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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<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 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>
</tr>
<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>
<th>Event</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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<tr>
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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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<tr>
<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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<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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<tr>
<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>8:00a–10:30a</td>
<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@sciencessocieties.org

**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
New Orleans Marriott Hotel
Meeting Room Floor Plans

4th Floor

Newsroom

Balcony N 23 x 42 x H
Balcony M 26 x 42 x H
Balcony L 23 x 42 x H

Iberville 35 x 26 x H
Bacchus 35 x 26 x H
Regent 35 x 26 x H
Bonaparte 35 x 26 x H

Balcony I 23 x 42 x H
Balcony J 26 x 42 x H
Balcony K 23 x 42 x H

Ballroom Below

Canal Street

Speaker Practice Room

Meeting Room Floor Plans
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. Josesph, 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
Wednesday, January 11, 2023

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 Gholson1, Martin Locke2 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. Lewis3, (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 Goebel7, Avay Risal1 and Nicholas Duffield’, (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
Wednesday, January 11, 2023

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 Tucker, Simerjeet Virk, Jeremy M. Kichler, Curt Majeski and Lavesta C. Hand, (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 Cannon, Jason Warren, Sumit Sharma and Seth A. Byrd, (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 Trestle, 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. Prieralis, Eli B. Hobbs, Darrin M. Dodds, Angus Catchot, Brendan Zurweller and Hunter Perry, (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 Jacobson³, (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
Ameé 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

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
COTTON AGRONOMY, PHYSIOLOGY & SOILS
WEDNESDAY EARLY AFTERNOON
Galerie 5 - 1:00 PM-3:15 PM

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. Pialisis¹², Tyson B Raper¹³, Hunter Frame¹⁴, Michael A. Jones¹⁵, Randy Norton¹⁶, David L. Wright¹⁷ and Sheeja George¹⁸, (1)University of Georgia, Tifton, GA, (2)Cotton Incorporated, Cary, NC, (3)Texas A&M AgLife Extension, Lubbock, TX, (4)NC State, Zebulon, NC, (5)NC State University, Rocky Mount, 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)Clemson University, Florence, SC, (15)University of Arizona, Safford, AZ, (16)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. Pialisis¹, 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, Stoneville, MS, (4)Mississippi State University, Verona, MS

2:00 PM  Evaluation of Cotton Nitrogen Management Strategies with the DSSAT CSM CropGRO-Cotton Model
 Shelby Sangster¹, Arianna Toffanin², 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 Chaffin¹, (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. Perialisi¹, Darrin M. Dodds², Jason Krutz³, Dave Spencer⁴, Whitney Crow⁴, William Joseph Rutland⁴, Eli B. Hobbs⁴ and Bradley Norris⁵, (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. Holladay¹, Michael T. Plumblee¹, Michael A. Jones¹ and Mike Marshall¹, (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 Thermotolerance in Diverse Cotton Genotypes
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

2:15 PM  Estimation of Canopy Nitrogen Content in Dryland Cotton from Sentinel-2 Images
Rupak Karn¹, Wenxuan Guo², Oluwatola I Adefede¹, 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 Ankohm, University of Georgia, Tifton, GA

2:45 PM  Understanding the Changes in Cotton Biomass, Lint, and Yield Components over the Past 70 Years
Jagdeep Singh¹, Audrey V. Gamble¹, Steve M Brown¹, Jenny Koebernick¹
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 Sehgal1, Gurpreet Kaur2, Gurbir Singh2, Haydee E Laza3, Esmaeil Amiri1, Wenxuan Guo4, Gurpreet Virk4, Daryl Chastain5, 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 Magill2 and Jinggao Liu3, (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

