Beltwide Cotton Conferences

January 10–12, 2023
New Orleans Marriott Hotel
New Orleans, LA
## Schedule of Events

### Thanks to Farm Credit, our Final Program Sponsor

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>7:00a–24 hrs.</td>
<td>Speaker Practice Room</td>
<td>Rhythm</td>
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<tr>
<td>8:00a–2:00p</td>
<td>Cotton Specialists Work Group Annual Meeting (By Invitation Only)</td>
<td>Galerie 4</td>
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<tr>
<td>9:00a–5:00p</td>
<td>Conference Registration (Sponsored by Bayer)</td>
<td>Preservation</td>
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<td>Foyer on Level 2</td>
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<tr>
<td>9:00a–5:00p</td>
<td>Newsroom</td>
<td>Iberville</td>
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<tr>
<td>9:00a–5:00p</td>
<td>Confex Presentation Uploading Room for Speakers</td>
<td>Studio 10</td>
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<tr>
<td>11:00a–12:00p</td>
<td>Consultants Conference Luncheon</td>
<td>Studios 3-4</td>
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<tr>
<td>12:00p–5:30p</td>
<td>Consultants Conference General Session</td>
<td>Salon D</td>
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<tr>
<td>2:00p–3:20p</td>
<td>National Cotton Variety Testing Panel Meeting (By Invitation Only)</td>
<td>Salons A-B</td>
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<tr>
<td>3:00p–3:30p</td>
<td>Coffee Break</td>
<td>Salon D Foyer</td>
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<tr>
<td>6:00p–7:00p</td>
<td>Welcome Reception for All Attendees</td>
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</tbody>
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### Wi-Fi

**Address:** Beltwide Wi-Fi  
**Password:** beltwide2023

Special thanks to the **GEORGIA PEANUT COMMISSION** for providing the peanuts in the registration area.  
https://gapeanuts.com/
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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>7:30a–8:00a</td>
<td>Coffee Break</td>
<td>Galerie 1 Foyer</td>
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<tr>
<td>7:30a–5:00p</td>
<td>Speaker Practice Room</td>
<td>Rhythm</td>
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<td>Confex Presentation Uploading Room for Speakers</td>
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<tr>
<td>7:50a–5:00p</td>
<td>Cotton Improvement Conference</td>
<td>Studio 7</td>
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<td>8:00a–11:00a</td>
<td>NCGA Technology Committee</td>
<td>Galerie 1</td>
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<tr>
<td>8:00a–12:00p</td>
<td>Consultants Conference General Session</td>
<td>Balcony J-K</td>
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<tr>
<td>8:00a–3:15p</td>
<td>Cotton Agronomy, Physiology &amp; Soils Conference – Student Competition</td>
<td>Galerie 6</td>
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<tr>
<td>8:00a–4:30p</td>
<td>Cotton Weed Science Research Conference (Sponsored by Valent)</td>
<td>Studio 9</td>
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<tr>
<td>8:00a–5:15p</td>
<td>Cotton Insect Research &amp; Control Conf. – Ph.D. Student Comp. &amp; Session A</td>
<td>Salons A-C</td>
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<tr>
<td>8:00a–5:30p</td>
<td>Cotton Engineering-Systems Conference (Sponsored by John Deere)</td>
<td>Studio 4</td>
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<tr>
<td>8:00a–7:00p</td>
<td>Cotton Agronomy, Physiology &amp; Soils Conference</td>
<td>Galerie 5</td>
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<tr>
<td>8:00a–10:00p</td>
<td>Poster Board Session</td>
<td>Salons E-H</td>
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<tr>
<td>8:15a–5:00p</td>
<td>Cotton Sustainability Conference (Sponsored by John Deere)</td>
<td>Salon D</td>
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<tr>
<td>10:00a–10:30a</td>
<td>Coffee Break</td>
<td>Galerie 1 Foyer</td>
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<tr>
<td>10:30a–12:00p</td>
<td>Cotton Economic Outlook Symposium</td>
<td>Galerie 3</td>
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<tr>
<td>11:00a–7:00p</td>
<td>Cotton Insect Conf. Roundtable, Session B, and Mixer</td>
<td>Galerie 2</td>
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<tr>
<td>1:00p–5:00p</td>
<td>Cotton Quality Measurements Conference</td>
<td>Galerie 4</td>
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<td>1:00p–7:00p</td>
<td>Cotton Disease Council (5:00-7:00 p.m. - Business meeting)</td>
<td>Studio 8</td>
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<tr>
<td>1:30p–5:00p</td>
<td>Cotton Economics and Marketing Conference (3 poster presentations)</td>
<td>Galerie 3</td>
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<tr>
<td>1:30p–5:15p</td>
<td>Cotton Ginning Conference (Sponsored by Tama)</td>
<td>Studios 2-3</td>
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<tr>
<td>3:15p–4:00p</td>
<td>Coffee Break in Poster Board Session (authors present)</td>
<td>Salons E-H</td>
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<tr>
<td>6:00p–7:00p</td>
<td>Cotton Industry Support Group Meeting</td>
<td>Studios 2-3</td>
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<tr>
<td>6:00p–7:00p</td>
<td>Journal of Cotton Science Editorial Board</td>
<td>Napoleon</td>
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<tr>
<td>7:30p–9:30p</td>
<td>Joint Cotton Breeding Committee</td>
<td>Lafayette</td>
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<td>7:30a–1:00p</td>
<td>Confex Presentation Uploading Room for Speakers – CLOSED – (presenters go to meeting rooms to upload)</td>
<td>Studio 10</td>
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<tr>
<td>8:00a–9:30a</td>
<td>Cotton Improvement Conference</td>
<td>Studio 7</td>
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<td>8:00a–9:30a</td>
<td>Cotton Insect Research &amp; Control Conf. – Session A</td>
<td>Salons A-C</td>
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<tr>
<td>8:00a–9:45a</td>
<td>Cotton Insect Research &amp; Control Conf. – Session B</td>
<td>Galerie 2</td>
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<tr>
<td>8:00a–10:00a</td>
<td>Joint Session: Cotton Ginning Conference and Cotton Engineering Systems Conference (Sponsored by Tama and John Deere)</td>
<td>Studios 2-3</td>
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<td>Cotton Agronomy, Physiology &amp; Soils Conference &amp; Awards</td>
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<td>Coffee Break</td>
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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.

### Accrediting Group or State

#### Certified Crop Adviser (CCA) Program

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: ledwardson@sciencesocieties.org

### Accrediting Group or State

**Alabama** Department of Agriculture & Industries, Pesticide Management ~ Certification Unit;
1445 Federal Drive, Montgomery, AL 36107;
Phone: 334-240-7240; Fax: 334-240-7168;
Email: Barbara.gates@agi.alabama.gov

**Arizona** Department of Agriculture, Office of Pest Management;
1688 West Adams, Phoenix, AZ 85007;
Phone: 602-255-3662; Email: rwalker@azda.gov

**Arkansas** Charles E. Denver, Denver Crop Consultants;
P. O. Box 304, Watson, AR 71674;
Phone: 870-866-2335; Fax: 870-644-3254; Email: cdagri@hotmail.com

**California** Department of Pesticide Regulation;
P. O. Box 1379, Sacramento, CA 95812;
Phone: 916-445-3914; Fax: 916-928-0705; Email: info4ce@cecpm.com

**Georgia** Department of Agriculture;
19 Martin Luther King, Jr. Dr., Room 410, Atlanta, GA 30334;
Phone: 404-656-4960; Fax: 404-657-8378;
Email: Adrean.Rhodes@agr.georgia.gov

**Louisiana** Department of Agriculture & Forestry, Office of Agricultural & Environmental Sciences;
5825 Florida Blvd. Ste. 3003, Baton Rouge, LA 70806-4259;
Phone: 225-925-3763; Fax: 225-237-5725;
Email: kevin_w@ldaf.state.la.us; Web: www.ldaf.state.la.us

**Mississippi** Department of Agriculture & 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: russellk@mdac.ms.gov (or) AnnaA@mdac.ms.gov

**New Mexico** Department of Agriculture, Cert. & Training Specialist;
190 S. Espina, MSC 3AQ, Box 30005, Las Cruces, NM 88003-8005;
Phone: 575-646-4837; FAX: 575-646-1540;
Email: pesticides@nmda.nmsu.edu

**North Carolina** Pesticide Section, NCDA & CS;
1090 Mail Service Center, Raleigh, NC 27699-1090;
Phone: 919-857-4133; FAX: 919-733-9796;
Email: John.Feagans@ncagr.gov
Oklahoma  Pesticide Certification & Training Administrator, Agriculture, Food and Forestry, Consumer Protection Services;  
2800 N. Lincoln Blvd., Oklahoma City, OK 73105;  
Phone: 405-522-5993; Fax: 405-522-5986;  
Email: ryan.williams@ag.ok.gov

South Carolina  Special Programs Manager/Recertification Manager  
Department of Pesticide Regulation  
Division of Regulatory & Public Service Programs  
511 Westinghouse Road, Pendleton, SC 29670;  
Phone: 864-646-2150; Fax: 864-646-2179;  
Email: thghslr@clemson.edu

Tennessee  Department of Agriculture, Ellington Ag. Center, Regulatory Services;  
440 Hogan Road, Melrose Station, Nashville, TN 37204;  
Phone: 615-837-5310; Fax: 615-837-5012;  
Email: mary.borthick@tn.gov

Texas  Department of Agriculture, Coordinator for Pesticide Certification and Compliance;  
P.O. Box 12847, Austin, TX 78711;  
Phone: 512-463-7692 or 800-835-5832; Fax: 888-216-9865;  
(CEU inquiries) Email: recertcourses@texasagriculture.gov
New Orleans Marriott Hotel
Meeting Room Floor Plans

2nd Floor

- Beltwide Registration
- Wi-Fi

Confex Speaker Presentation Uploading Room

Meeting Room Floor Plans
New Orleans Marriott Hotel
Meeting Room Floor Plans

4th Floor

Newsroom

Balcony N
23 x 42 x 9

Balcony M
20 x 42 x 9

Balcony L
23 x 42 x 9

Balcony I
23 x 42 x 9

Balcony J
24 x 42 x 9

Balcony K
23 x 42 x 9

Ballroom Below

Service Area

Service Elevators

Iberville 33 x 16 x 9

Bacchus 33 x 16 x 9

Regent 36 x 16 x 9

Bonaparte 36 x 16 x 9

Rooftop Canopies

Canal Street

Speaker Practice Room
Cotton Consultants Conference

CONSULTANTS CONFERENCE GENERAL SESSION
TUESDAY AFTERNOON

Mardi Gras Ballroom Salon D - 12:00 PM-5:30 PM

12:00 PM Welcoming Remarks
12:05 PM Message from Sponsors - Bayer
12:10 PM Message from Sponsors - BASF/Fibermax/Stoneville
12:15 PM Message from Sponsors - Corteva/Phytogen
12:20 PM Message from Sponsors - FMC
12:25 PM Message from Sponsors - Syngenta
12:35 PM US Cotton Trust Protocol
   Gary Adams, National Cotton Council, Cordova, TN

1:05 PM Precision Ag: New Technologies
   Steve Young, John Deere, Ankeny, IA
   Ryan Moore, M&M Ag Consulting, Little Rock, AR
   Francis Deville, Bayer, Saint Louis, MO

2:05 PM New Technologies in Weed Science
   Andrew Conner, BASF Corporation, Washington, DC
   Ryan Locke, FMC, Philadelphia, PA
   Drake Copeland, FMC, Philadelphia, PA
   Eric Castner, FMC, Pauls Valley, OK

2:30 PM Supply Chain Status for 2023 (Fertilizer and Chemistries)
   John Campbell, Southern Crop Production Association, Dawson, GA
   Toby Hlavinka, American Plant Food Corporation, Galena Park, TX

3:00 PM Break

3:30 PM Pesticides and Endangered Species Act
   Jack Royal, Royal's Ag Consulting Company, Leary GA
   Rogers Leonard, Integrated Crop Consulting, St. Joesph, LA

4:30 PM Bt Traits and Expression, Pest Control, and Climate
   Dominic Reisig, North Carolina State University, Plymouth, NC
   Tyler B Towles, LSU AgCenter, Winnsboro, LA
Cotton Agronomy, Physiology & Soil Conference

COTTON AGRONOMY, PHYSIOLOGY & SOIL
WEDNESDAY EARLY MORNING

Galerie 5 - 8:00 AM-10:00 AM

8:00 AM  Cotton Irrigation Scheduling Using Agroecosystem Models and Soil Water Content Data
Kelly R. Thorp, USDA-ARS, Maricopa, AZ

8:15 AM  Optimizing Fertigation Strategies in Texas High Plains Cotton
Katie L. Lewis, Texas A&M AgriLife Research and Extension Center, Lubbock, TX, Murilo Maeda, Texas A & M AgriLife Research, Lubbock, TX and Glen Ritchie, Department of Plant & Soil Science, Texas Tech University, Lubbock, TX

8:30 AM  Cover Cropping to Save Irrigation Water
Carson Roberts1, Drew Gholson2, Martin Locke3 and Dave Spencer1, (1) Mississippi State University, Stoneville, MS, (2)USDA-ARS, Oxford, MS, (3) Mississippi State University, Mississippi State, MS

8:45 AM  Soil Water Dynamics in Semi-Arid Cotton Conservation Systems
Christopher Cobos1, Joseph Alan Burke1, J. Wayne Keeling2 and Katie L. Lewis1, (1)Texas A&M AgriLife Research, Lubbock, TX, (2)Texas A&M AgriLife Research Center, Lubbock, TX, (3)Texas A&M AgriLife Research and Extension Center, Lubbock, TX

9:00 AM  Development of an UAS-Based System to Improve Irrigation Water Management in Cotton
Murilo Maeda1, Juan Landivar2, Craig Bednarz3, Mahendra Bhandari2, Paxton Payton4, James R. Mahan5, Robert J. Lascano6, Tim Goebel3, Avay Risal1 and Nicholas Duffield7, (1)Texas A&M AgriLife Extension, Lubbock, TX, (2)Texas A&M AgriLife Research, Corpus Christi, TX, (3)Texas A&M AgriLife Research and West Texas A&M University, Canyon, TX, (4)Goanna Ag, Goondiwindi, Australia, (5)Private Consultant, Lubbock, TX, (6)USDA-ARS, Lubbock, TX, (7)Texas A&M Institute of Data Science, College Station, TX

9:15 AM  Actual Evapotranspiration, Fiber Yield and Grass-Reference Crop Coefficients of Cotton Under Different Irrigation Technologies in Western Kansas
Jonathan P Aguilar, Kansas State University, Garden City, KS, Komlan Aguilar, K-State, Garden City, KS, Aleksey P Aguilar, Kansas State University, Manhattan, KS and Koffi Djaman, New Mexico State University, Farmington, NM

9:30 AM  Cotton Water Management and Cultivars Impact
Avat Shekoofa, Kurt Wedegaertner, Jasmine Strickland and Kendall Sheldon, University of Tennessee, Jackson, TN

9:45 AM  Short Versus Long-Season Production: Water Use, Nitrogen Uptake
Robert B Hutmacher, University of California Cooperative Extension, Davis, CA and Jorge A. Angeles, University of California, Davis, CA

COTTON AGRONOMY, PHYSIOLOGY & SOILS
WEDNESDAY EARLY MORNING
MS STUDENT COMPETITION

Galerie 6 - 8:00 AM-10:00 AM
8:00 AM  Biomass Accumulation and Nutrient Uptake in an Irrigated System in Eastern Arkansas
Carrie Ann Followell, Trenton L. Roberts, Kyle A Hoegenauer, Carrie C Ortel, Alden D Smartt, Clay Kirkpatrick and Gustavo Henrique Bessa de Lima, University of Arkansas, Fayetteville, AR

8:15 AM  Evaluating Wide Row Production Systems in Georgia
Caitlyn B Lawton, John L. Snider, Phillip Roberts, Yangxuan Liu, Peng Chee and Lavesta C. Hand, University of Georgia, Tifton, GA

8:30 AM  Identifying Reniform Nematode Stress in Cotton Using Remote Technology
Morgan N McCulloch, Texas A&M University, San Angelo, TX, Reagan L. Noland, Texas A&M Agrilife Extension Service, San Angelo, TX, Benjamin M. McKnight, Texas A&M AgriLife Extension Service, College Station, TX and Thomas Isakeit, Texas A&M University, College Station, TX

8:45 AM  Evaluating the Impact of Row Arrangement and Variety on Yield, Yield Components, and Fiber Quality in Georgia Cotton
Jordon Montana Hall, Caitlyn B Lawton, John L. Snider, Phillip Roberts and Lavesta C. Hand, University of Georgia, Tifton, GA

9:00 AM  On-Farm Evaluation of Seeding Rate By Management Zone to Manage within-Field Cotton Growth and Yield Spatial Variability in Georgia
Matthew W Tucker¹, Simerjeet Virk¹, Jeremy M. Kichler², Curt Majeski³ and Lavesta C. Hand¹, (1)University of Georgia, Tifton, GA, (2)University of Georgia Cooperative Extension, Moultrie, GA, (3)JCM Crop Consulting, Leesburg, GA

9:15 AM  A Fresh Look at Cotton Irrigation
Brenna A Cannon¹, Jason Warren¹, Sumit Sharma² and Seth A. Byrd³, (1) Oklahoma State University, Stillwater, OK, (2)Oklahoma State University, Goodwell, OK

9:30 AM  Crop Rotation Effects on Soil Properties and Cotton (Gossypium hirsutum) Yield in Semi-Arid Texas
Rebekah A Ortiz, Texas A&M AgriLife Extension, Lubbock, TX, Texas Tech University, Lubbock, TX, Calvin Trostle, Texas A&M AgriLife Extension, Lubbock, TX, Katie L. Lewis, Texas A&M AgriLife Research and Extension Center, Lubbock, TX and Glen Ritchie, Department of Plant & Soil Science, Texas Tech University, Lubbock, TX

9:45 AM  Greenhouse Gas Emissions Following Manure Application in Organic Cotton
Nicholas F Boogades, Texas A&M AgriLife Research-Lubbock, Lubbock, TX

COTTON AGRONOMY, PHYSIOLOGY & SOILS
WEDNESDAY LATE MORNING
Galerie 5 - 10:30 AM-12:00 PM

10:30 AM  Benefits of Brassica carinata As a Double Crop for Cotton Rotations
Eric D Billman and B. Todd Campbell, USDA-ARS, Florence, SC

10:45 AM  Influence of Cover Crops on Potassium Uptake in the Southeastern Cotton Belt
Brian K. Prieralis¹, Eli B. Hobbs¹, Darrin M. Dodds², Angus Catchot², Brendan Zurweller² and Hunter Perry³, (1)Mississippi State University, Starkville, MS, (2)Mississippi State University, Mississippi State, MS, (3)Corteva Agriscience, Leland, MS
11:00 AM Second Year Results on the Effects of Cotton Stalk Management and Cover Crop Use on Soil Properties and CLRDV Incidence
Samuel A Frazier1, Steve M Brown1, Kipling S. Balkcom2 and Alana Lynn Jacobson1, (1)Auburn University, Auburn University, AL, (2)USDA-ARS, Auburn, AL, (3)Auburn University, Auburn, AL

