Shelly Neill Pate1, Heather Kelly1, Rachel R. Guyer1, Kathy S. Lawrence1, Alejandro Rojas1, Robert C. Kemerait4, P. D. Colyer6, Paul Price4, Tessie H. Wilkerson7, Thomas W. Allen7, Lindsey D. Thiessen2, Terry A. Wheeler5, Thomas Isakeit11, and Hillary L. Mehl11, (1)University of Tennessee, Jackson, TN, (2) Auburn University, Auburn, AL, (3)University of Arkansas, Fayetteville, AR, (4)University of Georgia, Tifton, GA, (5)L.S.U Agcenter, Bossier City, LA, (6) Louisiana State University, Winnboro, LA, (7)Mississippi State University, Stoneville, MS, (8)Mississippi State University, Delta Research and Extension Center, Stoneville, MS, (9)NC State University, Raleigh, NC, (10)Texas A&M AgriLife Research, Lubbock, TX, (11)Texas A&M University, College Station, TX, (12)Virginia Tech Tidewater AREC, Suffolk, VA

2:45 PM  Molecular, Genomic and Cellular Characterization of Emerging Fusarium Wilt of Cotton Race 4 in Texas
Catherine Danmaigna Clement1, Zunyong Liu1, Liang Kong1, Lin Zhang3, Steve Hague1, Thomas Isakeit1, Terry A Wheeler2, Ping He1, Jane K Dever2 and Libo Shan1, (1)Texas A&M University, College Station, TX, (2)Texas A&M University, College Station, TX, (3)Texas A&M AgriLife Research and Extension Center, Lubbock, TX

3:00 PM  A Robust Metric for the Environmental Quantification of Fusarium Oxysporum f. Sp. Vasinfectum Race 4
Roy Davis and Thomas M. Chappell, Texas A&M University, College Station, TX

COTTON DISEASE COUNCIL - STUDENT PAPER COMPETITION (CONT'D) AND AFTERNOON TECHNICAL SESSION
Rooms 211-212, 4:00 PM-5:30 PM

4:00 PM  Multi-Year Study of the Temporal Variability of Fusarium Oxysporum F. Sp. Oxysporum Races As Influenced By Cotton Cultivar and in the National Cotton Fusarium Wilt Evaluation FIELD in Alabama.
David R Dyer and Kathy S. Lawrence, Auburn University, Auburn, AL

4:15 PM  Yield Benefits of Nematicide Applications across Multiple Cotton Cultivars in Root-Knot and Reniform Nematode Infested Fields
Will Groover, David R Dyer and Kathy S. Lawrence, Auburn University, Auburn, AL
4:30 PM  Effect of Soybean Cyst Nematode on Dynamics of N-Fixation, Root, and Leaf Growth in Three Soybean Lines. Rufus J Akinrinlola¹, Heather Kelly², Thomas Sinclair³ and Avat Shekoofa², (¹University of Tennessee Knoxville, Jackson, TN, (²University of Tennessee, Jackson, TN, (³Crop Science Department, North Carolina State University, Raleigh, NC

4:45 PM  Predicting Disease in the Field before It Becomes an Issue Michael Prorock, mesur.io, Chapel Hill, NC

5:00 PM  Efficacy and Yield Protection from Developmental Fungi- cides Compared for the Control of Target Spot in Cotton. Austin Hagan¹, Katherine Burch¹ and H. Brad Miller², (¹Auburn University, Auburn, AL, (²Brewton Agricultural Research Unit, Brewton, AL

5:15 PM  Reaction of Cotton Cultivars and Breeding Lines to Target Spot in Alabama. Austin Hagan¹, Katherine Burch¹, H. Brad Miller² and Don Moore³, (¹Auburn University, Auburn, AL, (²Brewton Agricultural Research Unit, Brewton, AL, (³Prattville Agricultural Research Unit, Prattville, AL

COTTON DISEASE COUNCIL - BUSINESS MEETING
Rooms 211-212, 5:45 PM-7:00 PM

5:45 PM  Bacterial Blight Report for the Business Meeting Terry A. Wheeler, Texas A&M AgriLife Research, Lubbock, TX

Cotton Economics and Marketing Conference

COTTON ECONOMIC OUTLOOK SYMPOSIUM
JW Grand Salon 3, 10:30 AM-12:00 PM

10:30 AM  Cotton Marketer of the Year Award O. A. Cleveland, Mississippi State University, Mississippi State, MS

10:40 AM  Update on U.S. Ag Policy Bart L. Fischer, Texas A & M University, College Station, TX

11:00 AM  U.S. Cotton Market Outlook John R.C. Robinson, Texas A&M University, College Station, TX

11:30 AM  China in an Evolving Market Dale Cougot, Olam International, Richardson, TX

COTTON ECONOMICS AND MARKETING - THURSDAY EARLY AFTERNOON
JW Grand Salon 4, 1:30 PM-3:00 PM

1:30 PM  Economic Analysis of Modern Irrigation Scheduling Strategies on Cotton Production Under Different Tillage Systems in South Georgia Anukul Bhattacharjya¹, Yangxuan Liu², Amanda Smith³, Vasileios Liakos⁴ and George Vellidis⁴, (¹Graduate Research Associate, University of Georgia, Athens, GA, (²Extension Economists, Department of Agricultural & Applied Economics, Tifton, GA, (³Extension Economists, University of Georgia, Tifton, GA, (⁴University of Georgia, Tifton, GA

1:50 PM  Costs of Alternative Loading and Unloading Strategies in a Cooperative Cotton Warehouse Jessica A Richard, Phil Kenkel and Eric Devuyst, Oklahoma State University, Stillwater, OK
2:10 PM  Optimal Autonomous Robotic Harvest Systems for Cotton: Parameterizing a Whole-Farm Linear Programming Model
Terry W Griffin and Gregory Ibendahl, Kansas State University, Manhattan, KS

2:30 PM  Dynamic Modeling of a Conventional and Robotic Harvester System
Gregory Ibendahl and Terry W Griffin, Kansas State University, Manhattan, KS

COTTON ECONOMICS AND MARKETING - POSTERS

JW Grand Salon 4, 1:30 PM-6:00 PM

1. Cotton Enterprise Budget: Understanding Your Production Costs and Breakeven Prices
Mengyu Zhou 1, Yangxuan Liu 2, Amanda R Smith 1, Wesley M Porter 1, A. Stanley Culpepper 1 and Mark Freeman 1, (1) Graduate Research Associate, Department of Agricultural & Applied Economics, ATHENS, GA, (2) Extension Economists, Department of Agricultural & Applied Economics, Tifton, GA, (3) Assistant Professor, Department of Crop and Soil Sciences, Tifton, GA, (4) University of Georgia, Tifton, GA, (5) Extension Agronomist, Department of Crop and Soil Sciences, Statesboro, GA

2. The Cost of Irrigation Ownership and Operating Costs through Irrigation Budgets for South Georgia
Anukul Bhattarai, Graduate Research Associate, University of Georgia, Athens, GA, Amanda Smith, Extension Economists, University of Georgia, Tifton, GA, Yangxuan Liu, Extension Economists, Department of Agricultural & Applied Economics, Tifton, GA, Calvin Perry, Superintendent, Stripling Irrigation Research Park, University of Georgia, Camilla, GA and Cale Cloud, Extension Area Water Agent, Southwest District Extension, University of Georgia, Tifton, Georgia, Tifton, GA

3. Examining Alternative Farm Program Selection on Louisiana Cotton Farms Using a Risk Return Framework
Michael A. Deliberto and Brian Hilbun, LSU AgCenter, Baton Rouge, LA

4. Economic Comparison of Crop Row Offset and Orientation to SDI Laterals
Donna McCallister 1, Will Keeling 2, Jeff Pate 2, James P. Bordovsky 3 and J. T. Mustian 4, (1) Texas Tech University, Lubbock, TX, (2) Texas A&M AgriLife Extension, Lubbock, TX, (3) Texas A&M AgriLife Research Center, Lubbock, TX, (4) Texas A&M AgriLife Research, Plainview, TX

5. Government Payments to Cotton Under the Agricultural Act of 2014 and Other Supplemental Programs
Aaron Smith, Victoria Campbell and Becky Bowling, University of Tennessee, Knoxville, TN

6. The Impact of Agricultural Mechanization and Land Scale on Total Factor Productivity in Cotton Production in China
Zhongna Yang, Manjula Akhele, Ashley Lovell, Tarleton State University, Stephenville, TX

COTTON ECONOMICS AND MARKETING - THURSDAY LATE AFTERNOON

JW Grand Salon 4, 4:00 PM-5:00 PM

4:00 PM  Modeling Yield from Crop Progress, Condition, & the Weather
Jon Devine, Cotton Incorporated, Cary, NC

4:20 PM  Impacts of the China-U.S. Trade War on the U.S. Cotton Sector
Andrew Muhammad 1, Aaron Smith 1 and Stephen MacDonald 2, (1) University of Tennessee, Knoxville, TN, (2) USDA-OCE, Washington, DC

4:40 PM  Cotton and Polyester Price Interaction in Global Markets
Stephen A MacDonald, U.S. Department of Agriculture, Washington, DC
Cotton Engineering-Systems Conference

COTTON ENGINEERING-SYSTEMS - THURSDAY EARLY AFTERNOON

Room 401, 1:00 PM-3:00 PM

1:00 PM  Design and Development of an Automated, 4-Row Cotton Plot Picker
Kendall R. Kirk¹, L. Alex Samenko¹, Timothy F. Stilt², Benjamin B. Fogle¹ and Michael T. Plumblee¹, (1)Clemson University, Blackville, SC, (2)Clemson University, Blackville, SC

1:15 PM  Field Testing of the Autonomous Cotton Harvesting Robot in an Undefoliated Cotton Field
Kadeghe Goodluck Fue¹, Wesley M Porter², Edward M. Barnes³ and Glen C. Rains¹, (1)University of Georgia, Tifton, GA, (2)Assistant Professor, Department of Crop and Soil Sciences, Tifton, GA, (3)Cotton Incorporated, Cary, NC

1:30 PM  Mapping of in-Field Cotton Fiber Quality Utilizing John Deere Harvest Identification System
Luke McLeod Fuhrer, University of Georgia, Tifton, GA, Wesley M Porter, Assistant Professor, Department of Crop and Soil Sciences, Tifton, GA and Edward M. Barnes, Cotton Incorporated, Cary, NC

1:45 PM  Modernizing Cotton Replanting Recommendations Using UAV Imagery
Enrique E Pena Martinez¹, Guy D. Collins² and Jason K Ward³, (1)North Carolina State University, Raleigh, NC, (2)North Carolina State University, Rocky Mount, NC

2:00 PM  Estimation of on Plant & on Ground Losses Using RGB Aerial Imagery
Brennan E. Teddy, Kendall R. Kirk and Michael T. Plumblee, Clemson University, Blackville, SC

2:15 PM  Feral Cotton Habitat Prediction Model and Detection with UAV Remote Sensing
Tianyi Wang, Xiaohan Mei, J. Alex Thomasson, Xiongze Han and Pappu Kumar Yadav, Texas A&M University, College Station, TX

2:30 PM  UAV-Based Multispectral Detection of Plastic Debris in Cotton Fields
Cody D Blake¹, Ruixiu Sui¹ and Chenghai Yang², (1)USDA-ARS, Stoneville, MS, (2)USDA-ARS, College Station, TX