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 Schlarbaum, Kassie Conner, Audrey V. Gamble, Kipling S. Balkcom, David Fang and Alana Lynn Jacobson, (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 Thompson, Adriane N Fifield, Charles P-C. Suh and Anjel M Helms, (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 Schloemer, Kathy S Lawrence, Scott Graham, Koon-Hui Wang and Brent Sipes, (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 Schumacher¹, (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, Alejandra 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 Wilkerson² 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 Odunyi, 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 Landivar2, (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 Mwittra 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 Faizy Mail1, Joe Mari J. Maja1, Gilbert A. Miller2, Michael W. Marshall2, Matthew Cutulle3 and Edward M. Barnes4, (1)Clemson University, Blackville, SC, (2)Clemson University - Edisto REC, Blackville, SC, (3)Clemson University, Charleston, SC, (4)Cotton Incorporated, Cary, NC

COTTON ENGINEERING-SYSTEMS
WEDNESDAY EARLY AFTERNOON

Preservation Hall Studio 4 - 1:00 PM-3:15 PM

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 Lowe1, Gary Daniel Chesser, Jr.2 and Brian K. Peralis3, (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 Lessl2, (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 ICCDRU, 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 Cutulle1, Jun Luo4 and Edward M. Barnes4, (1)Clemson University, Blackville, SC, (2)Clemson University, Charleston, SC, (3)Clemson University, Spartanburg, SC, (4)Cotton Incorporated, Cary, NC

2:15 PM  Effect of Schlagel Closing Wheels upon Cotton Production
Sawyer Przilas1, Tyson Feagler2, Marshall Tolleson2, Joshua Ray Johnson1, Alexis Schultz2, 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. Wanjura2 and Edward M. Barnes3, (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-Effecter 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 Landivar3 and Jose L Landivar3, (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**

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<th>Time</th>
<th>Session</th>
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<tr>
<td>1:30 PM</td>
<td>2022 U.S. Cotton Quality Update</td>
<td>Robert L Seals, USDA-AMS</td>
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<tr>
<td>1:45 PM</td>
<td>Cotton Gin Insurance Is in Turmoil; Where Do We Go from Here?</td>
<td>Kyle Smith, Triangle Insurance</td>
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<tr>
<td>2:00 PM</td>
<td>Cotton Seed Temperature Monitoring</td>
<td>Michael Prachar, Tri-States</td>
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<tr>
<td>2:15 PM</td>
<td>New Additions to the Cherokee Product Line</td>
<td>Michael J. Greene, Cherokee</td>
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<tr>
<td>2:30 PM</td>
<td>Kelley Electric Gin Logistics Modern Bale Tracking and Data Acquisition</td>
<td>Charles H Knabb and Lucas N Heer, Kelley Electric</td>
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<tr>
<td>2:45 PM</td>
<td>Product Updates from Lummus Ag Technology - 2023</td>
<td>Ross D. Rutherford, Lummus</td>
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<tr>
<td>3:00 PM</td>
<td>Inline Real-Time Moisture Sensing System for Gin Cotton</td>
<td>Filip To, Lucas Gay, Joe W. Thomas and Sean P. Donohoe, (1) Mississippi State University, Mississippi State, MS, (2) Mississippi State University, Mississippi State, MS, (3) USDA ARS, Stoneville, MS</td>
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**COTTON GINNING**

**WEDNESDAY LATE AFTERNOON**

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<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>3:45 PM</td>
<td>Urgent Prescription- Less Gin More Tonic</td>
<td>Marinus H.J van der Sluijs, Textile Technical Services, Geelong, VIC, Australia</td>
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<tr>
<td>4:15 PM</td>
<td>Tama's Proactive Actions to Minimize Plastic Contamination in Cotton</td>
<td>James Cundiff, Tama USA, Dubuque, IA</td>
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Wednesday, January 11, 2023

4:30 PM  Removing Plastic Contamination with Multiple Seed Cotton Cleaners
Derek P. Whitelock¹, Jaya Shankar Tumuluru¹, Carlos B. Armijo¹, Neha Kothari² and Vikki B. Martin², (1)USDA-ARS Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM, (2)Cotton Incorporated, Cary, NC