11:15 AM Cover Crops and Nitrogen Effects on Inorganic Nitrogen and Cotton Yield on the Texas High Plains
Amee Bumgardner, Texas Tech University, Lubbock, TX, Katie L. Lewis, Texas A&M AgriLife Research and Extension Center, Lubbock, TX, Hunter Frame, Virginia Polytechnic Institute & State University, Blacksburg, VA and Bright K Ofori, Tidewater Agricultural Research & Extension Center, Suffolk, VA

11:30 AM Feasibility of Cover Crops in Dryland Systems of the Texas Rolling Plains
Paul DeLaune1, Emi Kimura2, Katie L. Lewis3 and Srinivasulu Ale1, (1)Texas A&M AgriLife Research, Vernon, TX, (2)Texas A&M AgriLife Extension Service, Vernon, TX, (3)Texas A&M AgriLife Research and Extension Center, Lubbock, TX

11:45 AM Nitrogen Fertilization to Maintain Cotton Production Following Cover Crop Use in Semi-Arid West Texas
Joseph Alan Burke1, Katie L. Lewis3, J. Wayne Keeling1, Will Keeling4 and Donna McCallister1, (1)Texas A&M AgriLife Research, Lubbock, TX, (2)Texas A&M AgriLife Research and Extension Center, Lubbock, TX, (3)Texas A&M AgriLife Research Center, Lubbock, TX, (4)Texas A&M AgriLife Extension, Lubbock, TX

COTTON AGRONOMY, PHYSIOLOGY & SOILS
WEDNESDAY LATE MORNING
MS AND PHD STUDENT COMPETITION
Galerie 6 - 10:30 AM-12:00 PM

10:30 AM Utilizing Precision Agriculture to Improve Sustainability and Reduce Input Costs through Variable Rate Seeding in Cotton Production
Kyle Smith1, Michael T. Plumblee2, Kendall R. Kirk2, Jeremy Greene1 and John Mueller2, (1)Clemson University Edisto REC, Blackville, SC, (2)Clemson University, Blackville, SC

10:45 AM The Effect of Plant Growth Management on Cotton Susceptibility to Drought during the Flowering and Boll Filling Stages

11:00 AM Pilot Study to Determine Growth Characteristics of Cotton Plants Applied with Amino Acid-Based Biostimulant
Matthew Starr, NC State, Raleigh, NC and Lori Unruh-Snyder, NC State, Zebulon, NC

11:15 AM Determining the Mechanistic Basis for N Deficiency-Induced Photosynthetic Inhibition in Field-Grown Cotton
Ved Parkash, John L. Snider, Henry Yabbey Sintim, Lavesta C. Hand, Gurpreet Virk and Amrit Pokhrel, University of Georgia, Tifton, GA

11:30 AM Cotton Response to Nitrogen Application and Planting Method
Godfred Ankomah1, Henry Yabbey Sintim2 and Solomon Amissah1, (1) University of Georgia, Tifton Campus, Tifton, GA, (2)University of Georgia, Tifton, GA
1:00 PM  In Vitro Evaluation of Ammonia Volatilization and Nitrogen Balance from Surface-Applied Urea-Based Fertilizers  
Nutifafa Adotey, University of Tennessee, Jackson, TN

1:15 PM  Genotypic and Environmental Contributions to Lint Yield, Yield Components, and Fiber Quality in Upland Cotton  
Gurpreet Virk¹, John L. Snider¹ and Fred M. Bourland², (1)University of Georgia, Tifton, GA, (2)University of Arkansas-NEREC, Keiser, AR

1:30 PM  Are There Better Indicators for Planting Seed Quality Than Warm and Cool Germination?  
Lavesta C. Hand¹, Gaylon Morgan², Murilo Maeda³, Lori Unruh-Snyder⁴, Guy D. Collins⁵, Keith L. Edmisten⁶, John L. Snider⁷, Steve M Brown⁸, Bradley R Wilson⁹, Matt Foster¹⁰, Benjamin M. McKnight¹¹, Brian K. Perialisi¹², Tyson B Raper¹³, Hunter Frame¹⁴, Michael A. Jones¹⁵, Randy Norton¹⁶, David L. Wright¹⁷ and Sheeja George¹⁶, (1)University of Georgia, Tifton, GA, (2) Cotton Incorporated, Cary, NC, (3)Texas A&M AgLife Extension, Lubbock, TX, (4),(5)NC State, Zebulon, NC, (6)North Carolina State University, Raleigh, NC, (7)Auburn University, Auburn University, AL, (8)University of Missouri, Portageville, MO, (9)LSU AgCenter, St. Joseph, LA, (10)Texas A&M AgLife Extension Service, College Station, TX, (11)Mississippi State University, Starkville, MS, (12)University of Tennessee, Jackson, TN, (13)Virginia Polytechnic Institute & State University, Blacksburg, VA, (14)University of Arizona, Safford, AZ, (15)University of Florida, Quincy, FL

1:45 PM  Impact of Row Configuration and Planting Population on Cotton Development, Fruit Distribution, Yield, and Fiber Quality  
William Joseph Rutland¹, Brian K. Perialisi¹, Darrin M. Dodds², Whitney Crow³, Justin McCoy⁴, John Wesley Lowe⁵, Bradley Norris⁶, Eli B. Hobbs² and Tyler S Soignier¹, (1)Mississippi State University, Starkville, MS, (2)Mississippi State University, Stoneville, MS, (3)Mississippi State University, Verona, MS

2:00 PM  Evaluation of Cotton Nitrogen Management Strategies with the DSSAT CSM Cropgro-Cotton Model  
Shelby Sangster¹, Arianna Toffanin¹, Kenneth Boote³, Matthew Gruver¹, Calvin Perry⁴, Bobby J. Washington⁵ and George Vellidis¹, (1)University of Georgia, Tifton, GA, (2)University of Padova, Legnaro, Italy, (3)University of Florida, Gainesville, FL, (4)Superintendent, Stripling Irrigation Research Park, University of Georgia, Camilla, GA, (5)University of Georgia, Camilla, GA

2:15 PM  Evaluation of Biohold (STO-1106) to Reduce Heat Stress Related Loss of Cotton Fruiting Structures  
Michael D. Rethwisch¹, Kassandra W. Allan¹, Aaron Palmer² and Grant Chaffin³, (1)University of California Cooperative Extension, Blythe, CA, (2)Bryce Farms, Blythe, CA, (3)Chaffin Farms, Blythe, CA

2:30 PM  Effects of Elevated Crop Canopy Temperatures on Cotton Production in the Low Deserts of Arizona.  
Randall Norton¹, Blase Evancho² and Kaleb Bryce¹, (1)The University of Arizona, Safford, AZ, (2)PGH, Cochise, AZ
2:45 PM  Evaluation of Ten Egyptian Cotton Varieties and Experimental Lines for Yield, Quality and Bacterial Blight Resistance
Maria Abdalla, Agricultural Research Corporation, Wad medani, Sudan

3:00 PM  Digital Twins Models for in-Season Cotton Management and Marketing
Juan Landivar, Agrilife Research Center Texas A&M, Corpus Christi, TX, Mahendra Bhandari, Texas A&M AgriLife-Research, Corpus Christi, TX, Jinha Jung, Purdue University, West Lafayette, IN and Murilo Maeda, Texas A&M AgriLife Extension, Lubbock, TX

COTTON AGRONOMY, PHYSIOLOGY & SOILS
WEDNESDAY EARLY AFTERNOON
PHD STUDENT COMPETITION
Galerie 6 - 1:00 PM-3:15 PM

1:00 PM  Evaluation of Subsurface Drainage in a Cotton Production System
Tyler S Soignier¹, Brian K. Perialisi², Darrin M. Dodds², Jason Krutz³, Dave Spencer⁴, Whitney Crow⁴, William Joseph Rutland⁵, Eli B. Hobbs⁶ and Bradley Norris⁷, (1)Mississippi State University, Starkville, MS, (2)Mississippi State University, Mississippi State, MS, (3)Mississippi State University, Stoneville, MS

1:15 PM  Efficacy of Cotton Defoliation and Droplet Deposition Applied By Spray Drone and Airplane
Livia Ianhez Pereira, Steve Li, Ryan Langemeier and Justin McCaghren, Auburn University, Auburn, AL

1:30 PM  Effect of Planting Date, Seeding Rate, and Seed Size on Cotton Growth and Yield in South Carolina
Sarah K. Holladay, (1)Clemson University, Florence, SC, (2)Clemson University, Blackville, SC

1:45 PM  Impacts of Late Season Low Temperatures on Cotton (Gossypium hirsutum) Production
Brooke E Shumate, Texas A&M AgriLife, Lubbock, TX, Murilo Maeda, Texas A&M AgriLife Extension, Lubbock, TX, Brendan Kelly, Texas A&M AgriLife Research, Lubbock, TX and Jourdan M. Bell, Texas A&M AgriLife, Amarillo, TX

2:00 PM  Photosynthetic Thermostolerance in Diverse Cotton Genotypes
Navneet Kaur, John L. Snider¹, Andrew Paterson², Gurpreet Virk¹ and Ved Parkash¹, (1)University of Georgia, Tifton, GA, (2)College of Agricultural and Environmental Sciences, The University of Georgia, Athens, GA

2:15 PM  Estimation of Canopy Nitrogen Content in Dryland Cotton from Sentinel-2 Images
Rupak Karn, Wenxuan Guo², Oluwatola I Adedeji¹, Katie L. Lewis³, Sanjit Deb¹, Glen Ritchie⁴ and Chenggang Wang⁵, (1)Texas Tech University, Lubbock, TX, (2)Department of Plant and Soil Science, Texas Tech University, Lubbock, TX, (3)Texas A&M AgriLife Research and Extension Center, Lubbock, TX, (4)Department of Plant & Soil Science, Texas Tech University, Lubbock, TX, (5)Department of Agricultural and Applied Economics, Texas Tech University, Lubbock, TX

2:30 PM  Interactive Effects of Different Plant Growth Regulator and Nutrient Rates on Cotton Yield and Fiber Quality
Solomon Amissah, Henry Yabbey Sintim and Godfred Ankamoh, University of Georgia, Tifton, GA

2:45 PM  Understanding the Changes in Cotton Biomass, Lint, and Yield Components over the Past 70 Years
Jagdeep Singh, Audrey V. Gamble, Steve M Brown, Jenny Koebernick
and Alvaro Sanz-Saez1, (1)Auburn University, Auburn, AL, (2)Auburn University, Auburn University, AL

COTTON AGRONOMY, PHYSIOLOGY & SOILS
WEDNESDAY LATE AFTERNOON
Galerie 5 - 4:00 PM-5:15 PM

4:00 PM Multi-Environment Assessment of Cultivar Variation in Extrafloral Nectar Production in Cotton
John L. Snider1, Akanksha Sehgal2, Gurpreet Kaur2, Gurbir Singh2, Haydee E Laza2, Esmaeil Amiri2, Wenxuan Guo2, Gurpreet Virk2, Daryl Chastain2, Ved Parkash1, Navneet Kaur1 and Devendra Prasad Chalise1, (1)University of Georgia, Tifton, GA, (2)Mississippi State University, Stoneville, MS, (3)Texas Tech, Lubbock, TX, (4)Department of Plant and Soil Science, Texas Tech University, Lubbock, TX, (5)USDA-National Center for Alluvial Aquifer Research, Leland, MS

4:15 PM Nitrogen Calibration Strip Based Site-Specific N Management in Cotton Using Soil Mapping and Mid-Season Proximal and Remote Sensing
Eeusha Nafi1, Theodor L. Stansly1, Sudeep S. Sidhu2, Sheeja George1, Ian Small1 and David L. Wright1, (1)University of Florida, Quincy, FL, (2)University of Florida, Live Oak, FL

4:30 PM In-Field Performance Evaluation of Precision Planting Smart-Depth at Varying Seeding Depths in Cotton
Simerjeet Virk1, Mathew Tucker1 and Jeremy M. Kichler2, (1)University of Georgia, Tifton, GA, (2)University of Georgia Cooperative Extension, Moultrie, GA

4:45 PM Lessons from the Introgression of G. hirsutum RNAi O-Methyl Transferase Construct into G. barbadense
Tanya A Wagner1, Lorraine Puckhaber1, Alois A. Bell2, Clint W Magill3 and Jinggao Liu2, (1)USDA-ARS-ICCDRU, College Station, TX, (2)USDA-ARS ICCDRU, College Station, TX, (3)Texas A&M University, College Station, TX

5:00 PM Planting Date Critical for Rye in a Conservation Tillage Peanut Cotton Rotation
Kipling S. Balkcom, USDA-ARS, Auburn, AL, Quentin D. Read, USDA-ARS, Raleigh, NC and Audrey V. Gamble, Auburn University, Auburn, AL

COTTON AGRONOMY & PHYSIOLOGY BUSINESS MEETING
Galerie 5 - 5:15 PM-7:00 PM

Cotton Consultants Conference

CONSULTANTS CONFERENCE GENERAL SESSION
WEDNESDAY MORNING
Balconies J & K - 8:00 AM-12:00 PM

8:00 AM Regulatory Update
Don Parker, National Cotton Council, Cordova, TN
9:00 AM Thryvon Panel
Wes Briggs, Briggs Crop Protection, Inc., Bainbridge, GA
Hank Jones, RHJ Ag Services, LLC., Winnnsboro, LA
Tyler Hydrick, Ag Assistants, LLC., Jonesboro, AR
Rogers Leonard, Integrated Crop Consulting, St. Joseph, LA
Eddie Lomax, Lomax Ag Consulting Inc., Steele, MO
Timothy Dabbert, Bayer Crop Science, Creve Couer, MO

10:00 AM Break

10:30 AM Weather Risk in US Cotton Production
Eric Snodgrass, Nutrien Ag Solutions, Champaign, IL

11:00 AM Weed Control Issues Panel
Donnie K. Miller, LSU Ag Center, St. Joseph, LA
Scott Nolte, Texas A&M University, College Station, TX

Wednesday, January 11, 2023

Cotton Disease Council

COTTON DISEASE COUNCIL
STUDENT PAPER COMPETITION

Preservation Hall Studio 8 - 1:00 PM-3:30 PM

1:00 PM Investigating the Interaction between Nutrient Stress and Cotton Leafroll Dwarf Virus Infection and the Effects on Yield Loss and Symptoms
Kelly Schlarbaum¹, Kassie Conner¹, Audrey V. Gamble³, Kipling S. Balkcom², David Fang³ and Alana Lynn Jacobson¹, (1)Auburn University, Auburn, AL, (2)USDA-ARS, Auburn, AL, (3)USDA-ARS, Southern Regional Research Center, New Orleans, LA

1:15 PM Visual Virus: Cotton Leafroll Dwarf Virus Clone Containing GFP Can Be Visually Tracked during Infection.
Wilson Clark, Kaylee Hirsch and Kathleen Martin, Auburn University, Auburn, AL

1:30 PM Dynamics on Collection of Ramularia areola
Elias Zuchelli, Jackson P Adcock, Shelia Kay Little and Heather M Kelly, University of Tennessee, Jackson, TN

1:45 PM Relative in-Field Susceptibility of Popular Cotton Varieties to Common Plant-Parasitic Nematodes in South Carolina
Bennett C Harrelson, Michael T. Plumblee, John Mueller and Saleh M. Ahmed, Clemson University, Blackville, SC

2:00 PM Exposure to Parasitic Nematodes Modifies Cotton Growth and Defense across Different Soil Microbial Communities
Morgan N Thompson¹, Adriane N Fifield¹, Charles P-C. Suh² and Anjel M Helms¹, (1)Texas A&M University, College Station, TX, (2)USDA-ARS ICCDRU, College Station, TX

2:15 PM Influence of Carinata Winter Cropping on Reniform Nematode
Rebeca Sandoval-Ruiz, University of Florida, Gainesville, FL

2:30 PM Winter Cover Crop, Biological Control, and Meloidogyne incognita Effects on Sweetpotato Yield and Quality
Claire Schloemer¹, Kathy S Lawrence¹, Scott Graham¹, Koon-Hui Wang¹ and Brent Sipes¹, (1)Auburn University, Auburn, AL, (2)Auburn University, Auburn University, AL, (3)University of Hawaii, Honolulu, HI
2:45 PM  Impact of Cover Crop Management Decisions on Select Soil Biota
Shelly Neill Pate1, Heather M Kelly1 and Lesley A Schumacher2, (1)University of Tennessee, Jackson, TN, (2)USDA, Jackson, TN

3:00 PM  Assessment of Bt and Non-Bt Corn Hybrids on Mycotoxin Production
Autumn A. McLaughlin, Heather M Kelly, Sebe Brown and Scott D. Stewart, University of Tennessee, Jackson, TN

3:15 PM  Soybean Yield Effects of Fungicide Application in Drought Stressed Environments
Jackson P Adcock, Heather M Kelly and Avat Shekoofa, University of Tennessee, Jackson, TN

COTTON DISEASE COUNCIL
WEDNESDAY LATE AFTERNOON

Preservation Hall Studio 8 - 4:00 PM-5:00 PM

4:00 PM  Observations on Cotton Seedling Diseases in Mississippi during 2021 and 2022
Thomas W. Allen, Mississippi State University, Delta Research and Extension Center, Stoneville, MS, Alejandro M Jimenez Madrid, Mississippi State University, Stoneville, MS and Tessie Wilkerson, Mississippi State University-Delta Research and Extension Center, Stoneville, MS

4:15 PM  Distribution of Areolate Mildew in Mississippi during 2022
Alejandra M Jimenez Madrid1, Tessie Wilkerson1 and Tom Allen1, (1) Mississippi State University, Stoneville, MS, (2)Mississippi State University-Delta Research and Extension Center, Stoneville, MS

4:30 PM  Areolate Mildew in Tennessee Cotton
Heather M Kelly, Elias Zuchelli, Kendall Sheldon and Avat Shekoofa, University of Tennessee, Jackson, TN

4:45 PM  Evaluating the Impact of Fungicide Application Timings on Areolate Mildew and Target Spot on Cotton in Alabama
Amanda Strayer-Scherer1, Katherine Burch1 and Hunter Mote2, (1)Auburn University, Auburn, AL, (2)Auburn University, Shorter, AL

COTTON DISEASE COUNCIL BUSINESS MEETING
Preservation Hall Studio 8 - 5:00 PM-7:00 PM

Cotton Economics and Marketing Conference

COTTON ECONOMIC OUTLOOK SYMPOSIUM
Galerie 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 Cotton Policy Update
Bart Fischer, Texas A&M University, College Station, TX

11:05 AM World Cotton Outlook
Jarral Neeper, Trucott, Bakersfield, CA and O. A. Cleveland, Mississippi State University, Mississippi State, MS
11:30 AM U.S. Cotton Export Market and Logistics
Buddy Allen, ACSA, Memphis, TN