2:45 PM  Phenotyping Cotton Water Use with Multispectral Drone Imagery and Geospatial FAO-56 Methods
Kelly R. Thorp¹, Alison L. Thompson¹, Sara J. Harders¹, Andrew N. French¹ and Rick W. Ward², (1)USDA-ARS, Maricopa, AZ, (2)University of Arizona, Maricopa, AZ

COTTON ENGINEERING-SYSTEMS - THURSDAY LATE AFTERNOON

Room 401, 4:00 PM-5:00 PM

4:00 PM  Comparing Precision Metering and Seed Delivery Systems for Increasing Cotton Planting Speed
Wesley M Porter¹, Simerjeet S. Virk², Darian Landolt³, Ronnie Barentine⁴ and Aaron Prewitt⁴, (1)Assistant Professor, Department of Crop and Soil Sciences, Tifton, GA, (2)University of Georgia, Tifton, GA, (3)CNH Industrial, Burr Ridge, IL, (4)University of Georgia, Vienna, GA
4:15 PM  Evaluation of Planter Depth and Downforce for Planting Cotton in Diverse Field Conditions
Simerjeet S. Virk, Wesley M Porter, John L. Snider, Jared R. Whitaker and Changying Li, (1)University of Georgia, Tifton, GA, (2)Assistant Professor, Department of Crop and Soil Sciences, Tifton, GA, (3)College of Engineering, The University of Georgia, Athens, GA

4:30 PM  On-Farm Evaluation of Planter Downforce in Varying Soil Textures for Improving Cotton Emergence
Simerjeet S. Virk, Wesley M Porter, Pam Sapp, Ronnie Barentine, Stephanie Hollifield and Jay Porter, (1)University of Georgia, Tifton, GA, (2)Assistant Professor, Department of Crop and Soil Sciences, Tifton, GA, (3)University of Georgia, Vienna, GA, (4)University of Georgia, Quitman, GA, (5)University of Georgia, Hawkinsville, GA

4:45 PM  Use of Statistical Methods to Model Machine Parameters Affecting 3D Printed Cotton/PLA Fabrics
Josphat Igadwa Mwasiagi and Nonsikelelo Sheron Mpfou, Moi University, Eldoret, Kenya

Cotton Ginning Conference

COTTON GINNING - THURSDAY EARLY AFTERNOON
JW Grand Salon 3, 1:30 PM-3:15 PM

1:30 PM  2019 Crop Quality USDA-AMS
Robbie L Seals, USDA, AMS Cotton and Tobacco Program, Memphis, TN

1:45 PM  The Effect of Conventional and Experimental Lint Cleaning Processes on Fiber Length Uniformity Index
Carlos B. Armijo, Christopher D. Delhom, Derek P. Whitelock, Paul A. Funk, John D. Wanjura, Greg A. Holt, Ruixiu Sui, Vikki B. Martin, Neha Kothari, Cody D. Blake and Mathew G. Pelletier, (1)USDA-ARS Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM, (2)USDA-ARS, New Orleans, LA, (3)USDA-ARS Cotton Production and Processing Research Unit, Lubbock, TX, (4)USDA ARS CPPRU, Lubbock, TX, (5)USDA-ARS, Stoneville, MS, (6)Cotton Incorporated, Cary, NC, (7)USDA-ARS Cotton Ginning Research Lab, Stoneville, MS

2:00 PM  The Influence of Drum Arrangement of Spindle Harvesters on Fiber Quality and Yield
Marinus H.J van der Sluijs, Textile Technical Services, Geelong, VIC, Australia

2:15 PM  Quality and Length Uniformity Panel
Vikki B. Martin, Cotton Incorporated, Cary, NC

2:25 PM  Quality and Length Uniformity Panel - Textile Mill Perspective
Chuck Ward, Giland, Salisbury, NC

2:35 PM  Quality and Length Uniformity Panel - Coop Merchant Member
Frederick Barrier, Staplcotn, Greenwood, MS

2:45 PM  Quality and Length Uniformity Panel - Merchant Member
Jeffery A. Johnson, Louis Dreyfus Company, Cordova, TN

2:55 PM  Quality and Length Uniformity Panel USDA-ARS
Christopher D. Delhom, USDA-ARS, New Orleans, LA

COTTON GINNING - THURSDAY LATE AFTERNOON
JW Grand Salon 3, 3:45 PM-6:00 PM

3:45 PM  An Update on Efforts to Understand Cottonseed Hull Fracture Resistance
Michael K. Dowd, USDA-ARS Southern Regional Research Center, New Orleans, LA and Christopher D. Delhom, USDA-ARS, New Orleans, LA
Thursday, January 9, 2020

4:00 PM  Advances in Managing Cotton Modules Using RFID Technology - System Development Update
John D. Wanjura, USDA-ARS Cotton Production and Processing Research Unit, Lubbock, TX, Gregory A. Holt, USDA ARS, Lubbock, TX, Mathew G. Pelletier, USDA ARS CPPRU, Lubbock, TX and Edward M. Barnes, Cotton Incorporated, Cary, NC

4:15 PM  Patenting Versus Open Source
Greg A. Holt, USDA ARS CPPRU, Lubbock, TX

4:25 PM  Patenting Versus Open Source - University Perspective
Janie Hurley, Texas A&M University, College Station, TX

4:35 PM  Patenting Versus Open Source - Equipment Manufacturer Perspective
Joe W. Thomas, Lummus Corporation, Savannah, GA

4:45 PM  Patenting Versus Open Source - Industry Service Provider Perspective
Steve Moffett, Lubbock Electric Company, Lubbock, TX

4:55 PM  Patenting Versus Open Source - Ginner Perspective
David Blakemore, Blakemore Cotton & Grain, Campbell, MO

5:05 PM  Patenting Versus Open Source - Cotton Inc. Perspective
Edward M. Barnes, Cotton Incorporated, Cary, NC

Cotton Improvement Conference

COTTON IMPROVEMENT - DISEASE
Brazos, 1:15 PM-3:00 PM

1:15 PM  Phenotypic and Genotypic Evaluation of Wild Upland Cotton Accessions Previously Identified in the Literature As Resistant to Root-Knot or Reniform Nematode
Amanda G Gaudin, Martin J Wubben, Dewayne D. Deng, Jack C. McCarty and Johnie N. Jenkins, USDA-ARS, Mississippi State, MS

1:30 PM  Field Survey, Detection and Characterization of Fusarium Wilt Race 4 in Cotton in New Mexico
Jinfa Zhang1, Yi Zhu1, Abdelraheem Abdelraheem1, Philip Lujan1, John Idowu1, Robert L. Nichols2 and Tom Wedegaertner2, (1)New Mexico State University, Las Cruces, NM, (2)Cotton Incorporated, Cary, NC

1:45 PM  Improving Cotton Resistance to FOV- Race 4
Caitlin Lakey1, Terry A. Wheeler1, Libo Shan2, Jane K Dever2 and Steve Hague1, (1)Texas A&M University, College Station, TX, (2)Texas A&M AgriLife Research, Lubbock, TX

2:00 PM  Genetic Analysis and Quantitative Trait Locus Mapping of Fusarium Wilt Race 4 Resistance in a Recombinant Inbred Line Population of Pima Cotton
Abdelraheem Abdelraheem1, Tom Wedegaertner2 and Jinfa Zhang1, (1) New Mexico State University, Las Cruces, NM, (2)Cotton Incorporated, Cary, NC

Edward Beasley, UGA, Tifton, GA, Nelson Dias Suassuna, Brazilian Agricultural Research Corporation - EMBRAPA, Santo Antonio de Goias - GO, Brazil and Peng Chee, University of Georgia, Tifton, GA
2:30 PM  Effects of Verticillium Wilt on Photosynthesis, Yield and Fiber Quality of Greenhouse-Grown Upland Cotton Lines
Addissu G Ayele, Terry A Wheeler and Jane K Dever, (1)Texas A&M AgriLife Research, Lubbock, TX, (2)Texas A&M AgriLife Research and Extension Center, Lubbock, TX

2:45 PM  DNA Markers Associated with Blue Disease and Bacterial Blight Resistance Genes and Their Applications in Cotton Breeding
David D. Fang, Cotton Fiber Bioscience Research Unit, USDA-ARS-SRRC, New Orleans, LA

COTTON IMPROVEMENT - ABIOTIC STRESS
Brazos, 3:30 PM-4:30 PM

3:30 PM  Measuring Radiation Use Efficiency of Cotton Grown in the Arid Southwest
Alison L Thompson and Matthew T Herritt, USDA-ARS-ALARC, Maricopa, AZ

3:45 PM  Cotton DNA Methylation and Its Analysis Under the Salt- and Draught-Stress
Wuwei Ye, Institute of Cotton Research, CAAS, Anyang, China

4:00 PM  Exploring Novel Genetic Donors of Salt Tolerance across the Tetraploid Cultivated Cotton Germplasm (Gossypium hirsutum) By Transcriptome Profiling and Genetic Network Modeling
Junghyun Shim, Kevin Cushman, Megan Sweeney and Benildo G de los Reyes, (1)Texas Tech University, LUBBOCK, TX, (2)Texas Tech University, Lubbock, TX, (3)Agroscience BASF, North Carolina, NC

4:15 PM  Waterlogging Tolerance in Six Cotton Genotypes at the Seedling Stage
Abdelraheem and Jinfa Zhang, New Mexico State University, Las Cruces, NM

Cotton Insect Research and Control Conference

COTTON INSECT RESEARCH & CONTROL CONF. - THURSDAY EARLY AFTERNOON - MS STUDENT PAPER COMPETITION I
JW Grand Salon 6, 1:15 PM-3:15 PM

1:15 PM  Management of Brown Stink Bugs, Euschistus servus, in Seedling Field Corn
Tim Bryant, Virginia Tech, Suffolk, VA, Sally Taylor, Virginia Tech University, Suffolk, VA and Roger Schurch, Virginia Tech, Blacksburg, VA

1:30 PM  Evaluation of Bt Resistance in Helicoverpa zea Populations Using Various Bt Cotton Plant Tissues
Dawson Kerns, William J. Moar, Juan Luis Jurat-Fuentes, Rafael Ferreira Dos Santos and Scott D. Stewart, (1)The University of Tennessee, Jackson, TN, (2)Bayer Crop Science, Chesterfield, MO, (3)University of Tennessee, Knoxville, TN

1:45 PM  Evaluation of Bollworm Management in Bt Cotton
Michael Cade Francis, Jeff Gore, Don Cook, Angus Cachat and Whitney Crow, (1)Mississippi State University, Mississippi State, MS, (2)Mississippi State University, Stoneville, MS

2:00 PM  Potential Insect Deterrence in a Tri-Species Progeny
Raven S. Allison, David Krens, Charles P-C. Suh and Steve Hague, (1) Texas A&M University, College Station, TX, (2)USDA-ARS ICCDRU, College Station, TX
2:15 PM  Evaluation of Biotechnical Efficacy and Economic Impact of Multi-Gene Cotton Production Systems for Control of Corn Earworm Helicoverpa zea in Cotton Production in Arkansas
Caleb Rice1, Gus Lorenz2, Nick R. Bateman3, Benjamin C Thrash1, Nichole Taillon4, Garrett Felts5, Andrew Plummer6, Wes Plummer6, Kevin McPherson1 and Chase A Floyd1, (1)University of Arkansas, Lonoke, AR, (2)The University of Arkansas, Lonoke, AR, (3)University of Arkansas - RREC, Stuttgart, AR, (4)University of Arkansas CES, Lonoke, AR, (5)University of Arkansas- RREC, Stuttgart, AR, (6)UA-CES, Lonoke, AR