4:45 PM  Auto-Calibration Design for a Gin-Stand Based Machine-Vision Inspection System for Plastic Contamination
Mathew G. Pelletier, John D. Wanjura and Gregory A. Holt, USDA-ARS Cotton Production and Processing Research Unit, Lubbock, TX

5:00 PM  Progress Report: Cryogenically Treated Gin Saws
Derek P. Whitelock¹, Paul A. Funk¹, Joe W. Thomas³, Carlos B. Armijo¹, Gregory A. Holt¹ and Jaya Tumuluru⁴, (1)USDA-ARS Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM, (2)USDA ARS, Stoneville, MS, (3)USDA-ARS Cotton Production and Processing Research Unit, Lubbock, TX, (4)Southwestern Cotton Ginning Research Laboratory, Mesilla Park, NM

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 Parris¹, Christopher Saski², Don C Jones², Jim Olvey² 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 Wan, Sameer Khanal, Zhigang Li², Sonika Kumar², Nino Brown¹, Pawan Kumar¹, Andrew Paterson⁴, Neha Kothari⁴, Don C Jones⁵, Christopher Saski⁶ 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 Karm¹, (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 Kuraparthy, 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. Udall¹ and Neha Kothari¹, (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. Bridgeland¹, Joshua A. Udall¹, Kent D. Chapman², Kater D. Hake³ and Susan Y. Jaconis¹, (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 Parris³, (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 Olvey2, Christopher Saski3 and Stephen Parris3, (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 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 Confering 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)USDA-ARS, Mississippi State, MS, (5)Cotton Incorporated, Cary, NC, (6)Cotton Inc., Cary, NC

CANCELED

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 Saravitz2, Hsuan Chen4 and Frank Louws1, 1Plant 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
Effects of Simulated Injury By the Tarnished Plant Bug, *Lygus lineolaris*, on Early Season Cotton Plant Morphology and Yield across the Southeastern United States

Shelby Durden¹, Jeremy Greene², Francis Reay-Jones², Scott Graham⁴, Phillip Roberts³, Sally Taylor⁴, Silvana Paula-Moraes², Dominic Reisig⁵, Anders S. Huset⁴ and Alana Lynn Jacobson⁶, (1)64 Research Street, Blackville, SC, (2)Clemson University, Blackville, SC, (3)Clemson University, Florence, SC, (4)Auburn University, Auburn, AL, (5)University of Georgia, Tifton, GA, (6)Virginia Tech, Suffolk, VA, (7)University of Florida, Jay, FL, (8)North Carolina State University, Plymouth, NC, (9)North Carolina State University, Raleigh, NC

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

Walker Brett Farmer¹, Jeff Gore¹, Angus Catchot², Whitney Crow¹, Don Cook¹ and Brian K. Pieralisi¹, (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 Permenter¹, Whitney Crow¹, Jeff Gore¹, Angus L. Catchot² and Don Cook¹, (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 Huoni¹, Whitney Crow¹, Jeff Gore¹, Angus L. Catchot² and Don Cook¹, (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 Davis¹, Benjamin C Thrash³, Nick R. Bateman³, Matthew G Mann⁴, Andrew Plummer⁴, Taylor Ibbotson⁴, Garrett Felts⁵, Chase A Floyd⁷, Caleb Rice⁷, Trevor B Newkirk⁸, Adam Whitfield⁹ and Zack Murray⁹, (1)UADA,

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 Fortenberry, Angus Cachtch, Don Cook, Whitney Crow and Jeff Gore, (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
COTTON INSECT RESEARCH & CONTROL CONFERENCE
WEDNESDAY EARLY AFTERNOON - SESSION B

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 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

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

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
Wednesday, January 11, 2023