COTTON ECONOMICS AND MARKETING
WEDNESDAY EARLY AFTERNOON
Galerie 3 - 1:30 PM-3:15 PM

1:30 PM Estimating Cotton End-Use
Jon Devine, Cotton Incorporated, Cary, NC

1:45 PM Spot Market Integration and Price Transmission Among Major Cotton Trading Countries
Susmitha Kalli¹, Gopinath Munisamy¹, Yangxuan Liu² and Berna Karali¹, (1) University of Georgia, Athens, GA, (2)University of Georgia, Tifton, GA

2:00 PM Analysis of Cotton Ginning Costs By Technology
Sushil C Sapkota¹, Ram N Acharya¹, Derek P. Whitelock², Carlos B. Armijo² and Jaya Shankar Tumuluru², (1)New Mexico State University, Las Cruces, NM, (2)USDA-ARS Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM

2:15 PM Managerial Challenges in Cotton Cooperative Gins: An Analysis of Trust and Social Capital
Frank Seo and Darren Hudson, Texas Tech University, Lubbock, TX

2:30 PM Economic Analysis on the Effect of Cropping System and Irrigation on Verticillium Wilt
Oluwaseun Ooduniyi, Texas Tech University, Lubbock, TX, Donna McCallister, Texas Tech University, Lubbock, TX, Texas A&M AgriLife Research, Lubbock, TX, Will Keeling, Texas A&M AgriLife Extension, Lubbock, TX and Terry Wheeler, Texas A&M AgriLife Research, Lubbock, TX

COTTON ECONOMICS AND MARKETING
WEDNESDAY LATE AFTERNOON
Galerie 3 - 4:00 PM-5:00 PM

4:00 PM Estimating Yield Response to Plant and Harvest Timing Using Observational Field-Level Data
Kaitlyn Urban¹, Terry W Griffin¹ and Bill Robertson², (1)Kansas State University, Manhattan, KS, (2)University of Arkansas System Division of Ag, Newport, AR

4:15 PM Revenue Potential from Multiple-Pass Versus Single-Pass Cotton Harvest Systems
Terry W Griffin and Elizabeth A. Yeager, Kansas State University, Manhattan, KS

4:30 PM The Regional Economic Impact of Crop Insurance on the Texas High Plains in 2022
Rachel Wade and Darren Hudson, Texas Tech University, Lubbock, TX

COTTON ECONOMICS AND MARKETING POSTERS
Galerie 3 - 1:30 PM-5:00 PM

1. Trends in Crop Insurance Loss Ratios for Cotton
Michael A. Deliberto and Brian Hilbun, LSU AgCenter, Baton Rouge, LA

2. Utilizing the K-State Cotton Harvest Decision Tool to Make on Farm Decision: A Static Tour of the Dashboard
Kaitlyn Urban, Kansas State University, Manhattan, KS
William Keeling, Texas A&M AgriLife Extension, Lubbock, TX, Katie L. Lewis, Texas A&M AgriLife Research and Extension Center, Lubbock, TX, Paul DeLaune, Texas A&M AgriLife Research, Vernon, TX, Emi Kimura, Texas A&M AgriLife Extension Service, Vernon, TX and Terry Gentry, Texas A&M University, College Station, TX

Cotton Engineering-Systems Conference

COTTON ENGINEERING-SYSTEMS
WEDNESDAY EARLY MORNING
Preservation Hall Studio 4 - 8:00 AM-9:30 AM

8:00 AM Changes in Quality of Cottonseed from Post-Harvest Processing
Janie Moore, Texas A&M, College Station, TX

8:15 AM In-Season Cotton Growth Forecasting with Neural Network Models
Krishna Gadepally¹, Sambandh Dhal¹, Mahendra Bhandari², Kevin Nowka¹ and Juan Landivar³, (1)Texas A&M, College Station, TX, (2)Texas A&M AgriLife Research, Corpus Christi, TX

8:30 AM Assessment of Data Clustering Algorithms Applied to Associate Multi-Environment Cotton Cultivar Trials
Raul Sebastian Martinez¹, Robert G. Hardin IV¹, Edward M. Barnes², Jason K. Ward², Wesley M Porter³, Michael T. Plumblee⁴ and John D. Wanjura⁵, (1)Texas A&M University, College Station, TX, (2)Cotton Incorporated, Cary, NC, (3)North Carolina State University, Raleigh, NC, (4)University of Georgia, Tifton, GA, (5)Clemson University, Blackville, SC, (6)USDA-ARS Cotton Production and Processing Research Unit, Lubbock, TX

8:45 AM Application of DSSAT Model to Simulate Crop Yield and Water Use Efficiency in Different Cropping Systems in the Southern High Plains of Texas
Bishnu P Ghimire, Texas Tech University, Lubbock, TX and Wenxuan Guo, Department of Plant and Soil Science, Texas Tech University, Lubbock, TX

9:00 AM Codifying Workflows for Cotton Data Organization, Management, and Curation: The Maricopa Example
Kelly R. Thorp, USDA-ARS, Maricopa, AZ

9:15 AM Cotton Irrigation Scheduling: Which Method Is a Best Fit? A Continued Study, Year 3
Wesley M Porter¹, Calvin Perry² and John L. Snider¹, (1)University of Georgia, Tifton, GA, (2)Superintendent, Stripling Irrigation Research Park, University of Georgia, Camilla, GA

COTTON ENGINEERING-SYSTEMS
WEDNESDAY LATE MORNING
Preservation Hall Studio 4 - 10:00 AM-11:45 AM

10:00 AM Monitoring Real-Time Weather Data on a Sprayer to Prevent Off-Target Herbicide Application
Myles Moore, Robert G. Hardin and Scott Nolte, Texas A&M University, College Station, TX
10:15 AM Camera System for Plastic Detection on the Cotton Harvester
Cody Wells, Md Zafar Iqbal and Robert G. Hardin, Texas A&M University, College Station, TX

10:30 AM Robotic Real-Time Weed Detection and Removal Using Deep Learning and Laser
Canicius Mwitta and Glen C. Rains, University of Georgia, Tifton, GA

10:45 AM Developing a Prototype of Cost-Effective Artificial Intelligence System for Real-Time Cotton Weed Detection
Haifeng Wang, Mississippi State University, Mississippi State, MS

11:00 AM Utilization of Machine Learning for Palmer Amaranth Identification for Understanding Effects on Cotton Fiber Quality
Luke M Fuhrer1, Wesley M Porter1, Joby Czarnecki2, A. Stanley Culpepper1, Taylor M Randell1, Joe W. Thomas3 and Christopher D. Delhom4, (1)University of Georgia, Tifton, GA, (2)Mississippi State University, Starkville, MS, (3)USDA ARS, Stoneville, MS, (4)USDA-ARS Southern Regional Research Center, New Orleans, LA

11:15 AM Spray Technology and Application Considerations for Site-Specific Plant Growth and Weed Management in Cotton
Simerjeet Virk, Ravi Meena, Mathew Tucker and Glen C. Rains, University of Georgia, Tifton, GA

11:30 AM Finite Element Analysis on the Designed Unit of Cotton Harvesting Autonomous Platform (CHAP2.0)
Mohd Fazly Mail1, Joe Mari J. Maja1, Gilbert A. Miller1, Michael W. Marshall2, Matthew Cutulle3 and Edward M. Barnes4, (1)Clemson University, Blackville, SC, (2)Mississippi State University Agricultural & Biological Engineering, Mississippi State, MS, (3)Clemson University - Edisto REC, Blackville, SC, (4)Mississippi State University, Starkville, MS

11:45 AM Impact of Soil Sampling Grid Size on Efficacy and Economics of Site-Specific Nutrient Application in Cotton
Matthew W Tucker1, Simerjeet Virk1, Glendon Harris1, Matthew R Levi2 and Jason Lessl3, (1)University of Georgia, Tifton, GA, (2)University of Georgia, Athens, GA, (3)AESL, Athens, GA

1:00 PM Leveraging 3D Deep Learning and Data Science for Cotton Plant Architectural Trait Characterization
Changying Li, College of Engineering, The University of Georgia, Athens, GA and Farah Saeed, University of Georgia, Athens, GA

1:15 PM Implementation of a Vision-Based Detection and Removal System for Controlling Weeds in Cotton Production Systems
Grace McCormick Friday1, John Wesley Lovel1, Gary Daniel Chesser, Jr.2 and Brian K. Piallisi3, (1)Mississippi State University, Mississippi State, MS, (2)Mississippi State University Agricultural & Biological Engineering, Mississippi State, MS, (3)Mississippi State University, Starkville, MS

1:30 PM Impact of Soil Sampling Grid Size on Efficacy and Economics of Site-Specific Nutrient Application in Cotton
Matthew W Tucker1, Simerjeet Virk1, Glendon Harris1, Matthew R Levi2 and Jason Lessl3, (1)University of Georgia, Tifton, GA, (2)University of Georgia, Athens, GA, (3)AESL, Athens, GA

1:45 PM Identification of Cotton Fields Using Sentinel-2 Satellite Imagery and Machine Learning for Advancing Boll Weevil Eradication
Chenghai Yang, USDA-ARS, College Station, TX and Charles P. C. Suh, USDA-ARS ICCDRCU, College Station, TX

2:00 PM A New Cotton Defoliation Sprayer Using Unmanned Ground Vehicle
Jyoti Neupane1, Joe Mari J. Maja1, Gilbert A. Miller1, Michael W. Marshall1, Matthew Cutulle3, Jun Luo4 and Edward M. Barnes5, (1)Clemson University,

2:15 PM  Effect of Schlagel Closing Wheels upon Cotton Production
Sawyer Przilas¹, Tyson Feagler², Marshall Tolleson², Joshua Ray Johnson¹, Alexis Schultz³, Wayne Smith¹ and Steve Hague¹, (1)Texas A&M University, College Station, TX, (2)Schalgel Manufacturing, Torrington, WY, (3)Texas A&M AgriLife Research, College Station, TX

2:30 PM  Development of a Moisture and Temperature Monitoring System for Round Cotton Modules
Md Zafar Iqbal¹, Robert G. Hardin¹, Jason K. Ward², John D. Wanjura³ and Edward M. Barnes⁴, (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, (4)Cotton Incorporated, Cary, NC

2:45 PM  Multi-Position Round Module Moisture Sensing
Max Hooks, NC State University, Raleigh, NC, Jason K. Ward, North Carolina State University, Raleigh, NC, Robert G. Hardin, Texas A&M University, College Station, TX, John D. Wanjura, USDA-ARS Cotton Production and Processing Research Unit, Lubbock, TX and Edward M. Barnes, Cotton Incorporated, Cary, NC

3:00 PM  Evaluation of an End-Effectector Design and Quantification of Vacuum Conveying System for Robotic Cotton Harvesting
Shekhar Thapa, Glen C. Rains, Wesley M Porter and Simerjeet Virk, University of Georgia, Tifton, GA

COTTON ENGINEERING-SYSTEMS
WEDNESDAY LATE AFTERNOON

Preservation Hall Studio 4 - 4:00 PM-5:30 PM

4:00 PM  Using UAS Multispectral Imagery to Estimate Yield-Determining Physiological Parameters of Cotton
Amrit Pokhrel, Simerjeet Virk, John L. Snider, George Vellidis and Ved Parkash, University of Georgia, Tifton, GA

4:15 PM  Quality Analysis of Aerial Applications
Vinicius Velho, Perfect Flight, Ames, IA

4:30 PM  In Season Forecasting and Management Zone Identification for Cotton Crop Using Unmanned Ariel System
Pankaj Pal¹, Mahendra Bhandari², Juan Landivar¹ and Jose L Landivar², (1)Agrilife Research Center Texas A&M, Corpus Christi, TX, (2)Texas A&M AgriLife Research, Corpus Christi, TX

4:45 PM  Camera and UAV Combinations Optimization of Cotton Field Contaminant Imaging
Cody D. Blake, Sean P Donohoe, Femi P Alege and Joe W. Thomas, USDA ARS, Stoneville, MS

5:00 PM  Development of Spraying System for Cotton Defoliation Using Unmanned Ground Vehicle
Jyoti Neupane, Clemson University, Blackville, SC

5:15 PM  Should Cotton Yield Mapping Accuracy be Improved Using on-the-Go Calibration?
Simerjeet Virk¹, Mathew Tucker¹, Wesley M Porter¹ and Jeremy M. Kichler², (1)University of Georgia, Tifton, GA, (2)University of Georgia Cooperative Extension, Moultrie, GA
Cotton Ginning Conference

COTTON GINNING
WEDNESDAY EARLY AFTERNOON
Preservation Hall Studios 2 - 3 - 1:30 PM-3:15 PM

1:30 PM  2022 U.S. Cotton Quality Update
Robert L Seals, USDA-AMS, Cotton and Tobacco Program, Memphis, TN

1:45 PM  Cotton Gin Insurance Is in Turmoil; Where Do We Go from Here?
Kyle Smith, Triangle Insurance Company, Enid, OK

2:00 PM  Cotton Seed Temperature Monitoring
Michael Prachar, Tri-States Grain Conditioning, Spirit Lake, IA

2:15 PM  New Additions to the Cherokee Product Line
Michael J. Greene, Cherokee Fabrication Company Inc., Salem, AL

2:30 PM  Kelley Electric Gin Logistics Modern Bale Tracking and Data Acquisition
Charles H Knabb and Lucas N Heer, Kelley Electric, Kennett, MO

2:45 PM  Product Updates from Lummus Ag Technology - 2023
Ross D. Rutherford, Lummus Ag Technology, Lubbock, TX and Pravin J. Chaubey, Lummus Ag Technology, Savannah, GA

3:00 PM  Inline Real-Time Moisture Sensing System for Gin Cotton
Filip To1, Lucas Gay2, Joe W. Thomas3 and Sean P Donohoe1, (1)Mississippi State University, Mississippi State, MS, (2)Mississippi State University, Mississippi State, MS, Mississippi State University, Mississippi State, MS, (3) USDA ARS, Stoneville, MS

COTTON GINNING
WEDNESDAY LATE AFTERNOON
Preservation Hall Studios 2 - 3 - 3:45 PM-5:15 PM

3:45 PM  Urgent Prescription- Less Gin More Tonic
Marinus H.J van der Sluijs, Textile Technical Services, Geelong, VIC, Australia

4:00 PM  How Gins Can Maximize Bale Throughput Given Seasonality, Cotton Quality and Producer Decisions
John Gottula1, Miguel Angel Hidalgo1, Jay King1, Harrison Ashley2, Fred M. Bourland3, Derek P. Whitelock4, Robert G. Hardin5, Jaya Tumuluru6, Gregory A. Holt7, Joe W. Thomas7, John D. Wanjura8, David Blakemore9, Chris Delhom10, Jason K. Ward11 and Ed Barnes12, (1)SAS Institute, Cary, NC, (2)National Cotton Council, Cordova, TN, (3)University of Arkansas-NEREC, Keiser, AR, (4)USDA-ARS Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM, (5)Texas A&M University, College Station, TX, (6)Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM, (7)USDA-ARS Cotton Production and Processing Research Unit, Lubbock, TX, (8)USDA ARS, Stoneville, MS, (9)Blakemore Cotton & Grain, Campbell, MO, (10)USDA-ARS Southern Regional Research Center, New Orleans, LA, (11)North Carolina State University, Raleigh, NC, (12)Cotton Incorporated, Cary, NC

4:15 PM  Tama’s Proactive Actions to Minimize Plastic Contamination in Cotton
James Cundiff, Tama USA, Dubuque, IA
Cotton Improvement Conference

COTTON IMPROVEMENT
WEDNESDAY EARLY MORNING: GRADUATE STUDENT COMPETITION

Preservation Hall Studio 7 - 7:50 AM-10:00 AM

7:50 AM  Opening Remarks
Cody W Mull, BASF, Idalou, TX

8:00 AM  Investigating Cotton Seed Components for Crop Improvement
Robert A Fett and Jenny Koebernick, Auburn University, Auburn, AL

8:15 AM  Breeding Gossypium hirsutum, Cotton, for Verticillium dahliae Kleb. Resistance with an Elite Fiber Quality Profile
Reagan B Heinrich, Texas Tech University, Lubbock, TX, Jane K Dever, Texas A&M AgriLife Research and Extension Center, Lubbock, TX and Brendan Kelly, Texas A&M AgriLife Research, Lubbock, TX

8:30 AM  Evaluating 13 Experimental Lines for Yield and Vortex Yarn Performance
Marshall Tolleson, Texas A&M AgriLife Research, College Station, TX, Wayne Smith, Texas A&M University, College Station, TX, Steve Hague, Texas A&M University, College Station, TX, Eric F. Hequet, Texas Tech University, Lubbock, TX and Jake Gendron, Texas A&M University, College Station, TX

8:45 AM  Identification of QTLs Associated with FOV4 Resistance in a Bi-Parental Cross in Upland Cotton
Stephen Parriss1, Christopher Sasaki2, Don C Jones2, Jim Olvey3 and Mike Olvey3, (1)Clemson University, Clemson, SC, (2)Cotton Incorporated, Cary, NC, (3)O&A Enterprises, Maricopa, AZ

9:00 AM  Genetic Effect and Candidate Genes from G. barbadense-Sourced Qfl-Chr. 25, a QTL for Improved Fiber Length in G. hirsutum
Samantha Jo Wan1, Sameer Khanal1, Zhigang Li2, Sonika Kumar2, Nino Brown1, Pawan Kumar3, Andrew Paterson4, Neha Kothari5, Don C Jones3, Christopher Sasaki2 and Peng Chee1, (1)University of Georgia, Tifton, GA, (2)Clemson University, Clemson, SC, (3)Bayer, St. Louis, MO, (4)College of Agricultural and Environmental Sciences, The University of Georgia, Athens, GA, (5)Cotton Incorporated, Cary, NC
9:15 AM  Evaluation of Root Architecture for Improvement of Cultivated Upland Cotton (Gossypium hirsutum L.)
Bukhtaawer Talat, Samantha Jo Wan, Dalton M West and Peng Chee, University of Georgia, Tifton, GA

9:30 AM  Influence of Flower Openness on Yield and Fiber Quality Traits in Cotton
Joshua Ray Johnson¹, Steven Hague¹, Wayne Smith¹ and Mauricio Ulloa², (1)Texas A&M University, College Station, TX, (2)USDA-ARS, PA, CSRL, Plant Stress and Germplasm Development Research, Lubbock, TX

9:45 AM  Estimation of Cotton Plant Height Using UAS Technology
Oluwatola ibukun Adedeji¹, Wenxuan Guo² and Rupak Karri¹, (1)Texas Tech University, Lubbock, TX, (2)Department of Plant and Soil Science, Texas Tech University, Lubbock, TX

COTTON IMPROVEMENT
WEDNESDAY LATE MORNING

Preservation Hall Studio 7 - 10:30 AM-12:00 PM

10:30 AM Genome-Wide Association Study for Fiber Quality Traits in the Upland Cotton (Gossypium hirsutum L.)
Vasu Kuraparthi, North Carolina State University, Raleigh, NC