2:30 PM  Evaluation of the Rainfastness of Selected Insecticides in Cotton
Sara Barrett1, Jeff Gore2, Angus Catchot1, Don Cook2 and Darrin M. Dodds3, (1)Mississippi State University, Department of Biochemistry, Molecular Biology, Entomology, and Plant Pathology, Starkville, MS, (2)Mississippi State University, Stoneville, MS, (3)Mississippi State University, Mississippi State, MS

2:45 PM  Effects of Fungal Endophyte Treatment and Herbivory on Extra Floral Nectar Carbohydrate Composition in Cotton
Caroline M Wilson1, Cody Gale1, Angel Helms1, Charles P.-C. Suh2 and Gregory A. Sword1, (1)Texas A&M University, College Station, TX, (2)USDA-ARS ICCDRU, College Station, TX

3:00 PM  Investigating Floral Tissue As a Reservoir for Insecticide and Fungicide Residues in West Tennessee Cotton and Soybean
Andrew L Lawson, University of Tennessee, Knoxville, TN

COTTON INSECT RESEARCH & CONTROL CONF. - THURSDAY EARLY AFTERNOON - PHD STUDENT PAPER COMPETITION

1:15 PM  Macronutrient Availability Alters Susceptibility of Helicoverpa Zea (Lepidoptera: Noctuidae) to Helicoverpa Armigera Nucleopolyhedrovirus
Joseph Black1, Spencer Behmer1, Micky D. Eubanks2, Ashley Tessnow1 and Gregory A. Sword1, (1)Texas A&M University, College Station, TX, (2)Texas A&M University, Dept. of Entomology, College Station, TX

1:30 PM  Impact of Blended and Structured Non-Bt Refuge on Helicoverpa zea (Lepidoptera: Noctuidae) Pupal Depth, Weight and Survival in Corn.
Daniela T Pezzini, North Carolina State University, Raleigh, NC, David Buntin, University of Georgia, Griffin, GA, Silvana Paula-Moraes, University of Florida, Jay, FL, Francis Reay-Jones, Clemson University, Florence, SC and Dominic Reisig, North Carolina State University, Plymouth, NC

1:45 PM  Insecticide Efficacy and Resistance Mechanisms of Tarnished Plant Bug Populations in Southeastern Cotton
Seth Dorman1, Aaron Gross2, Sally Taylor1, Dominick Reisig, Ron Smith1, Beverly Catchot3, Phillip Roberts4, Francis Reay-Jones5 and Jeremy Greene6, (1) Virginia Tech University, Suffolk, VA, (2)Virginia Tech University, Blacksburg, VA, (3)North Carolina State University, Plymouth, NC, (4)Auburn University, Auburn, AL, (5)Mississippi State University, Mississippi State, MS, (6)University of Georgia, Tifton, GA, (7)Clemson University, Florence, SC, (8)Clemson University, Blackville, SC

2:00 PM  Evaluation of Rice Billbug Sphenophorus pertinax Control in Furrow Irrigated Rice Production Systems in Arkansas
**Thursday, January 9, 2020**

2:15 PM  **Warming Impacts Pest Response to the Cues of Biological Control Agents**  
Cori Speights, Angus Catchot and Brandon Barton, Mississippi State University, Mississippi State, MS

2:30 PM  **Population Genomic Insights into Fall Armyworm IPM**  
Ashley Tessnow, Tyler Jay Raszick and Gregory A. Sword, Texas A&M University, College Station, TX

2:45 PM  **A New Strategy to Block Aphid Transmission of Poleroviruses**  
Jennifer Wilson, Cornell University, Ithaca, NY and Michelle L Heck, USDA ARS, Ithaca, NY

**COTTON INSECT RESEARCH & CONTROL CONF. - THURSDAY LATE AFTERNOON - MS STUDENT PAPER COMPETITION II**

JW Grand Salon 6, 3:30 PM-5:30 PM

3:30 PM  **Management of Tarnished Plant Bug (Lygus lineolaris) Populations in Mississippi Cotton Production Systems**  
Ryan Mann¹, Angus Catchot¹, Whitney Crow¹, Jeff Gore² and Don Cook², (1)Mississippi State University, Mississippi State, MS, (2)Mississippi State University, Stoneville, MS

3:45 PM  **Susceptibility of Fall Armyworm (Spodoptera frugiperda) Genotypes Carrying Vip3A Resistant Alleles, to Bt Plants and Purified Bt Proteins.**  
Tyler Gilreath, David Kerns and Fei Yang, Texas A&M University, College Station, TX

4:00 PM  **The Impact of Brown Stinkbug, Euschistus servus on Vegetative Stage Field Corn Yield**  
William Hardman¹, Don Cook¹, Jeff Gore¹, Angus Catchot² and Brien Henry², (1)Mississippi State University, Stoneville, MS, (2)Mississippi State University, Mississippi State, MS

4:15 PM  **Bollworm (Helicoverpa zea) Damage and Behavior in Bt Cotton**  
Russ Godbold, Mississippi State University, Department of Biochemistry, Molecular Biology, Entomology, and Plant Pathology, Starkville, MS

4:30 PM  **Using High Throughput Sequencing to Link Cotton Fleahopper Gut Content to Host Plants**  
Kristin Lea Hamons¹, Lindsey C Perkin², Charles P-C. Suh² and Gregory A. Sword¹, (1)Texas A&M University, College Station, TX, (2)USDA-ARS ICCDRU, College Station, TX

4:45 PM  **Redbanded Stink Bug Management in Mississippi Soybean Production Systems**  
Jacob Smith, Angus Catchot, Whitney Crow, Tyler B Towles, Brittany E. Lipsey, Ryan Mann and Dung Bao, Mississippi State University, Mississippi State, MS

5:00 PM  **Mycotoxins Evaluation in Different Bt Corn Traits**  
Elias Zuchelli¹, Rachel Gayer¹, Heather Kelly¹ and Scott D. Stewart¹, (1)University of Tennessee, Jackson, TN, (2)The University of Tennessee, Jackson, TN

5:15 PM  **Evaluating Currently Labeled Insecticides for Control of Tarnished Plant Bug in Arkansas Cotton**  
Adam Whitfield¹, Gus Lorenz², Benjamin C Thrash³, Nick R. Bateman⁴, Nichole Taillon⁵, Andrew Plummer⁶, Kevin McPherson⁷, Wes Plummer⁵ and Garrett Felts⁶, (1)UA-CES, Lonoke, AR, (2)The University of Arkansas, Lonoke, AR, (3)University of Arkansas, Lonoke, AR, (4)University of Arkansas - RREC, Stuttgart, AR, (5)University of Arkansas CES, Lonoke, AR, (6)University of Arkansas- RREC, Stuttgart, AR
3:30 PM  Identification of Cotton Fields Using Sentinel-2 Satellite Imagery for Boll Weevil Eradication
Chenghai Yang, USDA-ARS, College Station, TX and Charles P.-C. Suh, USDA-ARS ICCDRU, College Station, TX

3:45 PM  Development of SNP-Based Diagnostic Tools for Boll Weevil Variant Identification
Tyler Jay Raszick1, Raul Ruiz-Arce2, Charles P.-C. Suh1, Xanthia A. Shirley4, Theodore Boratynski1 and Gregory A. Sword1, (1)Texas A&M University, College Station, TX, (2)USDA-APHIS, Edinburg, TX, (3)USDA-ARS ICCDRU, College Station, TX, (4)USDA-APHIS, College Station, TX, (5)United States Department of Agriculture, Calexico, CA

4:00 PM  Genome-Wide Markers Can Identify the Origin and Demography of Boll Weevil Re-infestations: A Case Study from Kingsville, TX
Lindsey C Perkin1, Charles P.-C. Suh1, Raul Ruiz-Arce2, Tyler Jay Raszick1 and Gregory A. Sword1, (1)USDA-ARS ICCDRU, College Station, TX, (2)USDA-APHIS, Edinburg, TX, (3)Texas A&M University, College Station, TX

4:15 PM  Histopathological Effects of A Protein Complex Purified From Xenorhabdus nematophila on The Midgut of Helicoverpa armigera Larvae
Ziyan Nangong1, Xiao-Xiao Guo2, Shuqin Liu2, Qing Yang3, Qin-Ying Wang2 and Megha N. Parajulee1, (1)Texas A&M AgriLife Research Center, Lubbock, TX, (2)Hebei Agricultural University, Baoding, China, (3)Yangzhou University, Yangzhou, China

4:30 PM  Global Mechanisms of Bt Resistance in a Field Strain of the Cotton Bollworm, Helicopera Zea: The Expected and Unexpected
Roger D. Lawrie1, Jean Marcel Deguenon1, Loganathan Ponnusamy4, Dominic Reisig2, R. Michael Roe1, Alejandro Del Pozo-Valdivia2, Robert D. Mitchell III1 and Ryan W Kurtz2, (1)North Carolina State University, Raleigh, NC, (2)North Carolina State University, Plymouth, NC, (3)University of California Cooperative Extension & UC Statewide IPM Program, Salinas, CA, (4)United States Department of Agriculture, Kerrville, TX, (5)Cotton Incorporated, Cary, NC

4:45 PM  Deadzone: A New Tool for Resistance Management in Cotton Andrew Pedersen1, Ally Lauria1, Randy Dodds1 and David Stewart2, (1)Brandt Inc., Fresno, CA, (2)Imerys, Roswell, GA

5:00 PM  How to Achieve Better Chemical Control of Crop Pests and Minimize Pesticide Risk to Pollinators
Yu-Cheng Zhu, USDA-ARS, Stoneville, MS

5:15 PM  Managing Early-Season Insect Pests of Dryland Cotton Abdul Hakeem1, Megha N. Parajulee1, Michael Toews1, Suhas Vyavhare1, Katie L. Lewis1, Donna McCallister1 and Dol P. Dhakal1, (1)Texas A&M AgriLife Research and Extension Center, Lubbock, TX, (2)University of Georgia, Tifton, GA, (3)Texas A&M AgriLife Extension Service, Lubbock, TX, (4)Texas A&M AgriLife Research, Lubbock, TX, (5)Texas A&M AgriLife Research Center, Lubbock, TX

COTTON INSECT RESEARCH & CONTROL BUSINESS MEETING AND MIXER
JW Grand Salon 6, 5:30 PM-7:00 PM
Cotton Quality Measurements Conference

COTTON QUALITY MEASUREMENTS - THURSDAY LATE AFTERNOON

Room 406, 3:30 PM-5:00 PM

3:30 PM  Stability of HVI Calibration Standards for Bundle Elongation Measurements
Eric F. Hequet and Brendan Kelly, Texas Tech University, Lubbock, TX

3:45 PM  Preliminary Results of Inter-Laboratory HVI Elongation Calibration Trials
Christopher D. Delhom¹, Eric F. Hequet², Brendan Kelly² and Vikki B. Martin³, (1)USDA-ARS, New Orleans, LA, (2)Texas Tech University, Lubbock, TX, (3)Cotton Incorporated, Cary, NC

4:00 PM  Capturing the Potential for Fiber Breakage during Industrial Processing
Brendan Kelly¹, Eric F. Hequet¹ and Joao Paulo Saraiva Morais², (1)Texas Tech University, Lubbock, TX, (2)Embrapa Algodao, Campina Grande, Brazil