4:45 PM  Insecticide Application Efficacy of sUAS As Compared to Traditional Delivery Systems
Hunter J Blalock1, Whitney Crow2, Angus Catchot3, Darrin M. Dodds3 and Bryan Whitten1ton4, (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 *Pseudatomomcelis 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
John W. Mahas1, Jessica B Mahas1, Alana Lynn Jacobson1, Charles Ray2, Phillip Roberts1, Michael Toews1, Jeremy Greene4, George G. Kennedy5, Sally Taylor6, Silvana Paula-Moraes7, Jeff Gore8, Whitney Crow9, Scott D. Stewart4, David L Kerns10 and Suhas Vyavhare11, (1)Auburn University, Auburn, AL, (2)Mississippi State, Mississippi State, MS, (3)University of Georgia, Tifton, GA, (4)Clemson University, Blackville, SC, (5)North Carolina State University, Raleigh, NC, (6)Virginia Tech, Suffolk, VA, (7)University of Florida, Jay, FL, (8)Mississippi State University, Stoneville, MS, (9)University of Tennessee, Jackson, TN, (10)Texas A&M AgriLife Extension, College Station, TX, (11)Texas A&M AgriLife Research Center, Lubbock, TX

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 Clark1, Spencer Behmer1, Anjel M Helms1, Ryan W Kurtz2, Keyan Zhu-Salzman1 and Gregory A. Sword1, (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. Whitleock1, 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 Shumate2, Brendan Kelly3, Alexandre Soares-Da-Silva1, Yildirim Kocoglu1, Hamed Sari-Sarrafi4, Md Alamgir Kabir5, Namuna Adhikari6 and Aniruddha Ray7, (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 Hague³, (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
COTTON WEED SCIENCE RESEARCH
WEDNESDAY EARLY MORNING

Preservation Hall Studio 9 - 8:00 AM-10:00 AM

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 Barber¹, (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 Barber¹ 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. Price², Steve Li³ and Audrey V. Gamble³, (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 Barber¹, (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 Houston³, Wesley Everman² and Diego J Contreras², (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

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 Houston³, (1)University of Arkansas, (2)University of Arkansas, Fayetteville, AR, (3)Blue River Technology, Sunnyvale, CA
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
Preservation Hall Studio 9 - 10:30 AM-12:00 PM

Sarah E. Kezar¹, Kyle R. Russell², Fernando Oreja³, Sandy Ethridge³, April Dobbs¹, Delaney C. Foster¹, Daniel Hathcoat¹, Michael M. Houston², David Smith¹, Peter A. Dotray², Jason K Norsworthy², Ramon Leon Gonzalez², Gaylon Morgan⁴ and Muthukumar V Bagavathiannan¹, (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 Barber¹, Charlie Cahoon¹, A. Stanley Culpepper², Adam C. Hixson², Steve Li³ 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. Smith¹, Blaine A. Patton¹, Kyle R. Russell¹, Bobby Rodriguez¹ and Kyle R. Russell¹, (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 + Gramicinicide 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,
Lubbock, TX, Irish Lorraine B Pabuayon, LSU, Rayne, LA and Glen Ritchie, Department of Plant & Soil Science, Texas Tech University, Lubbock, TX

1:15 PM  How Does Cotton Seed Quality Influence Tolerance to PRE Herbicides?  
Jacob C Forehand, North Carolina State University, Raleigh, NC

1:30 PM  Evaluation of Residual Palmer Amaranth Control with Soil-Applied Herbicides  
Mason Castner¹, Jason K Norsworthy¹, Samuel Noe¹ and Tom Barber², (1) University of Arkansas, Fayetteville, AR, (2)University of Arkansas-Extension, Lonoke, AR

1:45 PM  Preemergence Control of Palmer Amaranth with Tank-Mix Partners That Include Dicamba  
Blaine A. Patton, Texas Tech University, Lubbock, TX, C.D. Ray White, Texas A&M AgriLife Research, Lubbock, TX and Peter A. Dotray, Texas A&M AgriLife Research and Extension Service, Lubbock, TX