10:45 AM Time and Quality Impacts on Fiber and Yarn Correlations
Wayne Smith¹, Steve Hague¹, Eric F. Hequet², Kari Hugie¹ and Mitchell J. Schumann³, (1)Texas A&M University, College Station, TX, (2)Texas Tech University, Lubbock, TX, (3)Texas A&M, College Station, TX

11:00 AM Yield Component Changes over Time in the Arkansas Cotton Breeding Program
Freddie M. Bourland, University of Arkansas, Keiser, AR

11:15 AM Comparison of Fiber Quality Parameters from Laboratory Ginning Systems Used in Cotton Breeding Programs
Lori Hinze¹, Jodi Scheffler², Alison L Thompson³, Steve Hague⁴, Joshua A. Udall⁴ and Neha Kothari⁵, (1)USDA-ARS, College Station, TX, (2)USDA ARS, Stoneville, MS, (3)USDA-ARS-ALARC, Maricopa, AZ, (4)Texas A&M University, College Station, TX, (5)Cotton Incorporated, Cary, NC

11:30 AM Single-Cell Analysis of Fiber Formation in Upland Cotton
Luis Herrera-Estrella, Texas Tech University, Lubbock, TX

COTTON IMPROVEMENT
WEDNESDAY EARLY AFTERNOON

Preservation Hall Studio 7 - 1:15 PM-3:15 PM

1:15 PM A Rapid and Efficient Genetic Transformation System for Upland Cotton
Christopher Saski, Clemson University, Clemson, SC and Don C Jones, Cotton Incorporated, Cary, NC

1:30 PM Genetic Transformation of Upland Cotton with D1 Gene for Heat Tolerance
John Z. Yu¹, Aya H. Bridgelandel¹, Joshua A. Udall¹, Kent D. Chapman², Kater D. Hake³ and Susan Y. Jaconis³, (1)USDA-ARS, College Station, TX, (2)University of North Texas, Denton, TX, (3)Cotton Incorporated, Cary, NC

1:45 PM Update on Cotton Breeding for FOV-4 Resistance
Mike Olvey¹, Jim Olvey¹, Don C Jones², Christopher Saski³ and Stephen Parris⁴, (1)O&A Enterprises, Maricopa, AZ, (2)Cotton Incorporated, Cary, NC, (3)Clemson University, Clemson, SC
2:00 PM  A Private/Public Sector Partnership to Address FOV4  
Don C Jones1, Jim Olvey2, Mike Olvey3, Christopher Saski4 and Stephen Parris5, (1)Cotton Incorporated, Cary, NC, (2)O&A Enterprises, Maricopa, AZ, (3)Clemson University, Clemson, SC  

2:15 PM  Development of DNA Markers for Resistance to Fusarium Wilt Race 4 in Cotton Based on a Reliable Greenhouse Evaluation Method  
Yi Zhu1, Jinfa Zhang1, Jane K Dever2, Terry Wheeler3, Kater D. Hake4 and Kaitlyn Bissonnette5, (1)New Mexico State University, Las Cruces, NM, (2)Texas A&M AgriLife Research and Extension Center, Lubbock, TX, (3)Texas A&M AgriLife Research, Lubbock, TX, (4)Cotton Incorporated, Cary, NC, (5)Cotton Inc., Cary, NC  

2:30 PM  Identification and Genomic Characterization of Major Effect Bacterial Blight Resistance Locus (BB-13) in Upland Cotton (Gossypium hirsutum L.)  
Vasu Kuraparthy, North Carolina State University, Raleigh, NC  

2:45 PM  High Resolution Mapping and Candidate Gene Identification for B12 Conferring Resistance to Bacterial Blight Race 18 in a MAGIC Population of Upland Cotton  

3:00 PM  Evaluation of the Entire US Upland Cotton Germplasm in the GRIN Collection for Resistance to Bacterial Blight Race 18  
Jinfa Zhang1, Yi Zhu1, Janna Love2, James Frelichowski2, Terry Wheeler3, Kater D. Hake4 and Kaitlyn Bissonnette5, (1)New Mexico State University, Las Cruces, NM, (2)USDA-ARS, College Station, TX, (3)Texas A&M AgriLife Research, Lubbock, TX, (4)Cotton Incorporated, Cary, NC, (5)Cotton Inc., Cary, NC  

COTTON IMPROVEMENT  
WEDNESDAY LATE AFTERNOON  
Preservation Hall Studio 7 - 4:00 PM-5:00 PM  

4:00 PM  Progress in Breeding Populations Utilizing the Dominant Male Sterility (Ms, gene)  
Don L Keim, USDA-ARS, Leland, MS and Jodi Scheffler, USDA ARS, Stoneville, MS  

4:15 PM  Cotton Microspore Embryo Induction  
Kedong Da1, Huani Leng1, Peng Chee2, Carole Saravitz3, Hsuan Chen4 and Frank Louws5, (1)Plant transformation lab, NC State University, Raleigh, NC, (2)University of Georgia, Tifton, GA, (3)Phytotron, NC State University, Raleigh, NC, (4)Horticulture, NC State University, Raleigh, NC  

4:30 PM  Detecting Potential High-Order Epistasis with MDR Method  
Jixiang Wu1, Johnie N. Jenkins2 and Jack McCarty2, (1)South Dakota State University, Brookings, SD, (2)USDA-ARS, Mississippi State, MS  

4:45 PM  Cotton Endophyte Beauveria bassiana Impacts on Seedling Development and Yield  
Ben A Arends, JABB of the Carolinas, Pine Level, NC
Wednesday, January 11, 2023

Cotton Insect Research and Control Conference

COTTON INSECT RESEARCH & CONTROL CONFERENCE
WEDNESDAY EARLY MORNING - SESSION A

Salons A - C - 8:00 AM-10:30 AM

8:00 AM  Effects of Simulated Injury By the Tarnished Plant Bug, *Lygus lineolaris*, on Early Season Cotton Plant Morphology and Yield across the Southeastern United States


8:15 AM  Influence of Imidacloprid Seed Treatment on Thryvon Cotton

*Walker Brett Farmer*, Jeff Gore, Angus Catchot, Whitney Crow, Don Cook and Brian K. Pieralisi, (1)Mississippi State University, Starkville, MS, (2)Mississippi State University, Stoneville, MS, (3)Mississippi State University, Mississippi State, MS

8:30 AM  Impact of Simulated Tarnished Plant Bug Damage on Late Season Cotton

*Seth T Permenter*, Whitney Crow, Jeff Gore, Angus L. Catchot and Don Cook, (1)Mississippi State University, Stoneville, MS, (2)Mississippi State University, Mississippi State, MS

8:45 AM  An Overview of Early Season Tarnished Plant Bug Management in Cotton

*Michael Huoni*, Whitney Crow, Jeff Gore, Don Cook and Angus L. Catchot, (1)Mississippi State University, Stoneville, MS, (2)Mississippi State University, Mississippi State, MS

9:00 AM  Evaluation of Three Sampling Methods for Cotton Fleahopper (*Pseudatomoscelis seriatus*)

*Gabriella Marotta* and David Kerns, Texas A&M University, College Station, TX

9:15 AM  Efficacy of Selected Insecticides on Thryvon Cotton for Control of Tarnished Plant Bug

*Gage Maris*, University of Arkansas Research and Extension, Lonoke, AR

9:30 AM  Evaluation of Thryvon Technology for Control of Tarnished Plant Bugs in Cotton


9:45 AM  Effects of Water Hardness on Insecticide Performance for the Control of Tarnished Plant Bug, *Lygus lineolaris*, in Cotton

*Taylor A Davis*, Benjamin C Thrash, Nick R. Bateman, Matthew G Mann, Andrew Plummer, Taylor Ibbotson, Garrett Felts, Chase A Floyd, Caleb Rice, Trevor B Newkirk, Adam Whitfield and Zack Murray, (1)UAADA,

10:00 AM Examining Pyrethroid Resistance in Arkansas Rice Stink Bug, *Oebalus pugnax*. Populations

COTTON INSECT RESEARCH & CONTROL CONFERENCE ROUNDTABLE

Galerie 2 – 11:00 AM-12:00 PM

COTTON INSECT RESEARCH & CONTROL CONFERENCE
WEDNESDAY EARLY AFTERNOON - SESSION A

1:30 PM Evaluation of Current Virginia Peanut Cultivars, and Advanced Breeding Lines, for Southern Corn Rootworm Resistance
Elijah Hoar, Maria Balota and Sally Taylor, Virginia Tech, Suffolk, VA

1:45 PM Activity Level of NPV "Heligen" and Feeding Habits of *Helicoverpa zea* after Ingestion
Judge Fortenberry1, Angus Catchot2, Don Cook3, Whitney Crow3 and Jeff Gore1, (1)Student, Starkville, MS, (2)Mississippi State University, Mississippi State, MS, (3)Mississippi State University, Stoneville, MS

2:00 PM Thrips As a Vector of Tomato Spotted Wilt Virus in Peanuts
Claire A Cooke, Auburn University, Auburn, AL

2:15 PM Impacts of Brown Marmorated Stink Bugs on Ear Rots in Tennessee Field Corn
Alexandra N. Crowder, Heather M Kelly and Sebe Brown, University of Tennessee, Jackson, TN

2:30 PM Alternatives to Bollworm Control in the Southwest: Okra Leaf Cotton Impacts on Predation and *H. zea* Egg Hatch
Ivan Tellez, Jane Pierce and Patricia Monk, New Mexico State University, Las Cruces, NM

2:45 PM Comparison of Transgenic *Bacillus thuringiensis* Technologies in Arkansas Cotton Systems for Control of Bollworm, *Helicoverpa zea*

3:00 PM The Interaction of Spear-Lep with Bt Proteins and HearNPV on Susceptible and Bt Resistant *Helicoverpa zea*
Simeon L Ross, Texas A&M AgriLife, College station, TX and David L Kerns, Texas A&M AgriLife Extension, College Station, TX
Galerie 2 - 1:30 PM-3:15 PM

1:30 PM  Characterization of Bollworm Feeding in Three-Gene Cotton
Mary Jane Lytle1, Jeff Gore1, Whitney Crow1, Don Cook1, Angus L. Catchot2 and Jason A. Bond3, (1)Mississippi State University, Stoneville, MS, (2) Mississippi State University, Mississippi State, MS, (3)Mississippi State, Stoneville, MS

1:45 PM  Quantification of Bt Toxin Concentrations in Cotton and Efficacy Towards the Cotton Bollworm Helicoverpa zea
Ryan T Gilreath1, David L Kerns2 and Fei Yang1, (1)Texas A&M University, College Station, TX, (2)Texas A&M AgriLife Extension, College Station, TX

2:00 PM  Baseline Susceptibility of Field and Laboratory Strains of Helicoverpa zea to HarnNPV and Cross-Resistance to Bt Proteins
Wilfrid Calvin and David Kerns, Texas A&M University, College Station, TX

2:15 PM  Role of Midgut Processing and Receptor Binding in Helicoverpa zea Vip3Aa Resistance
Dawson Kerns1, Fei Yang1, David L Kerns2 and Juan Luis Jurat-Fuentes3, (1) University of Tennessee, Knoxville, TN, (2)Texas A&M University, College Station, TX

2:30 PM  Evaluating Fitness Costs Associated with Vip3Aa Resistance in Helicoverpa zea
Haley D Kennedy1, Fei Yang1 and David L Kerns2, (1)Texas A&M University, College Station, TX, (2)Texas A&M AgriLife Extension, College Station, TX

2:45 PM  Marker-Assisted Fall Armyworm Breeding: Leveraging Novel, Real-Time Genotyping Techniques to Better Characterize C-Strain, R-Strain, and Hybridized Spodoptera frugiperda
Andie Miller, Gregory A. Sword and Ashley Tessnow, Texas A&M University, College Station, TX

3:00 PM  Evaluation of Thryvon Cotton in Nematode Infested Fields in Alabama
Thomas J Douglas, Auburn University, Auburn University, AL

Salons A-C - 4:00 PM-5:15 PM

4:00 PM  Soybean Management for Lepidopteran Pest Using Insect Growth Regulators
Sawyer Clayton Hopkins1, Whitney Crow1, Don Cook1, Jeff Gore1 and Angus Catchot2, (1)Mississippi State University, Stoneville, MS, (2)Mississippi State University, Mississippi State, MS

4:15 PM  Insecticide Evaluation on Soybean Looper in Mississippi Soybean
Reese Butler1, Don Cook2 and Whitney Crow2, (1)Mississippi State University, Mississippi State, MS, (2)Mississippi State University, Stoneville, MS

4:30 PM  Forecasting Suitable Habitat for Redbanded Stink Bug Under Current and Future Climates.
Thomas G Paul1, Angus L. Catchot1, Tyler B Towles2 and Samuel F Ward1, (1)Mississippi State University, Mississippi State, MS, (2)LSU AgCenter, Winnsboro, LA
4:45 PM  Insecticide Application Efficacy of sUAS As Compared to Traditional Delivery Systems
Hunter J Blalock, Whitney Crow, Angus Catchot, Darrin M. Dodds and Bryan Whittenton, (1)Mississippi State University, Madison, MS, (2) Mississippi State University, Stoneville, MS, (3)Mississippi State University, Mississippi State, MS, (4)Mississippi State, MS State, MS

5:00 PM  Determining the Effects of Excluding Insecticide Classes on Thryvon Cotton Varieties for Tarnished Plant Bug Control
Hunter Lipsey and Tyler B Towles, LSU AgCenter, Winnsboro, LA

COTTON INSECT RESEARCH & CONTROL CONFERENCE
WEDNESDAY LATE AFTERNOON - SESSION B
Galerie 2 - 4:00 PM - 5:15 PM

4:00 PM  Caged Feeding Assays of Cotton Fleahoppers
_Pseudatomocelis seriatus_ (Reuter) on Thryvon Cotton
Brady P. Arthur, Texas A&M University, College Station, TX and David L Kerns, Texas A&M AgriLife Extension, College Station, TX

4:15 PM  Reproductive Success and Survivability of the Tarnished Plant Bug (_Lygus lineolaris_) on Mid-Atlantic Cold Season Cover Crops
John Philip Schepis, Virginia Tech University, Rockville, MD and Sally Taylor, Virginia Tech, Suffolk, VA

4:30 PM  Characterizing Variation in the Spatiotemporal Abundance and Distribution of Cotton Infesting Aphids

4:45 PM  Effect of Moisture Treatment on Cotton Fleahopper Nymph Emergence from Woolly Croton
Manjari Mukherjee and Thomas M. Chappell, Texas A&M University, College Station, TX

5:00 PM  Virus-Induced Gene Silencing (VIGS) Is a Promising Tool for Studying Cotton-Herbivore Interactions
Mason Clark, Spencer Behmer, Anjel M Helms, Ryan W Kurtz, Keyan Zhu-Sazman and Gregory A. Sword, (1)Texas A&M University, College Station, TX, (2)Cotton Incorporated, Cary, NC

COTTON INSECT RESEARCH & CONTROL BUSINESS MEETING AND MIXER
Galerie 2 – 5:15 PM - 7:00 PM
Cotton Quality Measurements Conference

COTTON QUALITY MEASUREMENTS
WEDNESDAY EARLY AFTERNOON

Galerie 4 - 1:00 PM-3:15 PM

1:00 PM  Long-Term Stability of HVI Tensile Properties across Multiple HVIs
Eric F. Hequet, Christopher N Turner and Md Abu Sayeed, Texas Tech University, Lubbock, TX

1:15 PM  Utilization of Elongation Measurement in Fiber Selection
Christopher D. Delhom, USDA-ARS Southern Regional Research Center, New Orleans, LA and Eric F. Hequet, Texas Tech University, Lubbock, TX

1:30 PM  Determining the Optimum Number of Replications for New HVI Fiber Length Measurements
Md Abu Sayeed, Christopher N Turner and Eric F. Hequet, Texas Tech University, Lubbock, TX

1:45 PM  Relationships Among Short Fiber Measurements from AFIS and New Fiber Length Measurements from HVI
Christopher N Turner, Md Abu Sayeed and Eric F. Hequet, Texas Tech University, Lubbock, TX

2:00 PM  Investigating Fiber Quality from Tabletop and Commercial Scale Saw and Roller Gin Stands
Carlos B. Armijo¹, Jaya Shankar Tumuluru¹, Christopher D. Delhom², Derek P. Whitelock¹, Paul A. Funk¹, John D. Wanjura³, Neha Kothari⁴ and Vikki B. Martin¹, (1)USDA-ARS Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM, (2)USDA-ARS Southern Regional Research Center, New Orleans, LA, (3)USDA-ARS Cotton Production and Processing Research Unit, Lubbock, TX, (4)Cotton Incorporated, Cary, NC

2:15 PM  A JMP-Pro Software Add-in for AFIS Fiber Length Distribution Analysis
Mourad Krifa, Kent State University, Kent, OH and Neha Kothari, Cotton Incorporated, Cary, NC

2:30 PM  Comparative Analyses of a Maturity Distributional Parameter Evaluating Immature Fiber Contents By Reference and Indirect Methods
Hee Jin Kim, USDA-ARS, Southern Regional Research Center, New Orleans, LA, Christopher D. Delhom, USDA-ARS Southern Regional Research Center, New Orleans, LA, Don C Jones, Cotton Incorporated, Cary, NC and Bugao Xu, University of North Texas, Denton, TX

2:45 PM  Exploration of a New Imaging Modality for Assessing Cotton Fiber Quality
Reagan B Heinrich¹, Brooke E Shumate¹, Brendan Kelly², Alexandre Soares-Da-Silva¹, Yildirim Kocoglu¹, Hamed Sari-Sarraf⁶, Md Alamgir Kabir⁴, Namuna Adhikari⁴ and Aniruddha Ray⁴, (1)Texas Tech University, Lubbock, TX, (2)Texas A&M AgrilLife, Lubbock, TX, (3)Texas A&M Agrilife Research, Lubbock, TX, (4)University of Toledo, Toledo, OH

3:00 PM  Predicting Cotton Fiber Properties with Fiber Length Parameters Measured By Dual-Beard Fibrogram
Bugao Xu and Jinfeng Xu, University of North Texas, Denton, TX
COTTON QUALITY MEASUREMENTS
WEDNESDAY LATE AFTERNOON
Galerie 4 - 4:00 PM-5:00 PM

4:00 PM  Low-Cost Real-Time Leaf Grade Determination
Christopher D. Delhom, USDA-ARS Southern Regional Research Center, New Orleans, LA, Michael Ceraso, Oak Ridge Institute for Science and Education, New Orleans, LA and Neha Kothari, Cotton Incorporated, Cary, NC

4:15 PM  The Assessment of within-Boll Characteristics in the Improvement of Fiber Related Traits
Jake Gendron¹, Wayne Smith², Eric F. Hequet³ and Steven Hague², (1) Texas A&M University, College Station, TX, (2)Texas A&M University, College Station, TX, (3)Texas Tech University, Lubbock, TX