4:15 PM  Effects of Non-Lint Content and Processing on Heritability Estimates of Cotton Fiber Length Parameters
Joao Paulo Saraiva Morais¹, Zach Hinds², Brendan Kelly² and Eric F. Hequet², (1)Embrapa Algodao, Campina Grande, Brazil, (2)Texas Tech University, Lubbock, TX

4:30 PM  Cotton Uniformity Classification By Comprehensive Length Attributes
Bugao Xu, University of North Texas, Denton, TX

4:45 PM  Composition and Biomolecule Distribution in Cotton Seed Coats Investigated By Fourier Transform Infrared Microspectroscopy
Tanjim Md Hossain, Sumedha Liyanage and Noureddine Abidi, Fiber and Biopolymer Research Institute, Texas Tech University, Lubbock, TX

Cotton Utilization Conference

JOINT SESSION: COTTON UTILIZATION & QUALITY MEASUREMENT

Room 406, 10:30 AM-12:00 PM

10:30 AM  Is Cotton Metal Content Affected By Environment and Does the Metal Content Affect Dyeability?
Chanel Angelique Fortier, USDA, New Orleans, LA, Christopher D. Delhom, USDA-ARS, New Orleans, LA and Michael K. Dowd, USDA-ARS Southern Regional Research Center, New Orleans, LA

10:45 AM  Examination of Cotton Maturity Distribution Using FTIR Spectroscopy
Michael Santiago Cintron¹, Terri Von Hoven², Doug Hinchliffe² and Rebecca Hron², (1)USDA, New Orleans, LA, (2)USDA-ARS-SRRC, New Orleans, LA

11:00 AM  Use of ATR FT-IR Spectroscopy in Classifying Different Degree of Fiber Secondary Cell Wall Developments between Immature Fiber (im) Mutant and Texas Marker-1 (TM-1) Cotton Fibers
Yongliang Liu, USDA-ARS, New Orleans, LA and Hee Jin Kim, USDA-ARS, Southern Regional Research Center, New Orleans, LA

11:15 AM  Variability of Fiber Length Uniformity
Mourad Krifa, Kent State University, Kent, OH

Thursday, January 9, 2020

32
11:30 AM  Silicone Treatments of Egyptian Cotton Single Jersey Fabrics Knitted with Different Yarn Types and Knitting Designs
Alaa A Badr and Ashraf El-Nahrawy, Alexandria University, Alexandria, Egypt

Cotton Weed Science Research Conference

COTTON WEED SCIENCE RESEARCH - THURSDAY EARLY MORNING
Rooms 408-409, 8:10 AM-10:00 AM

8:10 AM  Welcoming Remarks

8:15 AM  Do Dicamba Volatility Reduction Agents Influence Weed Control?
Mason Castner, Jason K. Norsworthy, Rodger B. Farr and Lawson Priess, University of Arkansas, Fayetteville, AR

8:30 AM  Economics and Efficacy of Weed Management in Bollgard II Xtendflex Cotton
Brice M. DeLong, Texas A&M AgriLife, Lubbock, TX, J. Wayne Keeling, Texas A&M AgriLife Research and Extension Center, Lubbock, TX, Peter A. Dotray, Texas Tech University, Texas A&M AgriLife Research and Extension Service, Lubbock, TX and John Everitt, Bayer Cropscience, Shallowater, TX

8:45 AM  Evaluation of Integrated Weed Management Strategies for Weed Population Reduction
Rodger B. Farr, Jason K Norsworthy, Lawson Priess and Mason Castner, University of Arkansas, Fayetteville, AR

9:00 AM  Evaluation of Tavium in a Cotton Herbicide Program
James W Beesinger, Jason K. Norsworthy, Rodger B. Farr, Lawson Priess and Mason Castner, University of Arkansas, Fayetteville, AR

9:15 AM  Integrating Isoxaflutole into Cotton Weed Management
Joshua Daniel Joyner, NC State University, Mount Olive, NC, Charlie Cahoon, North Carolina State University, Raleigh, NC, Andrew Cole Blythe, NC State University, Denver, NC, Zack Taylor, NC State University, Raleigh, NC and Guy D. Collins, NC State University, Rocky Mount, NC

9:30 AM  Optimizing Postemergence Options Using Dicamba, Glyphosate, and Glufosinate in Xtendflex Systems
Jake A Patterson, Jason K. Norsworthy, Lawson Priess and Rodger B. Farr, University of Arkansas, Fayetteville, AR

9:45 AM  Evaluation of Palmer Amaranth Control Using Multiple Residual Herbicides Tank-Mixed with and without S-Metolachlor
Owen Wesley France, University of Arkansas, Fayetteville, AR

COTTON WEED SCIENCE RESEARCH - THURSDAY LATE MORNING
Rooms 408-409, 10:30 AM-12:00 PM

10:30 AM  Evaluating Time of Day Effects on Broadleaf Weed Control in Xtendflex Cotton
Jacob R Kalina¹, Tim L. Grey¹, Chris B Corkern², Nicholas T Basinger³ and Donn G Shilling³, (1)University of Georgia, Tifton, GA, (2)Bayer Crop Sciences, Tifton, GA, (3)University of Georgia, Athens, GA

10:45 AM  Crop Tolerance and Weed Management Systems Utilizing Isoxaflutole in HPPD Tolerant Cotton
Delaney C. Foster¹, Peter A. Dotray², Gregory Baldwin³, Corey N. Thompson⁴ and Frederick T. Moore⁴, (1)Texas Tech University, Lubbock, TX, (2)Texas Tech University, Texas A&M AgriLife Research and Extension Service, Lubbock, TX, (3)BASF, Durham, NC, (4)BASF, Lubbock, TX
11:00 AM  Tarnished Plant Bug Infestations Influenced By Palmer Amaranth Impact Cotton Growth and Yield
Taylor M Randell, Lavesta C. Hand, A. Stanley Culpepper and Phillip Roberts, University of Georgia, Tifton, GA

11:15 AM  Effects of Plant-Back Interval and Tillage on Cotton Tolerance to Warrant
Andrew Cole Blythe, NC State University, Denver, NC, Charlie Cahoon, North Carolina State University, Raleigh, NC, Joshua Daniel Joyner, NC State University, Mount Olive, NC, Zack Taylor, NC State University, Raleigh, NC and Guy D. Collins, North Carolina State University, Rocky Mount, NC

11:30 AM  Evaluation of Cover Crops and Herbicide Programs for Weed Control in Cotton
Pratap Devkota, UF/IFAS WFREC - Jay Research Center, Jay, FL and Michael J. Mulvaney, University of Florida, Jay, FL

11:45 AM  A Multiple Year Study Evaluating Cotton Tolerance to Metribuzin
Jeremy M. Kichler, University of Georgia Cooperative Extension, Moultrie, GA and A. Stanley Culpepper, University of Georgia, Tifton, GA

COTTON WEED SCIENCE RESEARCH - THURSDAY EARLY AFTERNOON
Rooms 408-409, 1:30 PM-3:00 PM

1:30 PM  Effect of Nozzle Selection on Weed Control and Yield in Mississippi Cotton
Justin S Calhoun, Connor Ferguson, Kayla Broster, Luke Merritt, Zachary Treadway and Michael Wesley, Mississippi State University, Mississippi State, MS

1:45 PM  Potential Discovery of 2,4-D Tolerance Among Interspecific Chromosome Substitution Lines of Upland Cotton
Loida M Perez1, Sukumar Saha2, Johnie N. Jenkins2, David M. Stelly3, Mark Shankle4 and Te-Ming Paul Tseng5, (1)Mississippi State University, Mississippi, MS, (2)USDA-ARS, Mississippi State, MS, (3)Texas A&M University System, College Station, TX, (4)Mississippi State University, Pontotoc, MS

2:00 PM  Cover Crops, Residual Herbicides, and Application Method Reduce Selection Pressure Potentially Delaying Dicamba Resistance in Palmer Amaranth
Lavesta C. Hand1, Taylor M Randell1, Robert L. Nichols2, Larry Steckel3 and A. Stanley Culpepper1, (1)University of Georgia, Tifton, GA, (2)Cotton Incorporated, Cary, NC, (3)University of Tennessee, Jackson, TN

2:15 PM  Effect of Herbicide Program, Spray Droplet Size, and Drift Reduction Agent Use on Glufosinate Efficacy
John J. Williams, Darrin M. Dodds, Jacob P. McNeal, Bradley Norris, Lucas Xavier Franca and Steven D. Hall, Mississippi State University, Mississippi State, MS

2:30 PM  Off Target Movement of Enlist One + Liberty
Lawson Priess, Jason K. Norsworthy and Mason Castner, University of Arkansas, Fayetteville, AR

2:45 PM  Dicamba-Tolerant Cotton Response to Low Rates of 2,4-D
Kyle Russell1, Peter A. Dotray2, Irish Lorraine B Pabuayon3 and Glen Ritchie3, (1)Texas A&M AgriLife Research, Lubbock, TX, (2)Texas Tech University, Texas A&M AgriLife Research and Extension Service, Lubbock, TX, (3)Texas Tech University, Lubbock, TX
**Cotton Agronomy, Physiology & Soil Conference**

**COTTON AGRONOMY, PHYSIOLOGY & SOILS CONFERENCE - FRIDAY EARLY MORNING - SESSION A**

**JW Grand Salon 5, 9:00 AM-10:00 AM**

9:00 AM  Initial Investigation of Cereal Rye and Hairy Vetch Cover Crops in Cotton Production Compared to Corn/Cotton Rotation
Dr. M. Wayne Ebelhar and Richard E. Turner, Mississippi State University, Stoneville, MS

9:15 AM  Soil Health Benefits in Long-Term Conservation Cotton Systems
Paul DeLaune, Partson Mubvumba, Charles Coufal and Anthony Pennartz, Texas A&M AgriLife Research, Vernon, TX

9:30 AM  Using System Approach to Evaluate the Cotton Production Practices to Improve the Efficiency
Yangxuan Liu, Extension Economists, Department of Agricultural & Applied Economics, Tifton, GA and Mark Freeman, Extension Agronomist, Department of Crop and Soil Sciences, Statesboro, GA

**COTTON AGRONOMY, PHYSIOLOGY & SOILS CONFERENCE - AWARDS**

**JW Grand Salon 5, 10:30 AM-12:00 PM**

**Cotton Disease Council**

**COTTON DISEASE COUNCIL - FRIDAY EARLY MORNING**

**Rooms 211-212, 8:00 AM-10:00 AM**

8:00 AM  Inner Boll Rotting Bacteria Associated with Feeding By the Verde Plant Bug (Creontiades signatus)
Enrique Gino Medrano1, James P. Glover2 and Michael J. Brewer2, (1)US-DA-ARS, College Station, TX, (2)Texas A&M AgriLife Research, Department of Entomology, Corpus Christi, TX

8:15 AM  Effects of Verticillium Wilt and Bacterial Blight on Commercial Varieties
Terry A. Wheeler, Texas A&M AgriLife Research, Lubbock, TX and Jane K Dever, Texas A&M AgriLife Research and Extension Center, Lubbock, TX

8:30 AM  Developing Recommendations for Management of Meloidogyne Incognita in Georgia
Robert C. Kemerait, University of Georgia, Tifton, GA, Jeremy M. Kichler, University of Georgia Cooperative Extension, Moultrie, GA, Calvin Perry, Superintendent, Stripling Irrigation Research Park, University of Georgia, Camilla, GA and Bobby J. Washington, University of Georgia, Camilla, GA