2:00 PM  Performance of the Axant™ Flex Cotton System  
Zachary R. Treadway¹, Jennifer Dudak¹, Todd A Baughman¹, Adam C. Hixson² and Gregory B. Baldwin², (1)Oklahoma State University, Ardmore, OK, (2)BASF, Lubbock, TX, (3)BASF, Research Triangle Park, NC

2:15 PM  Axant Flex Cotton Response and Palmer Amaranth Control Using Systems That Include Alite 27  
Maxwell Edward Smith, Texas Tech University, Lubbock, TX, Peter A. Dotray, Texas A&M AgriLife Research and Extension Service, Lubbock, TX and Adam C. Hixson, BASF, Lubbock, TX

2:30 PM  Alternative Methods of Managing Off-Target Movement of Dicamba in Texas Cotton Production Systems  
Hayden Taylor¹, Scott Nolte¹, Peter A. Dotray¹ and Josh McGinty³, (1)Texas A&M University, College Station, TX, (2)Texas A&M AgriLife Research and Extension Service, Lubbock, TX, (3)Texas A&M AgriLife Extension Service, Corpus Christi, TX

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 Lee⁴, Amin Nouri⁵, Mark Radosевич⁵, Debasis Saha⁵ and Sean Schaeffer⁰, (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

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-Borbe, Sandhya Karki, Richard C. Woodruff, N. Ray Benson, Tina Gray Teague and Michele L. Reba, (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
8:00 AM  Soil Organic Carbon Stocks in Texas Cropping Systems  
Joseph Alan Burke, Katie L. Lewis, Paul DeLaune, Jamie Foster, Jourdan M. Bell, and Christopher Cobos, (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. Farmaha, Alan J Franzluebbers, Shikha Dubey, Gaylon Morgan, Brian Arnal, Hunter Frame, Bradley R Wilson, Brian K. Pieralisi, John L. Snider, Katie L. Lewis, Benjamin M. McKnight, Julie A. Howe, and Kipling S. Balkcom, (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)Kansas 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-Snyder, Marisa Crisp, Reagan Dunn, and Becca Karriker, (1) NC State, Zebulon, NC, (2)NC State, Raleigh, NC

9:15 AM  Utilizing Remote Sensing Systems to Assess Cotton Fiber Quality Parameters  
Mahendra Bhandari, Pankaj Pal, Jose L Landivar, Murilo Maeda, and Juan Landivar, (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 AGRONY, 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 Olvey2, Don C Jones3, Christopher Sasaki4 and Stephen Parris5, (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 Sabanadzovic4, (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
COTTON DISEASE COUNCIL
THURSDAY LATE MORNING

Preservation Hall Studio 8 - 10:30 AM-12:00 PM

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

11:10 AM Utility of New Resistant Cotton Varieties for Management of Reniform Nematode (Rotylenchulus reniformis) and Southern Root-Knot Nematode (Meloidogyne incognita) in Louisiana
Tristan Watson, LSU AgCenter, Baton Rouge, LA