4:30 PM  Application of Fourier Transform Infrared Spectroscopy for Classifying Cotton Fiber Maturity of a Cotton Genetic Population Composed of Homozygous and Heterozygous Genotypes
Yongliang Liu, USDA-ARS, SRRC, New Orleans, LA and Hee Jin Kim, USDA-ARS, Southern Regional Research Center, New Orleans, LA

Cotton Utilization Conference

COTTON UTILIZATION
WEDNESDAY LATE MORNING
Balcony L - 10:30 AM-12:00 PM

10:30 AM Bioactivity of Cottonseed-Derived Materials for Nutrition and Health
Heping Cao and Kandan Sethumadhavan, USDA-ARS, New Orleans, LA

10:45 AM Characterization of Protein Solubility from Glandless Cottonseed
Heping Cao, Kandan Sethumadhavan and Scott Pelitire, USDA-ARS, New Orleans, LA

11:00 AM Roasting Impact on the Chemical Composition of Glandless Cottonseed
Zhongqi He, Sunghyun Nam, K. Thomas Klasson and Huai N Cheng, USDA-ARS SRRC, New Orleans, LA

11:15 AM Washable Antimicrobial Wipes Made from Nanostructured Raw Cotton Fibers
Sunghyun Nam¹, Doug J Hinchcliffe¹, Gary Lawson², Matthew B Hillyer¹ and Zhongqi He¹, (1)USDA-ARS SRRC, New Orleans, LA, (2)Wildwood Cotton Technologies, Greenwood, MS

11:30 AM Quantification of Natural and Synthetic Textile Microfibers Using an Automated Imaging System
Michael Santiago Cintron, USDA, New Orleans, LA and Christopher D. Delhom, USDA-ARS Southern Regional Research Center, New Orleans, LA

11:45 AM Management of 2-Thread & 3-Thread Fleece Knitted Fabrics Performance Produced from Cotton and Different Regenerated Fibers
Alaa A Badr, Aida Sheta and Ashraf El-Nahrawy, Alexandria University, Alexandria, Egypt
8:00 AM  Evaluation of Italian Ryegrass Control Following Different Application Timings of Fall Residual Herbicides
Lou Adams¹, Tom Barber², Jason K Norsworthy¹, Thomas R Butts³ and Aaron Ross¹, (1)University of Arkansas, Fayetteville, AR, (2)University of Arkansas-Extension, Lonoke, AR, (3)University of Arkansas, Lonoke, AR

8:15 AM  Cotton Tolerance to over-the-Top Application of Various Herbicides Coated on Fertilizer
Summer L Pritchett¹, Jason K Norsworthy², Maria Carolina Souza², Casey H Arnold² and Lon Tom Barber², (1)University of Arkansas Crop, Soil, and Environmental Science Weed Science Program, Fayetteville, AR, (2)University of Arkansas, Fayetteville, AR, (3)Director Newport Extension Center, (CES)-Cooperative Extension Service, Lonoke, AR

8:30 AM  Cotton Residual Herbicide Activity on Glufosinate-Resistant Palmer Amaranth
Pamela Carvalho-Moore¹, Jason K Norsworthy¹, Maria Carolina Souza¹, David Smith¹, Samuel Noe¹ and Lon Tom Barber², (1)University of Arkansas, Fayetteville, AR, (2)Director Newport Extension Center, (CES)-Cooperative Extension Service, Lonoke, AR

8:45 AM  Sensitivity of 2021 Arkansas Palmer Amaranth Accessions to Dicamba, 2,4-D, and Glufosinate
Maria Carolina Souza¹, Jason K Norsworthy¹, Pamela Carvalho-Moore¹, Leonard B Piveta¹, Lon Tom Barber² and Thomas R Butts³, (1)University of Arkansas, Fayetteville, AR, (2)Director Newport Extension Center, (CES)-Cooperative Extension Service, Lonoke, AR, (3)University of Arkansas, Lonoke, AR

9:00 AM  Evaluating Cover Crops and Herbicides for Weed Control in Cotton
Annu Kumari¹, Andrew J. Price³, Steve Li¹ and Audrey V. Gamble¹, (1)Auburn University, Auburn, AL, (2)USDA, Auburn, AL

9:15 AM  Cotton Tolerance to Low Concentrations of a Postemergence-Applied Diflufenican Mixture
Matthew C Woolard¹, Jason K Norsworthy¹, Pamela Carvalho-Moore¹, Maria Carolina Souza¹ and Lon Tom Barber², (1)University of Arkansas, Fayetteville, AR, (2)Director Newport Extension Center, (CES)-Cooperative Extension Service, Lonoke, AR

9:30 AM  Interaction of See & Spray™ Model Sensitivity and Application Timing in Cotton
Tristen A Avent¹, Jason K Norsworthy², Matthew C Woolard², William Patzoldt³, Lauren M Schwartz-Lazaro³, Michael M Houston⁴, Wesley Everman⁵ and Diego J Contreras⁶, (1)University of Arkansas Crop, Soil, and Environmental Science Weed Science Program, Fayetteville, AR, (2)University of Arkansas, Fayetteville, AR, (3)Director Newport Extension Center, (CES)-Cooperative Extension Service, Lonoke, AR, (4)Blue River Technology, Greenville, MS, (5)Blue River Technology, Sunnyvale, CA, (6)North Carolina State University, Raleigh, NC

9:45 AM  Utilization of See & Spray™ Ultimate Technology with Cover Crops in Cotton
Ty C Smith¹, Jason K Norsworthy¹, Tristen A Avent², William Patzoldt³, Lauren M Schwartz-Lazaro³ and Michael M Houston⁴, (1)University of Arkansas,
Wednesday, January 11, 2023

Fayetteville, AR, (2) University of Arkansas Crop, Soil, and Environmental Science Weed Science Program, Fayetteville, AR, (3) Blue River Technology, Sunnyvale, CA, (4) Blue River Technology, Greenville, MS

COTTON WEED SCIENCE RESEARCH
WEDNESDAY LATE MORNING

Sarah E. Kezar¹, Kyle R. Russell¹, Fernando Oreja², Sandy Ethridge¹, April Dobbs¹, Delaney C. Foster¹, Daniel Hathcoat¹, Michael M. Houston², David Smith², Peter A. Dotray², Jason K Norsworthy², Ramon Leon Gonzalez³, Gaylon Morgan⁴ and Muthukumar V Bagavathiannan⁵, (1) Texas A&M University, College Station, TX, (2) Texas Tech University, Lubbock, TX, (3) North Carolina State University, Raleigh, NC, (4) Texas A&M AgriLife Research and Extension Service, Lubbock, TX, (5) University of Arkansas, Fayetteville, AR, (6) Cotton Incorporated, Cary, NC

10:45 AM Cotton Response to Envoke in Enlist and Xtendflex Systems
Noah H Reed, University of Arkansas Fayetteville, Fayetteville, AR, Lon Tom Barber, Director Newport Extension Center, (CES)-Cooperative Extension Service, Lonoke, AR, Jason K Norsworthy, University of Arkansas, Fayetteville, AR and Thomas R Butts, University of Arkansas, Lonoke, AR

11:00 AM A Beltwide Perspective of the Axant® Flex Cotton System
Jennifer Dudak¹, Zachary R. Treadway¹, Todd A Baughman¹, Gregory B. Baldwin², Tom Barber³, Charlie Cahoon³, A. Stanley Culpepper³, Adam C. Hixson³, Steve Li⁴ and Scott Nolte⁴, (1) Oklahoma State University, Ardmore, OK, (2) BASF, Durham, NC, (3) University of Arkansas-Extension, Lonoke, AR, (4) North Carolina State University, Raleigh, NC, (5) University of Georgia, Tifton, GA, (6) BASF, Lubbock, TX, (7) Auburn University, Auburn, AL, (8) Texas A&M University, College Station, TX

11:15 AM Evaluation of Topramezone for Use in Axant™ Flex Cotton Production
Megan Mills¹, Peter A. Dotray², Gregory B. Baldwin², Scott Asher³, Adam C. Hixson⁴, Maxwell E. Smith⁴, Blaine A. Patton⁴, Kyle R. Russell⁵ and Kyle R. Russell⁶, (1) Texas Tech University, Lubbock, TX, (2) Texas Tech University, Lubbock, TX, Texas A&M AgriLife Research and Extension Service, Lubbock, TX, (3) BASF, Research Triangle Park, NC, (4) BASF, Lubbock, TX, (5) Texas A&M AgriLife Research and Extension Service, Lubbock, TX

11:30 AM Evaluating Novel Application Methods to Mitigate Auxin + Graminicide Herbicide Antagonism
Jake A Patterson, Darrin M. Dodds, Antonio AC Tavares, Gresham Stephens, Caleb Meyer and Sydney Baker, Mississippi State University, Mississippi State, MS

11:45 AM Evaluation of Impregnated Residual Herbicides in Cotton
Brock A Dean, Charlie Cahoon, Zack Taylor, Jose S de Sanctis, Jacob C Forehand and Hunter Lee, North Carolina State University, Raleigh, NC

COTTON WEED SCIENCE RESEARCH
WEDNESDAY EARLY AFTERNOON

Preservation Hall Studio 9 - 1:00 PM-2:45 PM

1:00 PM Does 2,4-D Influence Nutrient Partitioning in Cotton?
Kyle Russell, Texas Tech University, Lubbock, TX, Peter A. Dotray, Texas A&M AgriLife Research and Extension Service, Lubbock, TX, Texas Tech University,
COTTON WEED SCIENCE RESEARCH
WEDNESDAY LATE AFTERNOON

Preservation Hall Studio 9 - 3:15 PM-4:30 PM

3:15 PM  Optimization of See and Spray™ Technology in Xtendflex Cotton
Michael M Houston1, William Patzoldt2, Lauren M Schwartz-Lazaro2, Jesaelen Moraes2 and Scott Brown2; (1)Blue River Technology, Greenville, MS, (2)Blue River Technology, Sunnyvale, CA

3:30 PM  Cotton Response to Selected Drift Rates of Imazapyr
Michael W. Marshall, Clemson University - Edisto REC, Blackville, SC, Mitchell B Williams, Clemson University, Blackville, SC and Michael A. Jones, Clemson University, Florence, SC

3:45 PM  Kochia: An Increasing Weed Problem in Texas High Plains Cotton
C.D. Ray White, Texas A&M AgriLife Research, Lubbock, TX and J. Wayne Keeling, Texas A&M AgriLife Research Center, Lubbock, TX

4:00 PM  Spectral Sensing Technology for Weed Detection in Herbicide Spot Spraying Systems
Pedro Andrade-Sanchez, University of Arizona, Maricopa, AZ

4:15 PM  Understanding the Dynamics of Crop Protection through Kynetec Panel Data
Leah Buchman, Heather McCarty, Jim Kohler, Abby Hebenstreit, Greg Malcom and Maria McWhorter, Kynetec, St Louis, MO
Cotton Sustainability Conference

COTTON SUSTAINABILITY
WEDNESDAY EARLY MORNING

Mardi Gras Ballroom Salon D - 8:15 AM-10:00 AM

8:15 AM  U.S. Cotton Trust Protocol: Year Three Updates
Gary Adams, National Cotton Council, Cordova, TN

8:45 AM  U.S. Climate Smart Cotton: What’s Next?
Steven Pires, Cotton Inc, Cary, NC

9:15 AM  Panel Discussion - U.S. Climate Smart Cotton Partners: Goals, Projects, Process
Steven Pires, Cotton Incorporated, Cary, NC, Kirk Smithwick, Target, Minneapolis, MN, Dianna Bagnall, Soil Health Institute, Columbia, IL and Dedrick Davis, Alabama A&M University, Normal, AL

COTTON SUSTAINABILITY
WEDNESDAY LATE MORNING

Mardi Gras Ballroom Salon D - 10:30 AM-12:00 PM

10:30 AM  Panel Discussion - Exploring the Buzz about Regenerative Ag
Andrew Jordan, Jordan Associates Ag and Bio Engineering Services, Cordova, TN, Dianna Bagnall, Soil Health Institute, Columbia, IL, Beth Jensen, Textile Exchange, Boulder, CO, Amy Winstead, GreenPoint Ag, Decatur, AL and Deepika Mishra, US Cotton Trust Protocol, Cordova, TN

11:15 AM  Panel Discussion - Cotton in a Circular Bioeconomy
Steven Pires, Cotton Incorporated, Cary, NC, Annette Bitto, TAMA USA, Dubuque, IA, Jean Bonhotal, Cornell University, Ithaca, NY and Steve Richardson, Unless Collective, Portland, OR

COTTON SUSTAINABILITY
WEDNESDAY EARLY AFTERNOON

Mardi Gras Ballroom Salon D - 1:00 PM-3:15 PM

1:00 PM  Creating Opportunities for Cotton Producers to Participate in Ecosystem Service Market Programs
Amanda Raster, Ecosystem Services Market Consortium, Falls Church, VA

1:30 PM  Forced Labor Prevention Act Effect on U.S. Cotton Industry
Vikki B. Martin, Cotton Incorporated, Cary, NC and Kirk Smithwick, Target, Minneapolis, MN

2:00 PM  The Benefits of Regenerative Ag on Boll Retention, Insect Resistance, Fiber Quality and Market Opportunities in Cotton
James Johnson, W.R. Johnson and Sons LLC, Columbus, NM

2:15 PM  Soil Health Changes in Continuous Cotton after 40 Years of No-till and Cover Cropping in West Tennessee
Forbes R Walker¹, Nutifafa Adotey², Jennifer DeBruyn³, Lori Duncan³, Jaehoon Lee¹, Amin Nouri¹, Mark Radosevich¹, Debashish Saha³ and Sean Schaeffer³, (1)University of Tennessee Extension, Knoxville, TN, (2)University of Tennessee, Jackson, TN, (3)University of Tennessee, Knoxville, TN, (4) Oregon State University, Hermiston, OR
2:30 PM  Leveraging Precision Agriculture for Cotton Sustainability, Profitability, and Wildlife Benefits
Brent A. Rudolph, Pheasants Forever and Quail Forever, Mason, MI, Mark D McConnell, Mississippi State University, Mississippi State, MS and Chaz Holt, Quail Forever, St. Paul, MN

2:45 PM  Using the Fieldprint Platform Sensitivity Analysis to Evaluate Georgia Cotton Production Scenarios
Kaylyn Reagin1, Wesley M Porter1 and Eric Coronel2, (1)University of Georgia, Tifton, GA, (2)American Peanut Council, Alexandria, VA

COTTON SUSTAINABILITY
WEDNESDAY LATE AFTERNOON
Mardi Gras Ballroom Salon D - 4:00 PM-5:00 PM

4:00 PM  Conservation Practices for Reducing Greenhouse Gas Emissions in Cotton Production
Arlene A Adviento-Borbe1, Sandhya Karki2, Richard C. Woodruff3, N. Ray Benson4, Tina Gray Teague5 and Michele L. Reba5, (1)USDA-ARS Delta Water Management Research Unit, Jonesboro, AR, (2)University of Arkansas, Jonesboro, AR, (3)University of Arkansas System Division of Agriculture, State University, AR, (4)Ark State Univ / Univ Ark Sys Div of Ag, State University, AR

4:15 PM  Co-Pelletization of Cotton Gin Byproducts and Cattle Manure for Soil Amendment
Femi Peter Alege, Cody D. Blake, Sean P Donohoe and Joe W. Thomas, USDA ARS, Stoneville, MS

4:30 PM  Using Natural Biomarker to Authenticate the Textile Cotton Materials
Mohamed Abdelrahman Negm, Cotton Research Institute, Giza, Egypt

4:45 PM  Sustainability Conference - Student Award Presentation
Lori Duncan, University of Tennessee, Knoxville, TN
COTTON AGRONOMY, PHYSIOLOGY & SOILS CONFERENCE
THURSDAY EARLY MORNING
Galerie 5 - 8:00 AM-10:00 AM

8:00 AM  Soil Organic Carbon Stocks in Texas Cropping Systems
Joseph Alan Burke¹, Katie L. Lewis¹, Paul DeLaune³, Jamie Foster¹, Jourdan M. Bell² and Christopher Cobos¹, (1)Texas A&M AgriLife Research, Lubbock, TX, (2)Texas A&M AgriLife Research and Extension Center, Lubbock, TX, (3) Texas A&M AgriLife Research, Vernon, TX, (4)Texas A&M AgriLife Research, Corpus Christi, TX, (5)Texas A&M AgriLife, Amarillo, TX

8:15 AM  Updating Nitrogen Recommendations for Cotton
Hardeep Singh, University of Florida, Jay, FL, Libbie Johnson, University of Florida Santa Rosa County, Jay, FL, Ethan Carter, University of Florida Jackson County, Marianna, FL, Joseph Iboyi, UFL, Jay, FL and Lakesh Sharma, UFL, Gainesville, FL

8:30 AM  Refining Cotton Nitrogen Fertilizer Recommendations
Bhupinder S. Farmaha¹, Alan J Franzluebbers², Shikha Dubey¹, Gaylon Morgan³, Brian Arnall⁴, Hunter Frame⁵, Bradley R Wilson⁶, Brian K. Pieralisi⁷, John L. Snider⁸, Katie L. Lewis⁹, Benjamin M. McKnight¹⁰, Julie A. Howe¹¹, Murilo Maeda¹², Henry Yabbey Sintim¹³, Trenton L Roberts¹⁴, and Kipling S. Balkcom¹⁵, (1)Clemson University, Blackville, SC, (2)USDA-ARS, Raleigh, NC, (3)Cotton Incorporated, Cary, NC, (4)Oklahoma State University, Stillwater, OK, (5)Virginia Polytechnic Institute & State University, Blacksburg, VA, (6)University of Missouri, Portageville, MO, (7)Mississippi State University, Starkville, MS, (8)University of Georgia, Tifton, GA, (9) Texas A&M AgriLife Research Center, Lubbock, TX, (10)Texas A&M AgriLife Extension Service, College Station, TX, (11)Texas AgriLife Research, College Station, TX, (12)Texas A&M AgriLife Extension, Lubbock, TX, (13)University of Arkansas, Fayetteville, AR, (14)Kansans State University, Manhattan, KS, (15) USDA-ARS, Auburn, AL

8:45 AM  Planting Date, Seeding Rate and Variety Effects on Lint Yield and Plant Architecture
Hunter Frame, Virginia Polytechnic Institute & State University, Blacksburg, VA

9:00 AM  The Impact of Visual Mechanical Damage on Seedling and Plant Morphology
Lori Unruh-Snyder¹, Marisa Crisp², Reagan Dunn² and Becca Karriker², (1) NC State, Zebulon, NC, (2)NC State, Raleigh, NC

9:15 AM  Utilizing Remote Sensing Systems to Assess Cotton Fiber Quality Parameters
Mahendra Bhandari¹, Pankaj Pal², Jose L Landivar¹, Murilo Maeda³ and Juan Landivar¹, (1)Texas A&M AgriLife Research, Corpus Christi, TX, (2) Agrilife Research Center Texas A&M, Corpus Christi, TX, (3)Texas A&M AgriLife Extension, Lubbock, TX

9:30 AM  Potassium Management Utilizing Split-Applications
Justin Calhoun, University of Missouri, Portageville, MO