8:45 AM  Relative Reproduction of Southern Root-Knot Nematode on Root-Knot Nematode Susceptible and Resistant Cotton Varieties
Michael T. Plumblee and John Mueller, Clemson University, Blackville, SC

9:00 AM  Response of Nematode-Resistant Cotton Germplasm to Infection By Two Isolates of the Guava Root-Knot Nematode, *Meloidogyne enterolobii*
Martin J Wubben1, Amanda G Gaudin1, William B Rutter2, Eric L Davis3 and Johnie N. Jenkins1, (1)USDA-ARS, Mississippi State, MS, (2)USDA-ARS, Charleston, SC, (3)North Carolina State University, Raleigh, NC
8:00 AM  Current and Potential Robotic Applications to Improve Cotton Production  
Edward M. Barnes1, Gaylon Morgan1, Kater Hake1, Jon Devine1, Ryan W Kurtz2, Terry W Griffins3, Gregory Ibendahl2, Ajaay Sharda2, Kadeghe Good-luck Fue3, Glen C. Rains3, Joe Mari J. Maja3, Marlowe Edgar C. Bruce3, J. Alex Thomasson3, James A. Griffin4, Emi Kimura5, Hussein Gharakhani6, Brian G. Ayre6, Sierra Young6 and Mathew G. Pelletier10, (1)Cotton Incorporated, Cary, NC, (2)Kansas State University, Manhattan, KS, (3)University of Georgia, Tifton, GA, (4)Clemson University, Blackville, SC, (5)Texas A&M University, College Station, TX, (6)Texas A&M Cotton Extension, College Station, TX, (7)Texas A&M AgriLife Research and Extension Service, Vernon, TX, (8)University of North Texas, Denton, TX, (9)North Carolina State University, Raleigh, NC, (10)USDA-ARS Cotton Production and Processing Research Unit, Lubbock, TX

8:15 AM  Robotic Cotton Harvesting and Field-Ginning, Approaches and Challenges  
Hussein Gharakhani and J. Alex Thomasson, Texas A&M University, College Station, TX

8:30 AM  Using on-Farm Data to Enhance Variety Trial Recommendations  
Robert G. Hardin1, Edward M. Barnes2, John D. Wanjura3, Jason K Ward4, Wesley M Porter5, Kendall R. Kirk1 and Michael T. Plumblee6, (1)Texas A&M University, College Station, TX, (2)Cotton Incorporated, Cary, NC, (3)USDA-ARS Cotton Production and Processing Research Unit, Lubbock, TX, (4)North Carolina State University, Raleigh, NC, (5)Assistant Professor, Department of Crop and Soil Sciences, Tifton, GA, (6)Clemson University, Blackville, SC

8:45 AM  Evaluation of John Deere Module Weighing System for on-Farm Research Trials  
Jeremy M. Kichler, University of Georgia Cooperative Extension, Moultrie, GA, Jared R. Whitaker, University of Georgia, Tifton, GA and Wesley M Porter, Assistant Professor, Department of Crop and Soil Sciences, Tifton, GA

9:00 AM  A Wireless Sensor Network for Sensor-Based Irrigation Automation of Cotton  
Jose Payero, Clemson University, Blackville, SC

9:15 AM  A Tool for Determining Seasonal Water Needs and Irrigation Requirements of Crops in South Carolina  
Jose Payero, Clemson University, Blackville, SC

Cotton Ginning Conference

COTTON GINNING - FRIDAY MORNING
JW Grand Salon 3, 8:00 AM-11:00 AM

8:00 AM  Update on Plastic Contamination Detection and Removal Research  
Mathew G. Pelletier1, Greg A. Holt2, John D. Wanjura1, Derek P. Whitelock3, Carlos B. Armijo3, Paul A. Funk3 and Kevin Tran4, (1)USDA-ARS Cotton Production and Processing Research Unit, Lubbock, TX, (2)USDA ARS CPPRU, Lubbock, TX, (3)USDA-ARS Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM, (4)USDA-ARS, LUBBOCK, TX

8:15 AM  Field Evaluation of the VIPR™ System  
Ross D. Rutherford, Lummus Ag Technology, Lubbock, TX and Gabe J. Sweers, Bratney Companies, Des Moines, IA
Friday, January 10, 2020

8:30 AM  Evaluation of the Goldenlion Contamination Cleaner
Derek P. Whitelock1, Carlos B. ArmiJo1, Mathew G. Pelletier2, Paul A. Funk1, Greg A. Holt3, John D. Wanjura2, Neha Kothari3 and Vikki B. Martin1, (1) USDA-ARS Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM, (2)USDA-ARS Cotton Production and Processing Research Unit, Lubbock, TX, (3)Cotton Incorporated, Cary, NC

8:45 AM  Round Modules: Handling Logistics and Cover Damage
Tianyi Wang1, Robert G. Hardin1, Jason K Ward2 and John D. Wanjura3, (1) Texas A&M University, College Station, TX, (2)North Carolina State University, Raleigh, NC, (3)USDA-ARS Cotton Production and Processing Research Unit, Lubbock, TX

9:00 AM  Plastic Removal at the Module Feeder
Kalin Clark and Robert G. Hardin, Texas A&M University, College Station, TX

Pappu Kumar Yadav1, Emma L. White1, J. Alex Thomasson1, Thiago Marconi1, Juan Enciso2 and Uriel Cholula1, (1)Texas A&M University, College Station, TX, (2)Texas A&M AgriLife Research, Weslaco, TX

9:30 AM  Findings of an Investigation into the Removal of Plastic Wrap during Ginning and Textile Processing
Marinus H.J van der Sluijs, Textile Technical Services, Geelong, VIC, Australia

9:45 AM  New Additions to Cherokee's Product Line
Mark D. Cory, Lummus Ag Technology, Savannah, GA

10:00 AM  New Lummus Centurion™ Series Saw Gin
Michael J. Greene, Cherokee Fabrication Company Inc., Salem, AL

10:15 AM  Keep Your Temp Cables from Moving and Better Seed Management
Michael Prachar, Tri-States Grain Conditioning, Spirit Lake, IA

10:30 AM  Progress Report in Development of Air-Bar Lint Cleaner
Ruixiu Sui, USDA-ARS, Stoneville, MS

10:45 AM  Student Paper Awards
Christopher D. Delhom, USDA-ARS, New Orleans, LA

Cotton Improvement Conference

COTTON IMPROVEMENT - GENETIC DIVERSITY AND BREEDING PROGRAMS
Brazos, 8:00 AM-9:50 AM

8:00 AM  Genetic Diversity of Gossypium hirsutum
Joshua Udall1, Jonathan Wendel1, Daogun Yuan2, Corrine Grover2, Justin L Conover2 and Thiru Ramaraj1, (1)USDA-ARS, College Station, TX, (2)Iowa State University, Ames, IA, (3)NCGR, Santa Fe, NM

8:15 AM  Understanding the Natural Qualitative Trait Relationships between Pima and Upland Cotton in the National Cotton Germplasm Collection
Amanda M. Hulse-Kemp1, Daniel Restrepo-Montoya2, Lori Hinze2, Jodi Scheffler4, Janna Love1, Richard Percy1, Don Jones5, Candace Haigler1 and James Frelichowski1, (1)USDA-ARS, Raleigh, NC, (2)North Carolina State University, Raleigh, NC, (3)USDA-ARS, College Station, TX, (4)USDA-ARS, Stoneville, MS, (5)Cotton Incorporated, Cary, NC

8:30 AM  Perspectives from 50 Years of Breeding Cotton
Fred M. Bourland, University of Arkansas-NEREC, Keiser, AR

38
8:45 AM  Identifying Accessions and Management Practices for the Potential Production of Pima Cotton in South Carolina
Sarah K. Holladay1, Michael A. Jones1 and B. Todd Campbell2, (1)Clemson University, Florence, SC, (2)USDA-ARS, Florence, SC

9:00 AM  Genetic Evaluation of Cotton Breeding Resources from the Pee Dee Germplasm Enhancement Program
Grant T. Billings1, Michael A. Jones2, William C. Bridges2, Amanda M. Hulse-Kemp3 and B. Todd Campbell4, (1)Clemson University, Florence, SC, (2)Clemson University, Clemson, SC, (3)USDA-ARS, Raleigh, NC, (4)USDA-ARS, Florence, SC

9:15 AM  Breeding Cotton for Organic Production
Martin Costa1, Jane K Dever2 and Steve Hague3, (1)Texas A&M University, College Station, TX, (2)Texas A&M AgriLife Research, Lubbock, TX

9:30 AM  How Can Cottongen Help in Cotton Improvement?
Jing Yu1, Sook Jung1, Chun-Huai Cheng1, Taein Lee1, Ping Zheng1, Jodi Humann1, Don Jones2, B. Todd Campbell3, Joshua Udall4 and Dorrie Main5, (1) Washington State University, Pullman, WA, (2)Cotton Incorporated, Cary, NC, (3)USDA-ARS, Florence, SC, (4)USDA-ARS, College Station, TX

COTTON IMPROVEMENT - FIBER QUALITY
Brazos, 10:00 AM-11:50 AM

10:00 AM  Studying the Negative Relationship between Yield and Fiber Quality
B. Todd Campbell, USDA-ARS, Florence, SC

10:15 AM  Genome-Wide Quantitative Trait Loci Reveal the Genetic Basis of Cotton Fiber Quality and Yield-Related Traits in a G. hirsutum Recombinant Inbred Line Population
Youlu Yuan, Institute of Cotton Research, Chinese Academy of Agricultural Sciences, Anyang, China

10:30 AM  Application of Cottonscope for Determining Fiber Maturity and Fineness of an Upland Cotton Genetic Population.
Hee Jin Kim1, Christopher D. Delhom2, David D. Fang3, Linghe Zeng4, Johnie N. Jenkins5, Jack C. McCarty5 and Don Jones6, (1)USDA-ARS, Southern Regional Research Center, New Orleans, LA, (2)Cotton Fiber Bioscience Research Unit, USDA-ARS-SRRC, New Orleans, LA, (3)Cotton Fiber Bioscience Research Unit, USDA-ARS, Stoneville, MS, (5) USDA-ARS, Mississippi State, MS, (6)Cotton Incorporated, Cary, NC

10:45 AM  Stability, Variation, and Application of AFIS Fiber Length Distributions
Zach Hinds, Brendan Kelly and Eric F. Hequet, Texas Tech University, Lubbock, TX

11:00 AM  Evaluation of Short-Term and Long-Term Stability of HVI Fibrograms
Addisu Ferede Tesema, Brendan Kelly and Eric F. Hequet, Texas Tech University, Lubbock, TX

11:15 AM  Establishment and Validation of the Correction Procedure for the Fibrogram Measurements across Different HVIs
Md Abu Sayeed, Eric F. Hequet and Brendan Kelly, Texas Tech University, Lubbock, TX

11:30 AM  An EMS-Induced Mutation in a Tetratricopeptide Repeat-like Superfamily Protein Gene (Ghir_A12G008870) on Chromosome A12 Is Responsible for the Liy Short Fiber Phenotype in Cotton
David D. Fang1, Marina Naoumkina1, Gregory N. Thyssen1, Efrem Bechere2, Ping Li3 and Christopher Florane1, (1)Cotton Fiber Bioscience Research Unit, USDA-ARS-SRRC, New Orleans, LA, (2)USDA-ARS, Stoneville, MS