11:20 AM Impacts of Traditional and Translational Resistance on Bacterial Blight of Cotton
Brian Kvitko1, Jovana Mijatovic1, Philip Adepoju1 and Robert Kemerait2, (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
Elias Zuchelli1, Shelly Neill Pate1, Rachel R. Guyer1, E. Schutz1, M. B. Bayles2, Akhtar Ali3, Thomas W. Allen4, Tessie Wilkerson5, Robert Kemerait6, Kathy S Lawrence7, Amanda Strayer-Scherer8, Cecilia Monclova-Santana9, Terry A. Wheeler10, Madison L. Woodward11, Jason Woodward11, Lindsey D. Thiessen12, Thomas Isakel13, Hillary Mehl14, Paul Price15, P. D. Colyer16, Alejandro Rojas17, Terry Spurlock18, Ian Small19 and Heather M Kelly1, (1) University of Tennessee, Jackson, TN, (2) Oklahoma State University, Stillwater, OK, (3) Department of Biological Science, The University of Tulsa, Tulsa, OK, (4) Mississippi State University, Delta Research and Extension Center, Stoneville, MS, (5) Mississippi State University-Delta Research and Extension Center, Stoneville, MS, (6) University of Georgia, Tifton, GA, (7) Auburn University, Auburn, AL, (8) Auburn University, Auburn, AL, (9) Texas A&M AgriLife Extension, Lubbock, TX, (10) Texas A&M AgriLife Research, Lubbock, TX, (11) Corteva Agriscience, Indianapolis, IN, (12) NC State University, Raleigh, NC, (13) Texas A&M University, College Station, TX, (14) Virginia Tech, Suffolk, VA, (15) Louisiana State University, Winnsboro, LA, (16) LSU AgCenter, Bossier City, LA, (17) University of Arkansas, Fayetteville, AR, (18) University of Arkansas, Monticello, AR, (19) University of Florida, Quincy, FL
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 Conveyor 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. Pelletier¹, (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
Thursday, January 12, 2023

Cotton Insect Research and Control Conference

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

Salons A - C - 8:00 AM-9:30 AM

8:00 AM  Observations of Thryvon and Grower Standards for Thrips Control in Commercial Fields
Phillip Roberts¹, David Shane Curry², Michasia Dowdy³, Sarah Hobby⁴, Sydni C. Ingram⁴, Jeremy M Kichler⁴, Seth Thomas McAllister⁴, Peyton Sapp⁷, Ashley Smith⁴ and William G. Tyson⁷, (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 Thryvon™ 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, Winnsboro, 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. Huset, North Carolina State University, Raleigh, NC

9:15 AM  Management of Thrips in Mid-South Cotton
Don Cook¹, Whitney Crow¹, Sebe Brown¹, Benjamin C Thrash³, David Kerns⁴, Glenn Studebaker⁴, Tyler B Towles⁶ and Nick R. Bateman⁷, (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 - Keiser, AR, (6)LSU AgCenter, Winnsboro, LA, (7) 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 Brown¹, Don Cook¹, Whitney Crow¹, Haley D Kennedy⁴, Glenn Studebaker¹, Benjamin C Thrash³, Tyler B Towles⁶ and Fei Yang⁹, (1)Texas A&M AgriLife Extension, College Station, TX, (2)University of
Tennessee, Jackson, TN, (3) Mississippi State University, Stoneville, MS, (4) Texas A&M University, College Station, TX, (5) University of Arkansas, Keiser, AR, (6) University of Arkansas, Lonoke, AR, (7) LSU AgCenter, Winniboro, LA

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 Begue6, Mark Harfouche7 and Dominic Reisig8, (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 Raszeicz1, Lindsey C Perkin2, Zach Cohen3, Xanthe Shirley4, Raul Ruiz-Arce5, Charles P.-C. Suh6 and Gregory A. Sword7, (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, Shafqat 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 Cahoon³, Jacob C Forehand³, Jose S de Sanctis² and Brock A Dean³, (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 Nitrapyrin to Aid Nitrogen Management in Cotton**  
Carrie C Ortel, Trenton L Roberts, Kyle A Hoegenauer, Gerson L Drescher, Alden D Smartt and Linda Martin, (1)University of Arkansas, Fayetteville, AR, (2)University of Arkansas, Rohwer, AR

Amrit Pokhrel, John L. Snider, Simerjeet Virk, Henry Yab bey Sintim, Lavesta C. Hand, George Vellidis, Ved Parkash, Devendra Prasad Chalise and Joshua M. Lee, University of Georgia, Tifton, GA