COTTON AGRONOMY, PHYSIOLOGY & SOILS CONFERENCE
AWARDS
Galerie 5 – 10:00 AM-10:30 AM
Cotton Disease Council

COTTON DISEASE COUNCIL
THURSDAY EARLY MORNING

Preservation Hall Studio 8 - 8:00 AM-10:00 AM

8:00 AM  Response of Commercials Cultivars to Verticillium Wilt and Bacterial Blight in the Southern High Plains of Texas
Terry A. Wheeler, Texas A&M AgriLife Research, Lubbock, TX and Jane K Dever, Texas A&M AgriLife Research and Extension Center, Lubbock, TX

8:10 AM  Drone Usage in Regard to RGB and NIR Bandwidth in Verticillium Wilt Ratings
Robert A Ballesteros, Texas A&M AgriLife Research, Lubbock, TX

8:20 AM  Interaction between Pathogenic and Saprophytic Growth of Fusarium Oxysporum f. sp. vasinfectum
Roy Davis, Jensen T. Hayter, Thomas Isakeit, Margaret L. Marlino and Thomas M. Chappell, Texas A&M University, College Station, TX

8:30 AM  Transcriptional Landscape of the Response and Resistance to Fusarium vasinfectum Infection in Pima Cotton
Damar Lopez-Arredondo, Texas Tech University, Lubbock, TX

8:40 AM  Update on Cotton Screening Protocol for FOV-4
Jim Olvey¹, Mike Olvey¹, Don C Jones², Christopher Sasaki³ and Stephen Parris³, (1)O&A Enterprises, Maricopa, AZ, (2)Cotton Incorporated, Cary, NC, (3)Clemson University, Clemson, SC

8:50 AM  Identification of Mycoviruses to Control Fusarium Wilt of Cotton in the Southwestern United States
Akhtar Ali, Department of Biological Science, The University of Tulsa, Tulsa, OK

9:00 AM  Viruses Infecting Cotton in Southwestern States
Akhtar Ali, Department of Biological Science, The University of Tulsa, Tulsa, OK

9:10 AM  Automated Plant Virus Community Pipeline for High-Throughput Viral Genome Assembly to Facilitate Pathogen Surveillance in Cotton-Vegetable Agroecosystems
Cory Von Keith, M. Javed Iqbal and Judith K Brown, University of Arizona, Tucson, AZ

9:20 AM  Viruses of Cotton in Mississippi: Cotton Leafroll Dwarf Virus and Beyond
Nina Aboughanem-Sabanadzovic¹, Jodi Scheffler², Tom Allen³ and Sead Sabanadzovic¹, (1)Mississippi State University, Mississippi State, MS, (2) USDA ARS, Stoneville, MS, (3)Mississippi State University, Stoneville, MS

9:30 AM  RNA Enrichment, Illumina Sequencing, and Comparative Sequence Analysis of Cotton Leafroll Dwarf Virus (CLRDV) Genomes from Cotton Samples Collected in Different U.S. Locations
Raphael O Adegbola, Cory Von Keith, Dinusha C. Maheepala and Judith K Brown, University of Arizona, Tucson, AZ

9:40 AM  Physiological and Molecular Interactions of Cotton Leafroll Dwarf Virus with the Host
Cesar Escalante¹, Kipling S. Balkcom², Alana Lynn Jacobson¹ and Kassie Conner¹, (1)Auburn University, Auburn, AL, (2)USDA-ARS, Auburn, AL
10:30 AM A Multi-Year Evaluation of Fungicides for Management of Foliar Cotton Diseases in Colquitt County, Georgia
Jeremy M. Kichler, University of Georgia Cooperative Extension, Moultrie, GA and Robert Kemerait, University of Georgia, Tifton, GA

10:40 AM Evaluating Aerial Fungicide Carrier Rates in Cotton
Seth Thomas McAllister, University of Georgia Cooperative Extension, Dawson, GA

10:50 AM A Constitutive Defense-Response Transcriptional Program Underlies Root-Knot Nematode Resistance in *Gossypium hirsutum*
Damar Lopez-Arredondo, Texas Tech University, Lubbock, TX

11:00 AM Field Testing of Cotton Cultivars with Stacked Resistance to Reniform and Southern Root-Knot Nematodes Compared with Conventional Nematicides
Zane J. Grabau, University of Florida, Gainesville, FL

Tristan Watson, LSU AgCenter, Baton Rouge, LA

11:20 AM Impacts of Traditional and Translational Resistance on Bacterial Blight of Cotton
Brian Kvitko, Jovana Mijatovic, Philip Adepoju and Robert Kemerait, (1) University of Georgia, Athens, GA, (2) University of Georgia, Tifton, GA

11:30 AM Lygus Bug Transmission of Boll Rotting Bacteria in the Field
Enrique G. Medrano, USDA-ARS, College Station, TX and James P. Glover, USDA-ARS, Stoneville, MS, MS

11:40 AM Performance of Seed Treatments Controlling Cotton Seedling Disease: A Meta-Analysis
Thursday, January 12, 2023

Cotton Ginning Conference

JOINT SESSION: COTTON GINNING CONFERENCE AND COTTON ENGINEERING SYSTEMS CONFERENCE

Preservation Hall Studios 2 - 3 - 8:00 AM-10:00 AM

8:00 AM  Electrical Energy Variables for Hand-Fed Tabletop Gins
Sean P Donohoe, Cody D. Blake, Femi Peter Alege and Joe W. Thomas, USDA ARS, Stoneville, MS

8:15 AM  Modeling the Performance of Two Experimental High-Capacity Roller Gin Reclaimers to Assess the Impact of Carryover to Seed Ratio and Saw Speed
Jaya Shankar Tumuluru, Carlos B. Armijo, Derek P. Whitelock and Paul A. Funk, USDA-ARS Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM

8:30 AM  A New Tool for Handling and Rotating Round Modules
John D. Wanjura, Gregory A. Holt and Mathew G. Pelletier, USDA-ARS Cotton Production and Processing Research Unit, Lubbock, TX

8:45 AM  Predictive Maintenance from Lummus Ag Technology - 2023
Pravin J. Chaubey, Lummus Ag Technology, Savannah, GA and Ross D. Rutherford, Lummus Ag Technology, Lubbock, TX

9:00 AM  Cotton Wads Drying in Conveyer Belt System: CFD Simulations
Sunil Kumar, Robert G. Hardin IV and Maria D King, Texas A&M University, College Station, TX

9:15 AM  Calculation of Emission Factors for Cotton Gin Burr Piles
Garrett Shaw, Texas A&M University, College Station, TX

9:30 AM  Closed-Loop Brush-Based Plastic Removal System for Cotton Gin Module Feeders
Adeyemi A. Adeleke1, Robert G. Hardin IV1 and Mathew G. Pelletier2, (1) Texas A&M University, College Station, TX, (2)USDA-ARS Cotton Production and Processing Research Unit, Lubbock, TX

Cotton Improvement Conference

COTTON IMPROVEMENT
THURSDAY MORNING

Preservation Hall Studio 7 - 8:00 AM-9:30 AM

8:00 AM  New Developments in Cotton from BASF
Cody W Mull, BASF, Idalou, TX, Cory Mills, BASF, Lubbock, TX, BASF, Lubbock, TX, Greg Baldwin, BASF, Research Triangle Park, NC, BASF, Research Triangle Park, NC and Adam C. Hixson, BASF, Lubbock, TX

8:15 AM  Deltapine Class of 23 Cotton Varieties
David W Albers, Bayer Crop Science, Starkville, MS and Eric Best, Bayer Crop Science, Lubbock, TX

8:30 AM  Awards & Business Meeting
Cody W Mull, BASF, Idalou, TX and Carol Mason Kelly, Texas A&M AgriLife Research, Lubbock, TX
8:00 AM  Observations of Thryvon and Grower Standards for Thrips Control in Commercial Fields  
Phillip Roberts1, David Shane Curry2, Michiasia Dowdy3, Sarah Hobby1, Sydni C. Ingram4, Jeremy M Kichler5, Seth Thomas McAllister6, Peyton Sapp7, Ashley Smith8 and William G. Tyson1. (1)University of Georgia, Tifton, GA, (2)University of Georgia, Baxley, GA, (3)University of Georgia, Valdosta, GA, (4)University of Georgia, Thomasville, GA, (5) UGA Cooperative Extension, Moultrie, GA, (6) University of Georgia Cooperative Extension, Dawson, GA, (7) University of Georgia Cooperative Extension, Waynesboro, GA, (8) University of Georgia, Douglas, GA, (9) University of Georgia Cooperative Extension, Statesboro, GA

8:15 AM  Evaluation of Thrips Management Strategies in Thryvon Cotton across the Southeast  
Scott H. Graham, Auburn University, Auburn University, AL, Jeremy Greene, Clemson University, Blackville, SC, Phillip Roberts, University of Georgia, Tifton, GA, Sally Taylor, Virginia Tech, Suffolk, VA and Dominic Reisig, North Carolina State University, Plymouth, NC

8:30 AM  Efficacy of Thryvon Cotton Against Thrips in Texas High Plains Cotton  
Suhas Vyavhare, Texas A&M AgriLife Research Center, Lubbock, TX

8:45 AM  Updates from the 2022 Bayer ThryvonTM Ground Breakers® Trials  
Timothy Dabbert, Bayer Crop Science, Creve Couer, MO

9:00 AM  Tobacco Thrips Resistance to Organophosphate Insecticides in the Midsouth and Southeast  
Sebe Brown, University of Tennessee, Jackson, TN, Tyler B Towles, LSU AgCenter, Winnboro, LA, Whitney Crow, Mississippi State University, Stoneville, MS, Benjamin C Thrash, University of Arkansas, Lonoke, AR, Nick R. Bateman, University of Arkansas - RREC, Stuttgart, AR, David L Kerns, Texas A&M AgriLife Extension, College Station, TX and Anders S. Huseth, North Carolina State University, Raleigh, NC

9:15 AM  Management of Thrips in Mid-South Cotton  
Don Cook1, Whitney Crow1, Sebe Brown2, Benjamin C Thrash3, David Kerns4, Glenn Studebaker1, Tyler B Towles5 and Nick R. Bateman6. (1)Mississippi State University, Stoneville, MS, (2) University of Tennessee, Jackson, TN, (3) University of Arkansas, Lonoke, AR, (4) Texas A&M University, College Station, TX, (5) University of Arkansas - RREC, Stuttgart, AR, (6) University of Arkansas - RREC, Stuttgart, AR

COTTON INSECT RESEARCH & CONTROL CONFERENCE  
THURSDAY EARLY MORNING - SESSION B  
Galerie 2 - 8:00 AM-9:45 AM

8:00 AM  Monitoring Bt Resistance and Bt Cotton Trait Performance in 2022  
David L Kerns1, Sebe Brown2, Don Cook1, Whitney Crow3, Haley D Kennedy4, Glenn Studebaker1, Benjamin C Thrash1, Tyler B Towles1 and Fei Yang5. (1) Texas A&M AgriLife Extension, College Station, TX, (2) University of Georgia, Tifton, GA, (3) University of Georgia, Valdosta, GA, (4) University of Georgia, Thomasville, GA, (5) University of Georgia Cooperative Extension, Dawson, GA, (6) University of Georgia Cooperative Extension, Waynesboro, GA, (7) University of Georgia, Douglas, GA, (8) University of Georgia Cooperative Extension, Statesboro, GA
8:15 AM  Stability of Helicoverpa zea Strains Possessing Resistance to Cry1A, Cry2A and Vip3Aa Proteins, and Their Ability to Survive on Different Blended Bt Proteins
Fei Yang, Texas A&M University, College Station, TX and David L Kerns, Texas A&M AgriLife Extension, College Station, TX

R. Michael Roe1, John Efromson2, Roger D Lawrie3, Thomas Jedidiah Jenks Doman4, Matthew Bertone5, Aurelien Begue5, Mark Harfouche6 and Dominic Reisig6, (1)North Carolina State University, Raleigh, NC, (2)Ramona Optics Inc., Durham, NC, (3)University of Puerto Rico, San Juan, PR, (4)NC State University, Raleigh, NC, (5)North Carolina State University, Plymouth, NC

8:45 AM  A Decade of Cotton Aphid Research with Isoclast in the Western US
Jesse M Richardson, Corteva Agriscience, Mesa, AZ, Ian M Grettenberger, University of California-Davis, Davis, CA, CA, Sunil Tewari, Corteva Agriscience, Madera, CA and Patricia L Prasifka, Corteva Agriscience, West Fargo, ND

9:00 AM  New Genomic Resources for Boll Weevil, and Source Estimation for Re-infestations of Previously Eradicated Areas
Tyler Jay Raszick1, Lindsey C Perkin2, Zach Cohen3, Xanthe Shirley4, Raul Ruiz-Arce5, Charles P.-C. Suh4 and Gregory A. Sword1, (1)Texas A&M University, College Station, TX, (2)USDA-ARS ICCDRU, College Station, TX, (3)USDA-ARS, College Station, TX, (4)USDA APHIS PPQ, College Station, TX, (5)USDA-APHIS, Edinburg, TX

9:15 AM  Revival of Cotton Crop in Pakistan by Using Four Brothers (FB) Next Generation (NG) Cotton Technologies
Arfan Ali, Daniyal Jawed Qureshi, Hamza Nadeem Qureshi and Jawed Salim Qureshi, Four Brothers Group, Lahore, Pakistan

9:30 AM  Effect of Different Combinations of Planting Dates and Varieties on Crop Phenology, Whitefly Population and Incidence of CLCuD Under Different Conditions
Muhammad Iqbal, Punjab Agriculture Department (Extension and Adaptive Research), Khanewal, Pakistan, Muhammad Jalal Arif, University of Agriculture, Faisalabad, Pakistan, Shaqfat Saeed, MNS University of Agriculture, Multan, Pakistan and Noor Abid Saeed, The Nuclear Institute for Agriculture and Biology, Faisalabad, Pakistan

Cotton Weed Science Research Conference

COTTON WEED SCIENCE RESEARCH GRADUATE STUDENT AWARDS

Preservation Hall Studio 9 – 9:45 AM-10:15 AM
TECHNICAL CONFERENCES
POSTER BOARD SESSION

TUESDAY, JANUARY 10, 2023, 8:00 AM - 8:00 PM
WEDNESDAY, JANUARY 11, 2023, 8:00 AM - 10:00 PM
THURSDAY, JANUARY 12, 2023, 8:00 AM - 12:00 PM

Mardi Gras Ballroom Salons E - H

POSTERS WILL BE ON DISPLAY OUTSIDE OF GALERIE 3 FOR THE FOLLOWING:
COTTON ECONOMICS AND MARKETING CONFERENCE

Cotton Agronomy, Physiology & Soil Conference Posters

1. Reevaluation of Last Effective Bloom Dates for Cotton in NC
   Guy D. Collins1, Keith L. Edmisten2, Anthony Growe3, Michael Phillips2, Charlie Cahoon2, Jacob C Forehand2, Jose S de Sanctis2 and Brock A Dean2, (1)NC State University, Rocky Mount, NC, (2)North Carolina State University, Raleigh, NC, (3)NC State University, Rockingham, NC

2. Evaluating Skip-Row Patterns and the Ultra-Wide-Row (72-inch) System in NC Cotton
   Michael Phillips1, Guy D. Collins2, Keith L. Edmisten1, Jeremy Hendricks1 and Benton Fine1, (1)North Carolina State University, Raleigh, NC, (2)NC State University, Rocky Mount, NC

3. Allelopathic Cover Crops for Alternative Weed Control in a Semi-Arid Transitional Organic System
   Lauren E Selph, Texas A&M AgriLife, Lubbock, TX, Katie L. Lewis, Texas A&M AgriLife Research and Extension Center, Lubbock, TX and Paul DeLaune, Texas A&M AgriLife Research, Vernon, TX

4. Assessing the Physiological Basis of Genetic Yield Improvement and Seedling Vigor in Advanced Cotton Breeding Lines
   Gurpreet Virk, John L. Snider, Peng Chee, Simerjeet Virk, Ved Parkash and Navneet Kaur, University of Georgia, Tifton, GA

5. Impacts of Wide Row Spacings on Yield Components of Cotton
   Caitlyn B Lawton, John L. Snider, Phillip Roberts, Peng Chee and Lavesta C. Hand, University of Georgia, Tifton, GA

6. Response of Cotton Cultivars with Differing Maturities to End-of-Season Irrigation Termination Times

7. Effects of Irrigation, Nitrogen Application Rate, and Plant Growth Regulation on Biomass, Nutrient Uptake, and Lint Yield
   John L. Snider, Ved Parkash, Josh Lee, Lavesta C. Hand, Amrit Pokhrel and R Bailey Lawson, University of Georgia, Tifton, GA
8. Interactive Effects of Drought Stress and Nitrogen Deficiency on the Mechanistic Drivers of Net Photosynthesis in Field-Grown Cotton
Ved Parkash, John L. Snider, Gurpreet Virk and Joshua Lee, University of Georgia, Tifton, GA

9. 2022 UGA Cotton on-Farm Variety Evaluation Program Preliminary Results

10. Third Year Results for 48-Inch Row Cotton in South Alabama
Steve M Brown and Samuel A Frazier, Auburn University, Auburn University, AL

11. Third Year Results for Seeding Rate Trials in Alabama
Steve M Brown and Samuel A Frazier, Auburn University, Auburn University, AL
12. Evaluation of Nitrpyrin to Aid Nitrogen Management in Cotton
Carrie C Ortel¹, Trenton L Roberts¹, Kyle A Hoegenauer¹, Gerson L Drescher¹, Alden D Smartt¹ and Linda Martin¹, (1)University of Arkansas, Fayetteville, AR, (2)University of Arkansas, Rohwer, AR


14. The Impacts on Yield, Fiber Quality, and Net Returns with Mixing Two Cottonseed Cultivars on-Farm
Meredith L McGlamory¹, Jeremy M. Kichler², William G. Tyson³, Colton Scott Moon⁴, Ben Reeves⁵, Tony L. Barnes⁶ and Lavesta C. Hand¹, (1)University of Georgia, Tifton, GA, (2)University of Georgia Cooperative Extension, Moultrie, GA, (3)University of Georgia Cooperative Extension, Statesboro, GA, (4)UGA Extension, Cochran, GA, (5)University of Georgia, Nashville, GA, (6)University of Georgia Cooperative Extension, Pearson, GA

15. Analyzing Benefits of Nematode Resistant Cotton Varieties
Blake Carter, University of Georgia Cooperative Extension Service, Springfield, GA, Robert Kemeraiat, University of Georgia, Tifton, GA and Jason E. Mallard, University of Georgia Extension, Statesboro, GA

16. Assessment of Nitrogen Contribution By Biological Additives
Raedan L Sharry, Michaela Smith and Brian Arnall, Oklahoma State University, Stillwater, OK