COTTON IMPROVEMENT - BUSINESS MEETING
Brazos, 11:50 AM-12:00 PM
Cotton Insect Research and Control Conference

COTTON INSECT RESEARCH & CONTROL CONFERENCE - FRIDAY EARLY MORNING - SESSION B

JW Grand Salon 1, 8:00 AM-10:30 AM

8:00 AM  Development of Biological Control Informed Thresholds for Management of Whitefly in Cotton
Steve Naranjo, USDA-ARS, Maricopa, AZ, Tim Vandervoet, Plant & Food Research Limited, Havelock North 4130, New Zealand and Peter C Ellsworth, University of Arizona, Maricopa, AZ

8:15 AM  Landscape-Scale Consequences of Nutritional Variation for the Management of Helicoverpa Zea in Corn and Cotton across the Growing Season.
Gregory A. Sword, Carrie Deans, Joseph Black, Ashley Tessnow and Spencer Behmer, (1)Texas A&M University, College Station, TX, (2)University of Minnesota, St. Paul, MN

8:30 AM  Cotton Fleahopper Injury to Commercial Cottons Differing in Leaf Pubescence
Michael J. Brewer, Stephen Biles and Darwin Anderson, (1)Texas A&M AgriLife Research, Department of Entomology, Corpus Christi, TX, (2)Texas A&M AgriLife Extension Service, Port Lavaca, TX

8:45 AM  Monitoring of Silverleaf Whitefly Populations in Georgia: Results of a Two Year Study
Apurba K Barman, Phillip Roberts, Alton N Sparks and Michael Toews, University of Georgia, Tifton, GA

9:00 AM  Reducing Control Costs for Tarnished Plant Bug in Mid-South Cotton: Practical Opportunities Using Management Zones
Tina Gray Teague, Ark State Univ / Univ Ark Exp Sta, State University, AR

9:15 AM  Current Susceptibilities of Bollworms from the Mississippi Delta to a Diamide Insecticide
Kerry Clint Allen and Nathan S. Little, USDA-ARS SIMRU, Stoneville, MS

9:30 AM  Isoclast for Insect Management in Western Cotton
Jesse M Richardson, Corteva Agriscience, Mesa, AZ, Sunil Tewari, Corteva Agriscience, Madera, CA, Peter C Ellsworth, University of Arizona, Maricopa, AZ, Ian M Gertenberger, University of California-Davis, Davis, CA, CA and Patricia L Prasifka, Corteva Agriscience, West Fargo, ND

9:45 AM  Managing Thrips in Mid-South Cotton
Don Cook, Scott D. Stewart, Jeff Gore, Gus Lorenz, Angus Catchot, David Kerns, Sebe Brown, Glenn Studebaker, Nick R. Bateman, Whitney Crow and Benjamin C Thrash, (1)Mississippi State University, Stoneville, MS, (2)The University of Tennessee, Jackson, TN, (3)The University of Arkansas, Lonoke, AR, (4)Mississippi State University, Mississippi State, MS, (5)Texas A&M University, College Station, TX, (6)LSU AgCenter, Winniboro, LA, (7)University of Arkansas, Keiser, AR, (8)University of Arkansas - RREC, Stuttgart, AR, (9)University of Arkansas, Lonoke, AR

10:00 AM  Effect of Nitrogen Fertility Rates on Cotton Crop Response to Simulated Cotton Fleahopper Damage
Megha N. Parajulee, Dol P. Dhakal, Abdul Hakeem, Ziyan Nangong, Katie L. Lewis and James P. Bordovsky, Texas A&M AgriLife Research Center, Lubbock, TX
COTTON INSECT RESEARCH & CONTROL CONFERENCE -
FRIDAY EARLY MORNING - SESSION A

Friday, January 10, 2020

8:00 AM  Insect Damage and Economic Yield Loss in Cotton
Whitney Crow1, Angus Catchot2, Jeff Gore1, Don Cook1 and Darrin M. Dodds2, (1)Mississippi State University, Stoneville, MS, (2)Mississippi State University, Mississippi State, MS

8:15 AM  Plant Bug Efficacy over Time in the Midsouthern US
Benjamin C Thrash1, Gus Lorenz2, Nick R. Bateman1, Nichole Taillon1, Andrew Plummer1, Kevin McPherson1 and Garrett Felts2, (1)University of Arkansas, Lonoke, AR, (2)The University of Arkansas, Lonoke, AR, (3)University of Arkansas - RREC, Stuttgart, AR, (4)University of Arkansas CES, Lonoke, AR, (5)University of Arkansas- RREC, Stuttgart, AR

8:30 AM  Effectiveness of Insecticide Oversprays for Control of Bollworm and Stink Bugs on Bt Cotton Technology in the Southeastern USA
Jeremy Greene1, Francis Reay-Jones2, Dominic Reisig3, Phillip Roberts4, Michael Toews4 and Ron Smith5, (1)Clemson University, Blackville, SC, (2)Clemson University, Florence, SC, (3)North Carolina State University, Plymouth, NC, (4)University of Georgia, Tifton, GA, (5)Auburn University, Auburn, AL

8:45 AM  Sefina Insecticide: A New Insecticide for Piercing-Sucking Insect Management in Cotton
Christa Ellers-Kirk, BASF, RTP, NC, Adam Hixon, BASF, Lubbock, TX and David Kerns, Texas A&M University, College Station, TX

9:00 AM  Counting Predators and Using Biological Control Informed Thresholds for Sustainable Management of Whiteflies in Cotton
Peter C Ellsworth1, Steve Naranjo2, Naomi M. Pier1, Isadora Bordini3 and Tim Vandervoet3, (1)University of Arizona, Maricopa, AZ, (2)USDA-ARS, Maricopa, AZ, (3)Plant & Food Research Limited, Havelock North 4130, New Zealand

9:15 AM  Developing a Cotton-Based Method for Bt Resistance Monitoring
Dominic Reisig, North Carolina State University, Plymouth, NC, Jeremy Greene, Clemson University, Blackville, SC, Silvana Paula-Moraes, University of Florida, Jay, FL, Francis Reay-Jones, Clemson University, Florence, SC, Ron Smith, Auburn University, Auburn, AL, Sally Taylor, Virginia Tech University, Suffolk, VA, Arun Babu, North Carolina State University, Raleigh, NC and Mohammad-Amir Aghaea, Bayer Crop Science, Union City, TN

9:30 AM  Bt Resistance and Bt Technology Performance for Texas and the Mid-South in 2019
David Kerns1, Fei Yang1, Don Cook2, Jeff Gore2, Scott D. Stewart1, Gus Lorenz1, Angus Catchot1 and Sebe Brown1, (1)Texas A&M University, College Station, TX, (2)Mississippi State University, Stoneville, MS, (3)The University of Tennessee, Jackson, TN, (4)The University of Arkansas, Lonoke, AR, (5)Mississippi State University, Mississippi State, MS, (6)LSU AgCenter, Winnboro, LA

9:45 AM  F2 Screen for Vip3Aa Resistance in Field Populations of Helicoverpa Zea (Boddie) (Lepidoptera: Noctuidae) in Texas, USA
Fei Yang, José C González and David Kerns, Texas A&M University, College Station, TX

Cotton Weed Science Research Conference

COTTON WEED SCIENCE RESEARCH - GRADUATE STUDENT AWARDS
Rooms 402-403, 10:00 AM-10:30 AM
TECHNICAL CONFERENCES
POSTER BOARD SESSION

JW Grand Salons 7-8

COTTON ECONOMICS AND MARKETING CONFERENCE POSTERS WILL BE ON DISPLAY IN JW GRAND SALON 4

Cotton Agronomy, Physiology & Soil Conference Posters

1. Mutant Gene Could Change Our Understanding of Cellulose Biosynthesis: Fuel, Food, and Fiber- Investigating the Physiological Responses in Arabidopsis FKF1 Mutant Gabriella Hale, Ning Yuan, Vimal Kumar Balasubramanian, Kirby Luth, Glen Ritchie and Venugopal Mendu, Texas Tech University, Lubbock, TX

2. Use of Phosphite As a Fertilizer for Transgenic Cotton Ariel A Szogi, USDA-ARS, Florence, SC and Kater Hake, Cotton Incorporated, Cary, NC

3. Efficacy of Recovery Sprays to Auxin Injured Cotton James A. Griffin, Texas A&M Cotton Extension, College Station, TX, Gaylon Morgan, Texas A&M AgriLife Extension Service, College Station, TX, Seth A. Byrd, Oklahoma State University, Stillwater, OK and Glen Ritchie, Texas Tech University, Lubbock, TX

4. Effect of Morphological Factors on the Success of Cotton Boll Opening Cayden B. Catlin, Bradley R. Wilson and Seth A. Byrd, Oklahoma State University, Stillwater, OK

5. Planting Cotton into Crimson Clover Cover Crop Shannon Koss, North Carolina State University, Raleigh, NC, Charlie Cahoon, North Carolina State University, Raleigh, NC, and S. Chris Reberg-Horton, NC State University, Raleigh, NC

6. Impact of Soil Acidity on Cotton Growth and Yield Raedan L Sharry, Brian Arnall, Seth A. Byrd, Vaughn L Reed, Bronc Finch, Michaela Smith and Joao Bigatao Souza, Oklahoma State University, Stillwater, OK

7. Impacts of Leaf and Bract Pubescence on Fiber Quality of Normal and Okra Leaf Cotton Bradley R. Wilson, Seth A. Byrd, Jane K Dever and Carol Mason Kelly, (1)Oklahoma State University, Stillwater, OK, (2)Texas A&M AgriLife Research and Extension Center, Lubbock, TX, (3)Texas A&M AgriLife Research, Lubbock, TX

8. Management of Volunteer Cotton with Duplosan™ Dale A. Mott, Texas A&M AgriLife Extension Service, College Station, TX and Josh McGinty, Texas A&M AgriLife Extension Service, Corpus Christi, TX

22. Cotton Variety Response to Varying Rates of Nitrogen in Mississippi
Bradley Norris, Darrin M. Dodds, William J Rutland, Steven D. Hall, Jacob P. McNeal, John J. Williams and Chase A. Samples, Mississippi State University, Mississippi State, MS

23. 2019 Cotton Seeding Rate By Row Spacing Evaluation in Northeast Texas
Brad Voss¹, Curtis A. Jones¹ and David R. Drake², (1)Texas A&M University-Commerce, Commerce, TX, (2)Texas A&M AgriLife Extension Service, Commerce, TX

24. On-Farm Evaluation of Reduced Cotton Seeding Rates in a Mid-South System Incorporating a Cereal Rye Winter Cover Crop with Different Termination Timing
Tina Gray Teague¹, Andrew J. Baker², Jessica Krob³ and John W. Nowlin¹, (1)Ark State Univ / Univ Ark Exp Sta, State University, AR, (2)Univ Ark System Division of Agriculture, State University, AR, (3)Arkansas State University, State University, AR

25. Early-Season Morphological and Physiological Responses of Cotton Genotypes to Reniform Nematode and Soil Nitrogen
Bhupinder Singh¹, Daryl Chastain¹, K. Raja Reddy², Jason Krutz¹, John L. Snider¹ and Sally Stetina², (1)Mississippi State University, Stoneville, MS, (2)Mississippi State University, Starkville, MS, (3)University of Georgia, Tifton, GA, (4)USDA-ARS, Stoneville, MS