14. **The Impacts on Yield, Fiber Quality, and Net Returns with Mixing Two Cottonseed Cultivars on-Farm**  
Meredith L McGlamory, Jeremy M. Kichler, William G. Tyson, Colton Scott Moon, Ben Reeves, Tony L. Barnes and Lavesta C. Hand, (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 Kemerait, 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. Mott, Benjamin M. McKnight and Tyler Mays, (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. Pieralisi, William Joseph Rutland, Bradley Norris, Eli B. Hobbs and Tyler S Soignier, (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. Hobbs³, Thomas W. Allen⁴ and Corey J Bryant³, (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, 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
32. Tillage and Cover Crop Effects on Windmillgrass and Cotton Production
Charles Coufal, Jerry Adams, Paul DeLaune and Domingo Patlan, Texas A&M AgriLife Research, Vernon, TX

33. Determining Optimum Cover Crop Seeding Rates in Dryland Cotton Systems
Jerry Adams1, Charles Coufal1, Paul DeLaune1, Emi Kimura1 and Domingo Patlan1, (1)Texas A&M AgriLife Research, Vernon, TX, (2) Texas A&M AgriLife Extension Service, Vernon, TX

34. Assessing Physiological Contributors to Productivity of Diverse Cotton Genotypes
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

35. Cotton Planting Seed Quality Survey; An Extension Cotton Specialists Collaboration
Murilo Maeda1, Steve M Brown2, Seth A. Byrd2, Kent D. Chapman3, Guy D. Collins2, Michael K. Dowd2, Keith Edmisten2, Hunter Frame3, Michael A. Jones5, Benjamin M. McKnight10, Calvin D Meeks1, Gaylon Morgan12, Randy Norton13, Brian Pieralisi14, Tyson B Raper15, Bill Robertson16, Tyler Sandlin17, John L. Snider18, Lori Unruh Snyder19 and David L. Wright19, (1)Texas A&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 & State University, Blacksburg, VA, (9)Clemson University, Florence, SC, (10)Texas A&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)Mississippi State University, Starkville, MS, (15)University of Alaska Fairbanks, University, (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

36. Semi-Arid Cotton Production and Soil Characterization Following Long-Term Cover Crops and No-Tillage
Tessa Bennett1, Katie L. Lewis2, Joseph Alan Burke3, Christopher Cobos1 and J. Wayne Keeling4, (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, Lubbock, TX, (4)Texas A&M AgriLife Research Center, Lubbock, TX

37. Determining the Percent of Visual Mechanical Damage of Cotton Seed
Marisa Crisp, NC State, Raleigh, NC and Lori Unruh-Snyder, NC State, Zebulon, NC

38. Boll Size, Seed Size and Relationships to Lint Yield Observed in the 2022 Tennessee Official Variety Trial
Samuel Reeves, Patricia de Sousa Soares, Ryan Blair, Matthew Davis and Tyson B Raper, University of Tennessee, Jackson, TN
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 Via1, 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. Pieralisi1, 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 Yabby 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 Bagnall² and Cristine Morgan², (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. Wright², Ian Small² 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 Tadlock³, Sally Stetina¹ 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-Scherer⁶, Cecilia Monclova-Santana⁷, Paul Price⁸, 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, Winnboro, 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 Wagner, Alois A. Bell, Clint W Magill and Jinggao Liu, (¹)USDA-ARS-ICDRU, College Station, TX, (²)USDA-ARS-ICDRU, 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. Jobe, Jorge Garcia, Mauricio Ulloa and Margaret L. Ellis, (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 Norton¹, Jiahuai Hu² and Kaleb Bryce¹, (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 Scheffler³ and Joshua A. Udall¹, (1)USDA-ARS, College Station, TX, (2)Cotton Incorporated, Cary, NC, (3)USDA ARS, Stoneville, MS

Cotton Improvement Conference Posters

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 Crow³, 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 Anjel M 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 Anthonomus 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 Ray¹, Adam Kesheimer¹, Kassie Conner¹ and Alana Lynn Jacobson¹, (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