17. The Effect of Plant Growth Management and Drought Stress on Yield Components and Fiber Quality of Field Grown Cotton

18. Comparison of Baler-Picker on-Board Scale Vs Weigh-Trailer Scale
Dale A. Mott¹, Benjamin M. McKnight¹ and Tyler Mays², (1)Texas A&M AgriLife Extension Service, College Station, TX, (2)Texas A&M AgriLife Extension Service, Hillsboro, TX

19. Improving NUE in Cotton with UAV Based Sensing
Michaela Smith and Raedan L Sharry, Oklahoma State University, Stillwater, OK

20. Mississippi on Farm Cotton Variety Performance
Brian K. Pieralisi¹, William Joseph Rutland¹, Bradley Norris², Eli B. Hobbs¹ and Tyler S Soignier¹, (1)Mississippi State University, Starkville, MS, (2)Mississippi State University, Mississippi State, MS

21. Sulfur Nutrition for Cotton in the Southeast
Lindsay G McDonald and Glendon Harris, University of Georgia, Tifton, GA
22. **Cotton Variety Performance in Mississippi**  
Bradley Norris¹, Brian K. Pieralisi², Tyler S Soignier², William Joseph Rutland³, Eli B. Hobb³, Thomas W. Allen⁴ and Corey J Bryant⁵, (1)Mississippi State University, Mississippi State, MS, (2) Mississippi State University, Starkville, MS, (3)Mississippi State University, Delta Research and Extension Center, Stoneville, MS

23. **Impact of Reduced Management Inputs on Cotton Lint Yield, Fiber Quality, and Profitability**  
Michael A. Jones, Clemson University, Florence, SC and B. Todd Campbell, USDA-ARS, Florence, SC

24. **Linkage Drag Associated with Introggression of *Meloidogyne incognita* Resistant Genes from Wild Relatives into Upland Cotton**  
Dalton M West¹, Edward L Lubbers¹, Richard Davis², Andrew Paterson³ and Peng Chee¹, (1)University of Georgia, Tifton, GA, (2)USDA-ARS, Tifton, GA, (3)College of Agricultural and Environmental Sciences, The University of Georgia, Athens, GA

25. **Evaluation of Plant Population on Varieties in Arkansas Large-Plot Variety Trials**  
Bill Robertson, Joe McAlee, N. Ray Benson, Colton Henderson, Jace Clark and Darlene Madden, University of Arkansas System Division of Ag, Newport, AR

26. **Evaluation of Harvest-Aids for Texas Cotton Production in 2022**  
Benjamin M. McKnight and Dale A. Mott, Texas A&M AgriLife Extension Service, College Station, TX

27. **Evaluation of Cotton in Large-Plot on-Farm Variety Testing in Arkansas for 2022**  
Joe McAlee, Bill Robertson, Colton Henderson, Jace Clark and Darlene Madden, University of Arkansas System Division of Ag, Newport, AR

28. **Managing Cotton Potassium Deficiency in the Blackland Prairie of Texas with in Season Potassium Applications**  
D. Tyler Mays, Texas A&M AgriLife Extension Service, Hillsboro, TX, Matthew Matocha, Texas A&M University, College Station, College Station, TX and Dale A. Mott, Texas A&M AgriLife Extension Service, College Station, TX

29. **Knowledge and Experiences Gained through My Crop Physiology Internship.**  
Kendall Sheldon, Madeline Kail, Isha Poudel and Avat Shekoofa, University of Tennessee, Jackson, TN

30. **Research Experience on the Career of Undergraduates in Agriculture Disciplines**  
Blair Stinson, Kendall Sheldon, Isha Poudel and Avat Shekoofa, University of Tennessee, Jackson, TN

Emi Kimura¹, TJ Payne¹, Dane Leija¹, Jonathan Ramirez² and Paul DeLaune³, (1)Texas A&M AgriLife Extension Service, Vernon, TX, (2)Texas A&M AgriLife Extension Service, Corpus Christi, TX, (3) Texas A&M AgriLife Research, Vernon, TX
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<th>Page Number</th>
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<tbody>
<tr>
<td>32.</td>
<td>Tillage and Cover Crop Effects on Windmillgrass and Cotton Production</td>
<td>Charles Coufal, Jerry Adams, Paul DeLaune and Domingo Patlan, Texas A&amp;M AgriLife Research, Vernon, TX</td>
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<td>33.</td>
<td>Determining Optimum Cover Crop Seeding Rates in Dryland Cotton Systems</td>
<td>Jerry Adams¹, Charles Coufal¹, Paul DeLaune¹, Emi Kimura¹ and Domingo Patlan¹, (1)Texas A&amp;M AgriLife Research, Vernon, TX, (2) Texas A&amp;M AgriLife Extension Service, Vernon, TX</td>
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<td>34.</td>
<td>Assessing Physiological Contributors to Productivity of Diverse Cotton Genotypes</td>
<td>Navneet Kaur¹, John L. Snider¹, Andrew Paterson², Gurpreet Virk¹ and Ved Parkash¹, (1)University of Georgia, Tifton, GA, (2) College of Agricultural and Environmental Sciences, The University of Georgia, Athens, GA</td>
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<td>35.</td>
<td>Cotton Planting Seed Quality Survey; An Extension Cotton Specialists Collaboration</td>
<td>Murilo Maeda¹, Steve M Brown², Seth A. Byrd², Kent D. Chapman², Guy D. Collins², Michael K. Dowd³, Keith Edmisten⁴, Hunter Frame⁵, Michael A. Jones⁵, Benjamin M. McKnight⁵, Calvin D Meeks⁵, Gaylon Morgan⁵, Randy Norton⁵, Brian Peralisli⁶, Tyson B Raper⁶, Bill Robertson⁶, Tyler Sandlin⁶, John L. Snider⁶, Lori Unruh Snyder⁶ and David L. Wright⁶, (1)Texas A&amp;M AgriLife Extension, Lubbock, TX, (2) Auburn University, Auburn University, AL, (3) Oklahoma State University, Stillwater, OK, (4) University of North Texas, Denton, TX, (5) North Carolina State University, Rocky Mount, NC, (6) USDA-ARS Southern Regional Research Center, New Orleans, LA, (7) North Carolina State University, Raleigh, NC, (8) Virginia Polytechnic Institute &amp; State University, Blacksburg, VA, (9) Clemson University, Florence, SC, (10) Texas A&amp;M AgriLife Extension Service, College Station, TX, (11) University of Missouri, Portageville, MO, (12) Cotton Incorporated, Cary, NC, (13) University of Arizona, Safford, AZ, (14) University of Mississippi State University, Starkville, MS, (15) University of Tennessee, Jackson, TN, (16) University of Arkansas System Division of Ag, Newport, AR, (17) Auburn University, Belle Mina, AL, (18) University of Georgia, Tifton, GA, (19) University of Florida, Quincy, FL</td>
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<td>36.</td>
<td>Semi-Arid Cotton Production and Soil Characterization Following Long-Term Cover Crops and No-Tillage</td>
<td>Tessa Bennett¹, Katie L. Lewis¹, Joseph Alan Burke¹, Christopher Cobos¹ and J. Wayne Keeling¹, (1) Texas A&amp;M AgriLife Research, Lubbock, TX, (2) Texas A&amp;M AgriLife Research and Extension Center, Lubbock, TX, (3) Texas A&amp;M AgriLife Research, Lubbock, TX, (4) Texas A&amp;M AgriLife Research Center, Lubbock, TX</td>
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<td>37.</td>
<td>Determining the Percent of Visual Mechanical Damage of Cotton Seed</td>
<td>Marisa Crisp, NC State, Raleigh, NC and Lori Unruh-Snyder, NC State, Zebulon, NC</td>
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<td>38.</td>
<td>Boll Size, Seed Size and Relationships to Lint Yield Observed in the 2022 Tennessee Official Variety Trial</td>
<td>Samuel Reeves, Patricia de Sousa Soares, Ryan Blair, Matthew Davis and Tyson B Raper, University of Tennessee, Jackson, TN</td>
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39. Utilizing UAS Multispectral Data to Assess Nitrogen Nutrition in Irrigated Cotton
Kyle A Hoegenauer, Trenton L Roberts, Gerson L Drescher, Alden D Smartt, Carrie C Ortel and Carrie Ann Followell, University of Arkansas, Fayetteville, AR

40. Overview of the 2022 Tennessee Cotton County Standard Testing Program
Matthew Davis¹, Ryan Blair¹, Lindsay Stephenson², Jake Mallard¹, Becky Muller³, Jeff Via³, Tyson B Raper¹ and Samuel Reeves¹, (1) University of Tennessee, Jackson, TN, (2)University of Tennessee, Brownsville, TN, (3)University of Tennessee, Jackson, TN

41. Cover Crop Influence on Potassium Uptake Dynamics in the Southeastern Cotton Belt
Eli B. Hobbs¹, Brian K. Peralisi¹, Darrin M. Dodds², Angus Catchot², Hunter Perry³, Tyler S Soignier¹, Bradley Norris² and William Joseph Rutland¹, (1)Mississippi State University, Starkville, MS, (2)Mississippi State University, Mississippi State, MS, (3)Corteva Agriscience, Leland, MS

42. Side Dress Nitrogen Rate for Broiler-Litter Fertilized Cotton
Rajveer Singh¹, Rishi Prasad¹, Dexter B Watts² and Henry A Torbert², (1)Auburn University, Auburn, AL, (2)USDA ARS, Auburn, AL

43. Evaluation of Cotton Seeding Rate in the Missouri Delta
Bradley R Wilson and Jake Watkins, University of Missouri, Portageville, MO

44. The Relationship between Visual Mechanical Damage Seeds and Cotton Cool Test
Reagan Dunn, NC State, Raleigh, NC and Lori Unruh-Snyder, NC State, Zebulon, NC

45. Utilizing the Winseedle to Determine Surface Area Abnormalities for Visually Damage Cotton Seeds
Becca Karriker, NC State, Raleigh, NC and Lori Unruh-Snyder, NC State, Zebulon, NC

46. Integration of Cover Crops and Organic Amendments Under Different Tillage Systems: Impact on Soil Health and Cotton Productivity
Godfred Ankomah¹, Henry Yabbey Sintim² and Solomon Amissah¹, (1)University of Georgia, Tifton Campus, Tifton, GA, (2) University of Georgia, Tifton, GA

47. Drip Irrigation Scheduling Impact on Cotton Production in West Central Texas
Reagan L. Noland, Texas A&M Agrilife Extension Service, San Angelo, TX

48. Evaluation of 60-Inch Row Spacing for Cotton in Louisiana
Matt Foster and Theresa Mclemore, LSU AgCenter, St. Joseph, LA

49. Evaluation of Thryvon Cotton As a Control Method of Cotton Fleahoppers Pseudatomocelis seriatus (Reuter)
Brady P. Arthur, Texas A&M University, College Station, TX and David L Kerns, Texas A&M AgriLife Extension, College Station, TX
Consulting Considerations for Economic Sustainability with Soil Health Management Systems
Jessica A Kelton¹, Archie A Flanders², Dianna Bagnall³ and Cristine Morgan⁴, (1)Soil Health Institute, Ashford, AL, (2) Soil Health Institute, Morrisville, NC, (3)Soil Health Institute, Columbia, IL

Cotton Disease Council Posters

Arkansas Foliar Fungicide Trial Summary 2020 - 2022
Terry Spurlock¹, Rafael Zaia², Alejandro Rojas² and Robert Hoyle¹, (1)University of Arkansas System Cooperative Extension Service, Lonoke, AR, (2)University of Arkansas, Fayetteville, AR, (3)University of Arkansas System Cooperative Extension Service, Monticello, AR

Evaluating Sclerotial Production and Hyphal Growth By Phymatotrichopsis omnivora in Several Texas Soils
Maxwell Sturdivant, Texas A&M University, College Station, TX

Cotton Phenotypic Response to Foliar Disease Pressure Under Irrigated and Non-Irrigated Conventional and Sod-Based Rotation Systems
Matthew K Burger¹, David L. Wright¹, Ian Small¹ and Kelly George O’Brien², (1)University of Florida NFREC Quincy, Quincy, FL, (2)University of Florida, Quincy, FL

Evaluating Aerial Fungicide Carrier Rates in Georgia Cotton Seth Thomas McAllister¹, Robert Kemerait², Simerjeet Virk², Braxton G Crews³ and Bill Starr⁴, (1)University of Georgia Cooperative Extension, Dawson, GA, (2)University of Georgia, Tifton, GA, (3)UGA Extension, Buena Vista, GA, (4)The University of Georgia, Athens, GA

Multi-Year Evaluation of Cotton Cultivars and Nematicides in a Reniform Infested Field in Arkansas
Katherine M Brown, Michael Emerson and Travis R. Faske, University of Arkansas Division of Agriculture, Lonoke, AR

Cultivar Response to Inoculation with Xanthomonas citri pv. malvacearum in Mississippi in 2022
Thomas W. Allen, Mississippi State University, Delta Research and Extension Center, Stoneville, MS

Evaluation of Reniform Nematode Resistant Commercially Available Cotton Cultivars Compared with USDA Developed Cotton Breeding Lines
Adam Connor¹, Tessie Wilkerson², Thomas W. Allen³, Alejandra M Jimenez Madrid¹, Subina Tripathi¹, Nicholus Tadlock², Sally Stetina³ and Jack C. McCarty⁴, (1)Mississippi State University, Stoneville, MS, (2)Mississippi State University-Delta Research and Extension Center, Stoneville, MS, (3)Mississippi State University, Delta Research and Extension Center, Stoneville, MS, (4)USDA-ARS, Stoneville, MS, (5)USDA-ARS, Mississippi State, MS
58. **Assessment of Phytogen Cultivars and Seed Treatment Combinations for Reniform Nematode Control in Mississippi**
   Subina Tripathi, Mississippi State University, Stoneville, MS, Tessie Wilkerson, Mississippi State University-Delta Research and Extension Center, Stoneville, MS, Thomas W. Allen, Mississippi State University, Delta Research and Extension Center, Stoneville, MS and Johnathan Siebert, Phytogen, Leland MS, MS

59. **Report of the Cottonseed Treatment Committee for 2022**
   Heather M Kelly¹, Amanda Blazek¹, Akhtar Ali², Thomas W. Allen³, Tessie Wilkerson⁴, Robert Kemerait⁵, Kathy Lawrence⁶, Amanda Strayer-Scherer⁷, Cecilia Monclova-Santana⁸, Paul Price⁹, Alejandro Rojas⁹, Terry Spurlock¹⁰ and Ian Small¹¹, (1)University of Tennessee, Jackson, TN, (2)Department of Biological Science, The University of Tulsa, Tulsa, OK, (3)Mississippi State University, Delta Research and Extension Center, Stoneville, MS, (4)Mississippi State University-Delta Research and Extension Center, Stoneville, MS, (5)University of Georgia, Tifton, GA, (6)Auburn University, Auburn, AL, (7)Texas A&M AgriLife Extension, Lubbock, TX, (8)LSU AgCenter, Winnsboro, LA, (9)University of Arkansas, Fayetteville, AR, (10)University of Arkansas System Cooperative Extension Service, Lonoke, AR, (11)University of Florida, Quincy, FL

60. **Evaluation of the Fungal Interaction between *Fusarium oxysporum* f. sp. *vasinfectum* Race 4 and *Rhizoctonia solani* on Disease Development in Pima and Upland Cotton**
   Margaret L. Ellis¹, Ann Marie Maddox¹, Jorge Garcia¹, Christopher M Wallis², Robert B Hutmacher³ and Mauricio Ulloa⁴, (1)California State University, Fresno, CA, (2)Crop Diseases, Pests, and Genetics Research Unit, USDA-ARS SJVASC, Parlier, CA, (3)University of California Cooperative Extension, Davis, CA, (4)USDA-ARS, PA, CSRL, Plant Stress and Germplasm Development Research, Lubbock, TX

61. **Evaluation of a Nematode Seed Treatment for Root Knot Nematode Management in Georgia**
   Braxton Crews, University of Georgia, Preston, GA, Robert Kemerait, University of Georgia, Tifton, GA, Seth Thomas McAllister, University of Georgia Cooperative Extension, Dawson, GA and Taylor McDaniel, Randolph County Extension, Cuthbert, GA

62. **Blocking Gossypol Pathway in Cotton Negatively Impact Resistance to Seedling Disease Pathogens**
   Tanya A Wagner¹, Alois A. Bell², Clint W Magill³ and Jinggao Liu⁴; (1)USDA-ARS-ICCDRU, College Station, TX, (2)USDA-ARS ICCDRU, College Station, TX, (3)Texas A&M University, College Station, TX

63. **Characterization of FOV4 and New Fusarium Variants Isolated from Cotton Roots in California and Texas**
   Timothy O. Jobe¹, Jorge Garcia², Mauricio Ulloa³ and Margaret L. Ellis³; (1)USDA-ARS, Lubbock, TX, (2)California State University, Fresno, CA, (3)USDA-ARS, PA, CSRL, Plant Stress and Germplasm Development Research, Lubbock, TX
64. Assessing the Impact of Foliar Diseases through Timed Fungicide Applications and Spore Trapping
**Akhtar Ali**, University of Tulsa, Tulsa, OK, Thomas W. Allen, Mississippi State University, Delta Research and Extension Center, Stoneville, MS, Mandy Bish, University of Missouri, Columbia, MO, Kaitlyn Bissonnette, Cotton Inc., Cary, NC, Heather M Kelly, University of Tennessee, Jackson, TN, Robert Kemerait, University of Georgia, Tifton, GA, Daniel McDonald, Phenotype Screening, Knoxville, TN, Cecilia Monclova-Santana, Texas A&M AgriLife Extension, Lubbock, TX, John Mueller, Clemson University, Blackville, SC, Paul Price, LSU AgCenter, Winnboro, LA, Michael Prorock, mesur.io, Chapel Hill, NC, Ian Small, University of Florida, Quincy, FL, Terry Spurlock, University of Arkansas System Cooperative Extension Service, Lonoke, AR, Amanda Strayer-Scherer, Auburn University, Auburn, AL and Bradley R Wilson, University of Missouri, Portageville, MO

65. Estimating the Regional Distribution and Potential Impacts of Foliar Diseases through Spore Trapping in Commercial Settings
**Akhtar Ali**, University of Tulsa, Tulsa, OK, Thomas W. Allen, Mississippi State University, Delta Research and Extension Center, Stoneville, MS, Mandy Bish, University of Missouri, Columbia, MO, Kaitlyn Bissonnette, Cotton Inc., Cary, NC, Heather M Kelly, University of Tennessee, Jackson, TN, Robert Kemerait, University of Georgia, Tifton, GA, Daniel McDonald, Phenotype Screening, Knoxville, TN, Cecilia Monclova-Santana, Texas A&M AgriLife Extension, Lubbock, TX, John Mueller, Clemson University, Blackville, SC, Paul Price, LSU AgCenter, Winnboro, LA, Michael Prorock, mesur.io, Chapel Hill, NC, Ian Small, University of Florida, Quincy, FL, Terry Spurlock, University of Arkansas System Cooperative Extension Service, Lonoke, AR, Amanda Strayer-Scherer, Auburn University, Auburn, AL and Bradley R Wilson, University of Missouri, Portageville, MO