26. Intensive Spatial Data Characterization: Spatial Data Relationships in Cotton Production
Kendall R. Kirk, Brennan E. Teddy, Michael T. Plumblee, John Mueller, Jeremy Greene and Benjamin B. Fogle, Clemson University, Blackville, SC

27. Impact of Various Potassium Application Rates on Cotton Varieties Under Irrigated and Dryland Conditions
William J Rutland, Darrin M. Dodds, Bradley Norris, Steven D. Hall, Jacob P. McNeal, John J. Williams and Chase A. Samples, Mississippi State University, Mississippi State, MS

28. Evaluation of Foliar Fertilizers in Cotton for Plant Growth, Yield, and Fiber Quality
Joshua M Doria, Texas A&M AgriLife Research, College Station, TX, Julie A. Howe, Texas AgriLife Research, College Station, TX, Katie L. Lewis, Texas A&M AgriLife Research and Extension Center, Lubbock, TX, Seth A. Byrd, Oklahoma State University, Stillwater, OK and Gaylon Morgan, Cotton Incorporated, Cary, NC

29. Influence of Harvest Aid Strategy on Fiber Quality in the Oklahoma Panhandle
Seth A. Byrd¹, Bradley R. Wilson¹, Cayden B. Catlin¹ and Cameron Murley², (1)Oklahoma State University, Stillwater, OK, (2)Oklahoma State University, Goodwell, OK

30. Resource Partitioning in Cotton: Three Decades Later
Irish Lorraine B Pabuayon¹, Katie L. Lewis² and Glen Ritchie¹, (1)Texas Tech University, Lubbock, TX, (2)Texas A&M AgriLife Research and Extension Center, Lubbock, TX

David R. Drake, Texas A&M AgriLife Extension Service, Commerce, TX
32. Evaluation of Foliar Fertilizers in Louisiana Cotton
Melanie Netterville¹, Owen Clark², Ana P Campos¹, Peters Egbedi¹ and Josh T Copes², (1)Louisiana State University, Saint Joseph, LA, (2)LSU AgCenter, Saint Joseph, LA

33. Evaluation of Late Season Nitrogen and Potassium Fertilizer Applications in Louisiana Cotton
Owen Clark¹, Melanie Netterville², Ana P Campos², Peters Egbedi² and Josh T Copes¹, (1)LSU AgCenter, Saint Joseph, LA, (2)Louisiana State University, Saint Joseph, LA

34. Evaluation of 10-34-0 Fertilizer Applied in-Furrow in Louisiana Cotton Production
Peters Egbedi¹, Ana P Campos¹, Owen Clark², Melanie Netterville¹ and Josh T Copes², (1)Louisiana State University, Saint Joseph, LA, (2)LSU AgCenter, Saint Joseph, LA

35. Amending Two Different Soil Types with Biochar: Do Row Crops Benefit from Biochar?
Avat Shekoofa, University of Tennessee, Jackson, TN

36. Reevaluation of Replanting Recommendations for NC Cotton
Enrique E Pena Martinez¹, Guy D. Collins² and Jason K Ward¹, (1)North Carolina State University, Raleigh, NC, (2)North Carolina State University, Rocky Mount, NC

37. Evaluating Growth Characteristics of Modern Cotton Varieties in North Carolina
Carrie Ortel, NC State University, Greenville, NC, Guy D. Collins, North Carolina State University, Rocky Mount, NC, Keith L. Edmisten, North Carolina State University, Raleigh, NC, Craig Ellison, NC State University, Jackson, NC, Lance Grimes, NC State University, Williamston, NC, Jarette Hurry, NC State University, Windsor, NC and Arthur Whitehead, NC State University, Halifax, NC

38. Cotton Seedling Vigor As Affected By First True Leaf Physiology Under Different Field Conditions
Gurpreet Virk, John L. Snider and Cristiane Pilon, University of Georgia, Tifton, GA

38a. Evaluation of Variety Performance with Regard to Bollworm Management in NC - MOVED TO POSTER SESSION
Guy D. Collins¹, Anders S. Huseth², Kristen A. Hopperstad³, Dominic Reisig⁴, Keith L. Edmisten² and Charlie Cahoon³, (1)NC State University, Rocky Mount, NC, (2)North Carolina State University, Raleigh, NC, (3)NC State University, Raleigh, NC, (4)North Carolina State University, Plymouth, NC
Cotton Disease Council Posters

39. Cotton Disease Loss Estimate Committee Report, 2019. Kathy S. Lawrence1, Austin Hagan1, Randy Norton2, Jiahui Hu3, Travis R. Faske4, Robert B Hutmacher5, John Muller6, Ian Small7, Zane J. Grabau8, Robert C. Kemerial9, Paul Price10, Thomas W. Allen10, Sam Atwell10, John Idowu11, Lindsey D. Thiessen12, Seth A. Byrd13, Jerry Goodson14, Heather Kelly15, Terry Wheeler16, Thomas Isakie17 and Hillary L. Mehl18, (1)Auburn University, Auburn, AL, (2)University of Arizona, Safford, AZ, (3)University of Arizona, Tucson, AZ, (4)University of Arkansas Division of Agriculture, Lonoke, AR, (5)Univ...
45. Molecular and Disease Characterization of Verticillium Dahiae Isolates from China in 2015
   Tanya A. Wagner¹, Aixing Giu², Alois A. Bell¹, Clint W Magill³ and Jinggao Liu¹, (1)USDA-ARS ICCDRU, College Station, TX, (2) Xinjiang Agricultural University, Urumqi, China, (3)Texas A&M University, College Station, TX

46. Enhanced Fusarium Wilt Resistance Associated with Lacinilene Pathway Induction in Cotton
   Tanya A. Wagner¹, Yingfan Cai¹, Alois Bell¹, Lorraine Puckhaber², Clint W Magill³, Sara Duke³ and Jinggao Liu¹, (1)USDA-ARS ICCDRU, College Station, TX, (2)Henan University, Kaifeng, China, (3)USDA-ARS, College Station, TX, (4)Texas A&M University, College Station, TX

   Thomas Isakeit, Texas A&M University, College Station, TX and Orlando Flores, Texas A&M AgriLife Extension, El Paso, TX

48. A Cost-Effective Prescription Management Strategy Utilizing Fertilizers and Nematicides to Combat Yield Loss from Reniform Nematode
   Kara Gordon, Auburn University, Auburn University, AL, Kathy S. Lawrence, Auburn University, Auburn, AL, Brad Meyer, Agri-AFC, Decatur, AL and Drew Schrimsher, Agri-AFC, Slocomb, AL

49. Meloidogyne Incognita As a Potential Pathogen on Winter Cover Crops Used in Cotton Production
   Sloane McPeak¹, Kathy Lawrence¹ and Dustin Herb², (1)Auburn University, Auburn, AL, (2)OreGro Seeds, Albany, OR

50. Impact of Cotton Genetics and Nematicides on Reniform Nematode Populations and Yield
   Jennifer Dudak¹, Reagan L. Noland², Thomas Isakeit¹, Gaylon Morgan³ and Terry A. Wheeler¹, (1)Texas A&M University, College Station, TX, (2)Texas A&M AgriLife Extension Service, San Angelo, TX, (3)Cotton Incorporated, Cary, NC, (4)Texas A&M AgriLife Research, Lubbock, TX

51. Evaluation of Phytogen Seed Treatment and Variety for Reniform Nematode Management in Mississippi.
   Tessie H. Wilkerson, Mississippi State University, Stoneville, MS and Thomas W. Allen, Mississippi State University, Delta Research and Extension Center, Stoneville, MS

52. Population Dynamics of Southern Root-Knot, Columbia Lance, and Ring Nematodes in Cotton-Cotton-Peanut Rotation in South Carolina
   Michael T. Plumblee, Kendall R. Kirk and John Mueller, Clemson University, Blackville, SC

53. Evaluation of Salibro As a New Nematicide for Cotton Production Systems
   Bisho Ram Lawaju and Kathy Lawrence, Auburn University, Auburn, AL

Cotton Engineering-Systems Conference Posters

54. Quantifying Cotton Sustainability and Exploring Opportunities for Growth Using Field to Market
   Anna E. Hartley, University of Georgia, Tifton, GA and Wesley M Porter, Assistant Professor, Department of Crop and Soil Sciences, Tifton, GA
55. Contribution of Conservation Practices to Water Quality in Arkansas Cotton: Results of 2-Year Study
Arlene A Adviento-Borbe¹, Richard Woodruff², Michele L. Reba³, Joseph Massey³ and Tina Gray Teague¹, (1)DWMRU USDA-ARS, Jonesboro, AR, (2)University of Arkansas, University Park, AR, (3)USDA-ARS, Jonesboro, AR, (4)Ark State Univ / Univ Ark Exp Sta, State University, AR

56. Using Soil Moisture Sensors and Cover Crops to Better Manage Soil Moisture Availability for Cotton and Other Row Crops in Northwest Florida
Libbie Johnson, University of Florida Escambia County, Cantonment, FL, Michael J. Mulvenay, University of Florida, Jay, FL and Ethan Carter, University of Florida Jackson County, Marianna, FL

57. Mobile Robot Weeder Prototype
Dennis Daly IV¹, Christina Chiu¹, Marlowe Edgar Burce¹, Joe Mari J. Maja¹ and Edward M. Barnes², (1)Clemson University, Blackville, SC, (2)Cotton Incorporated, Cary, NC

58. Cotton Yield, Losses, and Quality As a Function of Harvesting Ground Speed
Kendall R. Kirk, Michael T. Plumblee, Brennan E. Teddy, Benjamin B. Fogle and L. Alex Samenko, Clemson University, Blackville, SC

59. Diurnal and Cloud Cover Effects on UAS Multispectral Data
Lori Duncan¹, Michael Buschermoohle¹, Tyson B Raper¹, John Wilkerson¹ and William Hart¹, (1)University of Tennessee, Knoxville, TN, (2)University of Tennessee, Jackson, TN

Cotton Ginning Conference Posters

60. Seed Cotton Moisture Issues and Handling in Cotton Ginning
Filip To, Mississippi State University, Mississippi State, MS

61. Contaminants Issues and Handling in Cotton Ginning
Filip To, Mississippi State University, Mississippi State, MS

Cotton Improvement Conference Posters

62. Greenhouse Screening of Cotton for Fusarium Wilt Race 4 Resistance in New Mexico
Jinfa Zhang¹, Abdelraheem Abdelraheem¹, Yi Zhu¹, Terry Wheeler¹, Robert L. Nichols¹ and Tom Wedegaertner¹, (1)New Mexico State University, Las Cruces, NM, (2)Texas A&M AgriLife Research and Extension Center, Lubbock, TX, (3)Cotton Incorporated, Cary, NC

63. Unmanned Aerial System (UAS) Based Early Season Growth Parameters for Cotton Phenotyping
Mahendra Bhandari, Texas A & M University, College Station, TX

64. Nexgen New Variety Release
Douglas J. Post, Americot, Garden City, TX and Brad Littlefield, Americot, Franklin, TN

65. Adaptation of Indigenous Cotton Accessions for Mechanical Picking in Pakistan
Sajid Majeed, Muhammad Tehseen Azhar, Amir Shakeel, Abdul Ghafoor and Shakeel Ahmad Anjum, University of Agriculture Faisalabad, Faisalabad, Pakistan

Wednesday, January 8, 2020, 8:00 AM - 8:00 PM
Thursday, January 9, 2020, 8:00 AM - 10:00 PM
Friday, January 10, 2020, 8:00 AM - 12:00 PM