Cotton Weed Science Research Conference Posters

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 Saflufenacil: Impact on Weed Control and Cotton Injury
Pamela Carvalho-Moore1, Jason K Norsworthy1, Leonard B Piveta1, Tanner A King1, Matthew C Woolard1, Mason Castner1 and Lon Tom Barber2, (1)University of Arkansas, Fayetteville, AR, (2) Director Newport Extension Center, (CES)-Cooperative Extension Service, Lonoke, AR

90. Confirmation of 2,4-D-Resistant Palmer Amaranth in Arkansas and Sensitivity to Postemergence-Applied Cotton Herbicides
Maria Carolina Souza1, Jason K Norsworthy1, Pamela Carvalho-Moore1, Christian Thomas Arnold1, Lon Tom Barber1 and Thomas R Butts1, (1)University of Arkansas, Fayetteville, AR, (2)Director Newport Extension Center, (CES)-Cooperative Extension Service, Lonoke, AR, (3)University of Arkansas, Lonoke, AR

91. Cover Crop Residue Effects on the Germination of Troublesome Cotton Weeds
Annu Kumari1, Andrew J. Price2, Steve Li1 and Audrey V. Gamble1, (1)Auburn University, Auburn, AL, (2)USDA, Auburn, AL

92. Longevity of a Moldboard Plow Tillage Event in Cotton: Impact on Palmer Amaranth over Four Years
Ty C Smith1, Jason K Norsworthy1, Tom Barber2, Matthew C Woolard1, Leonard B Piveta1 and Rodger B. Farr1, (1)University of Arkansas, Fayetteville, AR, (2)University of Arkansas-Extension, Lonoke, AR, (3)Bayer Crop Science, Wellfleet, NE

93. Comparison of Broadcast vs See & Spray Programs™ in Xtendflex Cotton
Tristen A Avent1, Jason K Norsworthy2, Mason Castner2, William Patzoldt2, Lauren M Schwartz-Lazaro2, Michael M Houston3, Wesley Everman3 and Diego J Contreras3, (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 Woolard1, Jason K Norsworthy1, Casey H Arnold1, Tanner A King1 and Lon Tom Barber4, (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 Chu1, Benjamin M. McKnight2, Gaylon Morgan3, Michael Walsh1 and Muthu Bagavathiannan1, (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 Soignier**, Brian K. Perialis', Darrin M. Dodds', Jason Krutz', Dave Spencer', Whitney Crow', William Joseph Rutland', Eli B. Hobbs' and Bradley Norris', (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 Torres**, Daniel E Martin', Bishwa Sapkota', Bholuram Gurjar', Matthew Kutugata' and Muthukumar V Bagavathiannan', (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. Holladay', Mike Marshall', Michael A. Jones' and Michael T. Plumblee', (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 Castner', Jason K Norsworthy', Casey H Arnold' and Tom Barber', (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. Miller', Tom Barber', Jason A. Bond', Daniel O Stephenson IV' and Ashley M Barfield', (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 Dudak, Zachary R. Treadway, Todd A Buaghman, Gregory B. Baldwin, Tom Barber, Jason A. Bond, Charlie Cahoon, A. Stanley Culpeper, Peter A. Dotray, Adam C. Hixson, J. Wayne Keeling, Steve Li, Michael W. Marshall, Reagan L. Noland, Scott Nolte, Larry E Steckel, Daniel O Stephenson IV and Maxwell E. Smith, (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. Price, Nicholas E. Korres, Jason K Norsworthy and Steve Li, (1)USDA-ARS, National Soil Dynamics Unit, Auburn, AL, (2)University of Arkansas, Fayetteville, AR, (3)University of Tennessee, Jackson, TN, (2)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 Soares, Lori Duncan, Samuel Reeves, Matthew Davis and Tyson B Raper, (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 Tostenson, Wesley M Porter, Seth Thomas McAllister and Kaylyn Reagan, (1)University of Georgia, Tifton, GA, (2)University of Georgia Cooperative Extension, Dawson, GA

**Sustainability Posters**
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 Kirksey⁵ 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

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