66. Evaluation of Commercial Upland Cotton Varieties for Susceptibility to Fusarium Wilt Race 4 in Texas
**Thomas Isakeit**, Texas A&M University, College Station, TX

67. A Survey of Plant-Parasitic Nematodes in Arizona Cotton Fields
**Jiahuai Hu**, University of Arizona, Tucson, AZ

68. A Multi-Year Review of Management of *Phymatotrichopsis omnivora* in Arizona Cotton Production Systems
**Randall Norton**, Jiahuai Hu and Kaleb Bryce, (1)The University of Arizona, Safford, AZ, (2)University of Arizona, Tucson, AZ

69. Cotton Disease Loss Estimate Committee Report, 2022
**Heather M Kelly**, University of Tennessee, Jackson, TN

70. The Diversity and Virulence of Oomycetes Associated with Cotton Seedlings in Alabama
**Oluwakemisola Olofintila and Zachary Noel**, Auburn University, Department of Entomology and Plant Pathology, Auburn University, AL
Cotton Engineering-Systems Conference Posters

71. Automating Data Annotation and Curation for a Weed Image Repository
Matthew Kutugata, Texas A&M University, College Station, TX

72. Detection of Developing and Mature Cotton Bolls Using a Convolutional Neural Network
Caleb M. Lindhorst, TAMU, College Station, TX

Cotton Ginning Conference Posters

73. Evaluation of Cottonseed Moisture Dynamics during Warehouse Storage
Brennan E. Teddy¹, Aaron P. Turner¹, Michael T. Plumblee² and Edward M. Barnes³, (1)Clemson University, Clemson, SC, (2) Clemson University, Blackville, SC, (3)Cotton Incorporated, Cary, NC

Cotton Improvement Conference Posters

74. PLD-Mediated Phosphatidic Acid Production Causes Imbibitional Chilling Injury in Upland Cotton (Gossypium hirsutum L.)
Lakhvir Kaur and Rosalyn B Angeles-Shim, Texas Tech University, Lubbock, TX

75. Status of the National Cotton Germplasm Collection
James Frelichowski¹, Janna Love¹, Lori Hinze¹, Don C Jones², Jodi Scheffler¹ and Joshua A. Udall¹, (1)USDA-ARS, College Station, TX, (2)Cotton Incorporated, Cary, NC, (3)USDA ARS, Stoneville, MS

76. CottonGen: A Central Data Repository and Analysis Resource for the Cotton Community
Jing Yu, Washington State University, Pullman, WA

Cotton Insect Research and Control Conference Posters

77. Impact of Aglogic and Thryvon Technology on Tobacco Thrips and Reniform Nematodes
Walker Brett Farmer¹, Jeff Gore², Angus Catchot³, Whitney Crow², Don Cook² and Brian K. Pieralisi¹, (1)Mississippi State University, Starkville, MS, (2)Mississippi State University, Stoneville, MS, (3)Mississippi State University, Mississippi State, MS

78. Influence of Chemicals Produced By Entomopathogenic Nematodes on Terpene Aldehyde Production in Cotton
Adriane N Fifield¹, Charles P.-C. Suh² and Anjie Helms¹, (1) Texas A&M University, College Station, TX, (2)USDA-ARS ICCDRU, College Station, TX

79. Evaluation of Planting Date and a Supplemental Foliar Spray on Thryvon Cotton As a Management Strategy for Tobacco Thrips
Sarah Hobby, University of Georgia, Tifton, GA

80. 2022 Cotton Insect Losses Estimates
Don Cook, Mississippi State University, Stoneville, MS
81. Thrips Control with in-Furrow and Foliar Insecticides in Arkansas Cotton
Matthew G Mann, University of Arkansas, Jonesboro, AR and Glenn Studebaker, University of Arkansas, Keiser, AR

82. Assessment of Droplet Size, Swath Width, and Anthomonos grandis Mortality Using Drone Applications of Malathion* in Brazil
Destiny West, Perfect Flight, Ames, IA

83. Observing Seasonal Dynamics of Aphids Infesting Cotton and the Spread of Cotton Leafroll Dwarf Virus Spread in Alabama
Jessica B Mahas¹, John W. Mahas¹, Charles Ray², Adam Kesheimer³, Kassie Conner³ and Alana Lynn Jacobson³, (1)Auburn University, Auburn, AL, (2)Mississippi State, Mississippi State, MS

84. Management of Aphids and Whiteflies with Insecticides in California Cotton: Evaluating Influence of Coverage on Efficacy
Ian M Grettenberger, University of California-Davis, Davis, CA, CA, Buddhi Achhami, University of California, Davis, Davis, CA and Treanna Pierce, University of California, Davis, Five Points, CA

85. Large Plot Evaluation of Susceptibility to Tarnished Plant Bug in Cotton Cultivars Exhibiting Resistance Small Plots
Glenn Studebaker, University of Arkansas, Keiser, AR and Matthew G Mann, University of Arkansas, Jonesboro, AR

86. Interaction of N-Fertilizer Rates and Insecticide Termination Timing for Tarnished Plant Bug in NE Arkansas Cotton Grown in Rotation with Peanut
Tina Gray Teague, Ark State Univ / Univ Ark Sys Div of Ag, State University, AR, N. Ray Benson, University of Arkansas System Division of Agriculture, State University, AR and John W. Nowlin, Arkansas State University, State University, AR

87. Herbicide-Resistant Italian Ryegrass in Arkansas
Lou Adams¹, Tom Barber², Jason K Norsworthy¹ and Thomas R Butts³, (1)University of Arkansas, Fayetteville, AR, (2)University of Arkansas-Extension, Lonoke, AR, (3)University of Arkansas, Lonoke, AR

88. Evaluation of Cotton Tolerance and Palmer Amaranth Residual Control with Loyant Coated Fertilizer Applied at Different Growth Stages
Summer L Pritchett¹, Jason K Norsworthy², David Smith², Ty C Smith², Tristen A Avent¹ and Lon Tom Barber¹, (1)University of Arkansas Crop, Soil, and Environmental Science Weed Science Program, Fayetteville, AR, (2)University of Arkansas, Fayetteville, AR, (3)Director Newport Extension Center, (CES)-Cooperative Extension Service, Lonoke, AR
89. Glufosinate Mixed with Glutathione S-Transferase Inhibitors or Safilufenacil: Impact on Weed Control and Cotton Injury Pamela Carvalho-Moore, Jason K Norsworthy, Leonard B Piveta, Tanner A King, Matthew C Woolard, Mason Castner and Lon Tom Barber, (1)University of Arkansas, Fayetteville, AR, (2) Director Newport Extension Center, (CES)-Cooperative Extension Service, Lonoke, AR


91. Cover Crop Residue Effects on the Germination of Troublesome Cotton Weeds Annu Kumari, Andrew J. Price, Steve Li and Audrey V. Gamble, (1)Auburn University, Auburn, AL, (2)USDA, Auburn, AL


93. Comparison of Broadcast vs See & Spray Programs™ in Xtendflex Cotton Tristen A Avent, Jason K Norsworthy, Mason Castner, William Patzoldt, Lauren M Schwartz-Lazaro, Michael M Houston, Wesley Everman and Diego J Contreras, (1)University of Arkansas Crop, Soil, and Environmental Science Weed Science Program, Fayetteville, AR, (2)University of Arkansas, Fayetteville, AR, (3)Blue River Technology, Sunnyvale, CA, (4)Blue River Technology, Greenville, MS, (5)North Carolina State University, Raleigh, NC

94. Cotton Response to Low Concentrations of Diflufenican in Soil Matthew C Woolard, Jason K Norsworthy, Casey H Arnold, Tanner A King and Lon Tom Barber, (1)University of Arkansas, Fayetteville, AR, (2)Director Newport Extension Center, (CES)-Cooperative Extension Service, Lonoke, AR

95. Evaluation of Weed Seed Retention in Cotton Harvesters Sarah A Chu, Benjamin M. McKnight, Gaylon Morgan, Michael Walsh and Muthu Bagavathiannan, (1)Texas A&M University, College Station, TX, (2)Texas A&M AgriLife Extension Service, College Station, TX, (3)Cotton Incorporated, Cary, NC, (4)The University of Western Australia, Perth, Australia

96. Preemergence Herbicide Programs for Extended Residual Weed Control Noah H Reed, University of Arkansas Fayetteville, Fayetteville, AR, Lon Tom Barber, Director Newport Extension Center, (CES)-Cooperative Extension Service, Lonoke, AR, Jason K Norsworthy, University of Arkansas, Fayetteville, AR and Thomas R Butts, University of Arkansas, Lonoke, AR
97. Palmer Amaranth Control Options in the Absence of Dicamba
Tyler S Soignier¹, Brian K. Peralisii, Darrin M. Dodds², Jason Krutz², Dave Spencer², Whitney Crow², William Joseph Rutland¹, Eli B. Hobbs³ and Bradley Norris², (1)Mississippi State University, Starkville, MS, (2)Mississippi State University, Mississippi State, MS, (3)Mississippi State University, Stoneville, MS

98. Suspected Glyphosate Resistant Johnson Grass Found in Texas
Ryan Allen Matschek, Texas A&M AgriLife Extension Service, San Angelo, TX, Reagan L. Noland, Texas A&M AgriLife Extension Service, San Angelo, TX and Muthu Bagavathiannan, Texas A&M University, College Station, TX

99. Site-Specific Treatment of Late-Season Weed Escapes in Cotton Using a Remotely Piloted Aerial Application System
Ubaldo Torres¹, Daniel E Martin², Bishwa Sapkota¹, Bholuram Gurjar¹, Matthew Kutugata¹ and Muthukumar V Bagavathiannan¹, (1)Texas A&M University, College Station, TX, (2)USDA-ARS, College Station, TX

100. Influence of Seed Size on Cotton Injury from Soil Applied Herbicides at Planting
Sarah K. Holladay¹, Mike Marshall², Michael A. Jones¹ and Michael T. Plumblee², (1)Clemson University, Florence, SC, (2)Clemson University, Blackville, SC

101. Impact of Preemergence Herbicide Rate on Palmer Amaranth Control and Injury to Cotton
Mason Castner¹, Jason K Norsworthy¹, Casey H Arnold¹ and Tom Barber², (1)University of Arkansas, Fayetteville, AR, (2)University of Arkansas-Extension, Lonoke, AR

102. Isoxaflutole Tank Mixtures Efficacy on Volunteer Peanut and Weed Control
Livia Ianhez Pereira, Steve Li, Ryan Langemeier and Justin McCaghren, Auburn University, Auburn, AL

103. Prickly Sida Control in Cotton
Julie L Reeves and Larry E Steckel, University of Tennessee, Jackson, TN

104. Cotton Response to Reduced Rates of Reviton
Donnie K. Miller¹, Tom Barber¹, Jason A. Bond¹, Daniel O Stephenson IV and Ashley M Barfield¹, (1)LSU Ag Center, St. Joseph, LA, (2)University of Arkansas-Extension, Lonoke, AR, (3)Mississippi State, Stoneville, MS, (4)LSU AgCenter, Alexandria, LA

105. Palmer Amaranth (Amaranthus palmeri) Seedbank Management through Light Quality Manipulation
Sarah E. Kezar, Shuyang Zhen and Muthukumar V Bagavathiannan, Texas A&M University, College Station, TX
106. **Comparison of Alite 27 Residual Tankmix Combinations**

Jennifer Dudak¹, Zachary R. Treadway¹, Todd A Baughman¹, Gregory B. Baldwin¹, Tom Barber², Jason A. Bond³, Charlie Cahoon³, A. Stanley Culpepper⁴, Peter A. Dotray⁵, Adam C. Hixson⁶, J. Wayne Keeling⁷, Steve Li⁸, Michael W. Marshall⁹, Reagan L. Noland¹⁰, Scott Nolte¹¹, Larry E Steckel¹², Daniel O Stephenson IV¹³ and Maxwell E. Smith¹⁴, (1)Oklahoma State University, Ardmore, OK, (2)BASF, Durham, NC, (3)University of Arkansas-Extension, Lonoke, AR, (4)Mississippi State, Stoneville, MS, (5)North Carolina State University, Raleigh, NC, (6)University of Georgia, Tifton, GA, (7)Texas A&M AgriLife Research and Extension Service, Lubbock, TX, (8)BASF, Lubbock, TX, (9)Texas A&M AgriLife Research Center, Lubbock, TX, (10)Auburn University, Auburn, AL, (11)Clemson University - Edisto REC, Blackville, SC, (12)Texas A&M Agrilife Extension Service, San Angelo, TX, (13)Texas A&M University, College Station, TX, (14)University of Tennessee, Jackson, TN, (15)LSU AgCenter, Alexandria, LA, (16)Texas Tech University, Lubbock, TX

107. **Weed Management Programs in Stoneville Cotton (ST 4550) for Long-Term Glyphosate-Resistant Palmer Amaranth Control**

Taghi Bararpour, Mississippi State University, Stoneville, MS

108. **Residual Activity of Direx, Caparol, Cotoran, Brake, Staple, Dual Magnum, Prowl, and Warrant on Glyphosate-Resistant Palmer Amaranth Control**

Taghi Bararpour, Mississippi State University, Stoneville, MS

109. **Glyphosate-Resistant Palmer Amaranth Control in Enlist Cotton**

Taghi Bararpour, Mississippi State University, Stoneville, MS

110. **Influence of a Cereal Rye Cover Crop and Conservation Tillage on the Critical Weed Free Period in Cotton**

Andrew J. Price¹, Nicholas E. Korres², Jason K Norsworthy² and Steve Li³ (1)USDA-ARS, National Soil Dynamics Unit, Auburn, AL, (2)University of Arkansas, Fayetteville, AR, (3)University of Tennessee, Knoxville, TN

111. **Impact of Annual and Occasional Tillage on Cotton Growth and Development Relative to a No-till Control**

Patricia de Sousa Soares¹, Lori Duncan², Samuel Reeves¹, Matthew Davis¹ and Tyson B Raper¹, (1)University of Tennessee, Jackson, TN, (2)University of Tennessee, Knoxville, TN

112. **Sheep As a Potential Tool for in-Season Weed Control in Cotton**

Matthew Stewart, Texas A&M University, College Station, TX, Reagan L. Noland, Texas A&M AgriLife Extension Service, San Angelo, TX, Benjamin M. McKnight, Texas A&M AgriLife Extension Service, College Station, TX and Reid Redden, Texas A&M University, San Angelo, TX

113. **Implementation of Heavy Cover Crop to Increase on-Farm Sustainability**

Mary Logan Tostenson¹, Wesley M Porter¹, Seth Thomas McAllister² and Kaylyn Reagin¹, (1)University of Georgia, Tifton, GA, (2)University of Georgia Cooperative Extension, Dawson, GA

**Sustainability Posters**

111. **Implementation of Heavy Cover Crop to Increase on-Farm Sustainability**

Mary Logan Tostenson¹, Wesley M Porter¹, Seth Thomas McAllister² and Kaylyn Reagin¹, (1)University of Georgia, Tifton, GA, (2)University of Georgia Cooperative Extension, Dawson, GA
114. Comparing Profitability of Single Specie Vs. Multi-Specie Cover Crops in South Georgia
Kelvin Kwadjo Bobbie, Department of Agricultural and Applied Economics, University of Georgia, Athens, GA, Seth Thomas McAllister, University of Georgia Cooperative Extension, Dawson, GA, Amanda R Smith, Extension Economists, Department of Agricultural & Applied Economics, Tifton, GA and Yangxuan Liu, University of Georgia, Tifton, GA

115. Highly Hazardous Pesticide Phase-out for US Cotton Growers: Alternatives, Risks, and Opportunities
Karen Wynne, Better Cotton Initiative, Huntsville, AL, Alfred J Fournier, University of Arizona, Tucson, AZ and Peter C Ellsworth, University of Arizona, Maricopa, AZ

116. Better Cotton - Six Years of Grower-Reported Production and Practice Data

117. Increasing Profitability By Reducing Input Costs Facilitated By Improving Soil Health
Bill Robertson, Joe McAlee, Colton Henderson and Darlene Madden, University of Arkansas System Division of Ag, Newport, AR

118. Cotton Research Verification Sustainability Program Update
Bill Robertson¹, Joe McAlee¹, Breana Watkins² and Darlene Madden¹, (1)University of Arkansas System Division of Ag, Newport, AR, (2)University of Arkansas System Division of Ag, Little Rock, AR

119. Improving Sustainability: Program to Demonstrate Implementation and Benefits of the U.S. Cotton Trust Protocol and Better Cotton Initiative Better Cotton Program
Bill Robertson¹, Joe McAlee¹, Colton Henderson¹, Karen Wynne², Andrew Jordan³, Jesse Daystar⁴, Bruce Kirksey⁴ and Darlene Madden¹, (1)University of Arkansas System Division of Ag, Newport, AR, (2)Better Cotton Initiative, Huntsville, AL, (3) Jordan Associates Ag and Bio Engineering Services, Cordova, TN, (4)Cotton Incorporated, Cary, NC, (5)Agricenter International, Memphis, TN

120. Developing Improved Nitrogen Recommendations for Florida Cotton Growers
Libbie Johnson, University of Florida Santa Rosa County, Jay, FL, Ethan Carter, University of Florida Jackson County, Marianna, FL, Joseph Iboyi, UFL, Jay, FL, Hardeep Singh, University of Florida, Jay, FL and Lakesh Sharma, UFL, Gainesville, FL
121. **Promoting Irrigation Efficiency and Educational Opportunities through the UGA AgWET Program**

Jason E. Mallard\(^1\), Blake Carter\(^2\), Jackson C. Cloud\(^3\), Scout Carter\(^4\), Sydni C. Ingram\(^5\), David Hall\(^6\), James Joyce\(^7\), Madison Warbington\(^8\), Seth Thomas McAllister\(^9\), Colton Scott Moon\(^10\), Jay Porter\(^11\), Peyton Sapp\(^12\), Justin Shealey\(^13\), Aubry Shirley\(^14\), Ashley Smith\(^15\), Savannah Tanner\(^16\), William G. Tyson\(^17\) and Wesley M Porter\(^18\), (1)University of Georgia Extension, Statesboro, GA, (2) University of Georgia Cooperative Extension Service, Springfield, GA, (3)University of Georgia Cooperative Extension, Cairo, GA, (4)University of Georgia Extension, Waycross, GA, (5)University of Georgia, Thomasville, GA, (6)UGA Extension, Cochran, GA, (7) UGA Extension, Dublin, GA, (8)UGA Extension, Oglethorpe, GA, (9)University of Georgia Cooperative Extension, Dawson, GA, (10) University of Georgia, Hawkinsville, GA, (11)University of Georgia Cooperative Extension, Waynesboro, GA, (12)UGA Extension, Statenville, GA, (13)University of Georgia, Reidsville, GA, (14) University of Georgia, Douglas, GA, (15)University of Georgia, Swainsboro, GA, (16)University of Georgia Cooperative Extension, Statesboro, GA, (17)University of Georgia, Tifton, GA
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 2023 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 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, select program 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.

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