CANCELLED
76. Efficacy of Selected Insecticides for Control of Tarnished Plant Bug, Lygus lineolaris, in Arkansas Cotton

77. Variation in Heliothine Injury and Yields in Selected Cotton Cultivars in New Mexico.
Jane Pierce¹, Patricia Monk², Ivan Tellez³ and Stephen Biles⁴, (¹)New Mexico State University, Las Cruces, NM, (²)Texas A&M AgriLife Extension Service, Port Lavaca, TX

78. Refining Pest Management Thresholds for Water-Deficit Cotton Production
David Griffin¹, Allison Randell¹, Michael Toews¹, Suhas Vyavhare², Katie L. Lewis³, Abdul Hakeem⁴, Donna McCallister⁵ and Megha N. Parajulee⁶, (¹)University of Georgia, Tifton, GA, (²)Texas A&M AgriLife Research, Lubbock, TX, (³)Texas A&M AgriLife Research and Extension Center, Lubbock, TX

79. Effect of Cultivar on Tarnished Plant Bug, Lygus lineolaris, Populations in Cotton
Glenn Studebaker¹, Courtney J Spinks¹ and Fred M. Bourland², (¹)University of Arkansas, Keiser, AR, (²)University of Arkansas-NEREC, Keiser, AR

80. Corn Earworm Emergence from Vip Seed Blend Vs Block Refuge
Suhas Vyavhare and Patrick Porter, Texas A&M AgriLife Extension Service, Lubbock, TX

81. Performance of Acephate Against Tobacco Thrips and Evidence of Possible Resistance
Scott D. Stewart¹, Dawson Kerns¹, Sandy Steckel¹, Scott Hester Graham¹, Clay Perkins¹, Fred Musser¹, Beverly Catchot², Angus Catchot³, Jeff Gore¹, George G. Kennedy¹, Anders S. Hushet¹, Dominic Reisig⁴, Gus Lorenz⁵, David Kerns⁶, Sally Taylor⁷ and Sebe Brown⁸, (¹)The University of Tennessee, Jackson, TN, (²)Mississippi State University, Mississippi State, MS, (³)Mississippi State University, Stoneville, MS, (⁴)North Carolina State University, Raleigh, NC, (⁵)North Carolina State University, Plymouth, NC, (⁶)The University of Arkansas, Lonoke, AR, (⁷)Texas A&M University, College Station, TX, (⁸)Virginia Tech University, Suffolk, VA, (⁹)LSU AgCenter, Winnsboro, LA

82. 2019 Cotton Insect Losses Estimates
Don Cook, Mississippi State University, Stoneville, MS and Meg Threet, MSU, Stoneville, MS

83. Impact of Lygus Bugs on Cotton Fiber Yield and Quality Under Dryland and Full Irrigation
Dol P. Dhakal¹, Abdul Hakeem², Megha N. Parajulee³ and Katie L. Lewis⁴, (¹)Texas A&M AgriLife Research Center, Lubbock, TX, (²)Texas A&M AgriLife Research and Extension Center, Lubbock, TX

84. Delivery of Pest and Natural Enemy Profiles in Cotton Cultivars in the Florida Panhandle
Ethan Carter¹, Marcelo Rabelo², Libbie Johnson³ and Silvana Paula-Morales⁴, (¹)University of Florida Jackson County, Marianna, FL, (²)University of Florida, Jay, FL, (³)University of Florida Escambia County, Cantonment, FL
85. Lygus Management in California Cotton
Ian M Grettenberger, University of California-Davis, Davis, CA, CA and Treanna Pierce, UC Cooperative Extension, Shafter, CA

86. Efficacy of Pesticides Used in Cotton When Applied at Specific Droplet Sizes
Tyler S. Soignier, Michael T. Plumblee, Jeremy Greene, Kendall R. Kirk and John Mueller, Clemson University, Blackville, SC

87. Laboratory and Field Investigations on Compatibility of Beauveria bassiana Spores with a Sprayable Bioplastic Formulation for Application in the Biocontrol of Tarnished Plant Bug in Cotton.
Maribel Portilla1, Hamed Abbas2, C. Accinelli2 and Randall G. Luttrell1, (1)USDA, Stoneville, MS, (2)USDA-ARS, Stoneville, MS, (3) USDA-ARS SIMRU, Stoneville, MS

88. Evaluation of Products for Fleahopper Control in Northeast Texas - 2019
Jacob A. Galicia1, Brad Voss1 and David R. Drake2, (1)Texas A&M University-Commerce, Commerce, TX, (2)Texas A&M AgriLife Extension Service, Commerce, TX

Cotton Utilization Conference Posters

89. Cotton Seed Biopeptides on Mouse Macrophage Gene Expression
Kandan Sethumadhavan1, Heping Cao1, Zhongqi He1, H.N. Cheng1 and John Bland2, (1)USDA-ARS-SRRC, New Orleans, LA, (2)USDA-ARS-SRRC, New Orleans, LA

Cotton Weed Science Research Conference Posters

90. Determining the Effect of Elemental Additives on Efficacy of Dicamba Mixtures
Jake A Patterson, Jason K. Norsworthy, Lawson Priess and Mason Castner, University of Arkansas, Fayetteville, AR

91. Efficacy of Isoxaflutole Alone and with Tank Mix Partners across the Cotton Belt
Delaney C. Foster1, Peter A. Dotray2, Seth A. Byrd3, A. Stanley Culpepper4, Darrin M. Dodd5, Steven D. Hall6, Bradley Norris7, Reagan L. Noland8, Scott Nolte9, Mason House9, Jason K. Norsworthy9, Rodger B. Farr9, Larry Steckel10 and Corey N. Thompson11, (1)Texas Tech University, Lubbock, TX, (2)Texas Tech University, Texas A&M AgriLife Research and Extension Service, Lubbock, TX, (3)Oklahoma State University, Stillwater, OK, (4) University of Georgia, Tifton, GA, (5)Mississippi State University, Mississippi State, MS, (6)Texas A&M AgriLife Extension Service, San Angelo, TX, (7)Texas A&M University, College Station, College Station, TX, (8)Texas A&M AgriLife Extension, College Station, TX, (9)University of Arkansas, Fayetteville, AR, (10)University of Tennessee, Jackson, TN, (11)BASF, Lubbock, TX

92. Evaluation of Multiple Brake Tank Mixes for Residual Herbicide Efficacy with and without Pre-Plant Incorporated Valor
Owen Wesley France, University of Arkansas, Fayetteville, AR
103. Impact of Reduced Rates of Mesotrione on Cotton Growth and Yield.
Donnie Miller1, Daniel O Stephenson IV2 and Marcie Mize3, (1) LSU AgCenter, St. Joseph, LA, (2) LSU AgCenter, Alexandria, LA

104. Tank Mixing Elevore and Quelex with Low Rates of 2,4-D and Dicamba for Broader Weed Control
Jarette Hurry1, Charlie Cahoon2, Guy D. Collins3, Rachel A. Vann3, Zack Taylor3 and Alan York4, (1) NC State University, Windsor, NC, (2) North Carolina State University, Raleigh, NC, (3) NC State University, Rocky Mount, NC, (4) NC State University, Raleigh, NC

105. 2019 West Texas Auxin Herbicide Drift Evaluation Trial and Demonstration
Blayne Reed, Texas A&M AgriLife Extension, Plainview, TX and Reagan L. Nowland, Texas A&M AgriLife Extension, San Angelo, TX

106. Response of Xtend Cotton to Low Rates of 2,4-D
Ralph R. Hale1, Taghi Bararpour1 and Daryl Chastain2, (1) Mississippi State University, Stoneville, MS, (2) Mississippi State University Delta Research and Extension Center, Stoneville, MS

107. Response of Enlist Cotton to Low Rates of Dicamba
Ralph R. Hale1, Taghi Bararpour1 and Daryl Chastain2, (1) Mississippi State University, Stoneville, MS, (2) Mississippi State University Delta Research and Extension Center, Stoneville, MS

108. Response of Stoneville Cotton to Low Rates of Dicamba and 2,4-D
Taghi Bararpour, Ralph R. Hale and Daryl Chastain, Mississippi State University, Stoneville, MS

109. Effectiveness of Preemergence Herbicides in Cotton
Ubaldo Torres1, Peter A. Dotray2 and Kyle Russell1, (1) Texas A&M AgriLife Research, Lubbock, TX, (2) Texas Tech University, Texas A&M AgriLife Research and Extension Service, Lubbock, TX

110. Response of Cotton at Different Growth Stages to Drift Rates of Commonly Used Forestry Herbicides
Michael W. Marshall, Clemson University - Edisto REC, Blackville, SC

111. Sequential Applications Including Liberty with EnlistTM or XtendiMax
Grace K. Flusche Ogden1, Ubaldo Torres1, Peter A. Dotray2 and John Everitt3, (1) Texas Tech University, Lubbock, TX, (2) Texas Tech University, Texas A&M AgriLife Research and Extension Service, Lubbock, TX, (3) Bayer CropScience, Shallowater, TX

112. Control of Volunteer Cotton with Dicamba and 2,4-D
Todd A Baughman, Oklahoma State University, Ardmore, OK and Peter A. Dotray, Texas Tech University, Texas A&M AgriLife Research and Extension Service, Lubbock, TX
Recorded Presentations

The Beltwide Cotton Conferences (BWCC) continue the tradition of putting leading edge information and innovations into attendees’ hands to help with decision-making. The full 2020 BWCC Proceedings are scheduled to be mailed in May to attendees who purchase them. However, many of the forum’s reports - gleaned from the Confex Podium presentation management/ recording service - are available online.*

The National Cotton Council is pleased to make these presentations available to the cotton industry through the Confex Podium web site. To view presentations on the computer, all that is needed is a high-speed Internet connection.

These can be viewed by selecting the 2020 Recorded Presentations tab at the BWCC website home page, www.cotton.org/beltwide or use this QR Code.

Session Example: After clicking on the recording link, scroll down and click on a session of interest. Next, scroll down to a presentation you want to listen to and click. The presentation you selected will be downloaded to your computer. (Note: first time users may need to download some additional software to hear and see the selected presentation.)

*The Confex Podium presentation service has been available to Beltwide speakers and attendees since the 2006 BWCC. The primary goal is to enable attendees timely access to a wide range of conference presentations prior to the published proceedings - including reports they did not hear at the conferences and reports they did hear but want to review.

Wi-Fi

Wi-Fi Address: JWMarriott_Conference
Wi-Fi Password: beltwide2020
2021 Beltwide Cotton Conferences

January 5-7 · New Orleans, Louisiana
New Orleans Marriott Hotel

New Orleans
2020 Beltwide Sponsors

Confex Podium
Registration
Coffee Breaks
Consultants Conference
https://www.bayercropscienceus.com

🌟 FARM CREDIT
BoardBookIt App
Wi-Fi
http://www.farmcredit.com

🔴 BASF
Consultants Conference
http://www.basf.com

Cogrteva™ | PhytoGen
Consultants Conference
https://www.corteva.com

FMC
Consultants Conference
http://www.fmc.com

Syngenta®
Consultants Conference
http://www.syngenta-us.com/home.aspx

Special thanks to the GEORGIA FARM BUREAU for providing the peanuts in the registration area.
http://www.gfb.org

The following various Beltwide activities and services are provided by the Beltwide Cotton Conferences and the National Cotton Council:
Beltwide Conference Audio/Visual • Printed Program • Beltwide Mobile Web Site